

SANTA CRUZ COUNTY, ARIZONA
ANNUAL REPORT

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AGENT

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to
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EXTENSION ORGANIZATION AND PROGRAM PLANNING

Santa Cruz, the smallest county in Arizona, is a rural county located in the extreme south central section of the state on the Mexican border.

There is very little irrigated land in Santa Cruz County, as compared to other southern Arizona counties.

Ranching is the main agricultural enterprise with some alfalfa, grain and cotton being raised along the Santa Cruz River. Santa Cruz is one of the best ranch counties in the Southwest because of its abundance of grass, moderate temperature, and adequate rainfall.

Prior to March 1, 1959, Santa Cruz County was served by the Cooperative Extension Service staff from Pima County. An Extension Office was opened in Santa Cruz County on March 1, of this year, for the first time in over twenty years.

Bruce C. Kell, Agricultural Agent, started on March 1 and Connie Beth Hertzog, Home Agent came to the county on May 16.

Much of the efforts of both agents were devoted to explaining the purpose of Cooperative Extension service; what it has to offer; how it serves people; and who can benefit from its services. This was particularly true in the towns throughout the county. It is felt that satisfactory progress has been made, judging from the number of telephone and office calls received during the year.

In January, Dr. John W. Pou, Director of Cooperative Extension Service, University of Arizona and Glen Blackledge, Pima County Agricultural Agent, met with the Santa Cruz County Board of Supervisors for the purpose of considering the establishment of a county extension office in the county.

The Board of Supervisors unanimously approved the plan and proceeded to locate suitable office quarters. Temporary quarters were arranged in the Courthouse. On March 1st, new office was opened and records transferred from the Pima County Extension Office.

A. County Homemakers Council

Efforts were made to firmly establish the Santa Cruz County Homemakers Club Council in 1959. Mrs. Emily Quinn, Pima and Santa Cruz Counties Home Agent, worked on establishing and strengthening the status of the Council early in 1959 and the Agent has continued work in this area. Efforts were made to plan and carry out several events under the direction of the Council; some of these included the May Tea, (Installation of County Council Officers), the Homemakers First Annual Achievement Day and some special activities like club participation in the County Fair and a special interest meeting in "Outdoor Family Entertaining with Cookouts."

Plans for participation by the Santa Cruz County Homemakers at State Town and Country Life Conference were carried out

successfully. For the major "banquet" the Santa Cruz County Homemakers Council gave favors to everyone.

To carry the Council organization one step further, efforts will be made to establish permanent Council Committees to completely plan and carry through Council affairs and events.

Six County Homemakers Council meetings were held during 1959 with a total attendance of 44. The original council members comprise representation from the four Homemaker clubs in the county. Following this beginning council term, the election of officers will be conducted at a county wide meeting of the entire membership. A county Council officer serves for a two year period.

B. Clubs Planning of County Homemakers Program

In 1958 a planned county program was set up for 1959, 1960 and 1961. In order to determine the value of the program to date, (July 1959) and to revise the remainder of the program, if necessary, the Home Agent and Miss Jean Stewart, State Home Economics Leader, met with representatives from three of the clubs. At this evaluating session the Agent learned that the completed portion of the program had been of specific value to club members. Questions were asked of the representatives concerning each lesson they had received. For example, in the Health area of the program where "Posture and Exercises" was the lesson, the women reported that the lesson had been of specific value to them in "increased relaxation during and following my housework" and "I feel better at the end of the day if I practice good posture as I work." Evaluation

for the other areas, (Foods, "Moist Heat Cookery of Meats" and Clothing, "Selection of New Fabrics" was carried through and satisfactory results were obtained.

In September and November the Home Agent met with each club individually, to further determine, through questionnaire and personal contact the value of the completed program as well as to determine if any changes in the 1960 program were advisable. One major change resulted in the Clothing area and that is, the lesson "Wardrobe Planning and Accessorizing" was deleted and a series of workshops in "Simple Clothing Construction" was added.

The County Wide Home Economics program for 1960 is as follows:

Clothing - "Simple Clothing Construction" - in workshops
 Foods and Nutrition - "Selection, Preparation and Serving Cooked and Raw Vegetables" - Leader Training Meetings
 Home Management - "Better Methods for Use of Time"
 Health - "First Aid for Home Accidents"
 Special Interest Activities and Lessons - all workshops
 Foods - Workshop in "Yeast Breads"
 House and Surroundings
 "House Plants" (Home Beautification)

The points of emphasis in each subject area, Clothing, Foods and Nutrition, Home Management, and Health were selected by the Advisory Committee representatives and from this the Home Agent will prepare the material for the lessons to be given in 1960.

C. Clubs Planning of Local Programs for 1959

The January 1959 club meeting in 3 clubs was held to organize the clubs program for the year. The agenda included:

1. Appraisal of the County wide program for the year
2. Setting up committees to function for the year
3. Setting up club electives such as:
 - a. book reviews
 - b. reading of plays
 - c. club tours
 - d. activities entertaining husbands
 - e. community major project for the year
 - f. money raising activities for the year, white elephant sale, silent auctions, etc.
 - g. secret sisters

D. 4-H Council

Santa Cruz County has a very active 4-H Council composed of 4-H leaders, junior leaders, and interested persons who are not leaders. This council meets each month to plan their program and 4-H events. At their October meeting, the council elects officers and appoints committees for the coming year. Each of these committees functions very well with some assistance from the extension office.

The Santa Cruz County 4-H Council, by appointing committees to handle different phases, planned and conducted the following events:

1. Tenth Annual 4-H Fair. This is the largest single 4-H event of the year and a very successful countywide event during 1959. A beef barbeque committee served over 1000 meals during this one day event. A week after the 4-H Fair was over, the entire council acted as an evaluation committee and together with the agents, made plans for the 1960 fair including many improvements they felt necessary.

2. Four H Scholarships. As a result of much work on the part of the 4-H Council and 4-H members, two scholarships are awarded each year to graduating seniors with a good 4-H record. The Council has a scholarship committee that raises funds, publicizes the scholarships and selects the recipients. During 1959, Glen Schorr, Sonoita; and Rex Haverty, Patagonia, were selected as the recipients of scholarships.

The Santa Cruz Soil Conservation district also contributes to this scholarship fund, and is very interested in the 4-H program.

3. Judging and Demonstration Events. A special committee appointed by the council works with agents and does most of the work in setting up and staging a series of 4-H judging and demonstration days in preparation for 4-H Roundup in August.

4. Regional 4-H Leaders Conference. A 4-H Leaders Conference was held at the Rancho Santa Cruz in September. (This is a guest ranch 17 miles north of Nogales.) Leaders from Pinal, Pima and Santa Cruz Counties were in attendance. Santa Cruz County

leaders felt very honored to have this event in "our" county and assisted with this event. After the workshop was over, the president of the Council said, "I hope we can have this event here every year."

5. 4-H Achievement Night. This event is held in September each year. It is set up by the leaders council to honor leaders, and 4-H members who have done a good job during the year. Many awards are presented to 4-H members for their project work. This event is very impressive and one that is looked forward to each year.

6. Kickoff Supper. The entire 4-H council plans and executes a 4-H Kick off supper in October each year. This is the beginning of the new 4-H year. A planned pot luck supper is followed by a speaker, presentation of awards and election of officers.

This year, Director J.W. Pou, Arizona Cooperative Extension Service spoke at this event. The Kick-off event is attended by parents, leaders, 4-H members and friends of 4-H. 450 persons attended this year.

E. Leader's Training

The 4-H Council has not felt a need for leaders training meetings. The importance of 4-H leader training meetings were stressed by the agents resulting in a series of training meetings being scheduled for January and February 1960. As is often the case

when a council is left to plan, organize and execute a program by itself, many of the more basic 4-H aims and goals are left out. The Santa Cruz County 4-H leaders council is now aware of the need for more training and is eager to participate in these workshops scheduled for January and February.

F. Local 4-H Club Program

The Agents have met with each of the 4-H clubs and assisted them in preparing a club program of work for the entire year. Each club sent a copy of their program of work to the Extension Office so the Agents could prepare a master calendar of 4-H events. It is felt by the agents that a stronger local 4-H program is developing as a result of these programs of work.

G. Extension Program Planning Committee

There is no county wide program planning committee in Santa Cruz County to date. However, the Homemakers Council and 4-H Council assist the agents in developing programs in their respective areas. The agents, being new to the county, hope to have a county wide extension program planning committee organized during 1960, in order to have a much more effective extension program.

CLOTHING

The Homemakers clothing program was carried out primarily in the area of "Selection and Care of New Fabrics." This was the area selected by the Homemakers to receive greatest emphasis when the County program planning was carried out.

The Agent met each club in May and September and presented the information and demonstrations in two lessons. Purpose of the lessons follow:

1. To increase awareness of kinds of fabrics
2. Homemakers to learn to correctly select kinds of fabrics for a purpose.
3. Homemakers to learn the particular characteristics of various fabrics.
4. Homemakers to learn correct care of fabrics from man made fibers.
5. Homemakers to understand basis of the fabric labeling laws.

A brief subject matter outline for both lessons follows:

1. Selecting new fabrics
 - A. What makes a fabric
 1. The fiber-how it is made
 - a. natural
 - b. man made
 2. The yarn - how it is made
 3. Application of finish to yarns
 4. Weaving - how done
 - B. Characteristics Man-made fibers have in common

C. Comparison of man made fibers

1. Acetate and rayon
2. Nylon
3. Dacron
4. Vicara
5. Saran and Velon
6. Acrilan
7. Dynel
8. Fiberglass
9. Pellon

The material above was covered in the first lesson; the second lesson follows:

11 Care of Fabrics**A. Ease of care due to:**

1. Fiber
2. Weave
3. Finish
4. Blend

B. Laundry instructions

1. Blends
2. "Pure" fabrics
 - a. dynel
 - b. verel
 - c. nylon
 - d. orlon
 - e. dacron
 - f. acrilan

- g. fiberglass
- h. acetate
- i. rayon
- j. cotton
- k. corduroy and velveteen
- l. fleeces

C. Ironing instructions for the above

The lessons were presented by demonstration and discussion methods, with the demonstrations emphasizing major points. Illustrative material, pamphlets, pictures and samples of fabrics were used as teaching aids.

During the year the Home Agent worked with homemakers who requested assistance on their individual clothing problems; particularly in the clothing construction area. Home visits were made and these visits were valuable to the agent in enabling her to become better acquainted with more people in the county.

4-H Clothing work was carried out primarily on an individual or small group basis by the Agent during 1959. Several 4-H Home Economics project leaders are also Extension homemaker club members and they receive information in clothing and other areas which is applicable to 4-H project work. During May and June 4-H clubs members and leaders attended 4-H clothing project judging training sessions. Meetings were held in the Patagonia and Elgin areas for training purpose. The Agents have received excellent cooperation during the year from all leaders in setting up activities of this kind for 4-H members.

CROPS

Cotton

Santa Cruz County growers attended two meetings which were held for cotton growers from both Pima and Santa Cruz Counties. The program for one of these meetings considered methods of analyzing situations in relation to choosing A or B cotton allotment plans. Dr. George Campbell, University of Arizona Extension Economist and the Agent presented this program at Sahuarita. The second meeting was held in Tucson for the purpose of informing growers on the Pink Bollworm Eradication Program. Dr. J.M. Roney, University of Arizona Extension Entomologist, and Dr. George Wene, Cotton Insect Research worker for the University of Arizona, were the principal speakers at this meeting. A panel of cotton growers explained the financial plans for carrying on the program in Arizona. This panel included Messrs. Dan Clarke, William Rhodes, Robert Hale and Gibson Zeidler. The information program clarified many points which have a bearing on the success of Pink Bollworm eradication.

Cotton varietal and fertilization problems were discussed with individual growers. There is a strong trend for the adoption of the New Mexico 1517-C variety of cotton. A majority of growers state this is the variety they will plant this year. Some growers have grown 1517-C successfully during the past three years. There is also a strong trend for inclusion of phosphate fertilizer in the grower's cotton fertilization program.

The cotton varietal problem in the county appears levelled out

for 1960 with the major portion of the acreage to be planted to 1517-C. The W.R.-44 variety which appeared to have promise earlier has lost popularity during the past two years. The chief criticism of the W.R.-44 is its slow maturing habits according to county growers. Then, too, the high altitude cotton, 1517-C, has a slightly longer staple, besides being earlier maturing.

Nearly all growers in the county are planning to use a substantial amount of phosphate fertilizer in their cotton fertilization program. Messrs. Ed and Myron Clark agreed to leave some check rows in their fields so as to determine more adequately the benefits derived from the application of phosphate. They were also urged to leave some check rows for more easily determining the benefits being derived from nitrogen applications. Previous fertilization test demonstrations on the heavy soils have shown very little response to either phosphate or nitrogen applications. A fair response was obtained on the light soils. Then too, Verticillium Wilt greatly reduces the efficiency of fertilization of cotton. The heavy soils generally have the most severe wilt.

A Johnson grass control demonstration was set up on the E.R. Clark farm near Carmen in April. Two applications of Dalagon were put on by the agent and Howard Ray, Cotton Specialist, University of Arizona. Very good control of Johnson grass resulted. In July and August during the rainy season, some new growth resulted, but the treated area still looked better at harvesting time. There were no significant differences in yield between the treated and

untreated areas.

Range Management

Ranches were visited during the year for the purpose of discussing supplemental feeding of their range beef cattle. The long standing problem of cattle production being poor in relation to the growth of grass in the Canelo area was called to the Agent's attention. A meeting of cattlemen was held at Elgin. Supplemental feeding was one of the phases of range cattle management included in the discussion. The problem of poor results from good growth of range grass in the Canelo area was discussed.

A project designed to assist cattlemen in the Canelo area with their problem was outlined. It is suspected that the trouble is a trace element deficiency. Consequently the first phase of the project was sampling the range grasses during the four seasons.

Mr. Clint Mellor, a cattleman in the Canelo area, brought the same old problem to the Agent's attention last fall. Both grass and soil samples were taken from two areas on Mr. Mellor's ranch. Mr. Fred Draper of the Agricultural Chemistry Department, University of Arizona, analyzed the soil samples and Dr. Arthur Kemmerer of the University of Arizona Nutrition Department, analyzed the grass samples.

The soil sample analyzes showed only traces of nitrate nitrogen and available phosphates. The grass samples showed less than 1% protein and phosphates. Due to the extreme slow level of protein and phosphates in the grass, it has been recommended that supplemental

feeding of cottonseed meal be started earlier in the fall, and that 100 lbs. of steam bone meal be fed for each ton of cottonseed meal consumed. Further attempts will be made to encourage a trail on this supplemental feeding program.

This supplemental feeding program for range cattle recommended for cattlemen in the Canelo area was checked on. Mr. Clint Mellor was visited at this Canelo Hills Ranch. Supplemental feeding was started in January and Mr. Mellor stated that he would include 5% steam bonemeal in his supplemental ration along with vitamin A. Plans for 1960 include working with more ranchers on this supplemental feeding problem in areas where there are mineral deficiencies.

FOODS AND NUTRITION

In 1959 there was great emphasis on the area of Foods and Nutrition in the County Extension Service program. The nutrition and foods lessons were held in February and March on "Moist Heat Cookery of Meat" in April on "Freezing of Foods-Fruits, Vegetables, Meats and Poultry" a special interest county wide lesson; in September on "Entertaining at Home by Cooking Outdoors", a special interest county wide lesson; and in October on "Decorating Cakes for Special Occasions" a special interest county wide lesson.

As examples of the material used in each of these lessons, a complete outline of the "Moist Heat Cookery of Meat" lesson and the Outdoor Cookery lesson are included in this report.

To follow-up and carry through the 1958 Foods and Nutrition lesson, "Dry Heat Cookery of Meat," the Homemakers requested for 1959 the lesson, "Moist Heat Cookery of Meat". The high interest and enthusiasm from the first lesson continued and carried through the second.

This may be attributed to several factors:

1. Interest and value from the first lesson as previously reported.
2. Excellent assistance from Foods and Nutrition Specialist, Miss June Gibbs, in developing outline of the meeting; and understanding of and presentation of "Food for Fitness" in teaching nutrition.

3. Excellent bulletin, "Beef in the Family Menu", supplementary material used with Beef Bulletin in Moist Heat Cookery" and leader training outline.

4. Time spent by Home Agent in developing and preparing lesson.

5. Use of foods equipment in lesson presentation.

6. The leaders participated in the preparation, garnishing and serving of the meat dishes. Comment from leader: "We enjoyed the meeting more than any we have ever attended, both the training meeting and our club meeting; we got so much out of doing."

At the leader training meeting all four clubs were represented by 8 leaders.

The "Leadership Training Outline" contained:

1. Purpose

A. To discuss economical preparation of less tender meat.

B. To discuss importance of proper selection of meat.

C. To discuss importance of meat in diet.

D. To discuss stewing and roasting and combinations as to a method of meat preparation by moist heat.

E. To prepare meats as recommended and serve for comparison results.

F. Train leaders to give demonstrations on moist heat cookery of meat.

G. To plan complete menu using foods prepared.

11. Dishes to be prepared during the meetings.

Select dishes that you feel will benefit the families

of club members.

A. Roast

Pot Roast

Stew

Swiss Steak

B. Chicken in a cornbread ring

C. Hamburger Straganoff

III. Equipment needed

IV. What to do ahead of time

V. Demonstration

A. Discuss the importance of balanced nutrition in meal planning

B. Discuss how 3 meals a day furnish the daily food requirements.

C. Emphasize the importance of including economical cuts of meat in menu that have been interestingly prepared

D. Demonstration on the preparation of the suggested meal dishes

E. Workshop involving club members as participants in preparation of meat dishes.

1. Each woman assigned in teams to prepare a portion of a certain dish.

2. The teacher or leaders assisting the groups in their preparation as needed.

F. Results

1. Each team prepare and garnish their meat dish and

show to group

2. Discuss the meat dishes and their place in family menus

G. Serve each dish attractively and in an appropriate dish

H. Summary on the high points of the demonstration.

VI. Discussion on nutrition, economy, time saving and variety points to be included in family meal planning.

A. Nutrition:

Discuss the food guide, Food for Fitness, Leaflet No. 425

B. Economy:

Compare the cost of the prepared dishes as well as other methods of conserving the food dollar

C. Time Saving:

Emphasize the time saving features of combined dishes as well as advanced planning for the family meals.

D. Variety:

Show how simple foods can be made more appetizing and appealing by using variety in the method of preparation and serving.

VII. Suggested methods of presenting this demonstration to club.

A. Follow demonstration method as given in guide.

B. Combine demonstration and workshop method.

C. Demonstrate and have a showing of foods prepared by club members at home and brought to the meeting

D. Other

VIII. Reference material used in this demonstration

"Beef in the Family Menu" Circ. 259, Agricultural Extension Service, University of Arizona

"Supplementary Material Used with Beef Bulletin in Moist Heat Cookery"

"Money Saving Main Dishes" - Home and Garden Bulletin 43, USDA

"Food for Fitness" - Leaflet 424, USDA

Leaders Guide - Material given above

Leaders Report

The presentation of the lesson was as follows:

1. Introductions
2. Purpose of the lesson
3. Principles and methods of Moist Heat Cookery
4. Review of identifying cuts of meat
5. Illustration of economy and use of less tender cuts of meat through use of round bone roast for three meals

Another lesson in Foods and Nutrition "Outdoor Cookery" was carried out early in September. This was a special interest meeting open to any Santa Cruz County Homemaker and guest. There was much interest and enthusiasm shown by all who participated in this meeting.

Several factors contributed to the meetings success:

1. The excellent assistance of Miss June C. Gibbs, State Nutrition Specialist in working out a meeting outline; the dishes to be demonstrated as good teaching devices; efficient timing schedule; and giving the agent new ideas on using the "Food for Fitness" guide in teaching nutrition. Also the assistance of Mr. Bruce C. Kell, County Agricultural Agent in the presentation of the lesson.

2. The excellent leader training material used as well as the bulletins Balanced Nutrition for a Happier You, #267 and Beef in the Family Menu, #259

3. The use of the new foods equipment in presenting the lesson.

4. Time used by the Home Agent in developing and preparing for the lesson.

5. Members actual participation in the preparation, cooking and serving of the entire meal.

All of the Homemakers Clubs were represented with several members present. The training outline contained:

A. Purposes

1. To increase awareness of importance of planning nutritionally balanced meals for family patio dinners or picnics.

2. Homemakers to learn economical preparation of meals out of doors.

3. Homemakers to gain appreciation for variety of foods served outdoors.

4. Homemakers to increase skills in preparing dishes out of the house.

5. Homemakers to gain knowledge of economical and easy to make outdoor cooking equipment.

6. Homemakers to participate in preparing dishes for comparison results.

7. To encourage informal entertaining for family and friends.

11. Dishes to be demonstrated and prepared

- A. Charcoaled Ground Chuck Steak
- B. Corn on the Cob
- C. Bundles of Vegetables in Foil
- D. Baked Potatoes
- E. Cottage Cheese - Onion Dressing
- F. Celery Seed Butter Bread
- G. S'mores
- H. Barbequed Ribs
- I. Coffee Can Casserole
- J. Fruit "Kabobs"
- K. Meat "Kabobs"

111. Equipment to be used.

IV. Time schedule for work

V. Presentation of lesson

- A. Introductions
- B. Purposes of lesson
- C. Discussion of Good Nutrition
 - 1. Food for Fitness guide
 - 2. Planning nutritionally balanced meals

- D. Give demonstration of each dish.
- E. Participation by group in preparing dishes, (Following demonstration)
- F. Serve each dish attractively for comparison results.

V. References

- Beef in the Family Menu - #259
- Balanced Nutrition for a Happier You - #267
- Food for Fitness - USDA Leaflet 424
- Mimeographed lesson material

VI. Evaluation

Members reported much use of the information they gained, and the fact that their family have been cooking out together now." The Agent feels, from reports turned in by members, that the lesson was a valuable one to those who participated.

The results of the many foods and nutrition lessons may not be immediately measured all in leaders and members reports. To bring changes about in people's eating habits often takes a long period of time, particularly when cultural background is intricately involved.

Results of 4-H foods project work have been very gratifying this year. Two 4-H girls from Santa Cruz County were State winners in the Bread demonstration contest, this was an achievement for girls and it gave the 4-H foods project work a big boost.

Work with foods leaders was carried out on individual and group basis. Following is an example of a way in which Santa Cruz 4-H Home Economics leaders are trained.

A 4-H Foods Leader Training session was given by this agent, Connie Beth Hertzog, and Miss June C. Gibbs, State Nutrition Specialist. The leaders who attended gained information and materials for teaching basic nutrition in 4-H Foods Projects and the 4-H Favorite Food Show. The program presented followed the meetings held in other counties which introduced the 4-H Favorite Food Show in 1958.

Introductions and purpose of meeting	Connie Beth Hertzog
Nutrition in 4-H Foods Work	June C. Gibbs
Favorite Food Show Demonstration	June C. Gibbs and Connie B. Hertzog
Santa Cruz County's 4-H Foods today	Connie B. Hertzog
Foods Leaders project handbook	Connie B. Hertzog

(This was ad ed to the program. A handbook for 4-H Foods Leaders was compiled by the county extension office and it included all 4-H foods project books as well as reference bulletins and some teaching materials. This type of book should be very helpful to 4-H leaders in teaching the members new information and skills in their foods projects.)

What's New in 4-H Foods	June C. Gibbs
Buffet luncheon	
Rewards and problems of a 4-H leader	Mrs. Hortense Jimenez
4-H Activities involving a Food Group	Connie B. Hertzog
Group Discussion	

Due to the fact there were few 4-H Food Leaders present the Agent feels that follow up contacts are necessary in order for the leaders who were not able to attend the leaders training meeting will gain the information on the Favorite Food Show and 4-H Food project.

HEALTH

Posture and Exercise

Situation - In program planning the subject requested in the area of Health and community activities was "Posture and Exercises" although this program was given in 1957, two of the 4-H clubs have been organized since that time and the third club has had a considerable change in membership. The fourth club expressed interest in having the information repeated.

Objectives - The objectives in the lesson as set up in the 1959 plan of work were:

1. Learn good posture, general and specific exercises.
2. Have all clubs participate
3. Have members give this information to at least two people, neighbors, friends, etc.

Methods - The four clubs were represented by eight leaders at the leader training meeting. The meeting was conducted as a participated meeting with the leaders learning good posture, general exercises and specific exercises. Leaders were assisted through suggestions for presentation of the lesson, use of the lesson sheets and leaders reports.

Evaluation - The benefit of the lesson for the leaders was measured at this time are:

1. Receiving of lesson material, methods of presentation and report for evaluation.
2. Learning good posture and body line make up

3. Learning relationship between posture, exercises and good health

4. Learning specific methods of checking posture and maintaining good muscle tone through posture and exercise.

In 1960 the Health program will be in the area of First Aid Caring for Home Accidents." This area will be emphasized in all phases of the County Extension program of work.

HOME MANAGEMENT

In following the planned program for Homemaker Club members for 1959, a "What's New in Laundry" leader training meeting was given by the Home Agent to six Home Management project leaders in September. The project leaders in turn presented the lesson to their club members during October and November.

The subject matter for this lesson was compiled from information the Agent gained from the spring Laundry Workshops given by Miss Grace Ryan, Home Management Specialist.

The following is an outline of the material presented in the leader training meeting:

"What's New in Laundering"

1. Purposes of lesson.

- A. To learn to select suitable laundering methods and products in order to obtain best results.
- B. To understand problems encountered in laundry and means for their solution.
- C. To understand importance of proper laundry methods.

11. Subject Matter

A. Soil Removal - discussion

1. Easily removed soils
2. Hard to remove soils
3. Very hard to remove soils or stains

(Use USDA Home and Garden Bulletin #62 and demonstrate removing a stain)

B. Water Supply for laundry

1. Hard water and tests for determining same.
2. Softened water
3. Water Softener
 - a. mechanical - (drawings)
 - b. packaged - (demonstrated by agent)
 1. precipitating
 2. non-precipitating

C. Soaps and synthetic detergents

1. soaps -(illustrations of kinds)
 - a. built
 - b. unbuilt
2. synthetic detergents
 - a. built
 - b. unbuilt

D. Temperatures**E. Fabric conditioners**

1. Bleaches
 - a. optical
 - b. oxidizing
2. fabric softeners
3. bluing

F. Equipment

- A. Washers
 1. agitating
 2. tumblers

B. dryers

Presentation of the lesson followed the above outline and demonstrations were given to illustrate each of the important points of the lesson.

Project leaders used these additional materials for teaching the lessons.

"Help Yourself to Laundry Aids" - Circular 212

"Wash Your Blankets" - Circular 215

"Removing Stain from Fabrics" - U.S.D.A. Bulletin 62

III. Evaluation

According to the laundry problems which were stated by homemakers when this portion of the program was planned, this lesson was of specific value to them. As homemakers gained new information on solving laundry problems, they indicated to the agent the value of the information. For example, one said, "I never realized my water was so hard." Other comments were, "I knew the water was hard but didn't know what to do about it," and "I'll wash my blankets from now on."

HOUSE AND SURROUNDINGS, FURNISHINGS AND EQUIPMENT

In this area most of the work done in 1959 was carried out through special interest meetings and activities for Homemaker Club members.

County wide special interest meetings were planned and carried out in these specific areas:

1. Decorating articles for your home with textile painting. Homemaker club members made such items as towels, pillows, pillow cases, sheets, tea towels, aprons and dresser scarves. This meeting was held because of numerous requests the agent received concerning this activity.

2. Copper tooling pictures for the home was a special lesson taught by Mrs. Myrtle Gray, a homemaker club member from Pima County, and the Home Agent. The agent hopes the skills taught in these lessons will be of value to club members in their homes.

Both of the above special lessons were chosen by the club members to be given during the summer when clubs have free choice of subject matter for their lessons at club meetings.

In Home Furnishings, most of the work was carried out with 4-H club members on an individual basis because of the small enrollment in Santa Cruz County.

For the county 4-H Elimination day, Home Furnishing judging activities were set up for participating club members.

Many homeowners throughout the county are showing an increase interest in Home Landscaping and Home Ground Beautification. During 1959, work on lawns, shrubs, flowers, and pruning was done on an

individual basis.

A series of pruning demonstrations have been set up for January and February 1960. Plans are also underway for a county wide Landscaping demonstration and a workshop type meeting on House plant and Annual Flower culture. This will be done in Cooperation with local nurserymen, State Extension Horticulturist and County Extension Agents.

LIVESTOCK**Beef Cattle**

Mr. Ted Welchert, University of Arizona Extension Engineer and the Agent visited cattle feeders for the purpose of checking on tallow feeding. The tallow melting plan used by Mr. Gerald Palmer and Tom Noonan at Amado, was designed by the University of Arizona and installed as a demonstration last year. The system is working very efficiently. Tallow feeding is considered as a profitable practice by the two cattle feeders who have been feeding it for the past 2 years.

Mr. Gerald Palmer of the Agua Linda Ranch is using two of the new screw worm control preparations as test demonstration. This is in cooperation with Dr. J.N. Roney, Extension Entomologist for the University of Arizona, and is under his direction. The material is Dow M-1268 Screw Worm Smear and Co-Ral Spray which was sent to the Agent by Dr. Roney. Several head of feeder steers were dehorned in early January, and all became infested with screw worms. This is an unusual season for screw worms to appear at this altitude. The results from the use of these two new control preparations will be watched with interest.

There is considerable interest in water evaporation retardation in stock tanks on several ranches. During 1960, work will be done with ranchers in measuring the rate of evaporation and treating tanks to help conserve water during the early summer months.

4-H Livestock

Most 4-H Livestock projects in Santa Cruz County are market or fat animal projects. Steers are purchased in October. Lambs and hogs are put on feed in November. These animals are fed and cared for until they are auctioned at the 4-H fair in April. The Agricultural Agent, Bruce C. Kell, arrived in the county six weeks before the fair last spring. 4-H project tours were scheduled for the purpose of teaching the members how to prepare animals for the show. A steer grooming demonstration, a lamb trimming demonstration, and a hog showing demonstration was given in each 4-H club during March. Several individual lamb trimming demonstrations were also given. As a result of these method demonstrations, 4-H members have already begun to "block" their lambs for the 1960 Fair. They seem to enjoy doing it after learning how.

Beef Heifer projects were encouraged in the livestock clubs throughout the county this year. The 1960 4-H enrollment show a 50% increase in beef breeding projects. It appears to the agent that breeding projects are more practical in a ranching county. Beef Breeding projects along with herd selection and management will be stressed among the 4-H members living on ranches during the coming year.

4-H Livestock judging was stressed during the year. All 4-H Livestock members in the county participated in judging sessions during the year. 4-H leaders, parents, and extension agents

participated in these events. Three 4-H members participated in the Livestock judging contest in January at the Arizona National Livestock show in Phoenix.

IN SERVICE TRAINING OF AGENT

1. Miss Jean M. Stewart, State Leader Home Economics, held several conferences with the Agent for purposes of Agent training on the following subjects: program planning; Extension program evaluation; County Plan of Work; Project leader training and reports.

2. Miss Helen Church, Clothing Specialist, held 3 day sessions of "Sewing Machine Workshop" for 7 Home Agents from the southern counties, in May at the University of Arizona. Each learned how to clean the three types of machines, rotary, oscillating, and the vibrator.

3. Miss June C. Gibbs, State Nutrition specialist organized and held a State Nutrition conference in March, which the agent attended.

4. Miss Grace Ryan, State Home Management Specialist organized and held a three day "Laundry Workshop" in February which all Home Agents attended.

COMMUNITY DEVELOPMENT

There have been several major events in Santa Cruz County during 1959 that have increased awareness of the presence of Cooperative Extension Service in the county. Each of the following events has received notable publicity which in turn has helped to publicize the county cooperative extension service program.

1. County 4-H Fair. More than 100 persons attended this one day event to view exhibits, see the 4-H members in action or to purchase 4-H market livestock. This is the largest single 4-H event of the year, and is a county supported 4-H show window.

2. May Tea (Homemaker). The Homemakers club program was strengthened in 1959 with the establishment of a county homemakers council in January. On May 1, the newly elected officers of the council were formally installed. A tea and reception followed honoring the council members. The tea was a kick off for National Home Demonstration week, and gave the Homemakers program a boost. Each year a tea will be held in observance of National Home Demonstration week.

3. 4-H Elimination Days. Judging and Demonstration days were held for all 4-H members during 1959. In July a final judging and demonstration day was held in Nogales.

Home Economics judging classes were set up in each subject area by local leaders and agents. 4-H members gave demonstrations

in Home Economics and livestock divisions.

Winners were selected in judging and demonstrations to represent Santa Cruz County at 4-H Roundup in August.

This event was attended by most of the older boys and girls, 14 years and older, and several of the younger members. Many of the 4-H leaders are using judging and demonstration techniques in their local clubs to teach boys and girls better project methods.

4. 4-H Camp. Twenty seven Santa Cruz County 4-H club members participated in the 4-H camp program in July at the Chiricahua Mountains Pine Canyon Camp. These members gained many new ideas and skills through hiking, vespers, cooking out, recreation, crafts and classes that were held during 4-H camp. Camp is one of the most "talked about" events of the entire year. Santa Cruz County has camped with Pima and Pinal Counties in the past, but if interest keeps increasing we will be able to camp as a county unit in the near future.

5. 4-H Roundup. Sixteen 4-H club members from Santa Cruz County attended 4-H Roundup at the University of Arizona in August. Delegates participated in the following activities:

Livestock Judging - Victoria Grennan, Glen Schorr, John Schorr
 Beef Fitting and Showmanship Contest - Glen Schorr and Herbert

Wisdom

Home Furnishings Judging - Sue Van Gorder

Advanced Room Improvement - Sue Van Gorder

Food Preparation Judging - Bertha Jimenez, Jeanne Urschaltz
and Sue Van Gorder

Clothing Judging - Sharon Haverly, Boulton Mellor and Sandra
Mellor

Food Preparation Demonstration - Mary Lou Jimenez, Margaret
Jimenez as a team and Linda
Urschaltz, individual

Livestock Demonstration - individual - John Schorr; team - Raul
and Ernesto Bejarano

Entomology Demonstration - Tony Mellor

All of the delegates received some very valuable training in
demonstration and judging techniques, which will help them in future
4-H work.

6. Regional Leaders Workshop. Santa Cruz County 4-H leaders
all participated in the Tri-County 4-H Leaders Workshop in September.
This event took place at the Rancho Santa Cruz, near Tumacacori.
Santa Cruz 4-H Council was host to the conference and all "our"
leaders worked very hard to make it a success since this was the
first event of this kind to be held in Santa Cruz County. The
Elgin 4-H Mustang club gave a model business meeting demonstration.
Five leaders from Santa Cruz County presented a panel discussion
on "Individual Opportunities Through 4-H".

This event was especially valuable to leaders from Santa Cruz
County since most of them are new to 4-H club work. The information

gained in local club organization, planning, state and county events, awards, and contests, is being put to very good use in the county at present. One result of the conference is that the leaders felt an increased need for 4-H leader training, and the county council is presently working with the agents in setting up a series of 4-H leader training sessions early in 1960.

7. 4-H Achievement Night. This 4-H council sponsored event held in September is for honoring outstanding 4-H work and leadership. The County Council presents every year at this event, awards to members for outstanding work in each of the project areas. The best Home Economics and Agriculture demonstrations were given at this time. This event acknowledges 4-H members past achievements and encourages them to continue striving toward further achievement.

8. Santa Cruz County Fair. The Extension staff assisted the county fair commission in planning and staging the annual county fair in September. This fair is a new and growing event in Santa Cruz County and everyone learned through experience this year. Many improvements are on the agenda for the 1960 fair.

9. Kick-off Supper (4-H). This is an annual event looked forward to each October. 4-H leaders are honored for their efforts. The enthusiasm shown by the entire county for this event makes it a pleasure for the agents to participate. This meeting sets the pace for the entire year in Santa Cruz County.

10. Homemakers Annual Achievement Day. The Homemaker Council planned and carried out their first achievement program in November.

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10. Homemakers Annual Achievement Day. The Homemakers Council planned and carried out their first achievement program in November. Three clubs set up booths depicting portions of the work they had accomplished during 1959. A planned pot luck luncheon was followed by the presentation of club achievement awards and the naming of the Santa Cruz County's "Homemaker of the Year", who was Mrs. Jean Fyock, Nogales.

The club booths and a special contest of decorated cakes, were judged and ribbons awarded. Judges were Miss June C. Gibbs, State Nutrition Specialist and Mrs. Emma Arriaga, local PTA President.