

S A N T A C R U Z C O U N T Y

COOPERATIVE EXTENSION SERVICE

A N N U A L N A R R A T I V E R E P O R T

SUPPLEMENT

Period - April 1, 1964 through August 15, 1964

By

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F O R E W O R D

This report deals with the Program and Activities in Santa Cruz County by the Staff of the Cooperative Extension Service and People of Santa Cruz County.

Special Acknowledgment should be given for the support and interest and work efforts shown by the hospitable people of Santa Cruz County, during this time of my substituting for Mr. Bruce Kell who was on sabbatical leave during this period - April 1, 1964 to August 1, 1964.

Help given by Home Agent Mrs. William Hagler was a major contribution to organization, development, and accomplishment of Extension - Helping Santa Cruz County people - through informal education program.

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A G R I C U L T U R E  
F I E L D C R O P S

COTTON

"Why the lowering of yield of cotton from 2 bales per acre to 1 bale per acre in the last several years?" A question asked by cotton growers around Tumacacori.

Nematode damage, fertility, cultural practice and management perhaps is involved or partly involved. A demonstration involving two fumigants in cotton was initiated in May. A fertilization program using petiol analysis followed by the grower; cotton production data taken and results evaluated and extended at county level being the proposed objectives and for use as greenchop.

SUDANGRASS

Rancher's Interest In Maximum Forage Yields.

Sudangrasses for forage as a grazed crop, hay, siliage, or possibly green chop seems adaptable and advantageous as an additional forage crop, useful to livestock operations located along the Santa Cruz River. Many are irrigated pasture operations.

Maximum forage production, and utilization is desirable on this high priced land. Sudangrass (crosses, hybrids) can offer a volume of forage produced in a short period which can supplement other sources of feed.

A demonstration involving common Sudangrass, a Sudangrass Hybrid and a true Sudan variety was planted May 8, 1964 at the San Cayetano Ranch. Forage production under typical management conditions was demonstrated and results of the first harvest August 6, when varieties were flowering, are shown in the table.

SUDANGRASS, SORGHUM-SUDANGRASS  
(Crosses - Hybrids)

FIRST CUTTING

\*Yield, pounds per acre - based on 1/1000 of an acre sample per replication.  
(see following table)

FIELD GREEN WEIGHTS

Variety	Rep. 1	Rep. 11	Total	Average	Rank
Sweet Sudan	21,200	19,400	40,600	20,300=	4
Trudan	35,400	20,000	55,400	27,700	1
Lindsay 77F	20,700	23,500	44,200	22,100	2
Hydan	26,700	16,000	42,700	21,350	3

The sample of various varieties were harvested at the San Cayantano Ranch, Tumacacori. Comparison in yields were determined on a field green weight bases. On a green weight basis, Trudan was first in yield followed by Lindsay 77F, Hydan and Sweet Sudan, in that order. Further analysis will be determined; yields in pounds per acre of dry matter, protein content and fiber analysis.

General observations:

1. Wide variations between replication due to sand streaks in this soil type along the Santa Cruz River.
2. Fertilizing with Nitrogen at time of planting would have helped stand establishment. Split applications of Nitrogen fertilizer instead of one application perhaps would have increased production.
3. Increased yields of Trudan may be due to better density then to top growth.
4. Maximum forage production within a short growing period is obtainable.

It is felt further evaluation of the demonstration will lead to more concrete means of producing Sudangrass (crosses hybrid) adaptability.

LIVESTOCK PROBLEMS - is NO3 Involved?

Some problems with un-thrifty Santa Gertrudes calves are being followed, Water, pasture and soil sampling have been taken as part of the NO3 and nutritional picture. Nutritional trouble through the mother cows is suspected, however, the <sup>why</sup> when and how, is left to be answered.

RANGE MANAGEMENT

Range Management and Range Improvement Potential Investigated.

In April, Barry Freeman, range management specialist, University of Arizona, and Agent S. Sherwood Winans looked over part of the county range land resources (San Rafael area). Future program possibilities of range improvement were discussed not only because "Range" represents a major area of the county, but because quality of grassland may lend well for potential grassland improvement. A practical approach will be an important aspect of future range management work.

Elgin Herford Ranch for example, is interested in a range fertilization trial, using ammonium sulphate.

## Rangeland Problem - Grasshopper Control Needed?

August preliminary surveys were made by Agents Kell and Winans, concerning grasshopper build-up in the Elgin Patagonia area. Preliminary counts of the grasshopper populations indicate control measures could be considered. However, cattle prices being low and prospects of a good forage year, ranchers were hesitant to control grasshoppers.

## Weed Control

Bindweed, often a problem along ditch banks, spreading to adjacent fields was controlled using T.B.A., liquid and granules. Perhaps uneconomical for large areas but spot treatment looks effective. A demonstration with Myron Clark, cotton grower at Tumacacori, showed T.B.A. at 20#/acre in granular form to be better than the 10#/acre rate. Applications were made in later May when Bindweed was 10 inches in length.

# Y O U T H D E V E L O P M E N T

## O R G A N I Z A T I O N

### 4-H LIVESTOCK PROJECTS WELL SUPPORTED!

An active 4-H Council with several committees to support 4-H Program exists. An example, is the Livestock committee, which in April planned and carried out a 4-H cattle sifting program. All five committee members gave up a Sunday to look over county-wide 4-H cattle projects.

Objective: To be sure 4-H beef project members get a good start on feeding projects. The Agricultural Agent was introduced to committee members, parents and 4-H members by the initiative of committee chairman, Bill Piper. The 100% committee turnout at a later planning meeting was also encouraging.

### COMMITTEES PLAN 4-H ACTIVITIES

DEMONSTRATION HELP DAY  
4-H COUNTY ROUNDUP

The Activities and Events Committee aided measurably in planning the 4-H County Roundup. Involving more people in the planning with more leadership involved in events, was a specific goal. Personal contact approach by Agents and 4-H Leaders to enthruse 4-H members and parents, was their initial step taken.

Also Special Projects Committee organization meeting was formed to encourage Electricity, Woodworking, Leathercraft, Entomology, Automotive and Range Management projects. A suggested agenda was presented and discussed. Leaders of 4-H Clubs in Elgin, Patagonia, Tumacacori and Nogales supported the idea of having Leathercrafts, Woodworking and Electrical judging in a Demonstration Help and Judging Day, scheduled for May. Leaders from Patagonia, Tumacacori and Nogales agreed to help promote, contribute material, and conduct part of the program.

### A C T I V I T I E S A N D E V E N T S

#### DEMONSTRATION HELP DAY SUCCESSFUL.

Participation, interest, turnout and enthusiasm for Demonstration Help and Judging Day was ~~well~~ represented by three clubs, Nogales Pioneer, Nogales, Muskrat and Elgin Mustang Clubs. Practice judging in Woodworking, Electricity and Leather was successful to the extent of the club leaders, members and parents all participating.

#### SANTA CRUZ - PIMA COUNTY 4-H'ERS GO CAMPING!

4-H Camp held at Pine Canyon in the Chiricahua Mountains, June 22-26, 1964 gave members and leaders an opportunity to learn to live and enjoy camping. Program included crafts, live and learn workshops on topics from first aid to nature study. Special Vespers, evening programs around the campfire, folk dancing, and hikes were highlights of the five days. Four Junior leaders from Santa Cruz County went as staff members and were responsible for program and camping groups.

## FIRST ANNUAL 4-H ROUNDUP A SUCCESS

### Record Turnout at 4-H "LEARN BY DOING" Event

A record turnout of Santa Cruz County 4-H'ers, leaders, parents and friends participated in a 4-H "Learn by Doing" event, at the County Fairgrounds in Sonoita. Ray Weick, 4-H specialist from the University of Arizona, did the judging.

4-H Project demonstrations, livestock and home economics judging, electricity, leathercraft, woodworking, livestock demonstrations and horsemanship took place with an attendance of about 150 people.

The dress revue, 4-H public speaking and a lively talent show were the Sunday afternoon highlights. Miss Jackie Bailey of the Tumacacori Valley 4-H Club was winner of the dress revue and will compete with other county winners at the state roundup to be held at the University of Arizona, July 27-31.

An enthusiastic audience heard five 4-H public speakers who each prepared his own speech for presentation. Miss Dee Dee Thomas of the Muskrat Club came away as blue ribbon winner.

Beef showmanship will be represented at the University of Arizona by Miss Penny Baffert of Nogales, and Danny Mellor of Elgin. Lamb showmanship will be by Edward Jimenez, also of Nogales.

Talent by the lively and creative members from the Whitewing, Pioneer and Muskrat 4-H Clubs gave a special boost to the program songs and dances. The Harshaw Whitewing group was presented with a special award for a dance which, intentionally or unintentionally caused a terrific rainstorm, greatly appreciated by cattlemen present. With electricity restored, the show went on.

The Parade of Stars featured the blue, red and white ribbon winners of each division. Demonstrations - Tommy Piper, Jay Hudson, Bill Hudson, Bob Hudson, Bill Spitzer, Richard Spitzer, Louis Padilla and Linda Brooks, blue ribbons. Teddy Piper, Ray Spitzer, Alice Legleu, re ribbons; Larry Arthur, Ray Schock and Jack Farr, white ribbons.

Home economics judging; Clothing I, Loretta Hamm, blue ribbon; clothing II Cathy Bidegain, blue ribbon; clothing III, Linda Brooks, Bertha Jimenez, Barbara Swyers and Dee Dee Thomas, blue ribbons. Foods I, Anna Trujillo, blue ribbon; advanced foods, Bertha Jimenez, Margaret McChesney and Karen Mott, blue ribbons.

Agriculture awards: electric judging, Mark Wetten and Geoff Millar, blue ribbons; woodworking, Jay Hudson, Richard Moss, Bill Hudson and Bruce Wetten, blue ribbons; leathercraft, Clinton Haverty and Bill Hudson, blue ribbons.

Livestock judging: Teddy Piper, Bill Schock and Bill Hudson, blue ribbons; livestock judging (without reasons), Nori Baffert, Blue ribbon; horsemanship, Jay Hudson, Bob Hudson and Ted Noon, blue ribbons.

Baseball in the fairground arena, mud and all, followed the close of the program. A "Welcom-All" potluck provided the evening meal, successfully managed by the Patagonia Apache 4-H Club, with food contributed by all the county 4-H Clubs. Hal Gras, of the Arizona-Sonora Desert Museum, provided the evening program, "The Desert Ark". Live wild animals and a descriptive presentation



with humor held the audience's interest from start to finish.

Extension Agents, S. S. Winans, Agricultural Agent, and Mrs. Billie Hagler, Home Agent, were proud of the hard work and support by all the many leaders and parents who worked and gave generously of their time.

#### CALIFORNIA 4-H CLUB TOURS COUNTY RANCHES

Several 4-H members and their leader, Albert Bizzini, from Merced County, California, were given a tour of Santa Cruz County by Agricultural Agent S. S. Winans. Santa Cruz County was their first stop on a tour of the various 4-H operations in Arizona.

The group spent Wednesday morning visiting different ranches in the area and discussing 4-H projects with the Santa Cruz 4-H'ers. .... Among the ranches visited were the homes of Mr. and Mrs. William Baffert, Nogales, and Mr. and Mrs. Archie Bailey in Tumacacori. Mr. and Mrs. Jay Hudson of Patagonia were hosts to the group for luncheon.

Of interest to the visitors were the Santa Gertrudis cattle which are not well-known in their area.

#### COUNTY 4-H MEMBERS ATTEND STATE ROUNDUP

Eighteen 4-H boys and girls from Santa Cruz County are attending the State 4-H Roundup at the University of Arizona. They were Bill Baffert, Penny Baffert, Barbara Swyers, Bertha Jimenez, Edward Jimenez, Page Bidegain, Jackie Bailey, Clint Haverty, Richard Spitzer, Bill Schock, Mark Wetten, Geoff Millar, Danny Mellor, Karen Mott, Jay Hudson, Bob Judson, Dee Dee Thomas and Linda Brooks.

#### 4-H STATE ROUNDUP WINNERS

The Santa Cruz County delegation to the state 4-H roundup at the University of Arizona, really outdid themselves by picking up a good share of the awards and blue ribbons.

Miss Dee Dee Thomas, daughter of Mrs. Lucille Thomas, River Road, topped 12 other contestants to win the state 4-H public speaking contest. Miss Thomas a member of the Santa Cruz Muskrat 4-H Club, was a featured speaker at the Annual Recognition and Awards Banquet Thursday night, at the campus. She was presented with the Child and Clover Award, which is the highest award given in each event.

In Beef Showmanship, Miss Penny Baffer and assistant, Danny Mellor, received blue ribbons. Miss Baffert is a member of the Santa Cruz Muskrat Club, and Mellor is from the Elgin Mustang 4-H Club. Both 4-H'ers had outstanding beef projects this year.

In the Home Economics division, Miss Page Bidegain of the Elgin Mustangs, received a blue ribbon for her clothing demonstration. In the judging events, Miss Bertha Jimenez was awarded a blue ribbon in foods judging and Miss Linda Brooks, a blue award in clothing judging.

Miss Jimenez represented the Santa Cruz Muskrat Club and Miss Brooks, the Patagonia Apache Club.

These youngsters worked hard on their individual projects all year long for the honor to compete at the state roundup. The evidence shows that their efforts have paid off.

## L E A D E R S P L A N

### FAIR PLANNED BY 4-H LEADERS

The Agricultural and Special Projects Committee and the overall Activities and Events Committees met. Both of these committees have functioned in planning for the Fair - October 2, 3 and 4, 1964. It was felt if they were involved in planning the Fair Book Revisions, enthusiasm and more participation would result.

Chairman Mott of Patagonia called an informal meeting and electrical, leather craft, and entomology exhibits were increased. The photography project, 4th year, was also added.

This Year's Program was evaluated and several objectives were kept in mind:

1. Encourage exhibiting and participation in agricultural exhibits other than livestock.
2. Encourage maximum participation of 4-H leaders in deciding what should be in the Fair Book.
3. Try to coordinate county thinking about the feeder sale as well as the 4-H sale.
4. Explore the possibility of a 4-H Fair booth.
5. Coordination of 4-H horse activities.

### 4-H FAIR BOOTHS SUGGESTED

Both Agents - Winans, Mrs. Hegler - proposed to the Activities and Events Committee that individual clubs put up a fair booth emphasizing some 4-H Theme this year. Perhaps one or two booths. The educational idea behind this - to allow 4-H Club members the opportunity to illustrate their creativeness besides displaying their work in Home Economics projects, Agricultural Projects, such as Woodwork, Leather Craft and so forth. Team work from individual clubs is desirable and this type of participation would be a beneficial activity at the County Fair.

L - H P R O G R A M I S

M O V I N G F O R W A R D

\* L-H PROGRAM HAS STRONG APPEAL FOR  
YOUNGSTERS IN THE COUNTY.

\* L-H ENROLLMENT IS UP AND GROWING!

226 MEMBERS

44 LEADERS

7 CLUBS

\* LEADER COMMITTEES INTERESTED AND  
FUNCTIONING

\* NEW L-H ACTIVITIES HAVE STRONG  
SUPPORT BY MEMBERS AND  
PARENTS

A G R I C U L T U R A L

P O T E N T I A L

L O O K S G O O D

\* R A N G E I M P R O V E M E N T P R O J E C T S L O O K  
F A V O R A B L E .

\* I N T E R E S T F O R P O S S I B L E F E E D E R  
S A L E D E V E L O P M E N T G O O D .

\* A P P A R E N T I N T E R E S T I N I N C R E A S E D  
W A T E R D E V E L O P M E N T A N D U S E .

\* A C T I V E I N T E R E S T I N I N T E N S I F I E D  
M A N A G E M E N T P E R I N C O M E U N I T .