

Partners in Progress



Pinal
1967 Annual Report
Cooperative Extension Service
The University of Arizona

PINAL COUNTY
ANNUAL NARRATIVE REPORT

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January 1, 1967

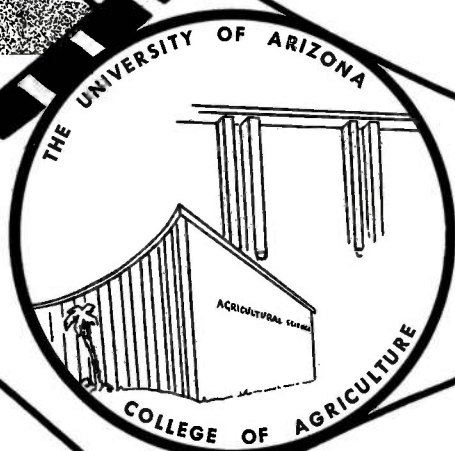
to

December 31, 1967

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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, PROGRAMMING AND EVALUATION

A. COUNTY STAFF, THEIR PRIMARY AREAS OF RESPONSIBILITY AND MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967

STAFF MEMBER, TITLE AND PRIMARY AREA OF RESPONSIBILITY	MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967	ANNUAL REPORT DETAILS----- PAGE REF.
CHARLES E. ROBERTSON AGENT IN CHARGE		
FARM MANAGEMENT	*COUNTY AGENTS REPORT	15
POULTRY	*FARM-CITY WEEK ACTIVITIES	65
	*FARM-SAFETY WEEK ACTIVITIES	65
	*COUNTY AGRICULTURAL SITUATION	65
	*COSTS OF PRODUCTION	19
	*FITTING CROPPING SYSTEMS	18

JAMES W. LITTLE AGRICULTURAL AGENT		
AGRONOMY	*THREE SAFFLOWER VARIETY TESTS	25
HORTICULTURE	*ONE GRAIN SORGHUM TEST	25
	*FOUR NEW ALFALFA VARIETY TESTS	25
	*CONTINUE ONE CITRUS ROOTSTOCK TEST	--
	*YARD AND GARDEN SHOW - TWICE WEEKLY RADIO	15

F. VAN WILSON AGRICULTURAL AGENT		
LIVESTOCK	*CONTROLLING LOW VALUE RANGE PLANTS	27
DAIRY	*RANGE RESEEDING	27
RANGE	*DAIRY COST ANALYSIS	20
	*BRUCellosIS CERTIFICATION	28

SAM STEDMAN AGRICULTURAL AGENT		
COTTON CULTURE	*COTTON VARIETIES DEMONSTRATION	21
ENTOMOLOGY	*SCHEDULE INSECTICIDE APPLICATION FOR CONTROL	
WEED CONTROL	OF MID AND LATE SEASON INSECTS	23
COTTON VARIETIES	*PINAL COTTON REMARKS - NEWSLETTER	21
	*COUNTY AGENTS REPORT - RADIO PROGRAM	15
	*PROTECTION OF COTTON FROM PINK BOLLWORM, CULTURAL AND CHEMICAL	22

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

A. COUNTY STAFF, THEIR PRIMARY AREAS OF RESPONSIBILITY AND MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967 (CONTINUED)

STAFF MEMBERS, TITLE AND PRIMARY AREA OF RESPONSIBILITY	MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967	ANNUAL REPORT DETAILS----- PAGE REF.
<hr/>		
SHIRLEY WEIK HOME ECONOMIST		
ADULT HOME ECONOMICS AND ASSIST WITH 4-H HOME ECONOMICS WHEN NEEDED	CLUB OFFICERS TRAINED IN GROUP WORK PROCEDURES PROJECT LEADERS TO BE TRAINED IN FIVE PROJECT AREAS	32 32,33,34, 36,37,38, 39,41
	BROAD DISTRIBUTION OF FLYERS EXPLAINING THE 1967 HOME ECONOMICS PROGRAM PARTICULARLY IN THOSE COMMUNITIES WHERE THERE ARE NO HOMEMAKERS' CLUBS	30,31
	PROBLEMS OF TEENAGERS TO BE DISCUSSED WITH HOMEMAKERS' CLUBS MEMBERS	40
	NUTRITION EDUCATION PROGRAM FOR PARENTS OF HEAD START CHILDREN	48,49
	CONSUMER EDUCATION VIA MASS MEDIA TO RECEIVE MORE ATTENTION	15,16
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KEITH G. JONES AGRICULTURAL AGENT		
4-H CLUB WORK AND OTHER YOUTH WORK	PROJECT WORK LEADER TRAINING JUDGING WORKSHOPS COUNTY DEMONSTRATION DAY 4-H FAIR 4-H CAMP NATIONAL 4-H WEEK ACTIVITIES SPECIAL CITIZENSHIP PROGRAMS CAREER PROGRAMS FOR SENIOR 4-H'ERS AND OTHER YOUTH	55,57 52,53,55 56 57 62,63 60 62 61,62 64
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I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

A. COUNTY STAFF, THEIR PRIMARY AREAS OF RESPONSIBILITY AND MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967 (CONTINUED)

STAFF MEMBER, TITLE, AND PRIMARY AREA OF RESPONSIBILITY	MAJOR EDUCATIONAL PROJECTS OR ACTIVITIES CONDUCTED IN 1967	ANNUAL REPORT DETAILS----- PAGE REF.
SALLIE LYNN ASST. HOME ECONOMIST	EXPANSION OF 4-H CHILD CARE PROGRAM AND 4-H MEMBER-TRAINING IN ONE PHASE SUPPORT AND ENCOURAGEMENT OF NEW, SMALL 4-H CLUBS	59 54
HOME ECONOMICS IN 4-H CLUB WORK AND IN OTHER YOUTH PROGRAMS	LEADER TRAINING, AS NEEDED, IN EVERY UNIT OF 4-H PROJECTS IN FOODS AND NUTRITION, CHILD CARE, CLOTHING, KNITTING AND HOME MANAGEMENT-HOME FURNISHINGS	53,55
ELLEN HOSKING ASST. HOME ECONOMIST	SUPPLEMENTARY TRAINING IN 4-H CLOTHING PROGRAM - MODELING TECHNIQUES; ACCESSORIES GROOMING	54,58
HOME ECONOMICS IN 4-H CLUB WORK AND IN OTHER YOUTH PROGRAMS	COLOR WORKSHOPS - SPECIFICALLY RELATED TO CLOTHING AND MAKE-UP SELECTION BUT EXTENDING INTO OTHER AREAS TO MEET INDICATED NEEDS	54

1. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION

B. STAFF CHANGES

MISS SALLIE LYNN, ASSISTANT EXTENSION HOME ECONOMIST, RESIGNED AS OF AUGUST 1. MISS ELLEN HOSKING REPLACED HER ON OCTOBER 1.

C. HOW THE EXTENSION PROGRAM IS DEVELOPED

THE AGRICULTURAL SECTION OF THE PROGRAM HAS BEEN DEVELOPED IN PAST YEARS BY AN AGENT EVALUATION OF EACH AREA. THIS WAS BASED UPON INDIVIDUAL CONTACT WITH EXTENSION CUSTOMERS. WE ARE ABLE IN THIS WAY TO KEEP ABREAST OF THE CHANGING SITUATION IN AGRICULTURE. IN RECENT YEARS THE AGRICULTURAL SITUATION HAS BECOME RAPIDLY MORE COMPLEX.

THE TOTAL PRODUCTION OF AN ENTERPRISE IS MADE UP OF MANY CONTROLLED INPUTS, WHICH ARE INFLUENCED BY THE BASIC RESOURCES OF SOIL, WATER AND CLIMATE. EACH OF THESE CONTROLLED INPUTS ARE INTER-RELATED AND AFFECTS THE OTHER IN VARYING AMOUNTS ACCORDING TO THE TIMING, AMOUNT AND METHODS USED BY MANAGEMENT. THESE CONTROLLABLE VARIABLES OF MODERN FARM MANAGEMENT ARE BECOMING MORE COMPLEX. THIS MAKES DEVELOPMENT AND APPLICATION OF NEW FARM MANAGEMENT TECHNIQUES AND PROCEDURES OF PRIME IMPORTANCE. THE DEVELOPMENT AND USE OF PURCHASED NON-FARM PHYSICAL INPUTS SUCH AS THE SUBSTITUTION OF CAPITAL FOR LABOR IS A CLOSE SECOND IN IMPORTANCE.

THE COMPLEX NATURE OF OUR FARMING MAKES APPLICATION OF NEW TECHNIQUES AND DEVELOPMENTS MORE COMPLEX. FOR INSTANCE HOW ECONOMICAL IS IT FOR A FARMER TO USE A \$20,000 HARVESTER IN A FIELD THAT IS INADEQUATELY FERTILIZED OR WATERED; IN WHICH THE YIELD IS CUT 10% OR MORE BY INSECTS AND DISEASES; AND WHEN IMPROPER MACHINE ADJUSTMENT LEAVES A FIFTH OF THE CROP IN THE FIELD? TO ADEQUATELY DEMONSTRATE ONE VARIABLE INPUT, ALL OTHER VARIABLE INPUTS MUST BE CONTROLLED OR MISLEADING RESULTS WILL BE OBTAINED.

TO ADEQUATELY DEMONSTRATE NEW PROCEDURES AND TECHNIQUES IN TODAY'S COMPLEX AGRICULTURE, WE NEED TO MODIFY OUR DEMONSTRATION METHODS IN SUCH A WAY THAT WE CAN EXERCISE POSITIVE CONTROL OVER ALL VARIABLE INPUTS. TO ACCOMPLISH THIS THE PINAL COUNTY EXTENSION ADVISORY BOARD HAS BEEN INCORPORATED AS A NON-PROFIT CORPORATION TO HANDLE THE FINANCING OF THESE POSITIVE CONTROL DEMONSTRATIONS. THE ADMINISTRATIVE PROCEDURE WILL BE AS FOLLOWS:

1. WRITE UP PROPOSED DEMONSTRATIONS.
2. EVALUATION OF PROPOSED DEMONSTRATIONS.
3. DETERMINE LIMITS OF CAPITAL AND MANPOWER.
4. ESTABLISH PRIORITIES OF DEMONSTRATIONS UP TO THE LIMIT OF 3. ABOVE.
5. APPLY RESOURCE INFORMATION TO SELECTED DEMONSTRATIONS AND WRITE UP PROCEDURE IN DETAIL.
6. WORK OUT THE PROCEDURE FOR USING THE DEMONSTRATIONS AS EDUCATIONAL TOOLS. (TOURS, FIELD DAYS, ETC.)

THE OLD TYPE DEMONSTRATION WILL CONTINUE TO BE USED WHERE IT IS APPLICABLE AND TO THE EXTENT THAT WE HAVE CAPITAL AND MANPOWER TO ADEQUATELY DO THEM.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

C. HOW THE EXTENSION PROGRAM IS DEVELOPED (CONTINUED)

THE EXTENSION ADVISORY AND COMMITTEES APPOINTED BY THIS BOARD WILL BE USED MORE IN FUTURE YEARS IN PLANNING AND CONDUCT OF EXTENSION DEMONSTRATIONS. THE INCORPORATION OF THE BOARD CULMINATES 3 YEARS OF BASIC WORK.

THE HOME ECONOMICS PROGRAM IS DEVELOPED FROM REQUESTS FOR INFORMATION FROM INDIVIDUALS OR GROUPS THAT COME UP DURING THE YEAR, AND FROM REQUESTS OR SUGGESTIONS SUBMITTED BY THE HOMEMAKERS CLUBS.

REPRESENTATIVES OF THE CLUBS MET WITH THE EXTENSION HOME ECONOMISTS AND THE BIA HOME ECONOMIST IN THE SPRING OF 1966 TO REVIEW THE REQUESTS FOR HOME ECONOMICS ASSISTANCE AND TO SEE WHAT SHOULD RECEIVE ATTENTION ON A COUNTY WIDE BASIS DURING 1967 AND 68. ALSO AT THIS TIME SOME DECISIONS WERE MADE AS TO HOW THESE REQUESTS SHOULD BE HANDLED - WHETHER AS TOPICS FOR THE HOMEMAKERS' CLUBS PROGRAMS, AS WORKSHOPS OPEN TO THE PUBLIC, AS PROGRAMS LIMITED TO SOME SPECIFIC GROUPS, OR AS SUBJECTS FOR NEWSPAPER ARTICLES, NEWS LETTERS, ETC. THE FINAL DECISIONS ON THIS HOWEVER, WERE MADE BY THE AGENTS AND THE STATE SPECIALISTS INVOLVED.

THE NAMES OF INDIVIDUAL MEMBERS OF THIS PROGRAM PLANNING GROUP WERE: MRS. A. L. SMITH AND MRS. VERTON JACKSON OF SACATON; MRS. ESTOL DAVIS OF CASA GRANDE; MRS. RUTH MARRIETTA OF CASA BLANCA; MRS. OREEN BLACKWATER OF BLACKWATER; MRS. GLADYS McCORMICK OF FLORENCE; MRS. RICHARD ST. JEOR OF MAMMOTH; MRS. GEORGE BARTLETT, KEARNY; MRS. WELDON SIMMONS, COOLIDGE; MRS. DOMINGO DODGE, SUPERIOR, AND ALSO MRS. TYLENE BURNS AND MISS ALICE SJOBERG WHO AT THAT TIME WERE THE HOME SERVICE REPRESENTATIVES OF THE SOUTHWEST GAS CORP.

THE 4-H CLUB PROGRAM IS DEVELOPED BY WORKING CLOSELY WITH OUR 4-H BOARD OF DIRECTORS AND WITH COMMITTEES COMPOSED OF 4-H LEADERS AND OTHER KEY PEOPLE. THE ACTUAL EDUCATIONAL MATERIAL PRESENTED IS FORMULATED THROUGH COUNTY STAFF CONFERENCES AND CONFERENCES WITH MEMBERS OF THE STATE STAFF.

D. ADVISORY GROUPS - THEIR PURPOSE AND MEMBERSHIP

THREE MEMBERS OF THE PINAL COUNTY EXTENSION ADVISORY BOARD WERE RE-APPOINTED IN JANUARY BY THE PINAL COUNTY BOARD OF SUPERVISORS.

THE BOARD IS COMPOSED OF:

MRS. CATHERINE MILLER, Box 457, MAMMOTH, ARIZONA
MR. FRED ASH, P Z RANCH, WINKELMAN, ARIZONA
MR. WILLIS COMBS, Rt. 1, Box 99, QUEEN CREEK, ARIZONA
MR. TOM GADDIS, Rt. 1, Box 62, MARICOPA, ARIZONA
MR. ELVERN McGEE, Box 3, VALLEY FARMS, ARIZONA
MR. JAMES BENEDICT, 201 DATE DRIVE, CASA GRANDE, ARIZONA
MR. PHIL THOMPSON, Box 787, ELOY, ARIZONA

THE PINAL COUNTY COUNCIL OF EXTENSION HOMEMAKERS CLUBS SERVES AS AN ADVISORY GROUP FOR THE ADULT HOME ECONOMICS PROGRAM.

THE COUNCIL IS MADE UP OF REPRESENTATIVES OF EACH OF THE EXTENSION HOMEMAKERS CLUBS IN THE COUNTY. MEMBERSHIP ON THE 1967 COUNCIL WAS AS FOLLOWS:

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

D. ADVISORY GROUPS - THEIR PURPOSE AND MEMBERSHIP (CONTINUED)

PRESIDENT - MRS. DAVE MILLER, MAMMOTH
VICE PRESIDENT - MRS. VERTON JACKSON, SACATON
SEC.-TREAS. - MRS. HARRY GRIGSBY, KEARNY
* * * * *

- MRS. RICHARD ROORDA, APACHE JUNCTION
- MRS. WILLIAM SCHAUMBURG, APACHE JUNCTION
- MRS. GRACE KISTO, BLACKWATER
- MRS. KATHERINE MANUEL, BLACKWATER
- MRS. RUBY BROWN, CASA BLANCA
- MRS. HAZEL MAKIL, CASA BLANCA
- MRS. RONALD ANDERSON, CASA GRANDE
- MRS. ESTOL DAVIS, CASA GRANDE
- MRS. VERNON TOTTEN, CASA GRANDE
- MRS. TED KENT, COOLIDGE
- MRS. R. G. SEABOURN, COOLIDGE
- MRS. PAUL KERR, ELOY
- MRS. RICHARD RADEMACHER, ELOY
- MRS. K. C. LESIKAR, FLORENCE
- MRS. ED PERKINS, FLORENCE
- MRS. W. F. ROBINSON, FLORENCE (ALTERNATE)
- MRS. D. A. SAUL, FLORENCE
- MRS. THEOPOLIS SMITH, FLORENCE
- MRS. R. C. MAYFIELD, KEARNY
- MRS. RICHARD ROSSMAN, KEARNY
- MRS. SAM JONES, MAMMOTH
- MRS. D. D. OWENS, MAMMOTH (ALTERNATE)
- MRS. CORINA DIAZ, ORACLE
- MRS. STUART GOUDE, ORACLE
- MRS. LOLITA JACKSON, SACATON
- MRS. BURDETTE MORAGO, SACATON
- MRS. HANNAH MORAGO, SACATON (ALTERNATE)
- MRS. NORMA HUDZIETZ, SUPERIOR
- MRS. ROBERT McANNEY, SUPERIOR (ALTERNATE)
- MRS. JESSE METCALF, SUPERIOR
- MRS. MYRTLE SHARTZER, WINKELMAN

THE COUNCIL MEETS FOUR TIMES A YEAR - IN JANUARY, APRIL, SEPTEMBER, AND NOVEMBER AND ASSUMES RESPONSIBILITY FOR TRAINING CLUB OFFICERS, EXPANDING CLUB MEMBERSHIP, PROMOTING PARTICIPATION IN THE TOWN AND COUNTRY LIFE CONFERENCE AT THE UNIVERSITY, SELECTING PROJECT AREAS TO BE EMPHASIZED IN THE EXTENSION HOME-MAKERS CLUBS PROGRAMS OR IN OPEN MEETINGS AND HOLDS AN ANNUAL ACHIEVEMENT DAY EACH FALL.

COUNCIL MEETINGS ARE HELD IN DIFFERENT COMMUNITIES IN THE COUNTY AND USUALLY INCLUDE SIDE TRIPS OR ACTIVITIES DESIGNED TO HELP MEMBERS BECOME BETTER ACQUAINTED WITH THE DIFFERENT AREAS. WE FEEL THAT THIS IS IMPORTANT IF THE COUNCIL IS TO TRULY SERVE THE WHOLE COUNTY.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

D. ADVISORY GROUPS - THEIR PURPOSE AND MEMBERSHIP (CONTINUED)

THE 4-H BOARD IS COMPOSED OF 9 ADULT LEADERS AND 2 JUNIOR LEADERS (1 BOY AND 1 GIRL). THE ADULTS ARE ELECTED BY MAIL BALLOT WHICH GOES TO ALL LEADERS IN THE COUNTY. THEY SERVE 3 YEAR STAGGERED TERMS. PRESENT MEMBERS OF THE BOARD ARE AS FOLLOWS:

MR. JOE COOPER, FLORENCE - PRESIDENT
MR. BUD JACKSON, CASA GRANDE - VICE PRESIDENT
MRS. RICHARD ROORDA, APACHE JUNCTION - SECRETARY
MR. ROY SWISHER, COOLIDGE - TREASURER
MR. GEORGE R. MILLER, JR., ORACLE
MR. JIM HARVEY, VALLEY FARMS
MRS. MIKE BIDEGAIN, RAY
MR. WILLIS COMBS, QUEEN CREEK
MRS. MAX TAYLOR, COOLIDGE
BILL WILSON, CASA GRANDE - JUNIOR LEADER
MARY SUE FEARN, CASA GRANDE - JUNIOR LEADER

COUNTY COMMITTEES ASSIST 4-H CLUB WORK

✓ LIVESTOCK COMMITTEE

THE LIVESTOCK COMMITTEE, COMPOSED OF ADULTS INTERESTED IN YOUTH AND IN LIVESTOCK, RENDERED A GREAT SERVICE IN HELPING WITH THE LIVESTOCK SHOW AND SALE AT THE 4-H FAIR. THIS COMMITTEE ALSO HELPED LOCATE CALVES FOR 4-H'ERS AT THE START OF THE CLUB YEAR.

✓ AWARDS COMMITTEE

THIS YEAR PEOPLE OUTSIDE THE 4-H ORGANIZATION MADE UP THE AWARDS COMMITTEE. ALL BOOKS SELECTED FOR COUNTY AND STATE AWARDS WERE SELECTED BY THIS COMMITTEE.

✓ HOME ECONOMICS COMMITTEE

SELECTED 4-H LEADERS SERVED ON THE HOME ECONOMICS COMMITTEE TO ADVISE AND PLAN FOR COUNTY 4-H EVENTS INVOLVING HOME ECONOMICS PROJECTS.

✓ SENIOR 4-H EXECUTIVE COUNCIL

THIS GROUP IS COMPOSED OF THE OFFICERS OF THE COUNTY SENIOR 4-H CLUB. THESE SENIOR 4-H MEMBERS PROVIDE LEADERSHIP IN PLANNING AND CONDUCTING COUNTY 4-H ACTIVITIES AND EVENTS. THESE INCLUDE 4-H CAMP, 4-H FAIR, TRI-COUNTY SENIOR EVENT, AND DEMONSTRATION DAY.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

E. ASSISTANCE OF INDIVIDUALS, GROUPS, ORGANIZATIONS AND AGENCIES

AN INVALUABLE SERVICE HAS BEEN RENDERED BY THE LOCAL CHURCHES, SERVICE COMPANIES AND TOWN OFFICIALS WHO HAVE MADE MEETING PLACES AVAILABLE - USUALLY FREE OF CHARGE - FOR THE EDUCATIONAL PROGRAMS OF THE EXTENSION SERVICE.

PARTICULAR ACKNOWLEDGEMENTS FOR HELP WITH THIS PAST YEAR'S PROGRAMS GO TO THE SOUTHWEST GAS CORP. FOR THE USE OF ITS AUDITORIUMS IN BOTH CASA GRANDE AND COOLIDGE; THE U. S. EMPLOYMENT OFFICE; ELECTRICAL DISTRICT #2; THE TOWN OFFICIALS IN MAMMOTH AND KEARNY AND RED ROCK FOR THE REGULAR USE OF THEIR COMMUNITY CENTER AND TOWN HALL AND SCHOOL; THE FIRE DEPARTMENT IN APACHE JUNCTION; THE LION'S CLUB IN MAMMOTH; THE LIBRARY ASSOCIATION IN SUPERIOR; THE PRESBYTERIAN CHURCHES IN STANFIELD, FLORENCE, COOLIDGE AND CASA GRANDE; THE METHODIST CHURCHES IN KEARNY, ELOY, AND CASA GRANDE; THE ORACLE UNION CHURCH, THE CATHOLIC CHURCH IN KEARNY; THE TRIBAL COUNCIL OF THE GILA RIVER INDIAN RESERVATION AND THE BIA PIMA AGENCY.

WITHOUT THEIR COOPERATION MUCH OF THE HOME ECONOMICS AND 4-H PHASES OF THE PROGRAM, COULD NOT HAVE BEEN AS EFFECTIVELY CARRIED OUT.

THE PEOPLE OF PINAL COUNTY BACK THE 4-H PROGRAM WITH BOTH TIME AND MONEY. THE VOLUNTEER LEADERS WHO WORK DIRECTLY WITH THE 4-H MEMBERS NUMBER 145. NEARLY \$5,000 WAS RAISED IN THE SALE OF ADS FOR THE 4-H FAIRBOOK. ABOUT \$1,000 OF THIS WAS USED FOR PRINTING THE BOOK, AND THE REST WENT INTO THE COUNTY 4-H FUND. SOME OF 4-H CAMP EXPENSES, LEADER TRAINING EXPENSES, AWARDS AND 4-H FAIR EXPENSES ARE PAID FROM THIS FUND.

THE SERVICE CLUBS IN THE COUNTY BACKED 4-H MEMBERS BY INVITING THEM TO THE MEETINGS TO GIVE DEMONSTRATIONS OR SPEECHES.

THE DEMONSTRATION OF NEW METHODS, PRODUCTS, VARIETIES, AND OTHER NEW ITEMS IS MADE POSSIBLE BY THE GOOD COOPERATION OF THE MANY GROWERS AND COMMERCIAL PEOPLE THAT ARE WILLING TO SPEND THEIR TIME AND EFFORT TO HELP OTHERS AND THE COMMUNITY.

THE COTTON GROWERS ASSOCIATION, FARM BUREAU, CATTLE GROWERS, CATTLE FEEDERS, SOIL CONSERVATION DISTRICTS AND COMMERCIAL COMPANIES ARE HELPFUL IN MANY WAYS TO GET THE WORD OUT TO THE CUSTOMERS OF EXTENSION.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

F. 1967 EXTENSION EDUCATIONAL PROGRAMS BY COMMUNITIES - AN OVERVIEW - AGRICULTURAL

	COMMUNITY				
	MARICOPA-STANFIELD	CASA GRANDE	ELOY	COOLIDGE	QUEEN CREEK
COTTON VARIETY TEST		1		1	
COTTON INSECT CONTROL			1		
COTTON WEED CONTROL			1	1	
COTTON DEFOLIATION TEST			1	1	
COTTON SYSTEMIC TESTS		1		2	
SOYBEANS	1	2	1		
SORGHUM H-57		1			
SORGHUM TDN/ACRE				1	
SAFFLOWER VARIETY	1	2			
WHEAT VARIETIES				1	
SORGHUM WEED CONTROL				1	
COMBINE EFFICIENCY SCHOOL		1		1	
RANGE RESEEDING METHOD	1				
SOIL AMENDMENT DEMONSTRATION		1	1	1	
PLASTIC GRAIN STORAGE				1	
ALFALFA WEED CONTROL		1			
ALFALFA VARIETY COMPARISON DEMONSTRATION		1		3	

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

F. 1967 EXTENSION EDUCATIONAL PROGRAMS BY COMMUNITIES - AN OVERVIEW
HOME ECONOMICS

	APACHE JUNCTION	BLACKWATER	CASA BLANCA	CASA GRANDE	COOLIDGE	ELOY	FLORENCE	KEARNY	MAMMOTH	MARICOPA	ORACLE	SACATON	STANFIELD	SUPERIOR	COUNTY WIDE
HOMEMAKERS CLUBS (13)	1	1	1	1	1	1	2	1	1		1	1		1	
OTHER ORGANIZED GROUPS (6)					1	1				1			1		2
SPECIAL INTEREST EDUCATIONAL PROGRAMS (6)				2	1		1	1						1	

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (continued)

F. 1967 EXTENSION EDUCATIONAL PROGRAMS BY COMMUNITIES - AN OVERVIEW - 4-H CLUB PROGRAM

4-H CLUB PROGRAM IN PINAL COUNTY

				Apache Junction	
				Casa Blanca	
			3	Casa Grande	1
			1	Children's Colony	
			4	Coolidge	4
			1	Florence	1
			1	Kearny	2
			1	Mammoth	2
			2	Oracle	1
			1	Queen Creek	4
			1	Randolph	
			1	Red Rock	
			1	Sacaton	
			1	Stanfield	1
			1	Superior	4
			1	Valley Farms	
4-H Clubs (22)					
4-H Leadership-In-Depth (6)					
Career Days					
4-H Leader Training					
Subject Matter					

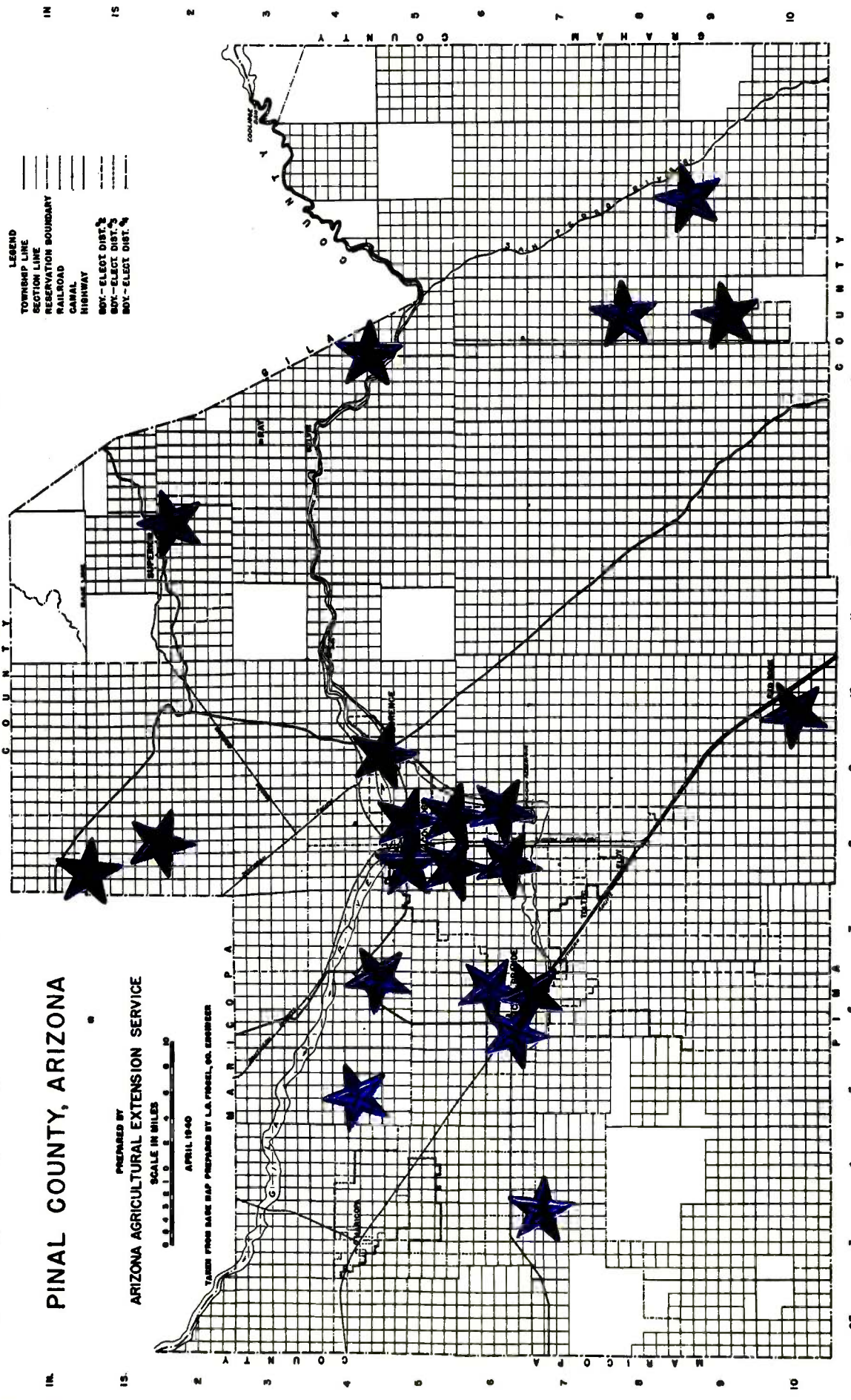
PINAL COUNTY, ARIZONA

PREPARED BY
ARIZONA AGRICULTURAL EXTENSION SERVICE

SCALE IN MILES
0 0.5 1 1.5 2 2.5 3 3.5 4

APRIL 1940

TAKEN FROM BUREAU MAP PREPARED BY L.A. FROELICH, CH. ENGINEER



- LEGEND**
- TOWNSHIP LINE
 - SECTION LINE
 - RESERVATION BOUNDARY
 - RAILROAD
 - CANAL
 - HIGHWAY
 - BOY - ELECT DIST. 1/2
 - BOY - ELECT DIST. 2/3
 - BOY - ELECT DIST. 3/4

* LOCATIONS OF 4-H CLUBS IN PINAL COUNTY

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

G. PROGRAM EVALUATION

AN EVALUATION STUDY OF THE EFFECTIVENESS OF HOMEMAKERS CLUBS WAS MADE IN THE FALL OF 1967.

THE PURPOSE WAS TO SEE HOW WELL THE CLUBS WERE MEETING THE EXPECTATIONS OF THEIR MEMBERS.

TWO AREAS WERE INCLUDED IN THE STUDY - THE MECHANICS OF ORGANIZATION AND THE EFFECTIVENESS OF THE EDUCATIONAL PROGRAM.

THE INSTRUMENT USED FOR THE STUDY WAS A TWO-PAGE QUESTIONNAIRE PREPARED BY MEMBERS OF THE COUNTY EXPANSION COMMITTEE AND MARIE WALTERS, CONSULTANT.

THE QUESTIONNAIRES WERE FILLED OUT AT THE SEPTEMBER MEETINGS OF THE CLUBS, AND WERE DISTRIBUTED BY MAIL OR BY PERSONAL CONTACTS TO THOSE NOT PRESENT AT THE SEPTEMBER MEETINGS. 75 QUESTIONNAIRES WERE RETURNED OUT OF APPROXIMATELY 150 DISTRIBUTED.

RESULTS WERE SOMEWHAT INCONCLUSIVE.

MOST OF THOSE WHO TOOK THE TROUBLE TO RETURN THE QUESTIONNAIRES INDICATED THEY WERE SATISFIED WITH THEIR CLUBS AND THE EDUCATIONAL PROGRAM.

HOWEVER, SINCE NO ONE WAS ASKED TO SIGN WE HAVE NO WAY OF KNOWING WHETHER THE 50% WHO DID NOT RETURN WERE DISSATISFIED AND, IF SO, WHY, SO THAT CHANGES MIGHT BE MADE.

SEE APPENDIX FOR A DETAILED SUMMARY OF REPLIES.

THIS YEAR SEVERAL METHODS WERE USED TO EVALUATE THE PROPOSAL OF DE-EMPHASIZING THE COMMUNITY 4-H CLUB IN FAVOR OF THE SMALLER PROJECT CLUBS. THROUGH STAFF CONFERENCES, COUNTY LEADER AND 4-H BOARD OF DIRECTORS DISCUSSIONS, COMMUNITY LEADER CONTACTS, AND DISCUSSIONS WITH MEMBERS OF THE CASA GRANDE KIWANIS CLUB THE ADVANTAGES AND DISADVANTAGES WERE WEIGHED AGAINST EACH OTHER.

THE EVALUATION SESSIONS CAME UP WITH THE FOLLOWING POINTS:

1. COMMUNITY CLUBS IN TOWNS TEND TO GET TOO LARGE AND UNWIELDY. PROJECT CLUBS ARE A WAY OF KEEPING CLUBS SMALL.
2. PARENTS OFTEN COMPLAIN OF TOO MANY MEETINGS WHEN MEMBER ATTENDS BOTH PROJECT AND COMMUNITY MEETINGS.
3. IN GENERAL THE RANGE OF EDUCATIONAL OPPORTUNITIES ARE MORE LIMITED IN PROJECT CLUBS.
4. THE COMMUNITY ACTION PROGRAMS AND COORDINATION BETWEEN GROUPS WOULD GENERALLY BE LESS EFFECTIVE WITH PROJECT CLUBS - UNLESS A COMMUNITY 4-H COMMITTEE WAS ACTIVE TO BACK THE PROGRAM.
5. COMMUNITIES VARY CONSIDERABLY - THE TYPE OF ORGANIZATION THAT IS BEST FOR ONE COMMUNITY IS NOT NECESSARILY BEST FOR ANOTHER.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

G. PROGRAM EVALUATION (CONTINUED)

6. IN ANY CIRCUMSTANCE, IT IS QUITE ADVANTAGEOUS TO HAVE SOME INDIVIDUAL OR COMMITTEE REPRESENT THE COMMUNITY AND SPEAK FOR THE COMMUNITY REGARDING 4-H.

THE CHANGE TO PROJECT CLUBS IN CASA GRANDE, WITH THE KIWANIS COMMITTEE BACKING THE PROGRAM WILL GIVE A GOOD OPPORTUNITY FOR FURTHER EVALUATION AT THE END OF THIS CLUB YEAR. AT PRESENT THE BEST APPROACH IS TO GIVE EACH COMMUNITY THIS PICTURE OF THE PROS AND CONS AND THEN THEY WILL HAVE TO DECIDE WHICH IS THE BEST FOR THEM. SOMETIMES THE LEADERSHIP AVAILABLE WILL DICTATE WHICH WAY TO GO ON 4-H ORGANIZATION FOR THE COMMUNITY.

I. EXTENSION ORGANIZATION, PROGRAMMING AND EVALUATION (CONTINUED)

H. PROFESSIONAL IMPROVEMENT

SPECIAL ASSIGNMENT IN PROFESSIONAL IMPROVEMENT ASSOCIATION
KEITH JONES SERVED AS WESTERN REGION DIRECTOR ON THE BOARD OF THE NATIONAL ASSOCIATION OF COUNTY AGRICULTURAL AGENTS. SIX STATES WERE VISITED TO REPRESENT THE NATIONAL ASSOCIATION. ALSO HE ATTENDED THREE MEETINGS OF THE BOARD.

11. EXTENSION INFORMATION

METHODS USED AND PEOPLE REACHED WITH AGRICULTURAL AND HOME ECONOMICS INFORMATION

RADIO, NEWSPAPERS AND CIRCULAR NEWSLETTERS

SEVEN RADIO PROGRAMS PER WEEK WERE PRESENTED BY AGENTS WORKING WITH AGRICULTURE DURING THE YEAR. SOME PROGRAMS WERE AIMED AT CONSUMERS AND OTHERS AT THE FARM AUDIENCE.

THE MOST RESPONSE WAS FROM THE FIELD DAY AND SPECIAL MEETING PROGRAMS. THE TIME OF ONE PROGRAM, 6:45 A.M., IS MORE APPROPRIATE FOR THE FARMER AUDIENCE. THIS MAY BE WHY THESE PROGRAMS WERE BETTER RECEIVED THAN THOSE TO CONSUMERS. AS MANY AS 12 FARMERS HAVE RESPONDED TO THESE PROGRAMS. THIS MEANS A NET RESPONSE OF AT LEAST 120 FOR THESE PROGRAMS. WE FEEL THAT THE SPECIAL INTEREST PROGRAMS WERE ALSO TUNED IN BUT ANALYSIS FAILED TO SHOW MUCH LISTENERSHIP.

THE CONSUMER AUDIENCE RESPONSE WAS VERY LOW. PERIODICALLY A GOOD BULLETIN WOULD BE DESCRIBED AND OFFERED. VERY FEW TAKERS WERE OBTAINED FROM THESE PROGRAMS. IT APPEARS THAT OUR NEXT YEAR'S PROGRAMS AT 6:45 A.M. SHOULD BE BEAMED TO OUR FARM AUDIENCE.

EIGHT RADIO PROGRAMS A MONTH WERE DEVOTED TO PINK BOLLWORM CONTROL. KPIN RADIO STATION IN CASA GRANDE CARRIED AGENT STEDMAN'S REPORT ON PINK BOLLWORM TRAP COUNTS EACH WEEK. CONTROL MEASURES, AS WELL AS AREAS WHERE PINKIES WERE BEING FOUND AROUND THE COUNTY AND STATE, WERE REPORTED TWICE WEEKLY ON THE STATION. OTHER INSECT POPULATIONS ON COTTON WERE ALSO REPORTED BY KPIN.

A MAGAZINE COVERING ALL COTTON GROWING AREAS OF CALIFORNIA AND ARIZONA PUBLISHED THE "PEST-O-GRAM" NEWSLETTERS. CASA GRANDE DISPATCH AND THE ENTERPRISE OF ELOY, COUNTY NEWSPAPERS, PUBLISHED "PEST-O-GRAMS" TOO.

THE AGRICULTURAL 4-H AGENT HAS A 15 MINUTE PROGRAM ONCE A WEEK. THIS IS ON SATURDAY AT 12:45 P.M. ON STATION KPIN. INTERVIEWS, MEETING NOTICES, ANNOUNCEMENTS OF AWARDS, OBJECTIVES OF 4-H AND LOCAL 4-H NEWS MAKE UP THE MOST OF THE PROGRAM TOPICS.

MOST OF THE 4-H RELEASES WERE USED IN COUNTY WEEKLY NEWSPAPERS AND IN RADIO NEWSCASTS. UNDER THE SECTION "NATIONAL 4-H WEEK" A LIST OF SPECIAL "PROMOTION OF 4-H" PROJECTS ARE DESCRIBED.

SPECIAL EXTENSION INFORMATION PROJECTS

A GROWING NEED FOR CONSUMER EDUCATION

ONE OF THIS COUNTRY'S GREATEST ASSETS CREATES ONE OF ITS GREATEST PROBLEMS. THAT OF MAKING CHOICES. WE PRIDE OURSELVES ON OUR ABUNDANCE OF CONSUMER GOODS AND THE RAPIDITY WITH WHICH NEW ONES ARE DEVELOPED. THE U. S. HAS MORE TO OFFER ITS CONSUMERS THAN ANY OTHER COUNTRY. YET THE ATTENDANT PROBLEM OF KNOWING HOW BEST TO SELECT AND USE THESE PRODUCTS DEMANDS CONSTANT STUDY - SIMPLY TO KEEP UP TO DATE.

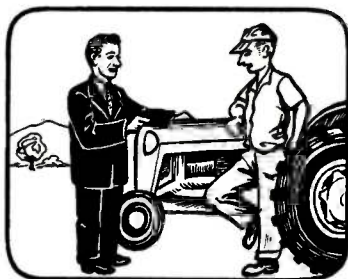
11. EXTENSION INFORMATION (CONTINUED)

A GROWING NEED FOR CONSUMER EDUCATION (CONTINUED)

IN RESPONSE TO THIS GROWING NEED FOR CONSUMER EDUCATION FOR HOMEMAKERS, THE CASA GRANDE DISPATCH (WITH AN ESTIMATED CIRCULATION OF 10,500 FOR ITS BUYERS GUIDE) HAS FOR THE PAST TWO YEARS RUN A SERIES OF ARTICLES AT IRREGULAR INTERVALS THROUGHOUT THE YEAR PREPARED BY THE EXTENSION HOME ECONOMIST DESIGNED TO HELP CONSUMERS GET THE MOST FOR THEIR MONEY.

THE TOPICS HAVE RANGED FROM INFORMATION ON USING CREDIT TO EVALUATING THE KITCHEN IN A NEW HOME AND UNDERSTANDING THE NEW FINISHES ON FABRICS.

THE POTENTIAL FOR TOPICS IS ENDLESS. THOSE SELECTED HAVE BEEN FOR THE MOST PART RELATED TO THE EDUCATIONAL PROGRAMS OFFERED IN THE HOMEMAKERS CLUBS.



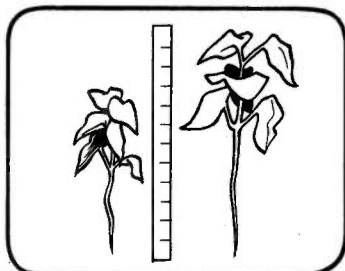
Farm & Home Visits
2530



160 Press Articles
Prepared & Published

32

Result Demonstrations
& Tests Established



2310 Office Calls

4940 Telephone Calls



Methods Used & People Reached with Agricultural & Home Economics Information . . . 1967

The University of Arizona

Cooperative Extension Service



200 Circular Letters Prepared



604 Television & Radio
Broadcasts



284 Meetings, Tours, Field Days

12350 Attendance



12705 Bulletins Distributed

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

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE

PARTNERS IN PROGRESS . . . IN MAKING BETTER FARM MANAGEMENT DECISIONS

FITTING CROPPING SYSTEMS - CER

THE BASIC RESOURCES UPON WHICH OUR AGRICULTURE MUST BE DEVELOPED ARE CLIMATE, WATER AND SOIL. A PERMANENT AND PROFITABLE AGRICULTURE DEPENDS UPON SELECTION OF ENTERPRISES, ALLOCATION OF CAPITAL, AND A LEVEL OF MANAGEMENT THAT WILL BEST UTILIZE THESE BASIC RESOURCES.

THE TOTAL PRODUCTION OF AN ENTERPRISE IS MADE UP OF MANY CONTROLLED INPUTS WHICH ARE INFLUENCED BY THE BASIC RESOURCES. EACH OF THESE CONTROLLED INPUTS ARE INTERRELATED AND EACH AFFECTS THE OTHER IN VARYING AMOUNTS ACCORDING TO THE TIMING, AMOUNT AND METHOD USED BY MANAGEMENT.

A SIMILAR INTERRELATION EXISTS BETWEEN ENTERPRISES.

A SYSTEMATIC ANALYSIS OF OUR SITUATION AS IT PERTAINS TO OUR BASIC RESOURCES IS BADLY NEEDED IF WE ARE TO HAVE THIS PERMANENT AND PROFITABLE AGRICULTURE. THE ANALYSIS OF OUR SITUATION WILL INVOLVE A STUDY OF SOIL AND WATER RESOURCES PLUS AN ANALYSIS OF THE POTENTIAL FOR THE VARIOUS TYPES OF AGRICULTURAL ENTERPRISES; CASH CROPS, FORAGE CROPS, CATTLE FEEDING, ETC. THIS IS TO BE FOLLOWED BY A REVIEW OF ALL ASPECTS OF THE ENTERPRISES OR ENTERPRISE COMBINATIONS WITH THE GREATEST POTENTIAL FOR THE COUNTY THAT HAVE A FAVORABLE RELATIONSHIP TO THESE BASIC RESOURCES. NEXT WILL BE AN ANALYSIS OF THESE ENTERPRISES TO DETERMINE CURRENT SITUATION AND OPPORTUNITIES FOR IMPROVEMENT. A REALISTIC PROGRAM WILL BE BASED ON THIS INFORMATION.

TO TAKE THE ABOVE GENERALITIES INTO SPECIFICS WE WILL START IN THE MIDDLE. A THOROUGH REVIEW OF SPECIFIC COMMODITIES - COTTON, SORGHUM, BARLEY AND WHEAT WILL BE USED AS A STARTING POINT. THE FOLLOWING OUTLINE WILL BE FOLLOWED IN COLLECTION OF PERTINENT DATA.

- A. ACREAGE AND HOW IT HAS CHANGED OVER THE PAST 10 TO 20 YEARS WITH REASONS FOR FLUCTUATIONS WHERE KNOWN.
- B. RANGE IN YIELDS FROM YEAR TO YEAR AND AREA TO AREA.
- C. PRODUCTION COSTS.
- D. PRODUCTION AND HARVEST PRACTICES USED BY MAJORITY OF GROWERS, AND HOW THESE VARY FROM FARM TO FARM AND YEAR TO YEAR.
- E. FACTORS LIMITING IMPROVEMENT IN YIELDS.
- F. KNOWN IMPROVED PRACTICES THAT ARE NOT COMMONLY ACCEPTED BY GROWERS.
- G. MARKET OUTLOOK.

WITH THE ABOVE INFORMATION AS A BASIS WE WILL MOVE ON TO THE FOLLOWING STEPS:

- A. ESTIMATE OF REASONABLE PRODUCTION LEVELS THAT COULD BE ACHIEVED UTILIZING KNOWN TECHNOLOGY.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

FITTING CROPPING SYSTEMS (CONTINUED)

B. ANALYSIS OF EACH PHASE OF PRODUCTION IN TERMS OF:

1. IS IT GENERALLY LIMITING PRODUCTION AT PRESENT?
2. IS IT LIKELY TO LIMIT PRODUCTION IF OTHER LIMITING FACTORS ARE REMOVED?
3. WHAT KNOWN TECHNOLOGY IS NOT BEING USED BY GROWERS AT PRESENT? WHY NOT? SHOULD IT BE?
4. WHAT IS NOT KNOWN AT PRESENT THAT IS RECOGNIZED AS A POSSIBLE PROBLEM?

C. ESTABLISHMENT OF PRIORITIES FOR EDUCATIONAL PROGRAMS, APPLIED RESEARCH BY EXTENSION, RECOMMENDATIONS FOR EXPERIMENT STATION RESEARCH.

THE PROCEDURE TO ACCOMPLISH THE ABOVE OUTLINE WILL BE AS FOLLOWS:

1. THE COUNTY WILL BE DIVIDED INTO FIVE AREAS CORRESPONDING TO THE ASCS COMMUNITY DIVISIONS.
2. DATA ON SELECTED AREAS IN EACH COMMUNITY WILL BE COLLECTED AS IN THE OUTLINE 1., A THROUGH G.; AND 2, A THROUGH C.
3. THE BEST RECOMMENDATIONS FOR EACH CULTURAL PRACTICE BASED ON FINDINGS IN 2 ABOVE.
4. DEGREE OF FARMER ACCEPTANCE. IF NOT; WHY NOT AND SHOULD THEY BE.

WE NOW HAVE THE AREAS PICKED IN FIVE COMMUNITIES AND MUCH OF THE PRELIMINARY WORK DONE IN AREA 5. THERE APPEARS TO BE NO CORRELATION BETWEEN YIELD AND SOIL TYPE EXCEPT ON AN AREA BASIS. IN SEVERAL INSTANCES FARMERS SIDE BY SIDE WITH SIMILAR SOIL WILL REPRESENT THE HIGH AND LOW YIELDS OF THE AREA. HOWEVER, AREAS 1 AND 5 AREA HIGH YIELD AREAS, AREA 3 LOW YIELD, AND AREA 2 AND 4 HAVE A MIXTURE OF HIGH AND LOW. IT ALSO APPEARS THAT THE TEN HIGH COTTON YIELDS WILL ALSO HAVE THE HIGH THREE YIELDS OF SORGHUM, BARLEY AND WHEAT. THE WAY IN WHICH THE INPUT VARIABLES ARE USED IS THE KEY TO HOW WELL THE FARM PERFORMS. PRODUCTION ITEMS ARE NOW BEING ASSEMBLED. THESE WILL BE USED ACCORDING TO SCHEDULE.

COST OF PRODUCTION - CER

A YARDSTICK OF COSTS OF PRODUCING COTTON WAS DEVELOPED AND PUT TO USE. THE BREAKDOWN ON COSTS WERE LABOR, FERTILIZER, INSECTICIDES, WELL REPAIR, WATER, MACHINERY REPAIR, CUSTOM WORK, DEPRECIATION AND MISCELLANEOUS. THE ONLY WAY FOR A YARDSTICK TO BE MEANINGFUL IS TO HAVE ALL MEASURES UNIFORM. THIS IS NOT THE CASE. EACH FARMER'S RECORD INCLUDES DIFFERENT ITEMS UNDER THESE HEADINGS. FOR INSTANCE FERTILIZER MAY INCLUDE THE LABOR OF APPLICATION. THIS GUIDE WAS USEFUL HOWEVER, TO A FEW FARMERS THIS YEAR. THE MAJOR EFFORT, HOWEVER, WAS DEVOTED TO THE PROBLEM OF STANDARDIZATION OF THESE ITEMS. TWO FARMERS COOPERATED ON THE EFFORT. BOTH WERE USING THE EDP PROGRAM. ONE DROPPED OUT AND ONE IS STILL ACTIVE. IT TAKES THE FINEST OF COOPERATORS ON A PROJECT OF THIS NATURE.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

COST OF PRODUCTION (CONTINUED)

THE SYSTEM THAT APPEARS TO BE MOST SUITED IS ONE IN WHICH LABOR, WATER AND MACHINERY ARE CONSIDERED AS SERVICE ENTERPRISES. ALL ACTUAL COSTS ARE COLLECTED HERE AND THEN ALLOCATED ON A CHARGE BASIS TO EACH OF THE PROFIT MAKING ENTERPRISES. WE THEN COME DOWN TO A COMMON DENOMINATOR OF SO MUCH COST PER UNIT OF THE VARIABLE INPUT ITEMS OF PRODUCTION. COST OF PRODUCTION DATA IS NOW ASSEMBLED BUT MUST BE STANDARDIZED. ENGINEERING DATA TO SUPPORT THE COST SCHEDULES IS IN THE EARLY STAGES OF COMPILATION. ONE GROWER WILL COOPERATE ON A DEMONSTRATION NEXT YEAR USING THE MAP 72 PROGRAM.

COMBINE EFFICIENCY SCHOOLS PAY OFF - JWJ

IN THE CASA GRANDE AND COOLIDGE AREAS COMBINE SCHOOLS WERE HELD. EMPHASIS WAS PLACED ON CHECKING HARVEST LOSS. SINCE FEW OF THE FARMERS OWNED MACHINES, A 45.25 LENGTH OF BANDSAW BLADE WAS USED AND A TABLE PRESENTED SHOWING GRAIN LOSS IN 100 LB. UNITS PER ACRE BY A SEED COUNT. THE SAW BLADE CAN BE USED TO CHECK PERFORMANCE OF CUSTOM OPERATORS.

DAIRY RECORDS COST ANALYSIS - FVW

PINAL COUNTY DAIRYMEN CONTINUED TO USE THE COST ANALYSIS PROGRAM DURING THE YEAR. A DAIRYMAN NEW TO PINAL COUNTY SUBSCRIBED FOR THE SERVICE, ALTHOUGH IT IS DOUBTFUL AS TO HOW LONG HE WILL KEEP USING IT. HE SAYS THAT IT IS NOT OF MUCH USE TO HIM FOR COMPARISON PURPOSES AS THERE ARE ONLY 4 OR 5 DAIRYMAN HAVING THEIR FIGURES PROCESSED EACH MONTH.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE

PARTNERS IN PROGRESS . . . PINAL COUNTY COTTON GROWERS

COTTON VARIETY TESTS - SS

HANNA FARMS - FIVE VARIETIES WERE PLANTED:

	<u>SEED COTTON</u>	
ST. 213	2930	.9 ACRES
DELTAPINE SL	2280	.9 ACRES
STRAIN A	2300	.9 ACRES
HOPACAL	2320	.9 ACRES
SJ-1	2170	.9 ACRES

THE DELTAPINE SL PLOT WAS A SKIPPY STAND BECAUSE OF PLANTER TROUBLE AT PLANTING. THERE WERE MANY GREEN BOLLS REMAINING ON ALL VARIETIES EXCEPT ST. 213. SJ-1 WAS EXTREMELY GROWTHY. THE PICKER WAS ABLE TO HARVEST THE SJ-1 ONLY IN ONE DIRECTION BECAUSE OF LODGING OF THE PLANT.

THE RESULTS OF THE TEST ARE FROM ONE PICKING ONLY. THE TEST WAS PLANTED APRIL 4. NO PINK BOLLWORM PROBLEMS WERE ENCOUNTERED.

MCCARTNEY FARM:

<u>VARIETY</u>	<u>YIELD</u>
HOPACAL	1.7 BALES/ACRE
STRAIN A	1.6 BALES/ACRE
SJ-1	1.5 BALES/ACRE
DELTAPINE SL	1.4 BALES/ACRE

VARIETIES WERE PLANTED ON APRIL 10 AND HARVESTED ON NOVEMBER 16. THIRTEEN APPLICATIONS OF INSECTICIDES WERE APPLIED. THE RESULTS ABOVE ARE FIRST PICKING ONLY. ALL VARIETIES HAD MANY GREEN BOLLS REMAINING ON THE PLANT.

"PEST-O-GRAM" NEWSLETTER CLOSELY READ BY PINAL COTTON GROWERS AND CHEMICAL FIELDMEN - SS

A NEWSLETTER ENTITLED "PEST-O-GRAM" WAS MAILED TO COTTON GROWERS DURING THE COTTON GROWING SEASON OF 1967. THE NEWSLETTER WAS DESIGNED BY AGENT STEDMAN TO COVER ALL PESTS - SUCH AS WEEDS, DISEASES AND INSECTS - WHICH ATTACK ALL CROPS IN PINAL COUNTY. THE NEWSLETTER WAS MAILED WEEKLY TO GROWERS AND CHEMICAL FIELDMEN. THE "PEST-O-GRAM" GAVE PINK BOLLWORM MOTH EMERGENCE COUNTS GIVEN BY USDA FROM SEX LURE TRAPS. GROWERS RECEIVED INFORMATION ON AREAS WHERE PINK BOLLWORMS WERE SHOWING UP EARLY IN THE SEASON.

WEEKLY BUILDUPS OF ALL COTTON INSECTS WERE REPORTED AS WELL AS CHEMICALS WHICH WERE DOING A SATISFACTORY JOB OF CONTROLLING THE INSECTS. MANY GROWERS AND FIELDMEN HAVE COMMENTED THAT THEY APPRECIATED THE NEWSLETTER AND FELT THAT IT ASSISTED THEM IN MANY OF THEIR INSECT CONTROL DECISIONS AS WELL AS WEED CONTROL.

NINE SEPARATE "PEST-O-GRAMS" WERE MAILED - A TOTAL OF 2,700 COPIES RECEIVED BY GROWERS DURING THE 1967 GROWING SEASON.

CALIFORNIA-ARIZONA COTTON MAGAZINE - SS

A MAGAZINE COVERING ALL COTTON GROWING AREAS OF CALIFORNIA AND ARIZONA PUBLISHED "PEST-O-GRAM" NEWSLETTERS. CASA GRANDE DISPATCH AND ELOY ENTERPRISE, COUNTY NEWSPAPERS, PUBLISHED "PEST-O'GRAMS" TOO.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

PINAL COUNTY COTTON GROWERS HEAR PINK BOLLWORM STORY - SS

SOME 60 PEOPLE, APPROXIMATELY 20 WERE COTTON GROWERS, WERE PRESENT AT THE COOLIDGE ROTARY CLUB TO VIEW A 14 MINUTE MOVIE ON THE LIFE CYCLE OF THE PINK BOLLWORM. DR. RONEY AND AGENT STEDMAN WERE ON HAND TO ANSWER QUESTIONS. DR. RONEY STATE EXTENSION ENTOMOLOGIST, PRESENTED AN HOUR LECTURE ON SOME OF THE PROBLEMS OF CULTURAL AND CHEMICAL CONTROL OF THE PINK BOLLWORM.

SOME GROWERS ATTENDED FROM AREAS WHERE BOLLWORMS WERE NOT PRESENT - THEY WERE NOT ACQUAINTED WITH THE PINK BOLLWORM. THE MOVIE SHOWED EXCELLENT CLOSEUPS OF PINK BOLLWORM LARVAE AND ALSO THE FEEDING HABITS OF THE PINKIES. THE MEETING WAS HELD IN JANUARY 1967, WHICH GAVE GROWERS A CHANCE TO GET READY FOR PINKIES IN 1967.

SEVENTY PINAL COTTON GROWERS ATTEND PINK BOLLWORM WORKSHOP - SS

IN JUNE OF 1967 GROWERS WERE CONFUSED AS TO WHAT INFESTATION LEVELS OF WORM COUNTS WERE NECESSARY TO BEGIN A CONTROL PROGRAM FOR PINK BOLLWORMS. MANY WERE NOT AWARE OF THE DAMAGE CAUSED BY THE WORMS OR HOW COUNTS WERE MADE IN A FIELD.

A FIELD WAS SELECTED NEAR COOLIDGE WHERE PINK BOLLWORMS WERE PRESENT. DR. JAMES RONEY CONDUCTED THE WORKSHOP. HE AND AGENT STEDMAN EXPLAINED THE LIFE CYCLE AND HABITS OF THE PINK BOLLWORMS.

GROWERS WERE SHOWN HOW TO MAKE ROSETTED BLOOM COUNTS AND ALSO HOW TO CHECK COTTON BOLLS FOR SMALL PINK BOLLWORM LARVAE. THE WORKSHOP LASTED FOR 2½ HRS. DR. RONEY DISCUSSED CHEMICAL CONTROL AND VARIOUS COMBINATIONS THAT COULD BE USED FOR PINK BOLLWORM CONTROL.

COTTON INSECT CONSULTING PROVES VALUABLE - SS

INDIVIDUAL GROWERS REQUESTED THAT DR. RONEY AND AGENT STEDMAN CONSULT WITH THEM AND THEIR EMPLOYEES ON PINK BOLLWORM. ON LARGER FARMS WHERE FOREMEN WERE INVOLVED DR. RONEY AND AGENT STEDMAN DISCUSSED IN DETAIL PINK BOLLWORM PROBLEMS. THE INFORMAL MEETINGS INVOLVED SMALL GROUPS AND MANY QUESTIONS WERE ASKED AND ANSWERED.

PINAL COUNTY COTTON GROWERS CLEANUP DEBRIS - SS

TWO NEWSLETTERS WERE MAILED TO GROWERS IN JANUARY OF 1967 TO URGE THEM TO CLEANUP THEIR COTTON FIELDS AS WELL AS COTTON ALONG ROADSIDES SURROUNDING THEIR FARMS. IT WAS ESTABLISHED THAT PINK BOLLWORMS COULD BE FOUND IN ROADSIDE SEED COTTON AND THAT BY DESTROYING THIS COTTON BY BURNING, GROWERS COULD POSSIBLY ELIMINATE THE THREAT OF A BAD PINK BOLLWORM INFESTATION ON THEIR FARMS.

MANY GROWERS BURNED THE COTTON ALONG ROADSIDES AS WELL AS IN THE TURN ROWS ON THEIR FARMS, TRYING TO ELIMINATE THE CHANCE OF OVERWINTER PINK BOLLWORM LARVAE.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

ULTRA LOW VOLUME PRACTICE OF APPLYING INSECTICIDE WELL ACCEPTED BY PINAL COTTON GROWERS - SS

IN 1965 THE FIRST APPLICATION OF LOW VOLUME MALATHION 16 OZ. MATERIAL WAS APPLIED TO COTTON FOR INSECT CONTROL. REASONS FOR THIS APPLICATION WAS TO TEST THE CONTROL OBTAINED. EXCELLENT CONTROL WAS OBTAINED. COST OF APPLICATION WAS REDUCED FROM \$1.25-1.40 AN ACRE TO 90 CENTS AN ACRE. THE ULTRA LOW VOLUME METHOD OF APPLICATION CAN PRESENT PROBLEMS IF NOT USED AT THE PROPER TIME. MALATHION, BEING THE ONLY CHEMICAL REGISTERED FOR ULTRA LOW VOLUME SPRAYING, CAN DESTROY PREDATORS AND CAUSE CORN EAR WORM BUILDUP. A PROPER CUTOFF TIME, USUALLY BEFORE JUNE 15, SHOULD BE USED.

THIS METHOD OF APPLICATION HAS PROVED VERY SUCCESSFUL FOR THE CONTROL OF EARLY SEASON INSECTS INCLUDING LYGUS BUG. IN 1966 AND 1967 APPROXIMATELY 50% OF GROWERS USED LOW VOLUME MALATHION ON COTTON OR ALFALFA.

CORN EAR WORM VIRUS - SS

A DEMONSTRATION USING A NEW VIRUS FOR THE CONTROL OF THE COMMON BOLLWORM WAS DONE DURING 1967. THE VIRUS WAS APPLIED BY AIR TO A 20-ACRE FIELD. FOUR APPLICATIONS OF THE VIRUS WERE COMPARED TO AN ADJACENT FIELD WHICH WAS SPRAYED WITH METHYL PARATHION 1LB. AND DDT 3 LBS.

THE VIRUS DID NOT CONTROL THE BOLLWORMS. SOME SMALL WORMS WERE FOUND DEAD IN THE VIRUS PLOT; THE PARATHION-DDT FIELD WAS CLEAN OF BOLLWORMS.

THE VIRUS PLOT SUFFERED DAMAGE FROM SALT MARSH CATERPILLAR AND LOOPERS, AND HAD TO BE SPRAYED WITH PARATHION-DDT. THE VIRUS WAS DISCONTINUED AFTER SIX APPLICATIONS BECAUSE IT WAS TOO SLOW AND NOT EFFECTIVE AS THE PARATHION-DDT.

PINAL COTTON GROWERS SEE NEW WILT-HARVEST DEFOLIANT - SS

PINAL COTTON GROWERS ARE ALWAYS ON THE LOOKOUT FOR A NEW DEFOLIANT. MANY PROBLEMS HAVE DEVELOPED WITH OLD STANDBY DEFOLIANTS. PLANT MATURITY, HIGH NITROGEN LEVEL IN PLANTS HAVE ALL CAUSED PROBLEMS WITH DEFOLIANTS.

A NEW WILT-HARVEST CHEMICAL WAS INTRODUCED INTO THE RIO GRANDE VALLEY OF TEXAS. A NEW DEFOLIANT-DESSICANT IS MANUFACTURED BY ESSO COMPANY OF NEW JERSEY.

TWO DEMONSTRATIONS WERE SET UP - ONE IN ELOY, THE OTHER IN COOLIDGE. THE NEW MATERIAL CALLED "WILTZ 65" CAN BE APPLIED TO COTTON AND THE COTTON CAN BE HARVESTED WITHIN HOURS AFTER APPLICATION. THE WILTZ MATERIAL CAUSES SEVERE DEHYDRATION OF THE LEAVES, THUS CAUSING A REMOVAL OF THE CHLOROPHYLL IN THE LEAF. THE NEW MATERIAL FAILED TO DO THE JOB OF DEFOLIATING COTTON. IT FAILED TO COMPARE WITH STANDARD DEFOLIANTS WE ARE NOW USING.

ONE PROBLEM WAS GETTING SUFFICIENT COVERAGE ON THE LEAF, ANOTHER PROBLEM WAS THE TOPS OF THE PLANTS WOULD HAVE SEVERE LEAF BURN AND THE LEAF WOULD DRY TOO RAPIDLY WHILE THE LOWER LEAFS REMAINED LUSH AND GREEN. THIS SITUATION REMOVED THE POSSIBILITY OF HARVESTING THE COTTON A FEW HOURS AFTER APPLICATION OF THE MATERIAL, THUS MAKING IT NO BETTER THAN MANY OF THE DEFOLIANTS ALREADY BEING USED.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

THREE HERBICIDES DEMONSTRATED - SS

THREE HERBICIDES, ALL PRE-EMERGENCE GRASS KILLER, WERE APPLIED ON PLOTS ON TWO FARMS - ONE IN ELOY, THE OTHER AT COOLIDGE.

APPLICATION OF THE HERBICIDES WERE APPLIED, THEN DISKED, AND BEDDED UP. THE MATERIALS - TREFLAN, PREFAR AND PLANIVAN WERE USED. THE RESULTS ARE NOT COMPLETE BECAUSE OF A LARGE AMOUNT OF ESTABLISHED JOHNSON GRASS WHICH MADE IT DIFFICULT TO EVALUATE THE MATERIALS.

ON OTHER FARM APPLICATION THESE MATERIALS ALL PERFORMED WELL WHEN PROPERLY APPLIED.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

PARTNERS IN PROGRESS . . . PINAL COUNTY FIELD CROPS GROWERS

GRAIN SORGHUM - TND/ACRE - JWJ

A THRUWAY VENTURE AMONG THE FEEDERS GRAIN CO., COOLIDGE VO-AG DEPT. AND THE PINAL COUNTY EXTENSION OFFICE WAS STARTED IN JUNE 1967. THREE COMMON VARIETIES OF GRAIN SORGHUM WERE PLANTED, AFTER BARLEY, TO OBSERVE YIELDS IN THE USUAL MANNER. AFTER HARVEST, SAMPLES WERE DRAWN FOR TDN ANALYSIS. THESE ANALYSES ARE YET TO BE COMPLETED.

GRAIN SORGHUM - "H-57" A NEW VENTURE - JWJ

FOLLOWING 1966 DEMONSTRATION PLANTINGS, THE LEFT OVER VARIETY SAMPLES WERE BULKED TOGETHER BY MATURITY DATE AND PLANTED. THE MIDSEASON MIXES OUTYIELDED EVEN THE FULL SEASON VARIETIES. IN 1967 OBSERVATION PLOTS WERE PLANTED ON TWO CASA GRANDE AREA FARMS. RESULTS WERE OBTAINED FROM ONE PLANTING. THE "H-57" MIX YIELD EXCEEDED THE AVERAGE YIELD OF THE VARIETIES PLANTED SEPARATELY BUT FELL SHORT OF THE HIGHEST INDIVIDUAL YIELD. OF INTEREST WAS A 4 VARIETY MIX MARKETED UNDER A TRADE NAME. TWO SEED COMPANIES MARKETED MIXES OF HYBRID GRAINS.

WHEAT - NEW VARIETIES BOOST YIELDS - JWJ

ON THE COOLIDGE F.F.A. CHAPTER FARM AND A GILA RIVER BOTTOM FARM WERE WHEAT VARIETY PLOTS. MARICOPA WAS THE TOP YIELD AT 6,000 LBS. FROM 5,500 TO 5,700 LBS. PER ACRE WERE SONORA 64 AND NAINRI. THE WHEAT WAS SAVED FOR SEED PURPOSES. SOME OF IT WAS DISTRIBUTED TO FARMERS THE CHAPTER OWED "FAVORS".

SAFFLOWER - PINAL YIELDS BUCK TRENDS - JWJ

12,289, A HIGH YIELDING VARIETY IN YUMA COUNTY WAS A MISERABLE THIRD PLACE PERFORMER IN THREE PINAL COUNTY PLANTINGS. THE YIELD WAS ABOUT 3/4 THAT OF GILA. SAMPLES SUBMITTED FOR OIL PERCENTAGE ANALYSIS HAVE NOT BEEN HEARD FROM.

SOYBEANS COME CLOSE - JWJ

FOUR PLANTINGS OF SOYBEANS WERE OBSERVED DURING THE 1967 SEASON. HARVEST LOSSES FROM THE VARIETY KINO WERE DISAPPOINTING. NEARLY 1/4 OF THE BEANS WERE BELOW THE CUTTER BAR HEIGHT. THE MASSEY-FERGUSON CO. ASSURES US THAT TWO ACCESSORIES ARE AVAILABLE THAT WILL REMOVE THIS PROBLEM. ONE PLANTING OF LEE WAS DAMAGED SEVERELY BY STINK BUGS, YET YIELDED 1,900 LBS. AN APRIL PLANTING OF LEE BEANS YIELDED A SCANT 3/4 TON. THE PLANTS BUDDED IN JUNE AND ABORTED. A MANY VARIETY PLANTING SOUTH OF ELOY WAS NOT HARVESTED. LEE, THE APPARENT TOP, WAS ESTIMATED TO YIELD FROM 1,200-1,500 LBS. PER ACRE.

ALFALFA VARIETY COMPARISON - FVW

IN THE FALL OF 1966 AGENT LITTLE ESTABLISHED AN ALFALFA VARIETY COMPARISON DEMONSTRATION ON THE M. O. PATE FARM WITH THE HELP OF SEVERAL SEED COMPANIES. THE COMPANIES WILL BE INDICATED LATER. THE VARIETIES WERE PASTURED TWICE DURING THE WINTER MONTHS OF '66-67 BUT NO YIELD INFORMATION WAS OBTAINED. BEGINNING IN APRIL OF THIS YEAR YIELD DATA WAS COLLECTED AT EACH HARVEST. SAMPLES OF EACH VARIETY WAS SUBMITTED THROUGH AL LANE FOR CHEMICAL FEED ANALYSIS.

III. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

ALFALFA VARIETY COMPARISON (CONTINUED)

WHEN THIS DATA IS ALL PUT TOGETHER IT IS HOPED TO BE POSSIBLE TO GIVE A GROWER AND FEEDER AN IDEA ON HOW MUCH FEED VALUE HE CAN PRODUCE IN ONE TON OF HAY.

THESE VARIETIES WILL BE WATCHED FOR AT LEAST TWO SEASONS. THE FOLLOWING IS THE YIELD DATA AT EACH HARVEST TIME IN POUNDS OF DRY MATTER PER ACRE:

VARIETY AND SEED Co.	DATE OF HARVEST						TOTAL
	:4/19/67	:6/8/67	:7/18/67	:8/28/67	:10/14/67	:12/1/67	
N77 NIAGARA (FMC)	: 2039	: 3828	: 5253	: 3255	: 2500	: 1210	: 18,085
N70 NIAGARA	: 2691	: 5118	: 6026	: 2632	: 2440	: 1450	: 20,357
WL501 WATERMAN-LOOMIS	: 3182	: 4110	: 6073	: 2185	: 2540	: 1654	: 19,744
CX54-EL CAMINO WATERMAN-LOOMIS	: 2169	: 3794	: 5326	: 2139	: 2630	: 2232	: 18,290
CALIENTE ADVANCE SEED	: 3948	: 5237	: 5461	: 2510	: 3160	: 1866	: 22,182
JOAQUIN SECURITY SEED	: 3614	: 4906	: 4937	: 3577	: 3100	: 2004	: 22,138
819 NORTHRUP-KING	: 3316	: 5491	: 4471	: 2138	: 2100	: 1816	: 19,332

ALFALFA WEED DEMONSTRATION - FVW

A DETAIL ANNUAL WEED CONTROL TRIAL IN ALFALFA WAS STARTED BY MR. DAN RAGSDALE, GEIGY CHEMICAL COMPANY, IN ONE OF BUSTER BROWN'S FIELDS. THE MATERIAL BEING USED IS GS-14254 (80W). IT WAS APPLIED AT 1,2,& 4# PER ACRE RATE. THERE WILL ALSO BE ANNUAL, SEMI-ANNUAL AND QUARTERLY APPLICATIONS - ALL ARE REPEATED THREE TIMES.

THE ALFALFA WILL BE OBSERVED FOR WEED CONTROL AND DIFFERENCES IN YIELD. THE MAIN INTEREST HERE IS IN CONTROLLING THE SUMMER ANNUAL WEEDS. THESE ARE THE ONES THAT CAN GIVE OUR GROWERS SOME PROBLEMS. THE WINTERS ARE NOT TOO MUCH OF A PROBLEM DUE TO THE USE OF THE HAY FIELDS FOR SHEEP PASTURE.

SORGHUM WEEDS YIELD TO COMBINATION HERBICIDES - JWJ

SEPTEMBER READINGS OF 30 PLOTS SHOWED GOOD CONTROL OF WEEDS USING .5# ATRAZINE AND 3 LBS. RAMROD. GEIGY NUMBERED MATERIALS DID EQUALLY WELL. BEST NEWS WAS GOOD STANDS OF VOLUNTEER BARLEY, SEPT. 11, 1967, IN THESE PLOTS. ATRAZINE AT 2 LBS. WAS STILL KILLING ALL BARLEY AND WEEDS. THE HERBICIDES WERE APPLIED 6-20-67.

III. AGRICULTUREL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

PARTNERS IN PROGRESS . . . PINAL COUNTY LIVESTOCK PRODUCERS AND FEEDERS

RANGE RESEEDING - FVW & JWJ

LEHMANS LOVEGRASS SEED WAS BROADCAST BY AIR ON FALLOW FARM LAND IN THE HIDDEN VALLEY AREA BY FRED ENKE. THIS SEED WAS SCATTERED IN MID-SPRING OF 1966 AT A RATE CONSIDERABLY BELOW THE PRESENT RANGE RESEEDING RATE. THIS WAS A PURELY TRIAL VENTURE BECAUSE THIS AREA PROBABLY DOESN'T RECEIVE OVER EIGHT INCHES OF ANNUAL MOISTURE. THIS SEEDING WAS TOWARD THE END OF AN ABOVE NORMAL WINTER MOISTURE PERIOD.

IN LOOKING THIS AREA OVER ROUGHLY A YEAR AND A HALF LATER IT IS AMAZING AT THE ESTABLISHMENT THIS GRASS HAS MADE. IT IS HEAVY ENOUGH THAT THE SUGGESTION WAS MADE TO MR. ENKE TO LET THE GRASS SPREAD NATURALLY.

THE EVENTUAL GOAL OF THIS FARMER IS TO PRODUCE ENOUGH FORAGE TO BOTH HOLD THE SOIL IN PLACE AND TO PROVIDE LIVESTOCK GRAZING.

LEHMAN LOVEGRASS WAS PLANTED AT A USUAL RATE OF 2-3 LBS. PER ACRE. SEED SIZE IS SMALL AND LIGHTER RATES HAVE BEEN DIFFICULT TO ACHIEVE. BY GLUING 3 OR 4 LOVEGRASS SEED TO A BARLEY GRAIN IT HAS BEEN POSSIBLE TO REDUCE PLANTING RATES TO 1/10 LB. PER ACRE AND REDUCING SEED COSTS FROM \$3-6 PER ACRE TO 10 TO 30 CENTS PER ACRE. DRIED MILK WAS USED AS AN ADHESIVE AND PRECISION DRILL PLANTERS SET TO DELIVER 3 BARLEY SEED PER FOOT.

RANGE FERTILIZER DEMONSTRATION - FVW

A RANGE FERTILIZATION RESEEDING DEMONSTRATION WAS SET UP ON AUGUST 1 BY MR. GRAY, GILA COUNTY AGENT AND MR. BEN FERMAN, ARIZONA AGRO-CHEM AND MR. GRIFFIN, RANCHER. IT CONSISTED OF THREE 1-ACRE PLOTS WITH HALF EACH BEING ROOT AND PLOWED. THE FERTILIZERS USED WERE NITROGEN (UREA), PHOSPHATE AND POTASH. THEY WERE PUT IN A CHECKERBOARD STYLE SO THAT THE RATES AND COMBINATIONS WOULD BE VARIED. WEEPING LOVEGRASS WAS BROADCAST ON, AND THE PLOTS WERE FENCED.

THE PLOTS WERE EVALUATED VISUALLY IN THE LATE FALL. ONLY ONE OF THE PLOTS RECEIVED ENOUGH MOISTURE TO SHOW ANY RESULTS. THIS WAS ONLY ON THE RESEEDED PART OF IT. HERE THERE WAS A HEAVY STAND OF LOVEGRASS GROWING. THE RESEEDED PART LOOKS REAL GOOD TO THE RANCHER.

RANGE BRUSH CONTROL - FVW

THE RANGE BRUSH CONTROL DEMONSTRATION ON THE 3-C RANCH NEAR ORACLE WAS EVALUATED WITH THE ASSISTANCE OF BARRY FREEMAN, EXTENSION WATERSHED MANAGEMENT SPECIALIST. THIS DEMONSTRATION WAS STARTED IN THE SPRING OF 1966. THE MATERIALS USED WERE FURNISHED BY THE DOW CHEMICAL COMPANY. IT WAS A MIXTURE OF TORDON-2,4,D AND TORDON-2,4,5,T. THE PRINCIPAL PLANTS IT WAS BEING USED ON WERE THE WAIT-A-MINUTE BUSH, WHITE THORN, CAT CLAW, OAK AND MESQUITE. ALL OF THESE PLANTS CAUSE MANAGEMENT PROBLEMS AND REDUCE GOOD FORAGE PRODUCTION WHEN THEY OCCUR IN ABUNDANCE. THE WAIT-A-MINUTE BUSH IS POSSIBLY THE WORST OFFENDER OF THE GROUP. IT GROWS IN DENSE STAND AND IS NEXT TO IMPOSSIBLE TO WORK IN BECAUSE OF ITS ARMAMENT. IT IS A PLANT THAT IS ALSO HARD TO CONTROL WITH THE MATERIALS THAT HAVE BEEN EFFECTIVE ON MESQUITE.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

RANGE BRUSH CONTROL (CONTINUED)

ONE GOAL OF THIS DEMONSTRATION WAS TO FIND A MATERIAL THAT WOULD GIVE GOOD ALL AROUND RESULTS. AN EVALUATION LIKE THIS WILL TAKE TIME. SO FAR THE RESULTS HAVE BEEN VERY ENCOURAGING. IN GENERAL THESE MATERIALS APPEARED TO BE ABOUT 50% EFFECTIVE ON THE WAIT-A-MINUTE BUSH - EQUAL TO REGULAR 2,4,5,T TREATMENT ON MESQUITE AND SOMEWHERE IN-BETWEEN FOR THE OTHER PLANTS.

THESE PLOTS WILL BE WATCHED FOR SOME TIME FOR IDEAS ON HOW LONG THIS MATERIAL WILL HOLD THESE PLANTS DOWN.

DUE TO THE DRY WINTER AND SPRING THE RANCHERS HELD OFF DOING ANYTHING ABOUT BRUSH CONTROL ALTHOUGH THEY ARE STILL INTERESTED.

ANIMAL HEALTH - BRUCELLOSIS TESTING - FVW

THE ANIMAL DISEASE ERADICATION OFFICIALS HAVE STARTED TESTING THE COUNTY CATTLE FOR BRUCELLOSIS. THIS WILL BE FOR A CERTIFIED STATUS.

THE TEST PERIOD BEGAN JUNE 1, 1967, AND WILL HAVE TO BE DONE WITHIN 18 MONTHS. SO FAR COOPERATION FROM THE STOCKMEN HAS BEEN GOOD. THE STOCKMEN ARE BEING CONTACTED TO FIND OUT THEIR ROUNDUP DATES SO THAT THE TESTING CAN BE DONE THEN AND KEEP THE EXTRA WORK TO A MINIMUM.

CATTLEMEN ARE ALSO USING THE MARKET TEST PROGRAM REAL WELL. THERE IS STRONG POSSIBILITIES THAT SOME RANCHES WILL MORE THAN MEET THE REQUIREMENTS THIS WAY.

111. AGRICULTURAL PRODUCTION, MANAGEMENT AND NATURAL RESOURCE USE (CONTINUED)

PARTNERS IN PROGRESS . . . THROUGH SPECIAL EMPHASIS PROJECTS AND PROGRAMS

PLASTIC SOLVES GRAIN STORAGE PROBLEMS - JW

\$80 WORTH OF 4 AND 6 MIL BLACK PLASTIC AND AN OLD EVAPORATIVE COOLER FAN MADE AN ECONOMICAL GRAIN STORAGE UNIT. THE COOLER WAS USED TO "SUCK DOWN" THE COVER SHEET AND HOLD IT AGAINST BOTH RAIN AND WIND STORM. TOTAL COSTS WERE UNDER \$1 PER TON FOR STORAGE. THE INITIAL UNIT WAS PUT INTO OPERATION IN THE QUEEN CREEK AREA. THE IDEA WAS LIFTED FROM THE UNIVERSITY OF ILLINOIS STUDIES AND ADAPTED FOR LOCAL CONSUMPTION. PERMANENT STORAGE FACILITY OF EQUAL SIZE WOULD HAVE COST \$11,000.

NEW APPLICATION FOR SURFACTANTS - JW

IN THE ELOY, COOLIDGE AND CASA GRANDE AREAS AN ALKYL POLYOXYETHYLENE ETHANOL WAS APPLIED TO PROBLEM SOILS. PETIOLE ANALYSIS SHOWED 800 PPM. UNTREATED AND 1200 PPM. TREATED IN COTTON. THE ADDITION OF SULFUR INCREASED N TO 1600 PPM. YIELDS WERE UNOBTAINABLE. ALFALFA YIELDS WERE INCREASED THREEFOLD.

ARIZONA YOUTH CONSERVATION CAMP - FVW

THE DUTIES OF COORDINATING THE APPLICATIONS AND SUCH FROM THE APPLICANTS INTERESTED IN THE ARIZONA YOUTH CONSERVATION CAMP WAS ASSIGNED TO AGENT WILSON.

THIS YEAR TWELVE BOYS' APPLICATIONS WERE SUBMITTED TO WAYNE KESSLER'S OFFICE TO ATTEND THE CAMP.

THE BREAKDOWN OF THE APPLICANTS BY COMMUNITIES IS AS FOLLOWS: THREE FROM CASA GRANDE AND STANFIELD; THREE FROM COOLIDGE; THREE FROM FLORENCE; TWO FROM ELOY AND ONE FROM APACHE JUNCTION. THE SOIL CONSERVATION DISTRICT IS SERVING THE VARIOUS COMMUNITIES EXCEPT APACHE JUNCTION AND ARE SPONSORING THESE BOYS ALONG WITH THE FUTURE FARMERS OF AMERICAN CHAPTERS IN SOME CASES.

HAVING NO COUNTY QUOTA MADE DETERMINING HOW TO COORDINATE THE APPLICANTS SOMEWHAT DIFFICULT. THIS YEAR FORTUNATELY THERE WASN'T AN OVER ABUNDANCE OF APPLICATIONS SO IT COULD BE WORKED OUT.

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

Partners inProgress . . . PINAL COUNTY HOMEMAKERS CLUB MEMBERS

ORGANIZATION

Homemakers Clubs Face Need For Expansion

At the start of 1967 there were nine Homemakers Clubs in Pinal County with a membership of approximately 180.

Three of these clubs are located in the central (agricultural) section of the county, in Florence, Casa Grande and Coolidge.

Three are in the eastern (primarily mining) communities of Superior, Kearny and Mammoth.

The other three are on the Gila River Indian Reservation - between Coolidge and Maricopa.

The Superior, Coolidge and Casa Grande Clubs are long established ones having been in existence for twenty five or more years. The Florence club was organized in 1958, the Kearny club organized in 1961, the Mammoth group though in existence earlier reorganized also in 1961 under a new name. The Indian clubs were organized in 1964 and 65.

The Homemakers council which coordinates the activities of these clubs was challenged this spring to see if they could increase the club membership. The communities of Eloy, Oracle, Casa Grande, Maricopa and Apache Junction were pinpointed as areas for potential expansion based on the size of their population.

A five member expansion committee was set up to study the possibilities for expansion.

The committee elected to try to organize clubs in three of the proposed communities where there had already been indications of interest, to survey the conditions of existing clubs to see what these clubs might do to increase their present membership, and to set up a booth at the county fair to explain Homemakers Clubs to the general public.

An initial meeting to explain Homemakers Clubs and the Extension education program was held in Oracle on the third of May. A club was organized there on May 25th under the sponsorship of the Galuiro Gals of Mammoth. Five meetings were held with this new group. In the meantime the workers in the copper mines in the area went out on strike. Many families moved away. Thirty-three people had indicated interest. By December there was no longer enough interest in the new club for it to continue.

An initial meeting similar to that held in Oracle was held in Eloy in July. A club was organized there on the 23rd of August. This new group has a membership of 17 and has been meeting regularly ever since.

V. FAMILY LIVING (continued)

Homemakers Clubs Need For Expansion (continued)

An initial meeting of the same sort was held in Apache Junction on the 8th of August. A club was organized there on August 22nd. This group too has been meeting regularly ever since. The membership at the time of this writing is not definitely known.

Although Florence was not one of the communities pinpointed for the expansion program a new club was organized there also in August. This new group came about through the joint efforts of the chairman of the Expansion Committee and the Vista worker in the Florence area. The club is small and all of the members work full time so it hasn't been possible for them to attend leader training meetings and present their own programs. Whether the older Florence club will be able to continue supplying programs for the new group, or whether some other leadership may be found remains to be seen.

The second activity of the Expansion Committee - that of the evaluation study of existing clubs and their programs - has been recorded elsewhere in this report. The survey questionnaires were tabulated by council representatives from each of the clubs and the club totals reported back to the membership along with suggestions for changes for 1968.

The third activity of the committee - that of setting up the booth at the county fair - resulted in six potential new members for the Casa Grande Club, six also in Coolidge and one in Eloy. The booth was manned by members of the Mammoth, Coolidge, Florence and Casa Grande clubs for nine hours a day during the five days of the fair. On display in the booth were examples and leaflets for Clothing renovation and repair, and explanation of the four food groups and their role in good nutrition, some samples of homemade toys for children. 100 copies of Home Economics Extension in Arizona were given out to visitors.

The results of the expansion program has been to increase - temporarily at least - from nine clubs to thirteen, and to expand membership from 180 to 253. It is intended that the expansion program continue for a period of three years.

V. FAMILY LIVING (continued)

Partners in Progress . . . PINAL COUNTY HOMEMAKERS CLUB MEMBERS

LEADERSHIP TRAINING

Homemakers Receive Training in The Democratic Process

The Homemakers council annually sponsors a training school for club officers. This is always held in January, as early as possible in the new club year.

The training pattern varies from year to year but usually offers more than the name implies.

This past year the training took the form of discussion sessions. The duties of all officers were discussed, as well as the relative importance of each office to the proper functioning of the club, the reasons why some officers fail to perform their duties and what the club might do if this happens..

The participants took turns serving as discussion leaders and the suggestions were summarized from time to time throughout the training session by the Extension Home Economists.

The purpose of this type of training is to help women learn the process thru which a group - any group - achieves its objectives. The principles of the democratic process apply not only to the Homemakers clubs but to all segments of society. It is assumed that women trained and experienced in working with groups are better able to assume their responsibilities to society in general.

Leader Training Multiplies The County Home Economists Efforts

34 persons served as project leaders for the Homemakers club programs this year. Each of these persons took a day of training in the project area in which she served.

The information she received in this training she passed on to members of her Homemakers club - in some instances to others as well, as will be seen from some of the stories which follow of the educational programs of the Homemakers clubs.

Each leader taught an average of eight other persons thus multiplying by that amount the efforts of the County Home Economist who prepared the lessons.

V. FAMILY LIVING (continued)

HOMEMAKERS CLUB EDUCATIONAL PROGRAM

Club and Community	Membership Enrollment	Participants in the Program										
		Wise Use of Credit **	Altering, Mending, Making Over Men's Pants **	Mending, Making Over Men's Shirts. **	Understanding The Teen Years (physical development)*	Understanding Narcotics and their Effects	The Essential Four for Good Nutrition *	How and Whys of Cooking **	Salad Making	Yeast Breads	Making Petits!-fours	Cake Decorating
Ocotillo-Apache Junction	8				6		6	10				
Cotton Blossoms-Blackwater	22	6	6	6	7				6	6		
Casa Blanca-Casa Blanca	24	6	10	10	11			10	17	5		
Casa Grande Evening-Casa Grande	19	7			15	18		5				
Sun Valley-Coolidge	16	9	10	9	6			7				13
Eloy - Eloy	21				17			15	12			
Florence - Florence	6		8		6			10	5			
Tumbleweeds - Florence	17	12	18	18	17				18			
Kearny - Kearny	10	5	7		13			7				
Galviro Gals - Mammoth	18	8	10	13	11			8				
Oracle - Oracle	33				6			11	5			
Sacaton - Sacaton	21	6	6	6	6				6	6		
Superior - Superior	48	19	12	12	7			10			13	

* Taught by Extension Home Economist

** Taught by project leaders trained by Extension Home Economist

All others taught by club members or resource people in the community

NOTE: When participation exceeds club membership extra participants are visitors.

V. FAMILY LIVING (continued)

Homemakers Club Educational Program (continued)

Club and Community	Participants in the Program							
	Household Safety - Go Seek and Hide	Physical Fitness	Personal Beauty Care	Household Crafts	Flower Arranging	A New Method Of Drying Flowers	Desert Landscaping	Managing Time for Easier Housekeeping **
Ocotillo - Apache Junction								8
Cotton Blossoms - Blackwater								6
Casa Blanca - Casa Blanca								10
Casa Grande Evening-Casa Grande	15				8			
Sun Valley - Coolidge				12				9
Eloy - Eloy								15
Florence - Florence								
Tumbleweeds - Florence	14	16						15
Kearny - Kearny								
Galuiro Gals - Mammoth	9			11				9
Oracle - Oracle	9							
Sacaton - Sacaton								6
Superior - Superior				15		14	13	6

V. FAMILY LIVING (continued)

Homemakers Clubs Come First

"If I could belong to only one club - this would be my choice" offers a Homemaker from Casa Grande, when asked for comments on her Extension Homemakers club. "I have kept abreast of times for many years through Extension work. Knowledge is hard to gain after leaving school and this club provides a great deal of knowledge on many subjects".

To better appreciate the scope of the topics included in the Homemakers clubs educational programs one has only to examine the chart on the preceding page. Six of the topics in the 1967 program offered by the Extension Service. The others were arranged locally, and varied with the particular interests in the different communities.

The narcotics study program in Casa Grande is an interesting example of the latter. Front page newspaper stories in the Casa Grande Dispatch last spring stunned the community with the news that many students in the local high school were using drugs. A shocked population wondered how this could happen. This is the sort of thing we read about happening to other people - it just doesn't happen to us! Yet the hard cold fact remained that it did. Thoughtful parents wondered what could be done about it. And the Homemakers club invited the city detective and a local doctor to meet with them to discuss it so that they might become better informed.

Though we have mentioned Casa Grande in particular the same feeling of appreciation for their Homemakers club is reflected in other parts of the county.

An Indian mother on the Pima reservation writes "Homemakers club has been a great help for me in my home, with my children".

From Florence, came these statements - "I've enjoyed Homemakers exceedingly and have since given up other clubs because I find this one most rewarding." "I love the informal relaxed attitude of the club and I learn something besides. It is the only group or club I would belong to."

Perhaps these sentiments can best be summed up by this letter to the County Extension Office from Claudia Anderson who left Pinal County this summer.

"It has been a pleasure to work with you through Homemakers and I have learned so very many valuable lessons. I'm not referring to only the material lessons such as "Sewing with the New Fabrics", "Creative Design" and "Cake Decorating" to name just a few. These have obvious rewards and have been such a great help. But, I mean also the Character building lessons that come from working with a great group of people. These are lessons that can only be gained through experience - working with group on a craft exhibit, making plans for Town and Country Conference, taping a radio show, having a potluck for a member you're losing - these are the things that I'll remember. It has all been such a rewarding experience.

I thank you for being such a help with the many questions and problems I have had Since I believe so whole-heartedly in the Extension Service as an educational program so vitaly needed, I look forward to being able to continue learning and serving in Santa Cruz County. - Sincerely, Claudia

V. FAMILY LIVING (continued)

A Guide Through The Confused World of Credit

"We will not use it unless necessary" comments one woman following a lesson on Wise Use of Credit. This statement was in response to a question on whether she had changed her attitude toward credit in any way as a result of the lesson. She added that she did feel an increased confidence in using credit and now saved up in advance for some things instead of using credit as much as she use to.

Other people had somewhat different reactions to the lesson. "We now make more use of credit than we used to" comments another. "Partly," she adds, "As I feel less confused about different forms of credit". An increased confidence which comes with better understanding was the main reaction reported by Homemakers.

"The magic formula for finding the actual cost of using credit was quite an eye opener" writes a Homemaker from Superior. "If more people were aware of this some businesses wouldn't be able to continue charging those high rates" she points out hopefully.

The "magic formula" she referred to was the method for figuring simple annual interest which helps reduce credit statements to a common denominator. 10 project leaders in the different Homemakers clubs were trained in this simple arithmetic so that they could in turn help Homemakers learn to make these mathematical calulations for themselves.

The Homemakers also attempted to learn the meanings of the different terms used in discussing credit - words such as credit charge and credit rate, installments, interest, principal and collateral.

They practiced reading credit contracts and figuring out exactly what these said, and many learned for the first time the many different kinds of credit available today.

These lessons were held in the spring and gave added interest to the reports from Congress on the discussions going on at that time on proposed truth-in-lending legislation.

Many parents expressed particular concern with the credit extended to young people. "If something could be taught on the high school level" comments one Homemaker in Superior "it would help the homemakers of tomorrow, and their parents today"

There does seem to be a definite need for more work along this line.

V. FAMILY LIVING (Continued)

Homemakers Learn to Mend and Renovate Men's Pants

They were a handsome pair of brown wool trousers with hand stitching down the sides. Too good to throw away but too full to be fashionable any more. They just stayed in the closet - admired but unused, till Ada Kent of Coolidge decided to do something about them.

She brought them with her to the training session in Coolidge at which time leaders were being trained to help homemakers learn to mend and renovate men's pants.

The selection of this topic for a lesson for the Homemakers clubs was brought about chiefly by the shift in fashion which resulted in the tapered leg in Men's trousers.

Good pants were hanging unused in the closets and appearing in large numbers in used clothing stores.

The lesson included learning to take out excess fullness, make waists fit, taper legs, make legs longer or shorter and replace zippers. It also covered mending - using the sewing machine patch. And in the instances where good wool was available, learning to wash and re-use the wool for other types of garments.

Mrs. Kent was one of 11 leaders trained to teach this phase of the clothing renovation program in the Homemakers clubs. The programs were held in the spring when homemakers everywhere were cleaning out their closets and getting ready for a new season.

It is hard to ever know the full extent of the use made of these lessons. Reports from some of the people with whom these leaders have worked have come in as follows:

- I made over 2 pairs of men's pants
- showed neighbor how to restyle the pants.
- plan to taper some men's pants soon...told several people about the lesson.
- I made 3 pairs ladies slacks into children's slacks...4 pairs play clothes (blouse and slacks) from adult clothes no longer worn.
- 2 pairs men's slacks renovated to wear now.
- I have used the new patch many times in mending play clothes...
I have used the altering information on my family's clothes and passed information on to the local cleaners.
- made several little girl's jumpers...have explained about the knee patch.
- renovated 2 pair of my husband's slacks...The girl next door to me was most interested. She has five children and her husband is out of work also (due to the copper strike). Presented the lesson at the church (ladies aid meetings)...quite a few of them have made boys suits - including my neighbor.

V. FAMILY LIVING (continued)

Homemakers Learn to Mend and Renovate Men's Pants (continued)

- made my husbands pants over, taking out the pleats. Fixed a pair of my neighbors pants - moving zipper and fixing seams
- I have fixed some of my boys pants by tapering them, have also fixed pockets
- altered 2 pair for a man who had lost (weight) from 180-120 pounds. At the time the work was being done some friends dropped in and they were very interested as one had high school boys. She later brought in garments for help.
- have altered 2 pair men's trousers.

As for Mrs. Kents' pants - "my husband now wears them all the time" she says.

New Uses For Old Shirts

Men's shirts, as well as trousers, have taken on a new look. The development of wash and wear fabrics and wash and wear finishes on cotton fabrics has meant that many otherwise servicable shirts have ended up in the used clothing stores or in storage boxes on closet shelves. This has been particularly true of long sleeve white shirts.

A program to rescue these discarded shirts was launched in April.

Again Homemaking leaders have been trained for the project - 13 of them from seven different communities.

They have learned to mend the shirts by turning worn collars or to cut up the shirts to be used for other types of garments. The variety of new uses that Homemakers have found for old shirts in Pinal county is impressive.

"I made some real cute blouses for my daughter from my husbands shirts."

"I have made dresses for my little girl, aprons and blouses for myself"

"Made pajama tops"

"I made night shirts and pop-over aprons for girls."

From Florence, Mrs. John Bugg reports - "in utilizing old shirts, our church group made many shorts for first and second graders. The school nurse said she could use them and also dresses. I enlarged the one year (size) pattern you gave us. The dresses were cut accordingly, or patterns improvised".

From Superior, comes this word - "I passed on the information, what to do with men's shirts, to our church group. The patterns and appliques I have used and also gave these to others."

In three communities Homemakers have said they worked with church groups supplying clothes for needy families in the area.

V. FAMILY LIVING (continued)

A Lesson On Managing Time For Easier Housekeeping Provides Homemakers With New Insight Into Where The Time Goes.

In the 1920's women averaged 51.7 hours per week at their homemaking activities.

Now, 40 years later, women (not employed outside the home) average 52.8 hours per week. This, with all new modern conveniences! These apparently are not all the time saving devices we've thought them to be.

This amazing fact, brought out in 2 Home Economics research studies was reported to Homemakers studying methods for simplifying housekeeping tasks.

That these new appliances have themselves brought on additional tasks (you never had to defrost an ice box), that children busy with school homework and other outside activities do not have the time to do the things children used to do around the house and that in many respects we've raised our standards - all these were brought out as possible reasons for the difference in time shown in the two reports.

True we no longer do our own milking, but we've added a lot of chauffeuring duties we never had before.

In order to plan for a better use of time club members were shown how to take a look at the ways in which they use it now.

Two methods were suggested for beating the clock. One method to study each task and then, if possible, eliminate part or all of it

- combine tasks
- rearrange equipment or method of work
- modify methods
- substitute steps or methods
- dove-tail activities.

The other method is to use a string chart, charting the movements involved in a given task and then seeing what can be rearranged to eliminate any unnecessary motions.

In their Homemakers club meetings members learned, through demonstrations, to apply both methods.

Parents Try To Recall Methods For Understanding Teens

A quotation from Socrates was used to launch a series of discussions about teenagers this fall. The quotation? Here it is -

"Children now love luxury, now have bad manners, contempt for authority, show disrespect for elders, and love to chatter in place of exercise. Children are now tyrants and not slaves of the household. They no longer rise when an elder enters the room, they contradict their parents, chatter before company, gobble up food at the table, cross their legs and tyrannize their teachers".

V. FAMILY LIVING (continued)

Parents Try To Recall Methods For Understanding Teens (continued)

Why use a quotation that was written over two thousand years ago? Well-many parents say they find this very reassuring. "I thought our young people today were worse than ever before" admitted one young mother of pre-teens, "Now I'm not quite so worried".

The discussions were the first of a series designed to help bridge the generation gap between teenagers and adults. This first part concentrates on the physical changes that take place between twelve and twenty, and the implications these may have for teenage behavior.

122 of the participants in the 13 discussion groups have been adults. In only two cases have there been teenagers in the groups. Not that this isn't preferred. But the teenagers are all in school when most Homemakers club meetings are held.

The result has been that the adults have been put through the interesting experience of recalling and sharing their own teenage experiences. That this has proved a worthwhile endeavor may be gathered from the comments of one mother in Mammoth.

"That really was very interesting" she told the Extension Home Economist who had led the discussion (and is neither a teenager nor a parent of teenagers). "We had wondered what you could tell us about raising teenagers". Which brings up an important point. In a discussion group there are no experts - not even the discussion leader. Each participant contributes according to his own training and experience. And each contribution has value in that it is unique to the person that gives it. This is the philosophy behind the selection of this particular method for studying this particular topic.

Women Learn Cooking Hows and Whys

Food preparation is a three - times - a - day, seven - day - a - week job for homemakers. It's something many women enjoy - but sometimes find frustrating. These frustrations come about for many reasons. They include health problems, personal preferences, limitations of time, money and/or equipment, often just plain lack of imagination.

The first in a series of four sets of slides (purchased from the University of California) on the science of cooking were shown in the Homemakers clubs this fall in a program intended to remove some of the frustrations and put the joy back in cooking. The slides are designed to explain the scientific principles of food preparation in a way that homemakers can understand. With this better understanding, hopefully, will come the freedom to experiment and make adaptations.

The whole program comes under the blanket heading of Creative Cooking and will continue thru 1968 with cooking schools in different parts of the county in the spring.

V. FAMILY LIVING (continued)

Women Learn Cooking Hows and Whys (continued)

The slides come complete with self testing questions, a script and printed reference material. They are intended for use by any organized group which provides its own projector and a reader. The slides can be borrowed from the County Extension Office at no charge.

The first set has been shown to **11** groups with an estimated audience of 97.

V. FAMILY LIVING (continued)

Partners in Progress . . . PINAL COUNTY HOMEMAKERS CLUB MEMBERS

OTHER HOMEMAKER CLUB ACTIVITIES

Homemakers clubs Assist in Community Projects

Though the Homemakers clubs are primarily for education, many also take on some sort of community project.

In Mammoth the Homemakers club co-sponsored a cancer clinic, held February 7-15, for women in the tri-community area. Co-sponsorship meant helping to arrange for a doctor to give pap tests, advertising and promoting the program and arranging a car pool for transportation. 334 women were checked thru this clinic. Both sponsors felt it was a successful program.

Six members of this same club took training from the Arizona Society for the prevention of blindness to give eye screening tests to pre-school children.

Four screening clinics were held - May 18, 23, 24, June 28. Also one additional one in July for four children who had been missed. 68 children were screened, ranging in age from three to six years. Six were identified with problems; four of these have been corrected.

The club members cooperated with the women's club in San Manuel in this endeavor, they plan to continue.

In Mammoth and Coolidge both, the clubs have contributed to college scholarship funds.

The Florence club has filled christmas baskets for needy families - also contributed to the building fund for a county museum.

In Superior, the club is working on a Highway Beautification program.

In Kearny, club members helped to conduct the Heart Fund drive.

V. FAMILY LIVING (continued)

Partners in Progress . . . SPECIAL INTEREST EDUCATION GROUPS

Opportunities Offered For Creative Self Expression

During the late winter months of 1966 and early 1967 74 women were enrolled in Creative Design workshops held in 6 different parts of Pinal County.

The workshops were intended to stimulate the creative instinct of the average homemaker and help her develop an appreciation for beauty and originality in hand crafted objects.

That there is a strong desire in women to make things with their hands is evidenced by the large number of craft kits that are being sold and the oft repeated requests for craft lessons in the Homemakers club programs.

The workshops were intended to provide something unique and original and, hopefully, more satisfying than the objects made from kits which are often neither artistically attractive nor useful, and quite often expensive.

The workshops evidently fell somewhat short of their lofty objective. When queried a year later many participants said that while they had enjoyed it they had made very little actual use of it.

One participant said she had applied some of the design ideas in making decorator pillows. Another used her original designs for quilt patterns. Still another adapted a design she had made in the workshop for use on a dress.

One used some of her designs in making rugs. Several mentioned that they found the information on combining colors most helpful.

Christmas seems to have been the biggest incentive for making use of the workshop. Several persons reported making christmas wrapping paper, christmas decorations and gifts for other people - whether these latter were all actually original they didn't say.

Three persons mentioned using the techniques learned in the workshop with children - in Sunday school groups and scout groups.

For them the workshop's greatest value was in what they could pass on to other people not what they could use themselves.

One person reported happily that though she hadn't made any use of it yet, she felt much "bolder", and that really was probably the best reply of all.

Creative Cooking Workshop For Homemakers

65 thousand persons had birthdays in Pinal County last year. Six hundred of them got married. Presumably, this called for sixty five thousand three hundred decorated cakes.

V. FAMILY LIVING (continued)

Creative Cooking Workshop For Homemakers (continued)

Cakes decorated for special occasions such as these sell in the bakeries for-from \$1.50 to \$50 or \$60. It is possible to pay as much as several thousand dollars for a wedding cake - if one has need for one such as that and the where-with-all to pay for it.

Since decorated cakes assume such an important place in family life and paying for them can be a problem, 2 workshops were arranged by the Extension Service this spring to help women learn to do their own decorating. These workshops were open to members of the Homemakers clubs and their families or friends. Attendance necessarily had to be limited because of the limitations of space.

The workshops were taught by professional decorators - one from Globe, arranged for by Ruth Stauffer, Home Service Representative for Arizona Public Service. The other was a former 4-H club member, a graduating senior from the U. of A. now teaching in Kearny.

The workshops were held in Casa Grande and Kearny. A fee was charged for each one to cover the cost of meeting places and supplies - \$1.00 for the workshop where participants brought their own cakes, \$2.00 for the one where cakes were provided.

A total of 34 persons attended. Several have said since that this has been the most helpful workshop they ever attended.

V. FAMILY LIVING (continued)

Special Interest Education Programs

Community	Participants in Special Interest Education Programs	
	(7) 2-day Creative design workshops (winter of '66 thru spring of 1967)	(2) 1-day Cake decorating workshops
Casa Grande	15	7
Coolidge	12	4
Florence	17	5
Kearny	6	2
Mammoth	9	5
Sacaton		1
Superior	15	7
Oracle		3
TOTALS	74	34

V. FAMILY LIVING (continued)

Partners in Progress . . . FAMILIES THROUGH OTHER FAMILY LIVING
PROGRAMS AND EVENTS

Seventeen From Pinal County Attend Town and Country Life Conference

Women from Casa Grande, Coolidge, Florence, Superior, Eloy, Blackwater, Mammoth, Oracle and San Manuel attended the annual Town and Country Life Conference held June 5 thru 9 on the campus of the University of Arizona in Tucson.

This conference is open to all men and women in the state and covers topics related to all phases of Family Living.

This years attendance was about the average for that of previous years. Mrs. Anita Jones of Mammoth and Mrs. Ina Cigliano of San Manuel represented the county on the state wide planning committee.

Homemakers Club Members and 4-H Club Leaders Serve as Judges at Fairs.

Over the past four years, thirty eight persons have been trained to serve as judges for some of the Home Economics classes at the two local fairs - the County 4-H Fair held in April and the Pinal County Fair held in October each year.

Seventeen of these people have been trained as Foods judges, eighteen as judges in Clothing construction, and three in Home Management - Home Furnishings projects.

The training has been given by the County Home Economists and state specialists. Not all of the persons receiving the training have served as judges - some have not had the confidence.

The majority however have judged at least once - some more than once.

Among those serving as judges this year have been Margaret Ann Jones, Mrs. Sam Stedman, Mrs. Jack Taylor, Mrs. Tom Mathis and Mrs. George Young from Casa Grande; Mrs. Eric Strube, Mrs. Kenneth Blair and Mrs. Stanley Martin from Florence; Mrs. Thomas McMillin, Mrs. N. G. Manship and Mrs. Stan Snitzer from Coolidge; Mrs. Wilbur Taylor, Mammoth; Mrs. Lester Brown, Kearny; and Mrs. Willis Combs, Queen Creek.

Letters To Parents of Pre-Schoolers Suggest Topics For Group Discussions.

For the past three years a monthly letter discussing topics of interest to parents of pre-school children has been sent out to people who have asked to be put on the mailing list.

Copies of these letters go also to two of the three day care centers in the county operating under the Migrant Opportunity Program.

V. FAMILY LIVING (continued)

Letters To Parents of Pre-Schoolers Suggest Topics For
Group Discussions (continued)

The letter is prepared by the Family Life Specialist and distributed through the County Extension Officer throughout the state.

A few attempts have been made to translate some of these letters into spanish so that they might serve a wider audience. However this has not been done on any regular basis.

Recently however, someone has indicated an interest in doing this - with selected copies of the letters.

Mrs. Brent Doan of Eloy (mentioned elsewhere in this report) is interested in using these letters as the basis for group discussions with parents of the children enrolled in the Nursery School at the Eloy Community Center. The plan is for the letters to be distributed first, then the parents get together to discuss them. Since some of these people do not read English it is necessary for their letters to be translated into spanish.

To date, two of these letters have been used - one on How do You Know If You Are Doing A Good Job, the other on Developing Responsibility in Children.

The idea seems to be a good one.

V. FAMILY LIVING (continued)

Partners in Progress . . . OTHER ORGANIZED GROUPS

Stanfield Day Care Center Aides Learn Clothing Renovation

Each afternoon during the last week in July, the mothers who are working as aides at the Day Care Center in Stanfield met with the Extension Home Economist to learn about mending, altering and restoring old clothing.

The center is maintained under the auspices of the Migrant Opportunity Program, as is a second hand clothing store.

Garments from the store were used for lessons on washing and restoring sweaters, machine darning, putting in a "jiffy patch", re-fitting and altering dresses, recutting and making children's garments from adult clothing.

There were approximately ten women in attendance each day.

Eloy Community Center Holds Program For Nursery School Mothers.

Negro, Mexican and Anglo children play together in the nursery school maintained by the Eloy Community Center, while their mothers meet together for lessons on the adult level.

The center is maintained in Eloy by the Methodist Church for people of all races, religions and economic back grounds.

Guiding hands behind the programs are those of Mr. & Mrs. Brent Doan, directors of the Community Center. They in cooperation with the Extension Home Economist, are attempting to give both the children and their mothers the experiences and knowledge they need to keep up with our rapidly changing society.

Weekly lessons on house cleaning and sanitation are being taught by Mrs. Doan (who is Mexican and speaks that language fluently) and monthly discussions on parent - child relationship are to be held throughout the 1967-68 school year by the Extension Home Economist.

The U.S.D.A. low-literacy house keeping leaflets are being used as a reference with the house cleaning programs.

The letters to parents - of - preschoolers provide the basis for the discussions. Mrs. Doan translates the letters into spanish and interprets during the discussion.

The programs were launched in November. About eighty parents and children are involved.

A Head Start in Good Nutrition Planned For Pinal County Youngsters

Nutritional anemia and dental caries are the main health problems of children enrolled in the Head Start Program. This has been found to be true not only in Pinal County but throughout the state.

The need for a well balanced diet complete with iron-rich foods and tooth-cleaning snacks was the educational emphasis in the two nutrition programs

V. FAMILY LIVING (continued)

A Head Start In Good Nutrition Planned For Pinal County
Youngsters (continued)

conducted by the Extension Home Economist serving as Nutrition Director for the eight Head Start centers in Pinal County this summer.

One of these programs was for staff members, 70 of whom attended. The other was for parents and had an attendance of 60.

Madam Chairman Most Popular Bulletin

Funds were allotted to the Pinal County C.A.P. for a "Grass Roots" program for the first this year. This has meant the hiring of six persons to serve the poverty areas with information on the various types of assistance available to people in need of it.

Representatives of different agencies in the county have met with the grass roots personnel during their period of training held early this summer to acquaint them with the services each has to offer.

The Extension Home Economist met with the group in August to explain the educational assistance available thru the Extension Service. Each of the grass roots workers was provided with a well rounded supply of Extension bulletins covering all phases of Home Economics and Agriculture.

It is interesting to note that by far the most popular bulletin - the one requested by practically all of the local community action groups - has been "Madam Chairman", the guide to parliamentary procedure prepared by Jean Stewart.

It is as if these people, perhaps experiencing for the first time an opportunity for group action for which they themselves are responsible, are determined to carry it out in an orderly democratic manner.

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)

Partners in Progress . . . 4-H MEMBERS, LEADERS, PARENTS AND SUPPORTERS

ORGANIZATION

"145 Volunteer Leaders Guide 694 Boys and Girls in the Four-Fold Youth Development and Learning of Certain Skills Through 4-H Club Work

Twenty-one community 4-H clubs were active in Pinal County. Efforts were made to organize 4-H clubs at Toltec and Arizona City but neither are active now. The Kearny club has new leadership and is much stronger. The Casa Grande club was so large it was divided by age levels into three community clubs. Community leadership has been inadequate for the last two or three years in Casa Grande and community service and other areas of 4-H, outside of straight project work, has been very weak.

Youth Work in Low-Income Level Areas

Several visits were made by Keith Jones to an economically depressed area south of Casa Grande to try to find a way to get a 4-H Club organized there.

The youth and their parents were responsive and interested in the materials he showed them. Leadership is the big problem. Also, they did not have a place to meet. None volunteered their homes, which actually are quite inadequate. It looks at present very difficult to do any good here, but efforts are continuing.

Casa Grande Kiwanis Club Agrees to Back Local 4-H Club

The Casa Grande community club has grown so large (140 members this year) that it has become too much for the two community leaders to handle and they cannot continue.

Keith Jones held two meetings with the Kiwanis Club this summer to present the challenge of backing the club. The youth committee of this group has been designated to help with organizing, recruiting leaders, and supporting the program as needed throughout the year.

One of the meetings held with the Kiwanis Youth Committee was to give these men a chance to become better acquainted with 4-H Club Work. Mr. Jones presented information about 4-H and suggested enrollment procedures.

A meeting with local 4-H leaders was set for September. At this session the youth committee found out what leaders were continuing and the names of new prospects. They pin-pointed project areas still needing leadership and planned a recruitment campaign.

Also, they worked with the ongoing leaders in planning for enrollment of members for the new 4-H club year. The enrollment was held during National 4-H Week. Kiwanis was in charge of publicity, leader recruitment, meeting facilities, and the enrollment of members.

Kiwanis arranged for the facilities of an elementary school in Casa Grande for the enrollment meeting. Ellen Hosking and Keith Jones both attended to answer questions and give assistance as needed in the different project areas. Good advance publicity for the event was put out by the youth committee.

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

Banker Continues to Support Livestock Projects (continued)

accompanied the agent on visits to homes of 4-H'ers, worked as a member of the County Livestock Committee in charge of the show and sale at the 4-H Fair and counseled with 4-H'ers in his office about financing their projects. He showed a personal interest in each youngster.

LEADERSHIP

Leadership on the Local Level Continues Major Problem

Leadership on the local level continues to be one of the major problems in 4-H Club Work. Recruitment requires too many hours of an agent's time, but seems necessary until a community has developed leadership sufficient to perpetuate its own recruitment when needed. This has happened in several communities, but about half need help.

Leadership in Depth Training Series Reaches 44 Volunteer Leaders

Six meetings were held on two subjects - "4-H and What It Means" and "The Project Meeting".

Each subject was covered in 3 different area meetings to cut travel distance for leaders.

The first three meetings, conducted by Ellen Hosking, were held in Kearny, Coolidge and Casa Grande. The last three, conducted by Keith Jones, were held in Mammoth, Florence and at Francisco Grande (near Stanfield).

In each case the majority of the people attending these training meetings were from the community where the meeting was held. To reach the majority of the leaders, it seems that meetings would need to be held in each community in the county. For example, no meetings were held in Superior and no leaders from there attended any meetings. The copper mining strikes are no doubt having some effect on participation.

The leaders that attended expressed interest in the information and appreciation for a chance to meet together and discuss their problems.

Printed and mimeographed materials supplementing the discussion materials were handed out and have been given to leaders not attending the meetings. Leaders have ask for additional copies of some of these materials to use with the parents of their members.

Several leaders expressed the desire that some of the materials be made available to their clubs and this has been done.

Leader and Agent Home Visits to Livestock Projects Increase Educational Value of Project

The local livestock leaders and agent worked together making home visits and evaluated the livestock projects involved. This tended to fortify the leaders efforts and provided a good opportunity to make suggestions to members. Leaders

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

Board of Directors Dedicated to 4-H

The 4-H Board of Directors is the official group in charge of the business affairs of the Pinal County 4-H Clubs, Incorporated. Nine adults and two junior leaders (1 boy and 1 girl) constitute this board. They are in charge of the county 4-H funds, the 4-H facilities at the fairgrounds, and the operation of the 4-H Fair. They advise regarding the educational program conducted through 4-H Club Work.

During the past year, considerable time was devoted to the planning and starting the development of a new 4-H camp site for Pinal County. More information on this is covered under 4-H camping.

Livestock Committee Plans Successful Show and Sale

The Livestock Committee made up of leaders and others interested in the livestock program, set up the rules for screening, selected judges, contacted prospective buyers, and completely organized and ran the livestock sale at the 4-H Fair.

Mr. Joe Briscoe, Casa Grande Cotton Oil Mill, and Mr. Bill Hudzietz, Central Arizona Bank, were appointed as co-chairmen of the livestock show and sale for this year's 4-H Fair. These men organized community committees for buyer support and manpower to assist at the fair.

Through discussion at a meeting, the committee voted to make every effort to minimize the inequities that often occur at auctions. As was done last year, they encouraged buyers to bid according to placing rather than on the basis of who owns the animal. Last year's and this year's sales demonstrated that this work in advance by the committee was successful in providing incentive and reward to all boys and girls in livestock market projects who did a good job, rather than on an erratic basis to a few.

4-H Awards Committee

Vocational Agriculture instructors, Home Economics teachers, and other qualified people other than 4-H leaders made up the awards committee this year. This change seemed to work out very well. The Judges were given a brief orientation before starting and then they worked in teams of two to facilitate the judging. Each team gave several awards and then the total group of judges selected the outstanding members, and story.

4-H Home Economics Committee Help Guide the Program

The Home Economics Committee consists of six experienced leaders who meet before and after activities in which home economics projects are involved. They do much of the planning and organization, as well as the actual labor that is involved in these activities. They also evaluate each activity and make recommendations for future use. The committee members tried to represent the views and wishes of 4-H leaders and members in the planning of the total program.

Banker Continues to Support Livestock Projects

For the fourth year in a row, Mr. George Steele, Valley National Bank, worked to encourage and promote the livestock projects for boys and girls. He

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

Leader and Agent Home Visits to Livestock Projects Increase Educational Value of Project (continued)

report that these visits seem to be an incentive for harder work on the members part. The most usual problems encountered were the feeding problems. Nutrition, disease, management and training were all discussed at these home visits. All of the market livestock projects were covered during the year.

Individual training through home visits seems to be necessary for our 4-H livestock and other agricultural project leaders. These people seldom attend the scheduled leader training meetings.

Leaders Find Manuals Useful

Complete leader manuals for Home Economics projects assembled in the fall have created interest and inspired confidence. Nearly all of the leaders have one now - the goal is to see that every leader of a Home Economics project has one. These include a general outline of the project for an overview; every project manual and record sheet for every unit of the projects; and a large number of bulletins, mimeographed sheets and other informative publications that can supplement the project. With Sears Funds hard notebook covers were purchased through the National 4-H Service Center.

4-H Leader Training in Clothing

Four training sessions were conducted in Unit I, two of which included Unit II. They were held in Randolph, Kearny, Casa Grande and Stanfield. They included the Singer Sewing Machine Company training on "Know Your Sewing Machine". Sears Funds were used to purchase supplies for making teaching samples.

4-H Leader Training

Leader training was conducted in Queen Creek in Foods I, II, and III; Clothing I, II, and III; and in Knitting. Two of the five leaders attending are very new to the program and will take project groups of their own in the fall. At this time they are assisting.

Leader Training in Knitting

Mrs. Jay Wilson, our key leader in Knitting, recruited and trained another leader in the project and also trained two people who have been leading groups. This extended training in that project to Florence and the Arizona Children's Colony. In the fall she had to drop out because of illness. Another leader took her place and attended the fall workshop held in Tucson.

Demonstration Day Judges

All judges were secured by telephone for Demonstration Day; a letter was sent to inform them and to help them remember how to go about evaluating demonstrations and illustrated talks. The judges folders included comment sheets with special points; official rules and regulations; a complete schedule; and demonstration scorecards.

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

Personal Color Analysis - Junior High

Sallie Lynn presented information on personal color analysis to 81 junior high school girls in Casa Grande for two days. All were involved in the program on each day. It took some careful planning to adapt all that information we normally present in three-day workshops to this situation on two consecutive days. On the first day we discussed the value in determining and accepting personal coloring, directing and discussion toward clothing and make-up selection. Using the Munsell Color Charts, the concepts of hue, value and intensity were considered. This helped the girls to see that beyond knowing colors one should wear to enhance or accentuate personal coloring you can go farther to discover whether those colors selected should be light, medium, or dark in value; and weak, medium or strong in intensity. Techniques for "charting" personal coloring were demonstrated, and the rest of the time was spent in finding every girl's skin, hair and eye colors, and pinpointing these on the personal coloring chart which was carefully explained before they used it to find their own coloring.

On the second day we used the information along with the Color Family Chart. We discussed monochromatic, analogous and complementary color schemes and the things to consider in choosing one of these. Then we went into methods of determining which colors within color families should be selected to emphasize certain characteristics and application of this knowledge to "play down" undesirable features. A full demonstration of this decision making process was done on one person in each class. Career information was also presented.

Training for Day Care Center Aides

A training session was conducted for Aides at the Day Care Center in Eloy. Mrs. Stan Snitzer of Coolidge, a long time 4-H leader and participant in Extension programs, is director of this center where approximately 65 children are brought each day.

Randolph Now Has a Club

Miss Sallie Lynn worked with several women in the community of Randolph in organizing and leading a Clothing Project group. These leaders were trained by Miss Lynn in the Clothing Unit I and in general 4-H procedures. The group was started with much labor and attention from Miss Lynn, and many frustrations by each of workable equipment and too many children that were not members of the group. The children desperately want this type of activity but it is hard to find leaders who really lead the group. When school started the group decided to stop meeting. They have expressed interest in having another activity next summer and we are planning to work with them.

New Clothing Leaders Attend Training

Two training meetings were held in December in Superior and in Coolidge for the new leaders of the county. These meetings covered Clothing Units I, II and III; judging; demonstrating; and general 4-H information. Parents were included along with junior leaders so that more people can become familiar with these projects.

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

Informal Training - A Day to Day Job

Both agents give training everytime they meet with leaders in any situation. This is very important since it is impossible to get all leaders to all training meetings. This is important also since people don't seem to read the materials sent out. Much training is done right along with recruiting in order to get leaders started.

EDUCATION THROUGH PROJECTS AND PROJECT RELATED ACTIVITY

1967 Enrollment in 4-H by Projects

Clothing	314
Clothing	202
Knitting	112
Foods and Nutrition	234
Food Preparation....	204
Food Preservation... 7	
Outdoor Cookery.....	23
Child Care	29
Home Management	18
Livestock and Poultry	292
Beef.....	56
Sheep.....	37
Swine.....	27
Horse.....	93
Rabbits.....	25
Poultry.....	16
Dairy.....	5
Dogs.....	29
Goats.....	4
Engineering	57
Automotive.....	17
Electric.....	17
Tractor.....	23
Plant Science	32
Garden.....	18
Home Beautification..	11
Crops.....	3
Entomology	15
Bees.....	1
Entomology.....	14

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

1967 Enrollment in 4-H by Projects (continued)

Junior Leadership	50
Arts and Crafts	172
Woodworking.....	34
Leathercraft.....	45
Photography.....	17
Other Crafts.....	76
Miscellaneous	26
Speech.....	21
Rifle Safety.....	0
Consumer Buying.....	5
	=====
TOTAL PROJECTS	1,239

4-H Horse Project Clinic

A horse clinic was conducted for 4-H Horse Project members and leaders on February 11. Some 100 leaders and members attended. The program was very similar to the one used in Maricopa County. It covered the horses anatomy, physiology, judging and how to show the horse. Dr. Phil Blair, a local veterinarian; two project leaders, Mrs. Mary Taylor and J. B. Brooks, Jr. assisted with the presenting of information in addition to Al Lane, Extension Livestock Specialist. Powell's Feed and Supply, the Coop Store of Casa Grande, H & H Hardware & Supply Company of Coolidge donated pieces of equipment that were used for judging awards.

140 Boys and Girls and Ten Leaders Benefit From Livestock Workshops

On February 25 about 60 of our 4-H'ers attended a livestock workshop at the University of Arizona Livestock Farm in Tucson. These were members enrolled in beef, sheep or swine. Al Lane worked with Keith Jones in planning the program. Six classes of livestock were set up for judging (4 beef and 2 sheep.) Before the members judged, instruction was given by Mr. Lane and Mr. Jones on what to look for and why.

Cary Marks, herdsman, gave a beef fitting demonstration. Garrett Blackwell and Phil Lewis gave a sheep blocking demonstration. About three-fourths of the 4-H'ers were first and second year members and this was very educational for them.

We have no place in Pinal County where we can give such good, practical judging training. Quality livestock that can be tied are just not available in numbers to make classes.

The help given by Al Lane and personnel at the University Farm was greatly appreciated. Also the help from the Pima County Extension Service was very valuable.

Educational value of these events was excellent, according to the leaders attending. Also, these events help to stimulate greater interest in project work and in 4-H Club Work.

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

Leaders on Reservation Launch Group Garden and Crops Project

Land was given by the tribal council at Sacaton for a 4-H group garden and crops project. Water is available for irrigation. Vegetable crops and some irrigated pastures were planted.

The feeling is that these boys showed more interest in project work on a group basis. Mr. Hamm and Mr. Lester of the Bureau of Indian Affairs organized and directed this project.

They set up a roadside stand at harvest time and sold much of their garden produce. This activity helped to make the community more aware of 4-H Club Work.

Entomology Project Promoted at 4-H Camp

Sam Stedman conducted a workshop on Entomology at the 4-H camp. He introduced campers to methods of collecting and mounting and gave them a better knowledge of the insect world. We hope this effort will increase enrollment in this project.

One Hundred and One Boys and Girls Demonstrate Project Skills in County Demonstration Day

Fifty-eight members gave demonstrations in Home Economics project areas and forty-three in agriculture and general project areas.

The number in each age group is as follows:

<u>Age</u>	<u>Number demonstrating</u>
9	5
10	15
11	22
12	16
13	10
14	12
15	9
16	5
17	5
18	1
	===
TOTAL	101

These figures indicate that members need to build a certain degree of confidence before giving demonstrations. Few 9 year old enter in the county events for this reason, we believe. After watching for one year and learning and gaining confidence, 4-H members then want to demonstrate. After the age of 11, participation relates closely to enrollment.

Perhaps more participation in all age groups would occur if a greater emphasis was given to demonstrations on the project and community club level. This will be encouraged through leader training because experience in speaking, organizing, techniques of teaching, and project subject matter. It breaks down barriers to communication such as shyness and poor speech characteristics.

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

One Hundred and One Boys and Girls Demonstrate (continued)

A definite effort will be made next year to encourage more older members (14 and over) to give demonstrations. We believe more experience will be of great value to these members.

Training Sessions in Judging

Florence 4-H members and leaders know all about "NERTS" as a result of a training session conducted. "NERTS" were created by Shirley Weik. They provide a unique and enjoyable approach to judging, illustrating the principles involved in being able to judge if you know the standards involved. So often 4-H'ers encounter something at a judging event that they haven't yet covered in project work, or that hasn't been emphasized. If they have studied project material and references to the extent that they know general concepts, have an overview, and know standards, requirements, specifications, etc. they can probably do fairly well in judging and can surely learn through explanation of official placings. "NERTS" are rather absurd shapes shown drawn on posters. Clues are given - representing the standards and conclusions can come from these. Finally one gets to the point where he can formulate the perfect "NERT" in his own mind, on the basis of his knowledge. I've used this with adults who seem to enjoy it but had not tried with children before. Their interest kept them sitting wide-eyed on the edges of their chairs, and they became so excited and involved, and got the point of the whole thing so well, that I plan to use this often as a program for 4-H clubs.

Also, two events were held, attended by 115 people - about 96 4-H members - the rest were leaders. Seventeen "rings" were set up - in foods, knitting, and clothing projects. Many of these will be available on loan to 4-H leaders and members who are interested in using them in project meetings - this way we'll get more "mileage" out of them, and since so much time and preparation are involved, it seems a good idea.

Non competitive judging was set up for first-year members and others who wanted the "practice" before judging in the contest.

Clothing Project Enrollments Still High

The areas of Clothing and Knitting are the most popular of the Home Economics projects, with the knitting project growing by leaps and bounds. This is one of the most popular projects we have, second to horses. There were 314 members enrolled in these projects.

Leader training was conducted in both subject matter areas and leader manuals were prepared for both areas.

The Randolph was started in the Clothing project and much time and energy was expended getting leaders training and the club started. This group stopped meeting at the opening of school but will reorganize next summer.

The clothing projects are exhibited at the 4-H Fair by the many members who exhibit their articles. Several members also exhibited at the State Fair and won many ribbons.

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

Clothing Project Enrollments Still High

4-H members get further experience in the Clothing projects by participating in the two judging days held and the County Demonstration Day.

Several 4-H'ers attended State Roundup in this category.

Dress Revue was again held as a separate event from the 4-H Fair since it was successfully done this way last year. A dessert social was held in conjunction with it to encourage better attendance. Leader and member training in grooming, modeling and general revue routines was held at the Dress Revue and 58 participants. Four of these girls participated in the State Dress Revue also.

Foods and Nutrition

Foods projects as a popular as ever in the county but it is getting harder to find leaders who feel they can handle this project in their home.

Food Preservation increased in enrollment as the girls get older and more advanced in club work. This project seems to be an individual thing for these older girls. We have no project clubs in this project. These girls do a good job though and several show their products at the 4-H, county and state fairs.

Although the enrollment in Outdoor Cookery is down, the popularity of the project is on the increase. Several new leaders have chosen this project to start the new year.

4-H members exhibit their skills and products at the county and state and 4-H fairs; and several attended roundup in this area. Several boys have become interested in the foods project especially in outdoor cookery. We are encouraging more of this since it is very important for both boys and girls to understand nutrition and food preparation and preservation.

The Favorite Food Show is another opportunity for exhibiting in this project. This event has been on the decline in participation and we are trying to find a better method of handling it so more members can participate.

Leader training was conducted in the food preparation section of this project area. More training is being planned for the new year.

Child Care - Enrollment on the Increase

Several new leaders and project groups have been started in this area. The enrollment has jumped from nine to twenty-nine in the past year. Leader training was conducted in this area and more is planned for the new year.

These members have exhibited at the 4-H Fair and during Demonstration Day.

More work is needed in this area to support present leaders and to expand audiences in this project.

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

Home Management - Home Furnishings

Enrollment has remained constant for this project. The clubs we have had have been on the Pima Indian Reservation. They are continuing for the new year and two new leaders have also been found in other parts of the county. This project needs more publicity and leader training to help it along.

Members exhibited at the 4-H Fair and the County Fair.

This project will be stressed at these events as well as judging and demonstration day and for roundup in the new year.

OTHER CLUB ACTIVITIES

New Camp Site Development Continues

Two planning sessions were held this month concerning developing the new Pinal County 4-H Camp grounds near Williams. One session was held at Flagstaff with Ted Welchert assisting with engineering details.

Visits were made to the Coconino County Health Department and the planning and zoning commission. Also a conference was held with the Forest Service representative. These agencies assisted with the further planning of building, lay-outs of facilities. The involvement of many local people in building this camp should strengthen the 4-H program. When people become involved they become more interested.

Families Travel 200 Plus Miles to Williams to Help Build 4-H Camp Grounds

Nine families, involving 45 persons, were on hand for the 3-day work session at the new camp site. One cabin was put up, trees trimmed and some removed, rocks moved and some painting was done.

The group was enthusiastic about the potential for the camp grounds. They liked the choice of the site.

4-H Camp

This event ran very smoothly, due to the fine staff of 4-H leaders serving as counsellors and the senior 4-H members acting as camp officers. They were really interested in their assignments and were very creative in presenting suggestions, ideas and guidelines.

A new feature was a program in Civil Defense, set up and conducted by Rural Civil Defense Coordinator, Mr. Walter Lamb. The information was excellent and Mr. Lamb surely made a fine contribution himself. In morning workshops personal survival kits were made, as well as cards listing emergency telephone numbers. Telephone books were taken to camp, so that the 4-H'ers could actually write in the ones needed by their families.

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

New 4-H T-V Action Program in Civil Defense Introduced to Pinal County 4-H Campers

One of the four morning interest groups at our camp was taught by Dr. Walter Lamb, Civil Defense Specialist. Each evening, except Friday, he showed a film - each a part of the series developed for the T V Action Program. This special emphasis provided education on civil defense as applied to the home and family.

Also the information in two of the films provided reinforcement of the ideas taught in the interest group on "camp craft". We included survival information and conservation measures in the field presentation. "Camp craft" was taught by Keith Jones.

The other interest groups were "outdoor cookery" and "entomology." Entomology was taught by county agent Sam Stedman and was designed to stimulate interest in this 4-H project.

This was the first time to include outdoor cookery as one of the interest groups. Mrs. Patrick, a local Casa Grande leader, taught this subject. Each day a different group went into the field and prepared equipment for cook-outs when rough camping. Then they stayed in the field for lunch - preparing their own food.

In addition to the interest groups, the camp program included several different crafts and a varied athletic program. Ten senior members served as camp officers and thus gained valuable leadership experience.

There was a total of 96 boys and girls, and 13 adults attending camp. Transportation is one chief problem. We have been depending on school buses, but school boards are making more and more restrictions on the use of their buses. Three days before going to camp one bus that we planned to use broke down. Graham Wright solved our problem by arranging for a University bus. The evaluation by our camp committee resulted in a recommendation that we raise our camp fees and charter buses next year. We hope this will not lower the number of 4-Hers participating.

We continue to feel that camp provides special opportunities in personal development, citizenship education and education in conservation, recreation and in special subjects already mentioned. Also camp helps lengthen tenure of 4-H membership by stimulating interest and enthusiasm in 4-H through this group experience.

Nine Pinal County 4-Hers Attend the Citizenship Short Course in Washington, D. C.

Six girls and three boys attended the citizenship course this year. Last year seven from Pinal County attended. As a result we are seeing more citizenship emphasis in the club meetings and in community programs.

Citizenship Delegates are Working

Four members of the delegation to Washington, D. C. gave a program to the Rotary Club in Coolidge. They did very well in expressing their feelings about their new concept of citizenship. Pinal County's delegation plan to host the sponsors at a dinner during National 4-H Club Week. Other programs have been given around the county.

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

Citizenship Delegates Say Thanks by Inviting Sponsors to Dinner

The Pinal County 4-H members who attended the citizenship short course in Washington, D. C. this past summer planned and took charge of a dinner and program in Coolidge. They invited the county citizenship sponsors as their special guests. One sponsor, before leaving, voluntarily commented that his organization would back the program next year. He said, "This is the best program we have ever supported."

EVENTS

National 4-H Club Week Plans

4-H place mats were ordered from the National 4-H Service Committee and given to all communities for use in restaurants and cafes during the week. Also, special stories and full page sponsored ads for 4-H were in county papers. Clubs around the county were urged to plan local programs including leader recognition during this 4-H Week. Also, spot announcements and special programs were made available to the local radio stations.

Record Attendance at Tri-County Senior 4-H Conference and Camp-Out

Seventy-seven 4-H'ers from three counties, Pinal, Pima and Cochise were involved in a week-end encampment at the Pinal County Fairgrounds on March 11 and 12. Wholesome recreation, and educational program, experience in food preparation, and new friends are rewards these young people experienced. Fifty-one senior members from Pinal County attended and twenty-six from Pima and Cochise counties.

The theme was "Indian Cultures in Arizona." New knowledge on this subject was available through a speaker, slides and discussion. We believe more assistance and supervision by adults is needed in arranging for the program in the future. The senior officers appointed committees for the various phases of the program and recreation, and some members did not fulfill their job.

Sponsors Assist With County Achievement Program

The Arizona Milling Co. , The Arizona Hog Producers, and the Willis Combs family were sponsors of the meat for the 4-H family dinner preceding the awards program on October 29. The event was held at the fairgrounds with 155 people attending. County medal winners were recognized and the four plaque winners named. Top senior boy - Tom Robinson, Casa Grande; top senior girl - Barby Robinson, Casa Grande; top junior boy - Greg Schaumburg, Apache Junction; and top junior girl - Jacquetta LeForce-Stanfield.

4-H Fair Livestock Facilities at the Fairgrounds Become Inadequate as Record Numbers are Exhibited

This year there were 99 market animals (beef, sheep and swine) shown at the 4-H Fair. Last year there were approximately 80, and in 1965 about 60 shown. Each boy and girl can show only one animal, so this means 99 boys and girls involved in these market projects.

The livestock committee and other leaders are concerned about how to handle the exhibits if this growth continues. The facilities were filled to capacity. A few temporary pens were set up this year.

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

4-H Fair Livestock Facilities at the Fairgrounds Become Inadequate
as Record Numbers Are Exhibited (continued)

The support for the auction is also a matter of concern. The sale was well supported this year, but this will be harder with greater numbers.

It is recognized by all adults working with the program that an animal project contributes much to good youth development, in addition to teaching nutrition, health, economics, and other knowledge of the animal husbandry field. Also, we recognize that the market project could not be a major project without this financial backing.

Approximately seventy horses were exhibited and a few dairy, beef breeding, goats, rabbits and chickens. The electric, photography, garden, crafts, entomology and general exhibits were about the same number as last year.

4-H Fair - Home Economics Division

The Home Economics divisions were set up and organized by the senior members working as fair superintendents, working with Shirley Weik. Judges were located and arrangements were made by Sallie Lynn.

Thirty-Six Pinal County 4-H'ers Learn Through Contest and Workshops
at State Roundup

Twenty-two girls and fourteen boys attended and participated in Roundup activities. There were home economics, agricultural and general demonstrations given.

There were several cancellations due to family vacations. Mrs. Lilla Martin of the Bureau of Indian Affairs, three women volunteer leaders, one man leader and Keith Jones were in charge of our Pinal County group. The county 4-H clubs paid \$5.00 towards the expenses of each delegate, and paid the total cost for the adult leaders.

The educational and leadership experiences provided at Roundup are many. Mr. Jones worked with the speech workshop and thought it was excellent. The quality of the speeches (seventeen) was high, indicating a lot of work by the participants.

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

Partners in Progress . . . OTHER YOUTH

Work With Other Youth on Careers

Keith Jones assisted with career days involving about 400 seniors from three different high schools. In addition to assisting youth with career guidance it was a good opportunity to get better acquainted with school administrators and counselors.

Cooperation with Vocational Agriculture Program

Keith Jones served as a judge at a district Future Farmers of America event. He also assisted with judging instruction at one of the vocational agriculture classes. The vocational instructors have, in turn, helped with 4-H events - demonstration day and record judging.

Simplicity Fall Fashion Wardrobe Seen by 370 High School Girls

The Simplicity Wardrobe was presented to two high school groups, one in Coolidge and one in Casa Grande.

Ellen Hosking took the wardrobe and gave a presentation of it to six foods and clothing classes in the Coolidge High School. Information was given during the presentation on style, current fashion, clothing construction and 4-H.

In Casa Grande the agents worked through the Home Economics department and the Girls League organization to put on a fashion show with the garments. The Girls League arranged for and held an assembly with this as their program. The Home Economics department made arrangements for models and commentators. The Extension office provided the garments, script and all necessary equipment.

The girls were excited and interested in the fashions and this provided a good opportunity to publicize 4-H.

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.

APPENDICES

COUNTY SUMMARY

EXTENSION HOMEMAKERS CLUB SURVEY

A. THE FOLLOWING FIVE QUESTIONS ARE GENERAL INFORMATION:

1. Check your appropriate age group

(4) under 25 (8) 35-39 (7) 50-54
(9) 25-29 (14) 40-44 (5) 55-59
(9) 30-34 (8) 45-49 (9) 60-over

2. Check the age group of your children

(26) under 6 yrs. (33) 6-12 yrs. (24) 13-18 yrs.

3. Other groups or organizations to which you belong.

(4) Federated Womens Club (2) Garden Club (40) Womens Church Group
(32) Others, please list _____

4. Do you work outside the home? (7) Full Time (10) Part Time

() Seasonal

5. How long have you been a member of an Extension Homemakers Club?

Approximate - Number of months 5 less than 1 yr. Number of years _____
mean number years - 6

B. THE FOLLOWING QUESTIONS ARE ABOUT YOUR CLUB ORGANIZATION:

1. How often does your club meet? Times a month? ^{16 - 1 to 4 times per month}
59 - 1 time per month

2. When does the club meet? (55) Daytime (18) Evening (2) No regular Time

C. THIS PART IS ABOUT THE ATMOSPHERE IN THE CLUB

1. Check any of the following which express your feeling about the club:

(69) members are friendly (4) given too many jobs to do
(0) members are not friendly (0) not asked to take part, or to be on
committees
(59) feel accepted by group (6) a few people dominate the meeting
(1) do not feel accepted (8) too much time spent on business
by group

D. HOW WOULD YOU RATE THE EDUCATIONAL PROGRAM OF THE CLUB?

1. Time spent on the program is -

(1) too long (61) about right (9) too short

2. Information given by leaders usually is -

(67) well presented (6) poorly given

3. Time is given for -

(57) discussion of the subject (39) questions by members

() no discussion of subject (5) no participation by members

(49) good participation by members on subject

4. Information presented is - (63) timely and helpful (4) sometimes

(1) of little help

E. SOME INFORMATION ON YOUR PARTICIPATION

1. Did you attend - (23) All club meetings? (19) Half of meetings?

(20) Most (4) less than half

2. Are any of these a problem for you? (Please check)

(12) baby sitter (4) time of meeting (3) illness

(10) family commitments (2) place of meeting (1) transportation

(9) conflicting activities (1) work

3. If you have served as a project leader do you feel you were adequately prepared by the leader training sessions? (Please check whichever applies)

(32) very well prepared (4) not very well prepared

(9) felt prepared only with additional practice or study at home

(1) varies

F. PLEASE MAKE ANY COMMENTS OR GIVE ANY SUGGESTIONS YOU HAVE ABOUT THE HOMEMAKERS CLUB AND THE PROGRAM: (Use back of page if necessary.)

VII. COMMUNITY IMPROVEMENT AND PUBLIC AFFAIRS

PARTNERS IN PROGRESS . . . COMMUNITIES IN MORE ADEQUATELY DEVELOPING THEIR RESOURCES

COUNTY AGRICULTURAL SITUATION

A DIRECTORY OF PINAL COUNTY ORGANIZATIONS WAS ASSEMBLED. THE PRELIMINARY REPORT WAS GIVEN TO THE MAJOR ORGANIZATIONS FOR THEIR REVIEW AND CORRECTIONS THAT THEY MIGHT HAVE. THIS IS DESIGNED TO HELP ALL COUNTY ORGANIZATIONS TO KNOW WHO MIGHT BE WORKING ON THE SAME OR SIMILAR PROJECTS. IT IS HOPED THAT IN THIS WAY THEY CAN BE BETTER COORDINATED AND MAKE MORE PROGRESS ON SOLVING LOCAL PROBLEMS.

NUMEROUS CONFERENCES AND PHONE CALLS WERE DEVOTED TO COUNTY SITUATIONAL STATISTICS. ONE OF THE MOST IMPORTANT WAS WITH A LARGE INSURANCE COMPANY THAT WANTED TO FIND OUT THE FEASIBILITY OF LOANING MONEY ON FARM LAND IN THE PUMP AREAS OF THE COUNTY. THIS COULD BE A VERY IMPORTANT ASSET TO THE VALLEY.

PARTNERS IN PROGRESS . . . COMMUNITIES IN RURAL-URBAN ISSUES

FARM-CITY WEEK

THE ACTIVITY OF FARM - CITY WEEK WAS MUCH LESS THAN IN PAST YEARS. TWO RADIO PROGRAMS WERE PRESENTED WITH A FARM - CITY WEEK THEME. THE FARM - CITY WEEK IDEA SEEMS TO BE SPREAD OUT MORE OVER THE YEAR. WE HAD REQUESTS AND ASSISTED IN THE PROGRAM OF A COTTON TOUR AND A DAIRY TOUR OF SCHOOL CHILDREN. THE COTTON WIVES GROUP IS VERY ACTIVE IN FARM-CITY RELATIONS.

FARM SAFETY WEEK

FARM SAFETY IS BEING PRACTICED MORE AND MORE BY FARMERS AND THOSE ASSOCIATED WITH FARMING. EQUIPMENT AND RELATED BUSINESS ARE CONTINUALLY STRESSING SAFETY. THE ONE BIG SAFETY ITEM OF 1967 WAS THE CAUTION OF USING BUTANE FUEL AS COMPRESSED AIR. MANY FARMERS HAVE DISCONTINUED THIS PRACTICE.

TWO RADIO PROGRAMS WERE DEVOTED TO SPECIAL ATTENTION TO FARM SAFETY.