

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

O F

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COUNTY AGRICULTURAL AGENT

PINAL COUNTY

ARIZONA

FOR YEAR ENDING NOVEMBER 30, 1940

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### Summary of Work in Brief

We have accomplished more this year than in previous years, in part thru less time being required for A. A. A. work, but chiefly thru more effective farm leadership. In 1940 we have the strongest farm bureau that we have ever had, with 176 paid-up memberships on a \$5.00 basis. Forty-five men and two women have effectively acted as leaders in carrying on work in our several projects. Three hundred and seventy-six farm visits were made and 1771 office and telephone calls handled. Thru an efficient bulletin rack arrangement more bulletins were distributed than ever before, selections being made by the farmer. Our pure-seed program has expanded rapidly with most splendid cooperation. Thru County Land Use Planning sixteen leaders have worked with our several specialists in collection and recording of much valuable information on the agriculture of the county. This leadership has been particularly outstanding. Our 4-H Club Work, while showing little increase in enrollment, has improved materially in quality of work done and percentage of completions.

Thru farm bureau committees effective work has been done in maintaining hay and pasture prices. Our work in the development of a livestock feeding program based largely on individual small operators feeding on their own farms has been hindered by water shortage. The ground work, however, has been laid and we can do much in this direction with an increased water supply.

We have developed wide interest in improved levelling and irrigation of farms. Eighty-one farmers used our office levels during the year in better laying out their lands for irrigation.

In talks before farm bureaus, civic clubs and commercial organizations the Agent has endeavored to inform businessmen on the necessity of the farm program and its value to them. Effective assistance has been rendered the

local and state officials of the Agricultural Adjustment Administration in carrying out their program, the Agent acting as Secretary of the County Association.

Largely thru meetings and judging demonstrations we have assisted in the development of our dairy industry. Problems of breeding, feeding, selection, testing and marketing have been worked on with the cooperation of the specialist.

### III. The Agricultural Situation in Pinal County

The 1940 season has on the whole not been an average one, chiefly on account of shortage of both gravity water on lands of the San Carlos Project, and power on lands of the several electrical districts and other pump areas. The effect of this water shortage may best be illustrated by the difference in yields of the major crops, upland cotton and American-Egyptian cotton. In 1939 the yield of the former exceeded 600 pounds of lint per acre on the average, and the American-Egyptian cotton averaged 360 pounds. With picking now about one-half thru, it is possible for a somewhat accurate estimate of probable yields to be made. Upland cotton will yield about 500 pounds per acre, and American-Egyptian will yield not more than 250 pounds.

This does not tell the entire story. On project lands as well as some of the pump lands the cotton crop was matured at the expense of alfalfa and other crops. A very limited acreage of grain sorghums were planted, and the supply of hay and other feedstuffs is the smallest on record. Power was allocated on a basis of so many hours per week, at one time being held at 54 hours instead of 168 hours had power been available. This power shortage developed early in the summer and it is conservatively estimated that not less than one-half million dollars was spent by farmers for engine equipment with which to pull their pumps. In many cases the engines were installed at such a late date that severe damage had been done to the growing crops.

Before the cotton growers of the county can begin counting their profits they must of course deduct expenses of production, plus this added burden of cost of engines, direct connected heads, etc. In many individual instances their operations will be carried on at a loss.

A saving feature is the fact that American-Egyptian, presumably because of War in Europe, is in a favorable position with imports extremely limited, a 7-cent tariff on importations, and increased domestic demand because of preparedness activities. At the date of the writing of this report this cotton, grading No. 1 and No. 2, is bringing in the neighborhood of 29 cents per pound.

The water shortage, plus greater insect damage, delayed picking because of shortage of pickers, and more than normal rainfall, has greatly reduced the grade of upland cotton, the best of which if sold is being bought at about 100 points off market quotations. As a result much of the best cotton is being put into the government loan, and growers are inclined to sell the lower grade cotton. To date not much has moved though a slightly better market is anticipated.

Approximately 26,000 acres of new farmland was put into crop during 1940. This development has largely been in areas of higher lift of pump water, and in some cases on land not so well suited for cultivation and heavy production of crops as lands put in during 1936, 1937, 1938 and 1939. While it is now too early to estimate what acreage of desert lands will be brought into cultivation in 1941, reports indicate that there will be several thousand acres. All this new development is in large units, but there has been a notable increase in the requirements of this office.

Farmers have this fall not planted soil-building crops to the extent that they were planted last year. New stands of alfalfa in many cases died out last year because of the water shortage, and growers are reluctant to further increase their plantings until it is justified by a larger supply of stored water and more ample power.

With a somewhat similar water and power shortage in the neighboring Salt River Valley, there has been a ready demand for pasture and the Pasture Committee of the Pinal County Farm Bureau has been able to establish prices of 2 cents per head until January 1st, and  $2\frac{1}{2}$  cents thereafter. These rates compare with rates of  $1\frac{1}{2}$  and 2 cents last year.

The production of turkeys in the county this year will be about the same as last. There has probably been a slight decrease in the number of hens kept.

Water shortage in neighboring areas has resulted in some growers coming to this area to make their plantings, and there will be an increased acreage of vegetables, largely carrots.

The dairy business shows a continued and steady growth. A survey made in connection with the County Land Use Planning Report indicates that there are 2423 milk cows, approximately one-sixth of which were dry at the time the survey was made. There were eighteen commercial dairies milking 1,003 cows which were producing 3,040 gallons of milk daily. Of this 2475 gallons were shipped to Tucson and other southern Arizona points. The average production was three gallons per day. This increased marketing in Tucson and other Southern Arizona areas has largely come about during the past five years, as at that time less than 700 gallons daily were shipped to that market.

As one looks toward the new year the major problem is water. Only about 10,000 acre feet of water is now available in the Coolidge Dam, though this may be augmented at any time by winter rains, so plenty may be available by planting time. A new generating plant is being constructed by the Salt River Valley Water Users Association, which serves this area, and it is hoped will be in power production early in 1941.

#### IV. Status of County Extension Organization

##### 1. Form of Organization - Changes and Development

Work in Pinal County is being carried on largely thru the Pinal County Farm Bureau. There are two active locals meeting regularly each month, with the exception of the three hot summer months, and they have a total membership of one hundred and seventy-six. Membership is on a basis of \$5, 50 cents of which goes to the National Federation, \$2.00 to the Arizona Farm Bureau Federation, and the balance of \$2.50 to the local and County Farm Bureaus. The County Farm Bureau Board of Directors is composed of three delegates from each of the two locals, and this board carries on the business of the County Farm Bureau.

The County Farm Bureau thru its several committees cooperates with this office. They maintain committees on Legislation and Taxation, Alfalfa and Pasture, Cotton, Dairy, Labor, and Underground Water. Special committees are appointed from time to time when need for them arises. The work of the locals also is largely carried on thru committees. Cooperation with this office has been splendid.

##### 2. Function of Local People, Committees and Project Leaders in Developing the Program of Work

All work carried on by the County and local bureaus is thru committees. The Agent acts as secretary of many of these. This method is giving good results. Project leaders assist in carrying to completion the various projects of this office.

3. The relationship between the County Agricultural Agent's office and the County and local farm bureaus is most cordial. The farm bureau works with the Agent in matters which are helpful to the agriculture of the county, and the work accomplished this year has been greater than last.

#### V. Program of Work, Goals Established, Methods Employed, and Results Achieved.

##### 1. Factors Considered and Methods Used in Determining Program of Work.

Extension projects upon which work is to be done are outlined as the need for them develops. From time to time various projects are completed, or discontinued, and carried on as Miscellaneous Work. During the past year work was carried on under the following projects.

- I. Soil Building Crops
- II. Improved Cotton Irrigation
- III. Improved Conditions on Tight Lands
- IV. Seed Improvement
- V. Boys and Girls Club Work
- VI. Rodent Control

- VIII. Range Livestock Improvement
- IX. Livestock Feeding
- X. Land Levelling and Preparation
- XI. Marketing
- XII. Agricultural Survey of Pinal County
- XIII. Range Livestock Engineering
- XIV. Poultry Feeding and Management
- XV. Plant Disease and Insect Control

Other work not covered by these projects has been handled as Miscellaneous Work as the problem arose, and at such times as the Agent or County Farm Bureau Board of Directors deemed advisable.

During the year County Land Use Planning has been conducted, which is a major enterprise though not directly handled as a separate project, being grouped under Project XII, Agricultural Survey of Pinal County.

## 2. Project Activities and Results

### (a) Cereals

Work in cereals has consisted largely in encouraging of growers to use certified seed, and in the promotion of a certified seed program under which a large part of the planting needs of the county would be met. Seventy-four acres of hegarl seed grown by J. C. Rhinehart of Eloy will produce certified seed, as will a 200-acre planting by the Arizona Ranches inc., of Coolidge. Certification was done upon inspection by the Specialist, and threshing will begin at an early date. It is anticipated that a considerable portion of this seed will be exported to Oklahoma and Texas points.

No work was done in production of pure wheat or barley seed, or the other grain sorghums. Planting of grain in alfalfa for added revenue from winter pasture has been advocated. Twenty days of the Agent's time has been devoted to this work, which was done in six communities. Two leaders assisted in conducting two result demonstrations. Seventeen farm visits were made and forty-two office calls received.

### (b) Legumes

Heavy planting of legumes on lands of the San Carlos Irrigation and Drainage District in the fall of 1939 on the expectation that there might be plenty of water available in the spring of 1940 for both soil building crops and cotton resulted in considerable expense to growers with little benefit. As a result, notwithstanding A. A. A. payments for soil-building, such crops have not been so widely planted this fall as last.

Twenty-five days of the Agent's time and two days of the time of the Specialist were devoted to work with legumes. Work was done in all six communities of the county. Two meetings were held at which production and market outlook for alfalfa seed were discussed. With what seems to be a usual water shortage the Agent is endeavoring to interest growers in the production of seed from the second cutting of alfalfa. If only reasonable yields may be secured such procedure offers an opportunity for greater profit than pasturing or cutting for hay.

Eighteen farm visits were made in the interest of alfalfa planting and seven visits were made in the interest of sour clover planting in cotton fields. Forty-six office calls were handled with respect to alfalfa irrigation, marketing and other subjects pertaining to that crop, and twenty-one office calls were in the interest of methods of planting and irrigation of sour clover in cotton fields.

Local farmers have lost their interest in soybeans as a substitute crop since Pima cotton growing has become profitable.

No foundation Chilean or Common alfalfa seed was produced this year from the planting on the Dr. C. K. Raber ranch near Casa Grande.

The Agent cooperated with officials of the San Carlos Irrigation and Drainage District in making a survey of the alfalfa acreage in order that an extra allotment of water might be made for the planting of grain in alfalfa fields for winter pasturage.

Regular inspection was made of a field test where phosphate fertilizer has been applied to old land now in alfalfa. Apparently such treatment is of value on lands that have been farmed for long periods of time as compared with lands recently put into crop.

Considerable work was done in marketing. Early in the summer it was apparent that local producers of hay were not receiving the market value of it. Thru the Hay Committee of the Pinal County Farm Bureau, of which Mr. W. C. Pate is Chairman, and with the assistance of the Executive Secretary of the State Farm Bureau Federation, growers were advised relative to prices in competing areas. The response was an immediate strengthening of local markets.

As in previous years, this office cooperated with local growers of winter pasturage, putting them in touch with sheepmen wishing to contract feed for winter lambing. A survey was made of the pasture supply and as a result 8,000 sheep are now on winter pasture, paying prices of 2 cents to January 1st and  $2\frac{1}{2}$  cents thereafter, a raise from  $1\frac{1}{2}$  cents and 2 cents respectively.

(c) Cotton

As in 1939, the Specialist arranged a cotton rogueing school at the Sacaton Experiment Station. Methods of rogueing were demonstrated to the twenty-five farmers present.

Seventy-four acres of foundation Acala on the ranch of W. S. Stephenson are producing certified or registered seed this year. The J. G. Boswell Cotton Company have 1120 acres of SxP, which is also being registered. We are securing splendid cooperation from the Boswell people who have done everything possible to keep the seed pure, and also have installed equipment with which to treat it for blackarm. An additional small planting of 32 acres of SxP has been made on the farm of M. A. Anderson. This cotton is being ginned at the time of the writing of this report, and the Agent has supervised the cleaning up of gins whenever this cotton was being ginned.

Five cotton improvement groups were organized under the Smith-Doxey arrangement, and these growers are now receiving free classing of their cotton. There was a notable increase in membership this year as compared with last.

Complete results on the cotton fertilizer test on the ranch of George W. Burgess of Casa Grande are now available. They indicate little if any benefit from the fertilizers used, and it is still the policy of this office to advise growers interested in fertilization to try such out in a small way on their farm before investing heavily for general treatment.

A conference was held with Mr. Harry R. Brown of the Tennessee Valley Authority relative to possibilities of instituting a cooperative field test in fertilization in Pinal County.

It is interesting to report that this year on the farm of W. H. Farnsworth near Coolidge, after a light rain, cotton began dying. The Agent diagnosed the trouble as a concentration of alkali in the root zone and has recommended that if cotton or other row crops are planted that they be flat irrigated. While such losses occur in many other areas this is the first instance that such happened here.

A cotton grading school was arranged and thirty-five farmers were present to study the grading of cotton. This was under the supervision of the specialist and Mr. J. A. Watson of the El Paso Office did the grading.

Cotton disease required a considerable amount of attention during the year. Specialist M. Gottlieb spoke at meetings arranged by the Agent which were attended by eighty farmers. Specialist Johnson spoke at one of these meetings, illustrating various cotton insects. Since these meetings were held in season it was possible to secure fresh plant material which helped materially in giving farmers present a clear idea of the disease or insect damage.

Melon aphid appeared quite generally in cotton fields of the county. Many growers were concerned but were advised not to go to the expense of dusting which would probably only result in partial control, and told that shortly the aphid would disappear. This it did.

Verticillium wilt was found in three widely separated fields of the county, and caused quite severe loss in two of these fields. No methods for control could be furnished but growers were advised that in the past losses from this disease had been light.

Severe losses to several crops of SxP cotton were caused by blackarm and angular leafspot. One instance occurred on the farm of Cobb and Belluzzi of Eloy, where 900 acres of cotton which should have made a yield of not less than 400 lbs to the acre or 720 bales will probably not make over 150 bales. This office has called this field to the attention of growers, and has emphasized the value of seed treatment if losses are not to be sustained.

This office has carried on for years a project known as "Improved Cotton Irrigation", which is designed to carry to the growers of the county best information on cotton irrigation. On account of the chronic water shortage we have advocated heavy irrigation of cotton before planting, or heavy irrigation at the first irrigation if cotton is dry planted, with the view of securing a good sub-soil moisture which would carry the young cotton thru in good shape until summer flood water became available. We note that better stands are being secured and cotton yields are holding up well notwithstanding water difficulties.

Forty days of the Agent's time and fourteen days of the Specialist's time were devoted to work with cotton growers in six communities of the county. Six leaders cooperated with us, furnishing fifteen days of assistance. Two method demonstration meetings were held, forty-one farm visits made, and two hundred and sixty office calls received.

#### (d) Home Gardens and Landscape Gardening

One date off-shoot removal demonstration was conducted by the Agent with four farmers present. Landscape gardening plans were furnished to one farmer, and an extensive program was laid out for the landscaping of the Pinal County Hospital. The specialist helped in this work. He also judged a flower show at the Casa Grande Womans Club.

As usual, there were a number of calls relative to plant diseases and insects in home gardens and on yard plants. The Agent made seventeen farm and home visits in the interest of this work, and forty-three office calls were received.

Thirty-three boys and twenty-five girls carried thru projects in home gardens and landscape gardening. The work of these young people has been of material benefit in stimulating interest in wider plantings of gardens and ornamentals. A complete report of this work will be included in the report of the Assistant Agricultural Agent.

(e) Market Garden and Truck Crops

One farmer received information relative to preparation of soil and planting and care of strawberries. This operator is planning on a five-acre planting.

A number of vegetable growers from the Salt River Valley called at this office inquiring for land upon which to grow winter vegetables. They were brought to this area because of an apparent water shortage on lands which they have been working.

An infestation of "heart-rot" in cauliflower was found and diagnosed for one grower, and treatment of seed recommended.

The usual number of inquiries relative to diseases in vegetable crops were handled, including control of rodents and insects. Seven farm visits were made, and eighteen office calls received. Specialists assisted the Agent two days in field inspection. Work was done in three communities.

(f) Fruits and Nuts

There has not been the interest ~~of~~ fruit and nut growing this year that there has been in previous years. Three farmers were advised relative to control of pecan rosette, and two relative to planting and care of pecan trees.

(g) Rodent and Insect Control

Some work has been done relative to the setting up of a NYA project in gopher control, with the cooperation of the San Carlos Irrigation and Drainage District. It appears at the time of the writing of this report that we may be able to put this project into effect this winter.

Severe losses to young cotton just coming thru the ground was diagnosed to be caused by bobolinks.

Thru the cooperation of the U. S. Biological Survey a trapper was secured for the trapping of coyotes which were raiding poultry flocks and sheep in various parts of the county.

Specialist Johnson met with a group of thirty-five growers at the Office of the County Agricultural Agent and illustrated the variety of insects affecting cotton.

Several farmers reported heavy infestation of grasshoppers on desert lands adjoining their cotton fields, evidencing considerable apprehension as to their probable movement to cultivated crops. Inspection showed them to be the migratory desert grasshopper so no poisoning was recommended.

An outbreak of "blaps" in a cauliflower seedbed was handled.

An investigation was made of some disease which killed a number of mesquite trees in the county. The assistance of the Plant Pathologist of the University of Arizona was secured, but to date the cause is not determined. Such a disease might be of considerable value if introduced into areas where it is desirable to eliminate such growth.

Distribution of poison grain and strychnine for the control of rodents and rabbits continued thru the year, with much lessened demand than in previous years.

Ten days of the Agent's time were devoted to work with predatory animals, rodents and general feeder insects. Work was conducted in six communities. Seventy-three office calls were received and twelve farm visits were made.

#### (h) Agricultural Engineering and Soil Reclamation

This office maintains two Bostrum-Brady farm levels for the use of farmers in laying out their lands for better irrigation. Eighty-one farmers used these levels in laying out their land for irrigation during the year.

As in 1939 the Agent continued the work in water-spreading on the Don A. Trekell demonstration. We can report that the spreader dams are holding well. One spillway has been constructed.

There has again been wide interest in the use of gypsum as a soil corrective. One farmer has used 500 tons of this material in treating his land. A number of samples from gypsum deposits in the county have been analyzed.

Six samples of water from irrigation wells have been sent in for analysis, and eleven areas of land have been sampled and analyses made.

One farmer received information relative to construction of a branding chute, and two farmers were assisted in laying out stock tanks so that they would interfere as little as possible with their farming operations.

The Agent devoted eight days to work under this heading, and the specialist three days. Work was done in six communities. Fourteen farm visits were made and eighty-six office calls received.

#### (i) Poultry

Six days of the Agent's time and one day of the specialists' was devoted to work with poultrymen. Work was done in all six communities of the county. Twelve farm visits were made and thirty-one office calls received.

One caponizing demonstration was given by the Specialist, with seven farmers present.

Work has consisted largely of farm visits and office calls at which problems of poultry feeding and management and disease control have been discussed. There is much less interest in poultry raising than there has been, and it was not deemed advisable to follow previous procedure of holding a poultry school.

#### (j) Dairy

Thru the cooperation of Mr. W. A. Van Sant, Chairman of the Dairy Committee of the Pinal County Farm Bureau, a Dairy Picnic was held on April 2nd at the Van Sant farm. Specialist Rowe discussed progress made in cow testing, and Prof. W. H. Riddell gave a demonstration in selection of dairy cows. There was then held a judging contest in which all thirty-two farmers attended participated.

Meetings of dairymen were held at Casa Grande and Coolidge and feeding of dairy cows discussed by the Specialist.

A survey of the dairy cattle population of the county was made by the Agent and Specialist, as well as a study of markets for milk and cream. Results of this study are reported earlier in this report.

The Agent cooperated with officials of the U. S. Bureau of Animal Industry in arranging for T. B. testing of dairy cattle.

A case of mastitis in dairy cattle on the W. B. Payne farm was diagnosed as being caused by excess feeding of cottonseed. Removal of the cottonseed from the ration brought the cows back to their milk within a short time.

Seven days of the Agent's time and five days of the Specialist's time were devoted to work with dairymen, and work was done in six communities. Fourteen home and farm visits were made and eighteen office calls received.

#### (k) Livestock

A minderal feeding mixture for swine was furnished one farmer.

Dr. W. J. Pistor, Veterinarian of the College of Agriculture, addressed two meetings of farmers on the subject of "Common Ailments of Livestock and their Treatment."

This county is rapidly becoming an important livestock feeding area, with farmers feeding both on pasture and in pens. The Agent has worked with almost every cattle feeder on problems of pasture management buying, feeding and marketing problems. This work has largely been of an individual nature.

Heavy losses of calves have occurred. Our procedure was to enlist the aid of the University veterinarian and after diagnosis was made we have recommended that buyers of calves first place them on rough feed, or on hay fed in corrals, gradually accustoming them to high protein green alfalfa

or alfalfa and barley pasture. Thru our efforts it has now become quite common practice to so feed calves upon arrival.

The annual survey of feed and livestock was made by the Agent and Specialist, and published by the Agricultural Extension Service in circular form.

Five farmers were assisted in marketing of their feeder cattle.

Twenty-one days of the Agent's time was devoted to work with livestock growers, and five days of the Specialist's time. Work was done in all six communities. Thirty-five farm visits were made and sixty-eight office calls received.

#### (l) Farm Management

Seventeen days of the Agent's time was devoted to work in Farm Management, and work was done in six communities. Two farm visits were made and twenty-four office calls received relative to farm financing, and five farm visits and twelve office calls were in the interest of individual farm planning. Eighteen farmers were assisted in securing credit, five of which were assisted in preparing financial statements.

Outlook information was discussed at four meetings of farmers, and published information furnished by the Agricultural Adjustment Administration has been widely circulated.

#### (m) Marketing

Eight days of the Agent's time and two days of the specialist's time were devoted to this work. Three voluntary leaders gave six days of their time in working out marketing problems. Ten farm visits were made and thirty-one office calls received.

We have reported our efforts in hay and pasture marketing. There has been splendid cooperation with the officials of the Pima Indian Agency who have some 20,000 acres of alfalfa to market, with the result that prices of hay and pasture have been maintained at a fairly constant level.

The Annual livestock and feed survey was made, as previously reported.

#### (n) Community Activities

The Agent has cooperated with the office of C. J. Moody, Engineer in Charge, U. S. Indian Irrigation Service, in the preparation of a brief monthly report covering the agricultural situation of the county.

Thru program committees, the Agent has cooperated with the Coolidge-Florence and Casa Grande-Eloy Farm Bureaus in arranging their programs and in organization of their membership drives.

Work in County Land Use Planning is reported under the heading of "Community Activities". This work began on March 21st, at which time various subject matter specialists who were to assist in the work of securing data on the agriculture of the county met and arranged a tentative program of meetings. Five meetings of the Pinal County Land Use Planning Committee, consisting of sixteen farmers representing various phases of industry of the county, including county government, were held, at which time various reports were gone over. A. J. Christensen of Coolidge was elected chairman of the Committee, with C. V. Hanna of Coolidge vice-chairman.

At the date of the writing of this report it may be stated that the collection of information, including crops, county government and taxation, land tenure, water supply, water costs, livestock, indebtedness, land resources, etc. has been completed with the exception of that on land tenure. It is expected that it will be available early in the new year. A number of maps have been prepared, including a study of underground water levels, drainage, cropland, etc., and a report of more than one hundred pages prepared. Much information of value to this office has already become available for our use.

Cooperating with the officers of the Casa Grande Farm Bureau, a Rural Youth Director has been appointed, and some work has been done toward the organization of a group of young farm people to study problems affecting agriculture. The discussion group method will be used.

(o) Miscellaneous

Four-H Club Work, usually summarized under this heading, will be included in the report of Mr. Dan W. Clarke, Assistant County Agricultural Agent.

The Agent assisted in the preparation and exhibition of agricultural products from this county at the Arizona State Fair.

Due to the wide interest in underground water and the supply of same, arrangements were made for Dr. G. E. P. Smith, Irrigation Engineer of the University of Arizona, to discuss his research findings at meetings of the local farm bureaus. This was done with one hundred farmers attending.

The Agent has assisted a number of men called in the draft registration in the preparation of their questionnaires.

A study of possibilities of flax production has been made, with the cooperation of the Specialist. Certification of a platnging of 320 acres of Punjab flax was planned, but not carried thru.

The Agent cooperated with the representative of the Crop Production Loan Office in preparation and approval of loan applications.

Dr. E. D. Tetreau visited the county and discussed with the Agent various types of farm leases, also interviewing representatives of cotton finance agencies thru contacts made by the Agent.

Two farmers received information and plans relative to the building of septic tanks.

Meetings of the Pinal County Farm Bureau committees on Taxation and Legislation and Underground Water were attended by the Agent.

A survey was made of local honey growers with the view of assisting them in their marketing problems.

Numerous parcels of desert land were inspected for people planning on developing them.

Thruout the year the Agent cooperated with officials of the Farm Security Administration in loan applications and in problems on their cooperative farm and 11-mile corner camp.

The Agent cooperated with officials of the local farm bureaus in arranging a discussion of taxation.

As in 1939 and previous years the Agent arranged for Dr. Geo. W. Barr's class in agricultural edonomics to meet with two local farmers and discuss with them their problems of farm management.

The Agent cooperated with the Assistant County Agricultural Agent in planning the 7th Annual 4-H Club Fair. For a complete report covering this work see his report.

In January the Agent attended the Annual Conference of Agricultural Extension Workers in Tucson, and again on May 8-9-10 attended the conference of Extension Workers of the Southern Counties. Much information of value in our work was gained from these two conferences.

Cooperation was furnished the Secretary of the Coolidge Chamber of Commerce in arranging a meeting of farmers and businessmen of the Coolidge area.

Fifty-three news stories on agricultural subjects and in furtherance of the A. A. A. program were prepared by the Agent and furnished the press of the County.

## VI. Emergency Work - Agricultural Adjustment Administration

Forty-two days of the Agent's time was devoted to work in furthering the program of the Agricultural Adjustment Administration. Work was done in all six communities of the county. Twenty-four meetings were held, 53 farm and home visits made, and 785 office calls received.

During the year the Agent has served as Secretary of the Pinal County Agricultural Conservation Association. Early in the extension year he assisted in arranging for the holding of the referendum on December 9th, and on December 11th was elected secretary of the County Association. Also on December 11th he arranged a meeting of the range livestockmen of the county at which the range program was discussed.

In January the Agent addressed the Casa Grande and Coolidge Farm Bureaus on the "Income Certificate Plan" as substitutes or supplements to the present method of financing the A. A. A. program. A meeting of the Coolidge Chamber of Commerce also heard the Agent speak on "The Relation of the A. A. A. program to Local Business." Arrangements were also made for O. M. Lassen and Wayne T. Wright to discuss the 1940 program at meetings of the local farm bureaus.

In April the Agent addressed the members of the Casa Grande Lions Club on the subject of "Why Farmers Need Agricultural Adjustment."

During June and July the Agent supervised the checking of acreage on cotton farms, also attending meetings at Tucson and Phoenix called by the State Board for a discussion of the 1940 program.

One radio talk was prepared by the Agent, and he and Mr. E. Holmes Galloway delivered same on August 1st, over the Arizona Network.

Thruout the year the Agent has cooperated with Mr. Felton Hadnot, Administrative Assistant, in problems relative to administration of the AAA program. Numerous meetings of the committees were held, the Agent acting as Secretary of same.

Some work was done toward the establishment of a mattress making project. A meeting was called by the Agent of the various agencies interested, and plans were made for the work to begin shortly after January 1st.

## VII. Outlook and Recommendations for Coming Year

The opening sentence of the report of last year states: "The present major problem in the agriculture of the county is whether or not winter run-off into Coolidge Dam will be sufficient to carry farms on the San Carlos Project thru the year 1940." This might very well be the opening sentence of this part of the Annual Report covering this year's work, and to it might be added that pump operators using electric power are faced with about the same problem.

There were some 26,000 acres of new land put into crop in 1940, most of which was planted to American-Egyptian cotton. With a virtual embargo on shipments of competing cotton from Egypt, growers of this crop have within the past six months seen the market price rise from around 20 cents per pound to 28 and 29 cents. At this price the crop is very profitable, and it is likely that additional new land will be put into this crop in 1941.

Quality of American-Egyptian cotton and upland cotton this year has been much below normal. Particularly is this true with upland cotton. Probably not all this can be charged to the water-stress which cotton fields suffered during the acute water and power shortage last summer. We are of the opinion that insects are being more active than in past years, and the services of the Specialist should be used in 1941 in an effort to determine what may be done to reduce insect losses because of decreased yields and spotted cotton.

During the year, working with a County Land Use Planning Committee of sixteen farmers and businessmen of the county, we have practically completed a report, with the exception of that section of same dealing with land tenure. This report should be completed at the earliest date possible, and the results of the study made available to agencies interested.

Efforts should continue with the view of making information available on livestock buying, feeding, and marketing to the smaller alfalfa growers of the county. This county will, when additional water is available, become one of the major small feeding areas of the Southwest, and it should be our desire that our feeding industry be based upon a large number of small operators selling their own feed thru cattle rather than thru sale of pasture. Insofar as possible further outlets for winter pasturage should be developed in order that growers may realize more profit from their feed and also in order that the soil-building program may further develop.

Our program should again emphasize better land preparation, levelling and water application. It is only thru such practices that most efficient use can be made of the limited supply of irrigation water.

Our work in demonstration of utilization of flood water on rangeland has now been continued for three years. Forty-three spreader dams have been installed and all are still intact notwithstanding the heavy summer and fall floods of this year. A seeding program is planned on this demonstration in 1940, followed by a tour of rangemen to see the results of the work in the late fall of 1941.

We have further extended our 4-H Club Work, major emphasis being put this year upon improved quality of work and percentage of completions rather than increase in members enrolled. In 1941 it is necessary that we consolidate our gains and continue to increase upon a sound and effective basis.

Marketing should occupy considerable of the time of this office during the new year, working in cooperation with marketing committees of the Pinal County Farm Bureau.

It would be desirable to institute another cotton fertilizer field test, and to study the possibilities of increased alfalfa production thru application of phosphate fertilizers on heavy soils.

We were unable this year to institute a demonstration in "deep-plowing" or tight or "slick" land. If possible this demonstration should be begun in 1941.

The dairy industry of the county is growing upon a firm basis. In 1940 we began a program which has included work with dairymen on testing, breeding and feeding. A judging demonstration was conducted, and two meetings of dairymen were held for the purpose of discussing breeding and feeding. More work should be done with this group in 1941, with the cooperation of the Specialist.

We again have five Acala Cotton Improvement Associations organized and in effective operation. These should be reorganized in 1941, and in addition to the free classing farmers should begin to carry on their part of the program, which includes the planting of registered seed.

Our county pure-seed program is operating nicely, with the exception that it has become difficult, because of A A A restrictions, to find sufficiently isolated farms for the production of Acala cotton. Work in this part of our program may have to be discontinued. On the other hand, we are producing this year registered seed of the SxP variety from over 1100 acres of cotton. Splendid cooperation has been furnished by the J. G. Boswell Company thru their Secretary and local manager. Two large plantings of hegari are being registered this year, with the prospect that much of this seed will be sold in Oklahoma and Texas. If thru quality we can develop an outlet for such seed the acreage of these crops may be materially increased with profit to local growers.

The A. A. A. program is now functioning so that it is possible for the Agent to gradually devote less time to it and more to the regular extension program. We should work toward the end that the farmer committeemen carry it on without any large amount of help from this office. Such is a desirable objective and efforts of this office should be toward that end.

In conclusion, we may say that notwithstanding the requirements of Agricultural Adjustment upon the time of this office we have been successful in carrying out a full program in agricultural extension work. Changes in individual farming practice which have been brought about thru cooperation in the A. A. A. program offers an opportunity for this office to help in developing a well-rounded and balanced farming practice which is economical and practical.

Pinal County

| Project                                     | No. Communities<br>in which work<br>will be done | No.<br>of<br>Dems. | Goals Established  |
|---|--|--------------------|--|
| I - Soil Building Crops                     | 6  | 2                  | Wider interest in legumes. Encourage farmers to participate in soil-building feature of AAA program where sufficient water is available. Specialist to assist. Encourage production of alfalfa seed, including certified Chilean alfalfa seed.   |
| II - Improved Cotton Irrigation             | 6  |                    | Meetings and farm visits to encourage best methods of cotton irrigation thru irrigation equipment and better levelling. Encourage heavy pre-irrigation in order to better meet anticipated water shortage on project lands and lands watered thru electric power.  |
| III - Improved Conditions on<br>Tight Lands | 2  | 1                  | Institute demonstration in deep plowing of McClellan Clay loam soil. Encourage cover crops and alfalfa for soil-building, with wider use of sour clover in upland cotton fields.   |
| V - Seed Improvement                        | 6  | 2                  | Wider interest in local use of good seed thru circular letters, farm visits and meetings. Specialist to assist. Continue cooperative production of registered SxP, Acala and Hegari seed. Endeavor also to develop plantings of mlo and Atlas Sorghum. Reorganize Acala Cotton Improvement Associations in five communities. |

|                                    |   |    |   |
|------------------------------------|---|----|---|
| VI - Boys and Girls Club Work      | 6 | 12 | <p>Increase 4-H Club completions. Leaders, assistant agricultural agent and specialists to assist. Three leaders conferences during year. Achievement days held for each club. Hold 7th Annual Pinal County 4-H Club Fair. Improvement in both number of club members, and quality of work.</p> |
| VII - Rodent Control               | 6 | 1  | <p>Continue present effective rodent control program. Wider and more efficient use of rabbit poison. Endeavor to develop NYA project in gopher control thru cooperation of San Carlos Irrigation and Drainage District.</p>   |
| VIII - Range Livestock Improvement | 2 | 1  | <p>Encourage use of better sires and culling of undesirable females. Demonstration in treatment of common animal ailments by Specialist, including actual minor operations by local livestockmen.</p>   |
| IX - Livestock Feeding             | 6 |    | <p>Thru farm visits of Agent and Specialist build up interest in livestock feeding with the view of having more small feeding operations. Emphasize this work in order to assist in marketing of alfalfa hay and pasturage. Continue annual survey livestock and hay situation.</p>             |
| X - Land Levelling and Preparation | 6 | 2  | <p>Two method demonstrations in use of farm level in laying out land for more efficient irrigation. Two levels available for use of farmers. Goal thirty better levelled and laid out farms.</p>  |

Furnish timely marketing information on livestock, poultry products and farm crops. Agent and specialist to collect information and make same available to producers thru news articles and circular letters. Wider distribution of market outlook facts thru meetings of producers. Specialist to discuss outlook report at farmers meetings. Continue work with Farm Bureau Committees in maintaining hay and pasture prices.

XII - Agricultural Survey of Pinal County 6

Complete Pinal County Land Use Planning Report and make same available to agencies interested. Continue collection of acreage and other information for use of growers and cooperating agencies.

XIII - Range Livestock Engineering 3 1

Continue water-spreading demonstration on Trekell ranch. Plant grass and weed seed. Field day to view results. Specialist to assist.

XIV - Poultry Feeding and Management 6 1

Thru farm visits, meetings and office calls increase interest in better feeding and management of poultry. Better disease control.

XV - Plant Disease and Insect Control 6 1

Study cotton insects with view of decreasing spotted cotton. Specialist to Assist. One demonstration in dusting cotton. Carry on campaign for seed treatment thru meetings, office calls, farm visits and circular letters and press.



Dairy cattle judging demonstration on the farm of W. A. Van Sant, chairman of the Dairy Committee of the Pinal County Farm Bureau. Professor W. H. Riddell is demonstrating to the thirty-five farmers present points to be considered in judging of a dairy cow. This demonstration was followed by a judging contest among the dairymen present.



Caponizing demonstration on farm of Jerry Fox,  
near Casa Grande. Specialist Rowe demonstrating  
the method.



Water spreading demonstration on ranch owned by Don A. Trekell of Casa Grande. This project was originally laid out in 1938 and each of the past three years work has been done. A recent inspection following heavy floods showed but little damage to structures.



Another view of water spreading demonstration on Trekell ranch. Approximately sixty spreader dams are used to utilize flood water which otherwise would run off of this range area.



Pure seed work was carried on this year with SxP and Acala cottons, and hegari. Arrangements have been worked with the cooperation of the J. G. Boswell Cotton Company which insures a large supply of excellent SxP seed. A further supply of this seed will come from a 32-acre planting on the M. A. Anderson ranch. Acala seed is furnished from a 74-acre planting on the W. S. Stephenson ranch, and hegari plantings on the ranch of the Arizona Ranches Inc., and J. C. Rhinehart is being certified for sale in the Midwest.

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

of

Dan W. Clarke

Assistant County Agricultural Agent

Pinal County

Arizona

December 1, 1939 to November 30, 1940

## NARRATIVE SUMMARY

The work of the assistant county agricultural agent of Pinal County may be divided into 4-H club work and agricultural work. Most of the time-- 811 days out of a total of 267, was devoted to 4-H club work.

In 1939-40 out of the gross total enrolled, 253, there were 222 completions; or 87.7% of the projects begun were completed to the satisfaction of the leaders. Of the gross total enrolled there were 212 different club members with 186 completing for a percentage of 87.8. Sixteen different club leaders led twenty-two clubs in the following projects: Livestock, Poultry, Garden, Flower, Airplane, Handicraft, Newspaper, Leather, and Camping. Club work was carried on in the following communities of Pinal County: Casa Grande, Coolidge, Florence, Red Rock, Picacho, Toltec, Sacaton, Randolph, Walker Butte School, Kelvin, Hayden Junction, and Oracle.

The following activities are an important part in the functioning of the 4-H club program: club meetings, leaders' conferences, radio broadcasts, project tours, demonstration and judging teams, county 4-H Club fair, achievement day programs, state 4-H club round-up, and the national trip contests. The program is carried on almost entirely within the schools through the cooperation of the school principal and the teachers, who in most cases act as the local voluntary club leaders. The assistant agent meets with each club at least once a month for the purpose of checking club progress and assisting with the projects.

Over 300 club members exhibited 850 articles at the county 4-H club fair. The fair was conducted by the 4-H club members themselves--with the members acting as the departmental superintendants. Twenty-six club members and five club leaders attended the state 4-H Club Round-up in Tucson. At the Arizona State Fair members of Pinal County 4-H Clubs were very well represented in the 4-H Club Division. Of the total of 65 possible winners in the boys' club work Pinal County members won 47 places. Three regular County 4-H Club radio broadcasts were presented over Stations KTVR and KVOA and Pinal county club members also took part in the national achievement day broadcast.

Work was done in the agricultural division under the following projects; Land Levelling and Preparation, Water Spreading Demonstration, Livestock, Poultry, Dairy, Plant Disease and Insect Control, and Miscellaneous. This work was done throughout the year along with the 4-H club work.

Assistance in land levelling was given to six farmers on farms totaling 1350 acres. Twenty-four spreader dams were laid out and constructed on the Don A. Trekell ranch. Most of the work under livestock was done concerning livestock diseases. The work in plant diseases was done mainly with cotton diseases. The assistant agent also spent some time working in the pure seed program. An agricultural exhibit from Pinal County was arranged for the Arizona State Fair in Phoenix. Meetings attended by the assistant county agent include the following: Annual Extension Conference, Regular county Farm Bureau meetings, State Farm Bureau Convention, and County Land Use Planning meetings.

### III. Status of County 4-H Club Organization

#### A. Form of Organization

##### 1. Methods Employed

In Pinal County the 4-H Clubs are organized mainly within the schools with the teachers acting as the local leaders. Of the sixteen different club leaders in 1939-40 only one was not a teacher. Most of the organization is done in the fall of the year. The schools are allowed to get well underway before the 4-H Club work is initiated during October and November. In the larger communities of Florence, Coolidge, and Casa Grande it has become the practice to set a date for all club organization. At this time the leaders and the club projects are selected. However, in the smaller schools of Red Rock, Picacho, Sacaton, Toltec, Walker Butte, McDowell, Hayden Junction, Kelvin, and Oracle the clubs are organized shortly after the start of school.

Each club has its own officers who are required to conduct at least one business meeting a month. There is a secretary who keeps a complete set of minutes of all of the club meetings. The clubs are encouraged to carry out a three phase meeting--parliamentary, educational, and social. The assistant agent meets with each club at least once a month.

Two or three leaders' conferences are held each year at the Kenilworth School for the purpose of bringing the club leaders together for a discussion concerning their problems in 4-H Club organization and activities. The 4-H club specialist and all county extension workers conduct these meetings. The more important topics discussed are: Club Organization, Achievement Days, County 4-H Fair, Awards, How to Keep Interest, Requirements, and Individual Records. (Picture of leaders' conference accompanies this report.)

Radio broadcasts given by club members have also helped to increase the interest in the 4-H Club program. Movies and colored pictures have been shown at 4-H Club meetings. Most of the pictures were concerning the 4-H Club work throughout the state; but several educational films were shown.

Towards the end of the club year, but previous to the county 4-H fair, achievement days are held at most of the schools. In most cases an exhibit with judging of articles is conducted. The exhibits to be shown at the 4-H fair are selected at this time. The parents are invited to attend these meetings and a special program is presented. Last year there were seven achievement day programs held with over 600 people attending.

Probably no other activity does more to create interest in the club program than does the annual Pinal County 4-H Club Fair held every spring. This event requires the full cooperation of every club member. The officials of the fair are club members, others are members of judging or demonstration teams, and almost every member is an exhibitor. Over 300 club members took part in the seventh annual Pinal County 4-H Fair at the Kenilworth School, near Coolidge. There were 850 entries from all parts of the county. County winners in all classes of judging and demonstration team contests were selected at this event.

Two publications of the "4-H Sentinel" were sent to all Pinal County club members. This bulletin is composed almost entirely of contributions

county newspaper was also used for 4-H club contributions. (A clipping of this section accompanies this report.)

Twenty-six club members, five club leaders, the home demonstration agent, and the assistant agent made up the Pinal County 4-H Club delegation to the annual 4-H Club Round-Up held at the university August 26 - 29th. Among the awards won by Pinal County club members were the following: Junior Division--First in Dairy Production Demonstration Team, Second in Team Judging in Poultry, Second in Individual Judging in Poultry, Second in Dairy Cattle Team Judging, Second in Other Livestock Team Judging, and in the Senior Division a Third in Individual Judging in Poultry. (Picture of dairy demonstration team accompanies this report.)

## 2. Factors Considered in Determining Program of Work

There are several important factors to consider before attempting club organization. It is necessary to consider the size and type of community in which the club is located. The small rural, agricultural communities offer the ideal set-up. In the larger urban communities the children seem to have lost most of their interest in rural and home activities. In fact, in the larger schools the program may be so crowded with social and athletic activities that there is no place for the 4-H Club program. In most cases there are plenty of children who want to start a club; but the main trouble is finding an older person who is willing to devote much of his time to leading a club and one who will make a "good" strong leader. Once the right sort of a leader has been found it is necessary to choose a club project which has the leader's interest. A club is no stronger than the ability of its leader; nor the leader's interest. The type of community also has a definite effect on the club project which is to be carried out. If the club is located in an agricultural community livestock or garden clubs are encouraged. In the non-agricultural communities of Red Rock, Picacho, Kelvin, Hayden Junction, and Oracle the handicraft clubs prove more desirable.

## 3. Goals Set Up

The goal of 4-H development in Pinal County is to increase the number of clubs to a point where the greatest amount of efficiency can be attained. However, this will take a longer period of time than is generally believed. It would be an easy matter to increase the enrollments to 500, or more; but quality of work done would be greatly decreased. Before the enrollment is greatly increased it will be necessary to train more good leaders and increase the interest in the club program. A large enrollment for one or two years will undoubtedly look good to the public; but unless it is backed up with some real accomplishments there will be a strong rebound in several years which will make it necessary to reorganize. Therefore, Pinal County's goal of 4-H development will be very similar to the 4-H motto: "Make the Best Better"; namely, to strive for greater achievement and stronger organization. The enrollment will not be greatly increased until the quality is improved.

## 4. Results Obtained

In 1939-40 out of the gross total enrolled, 253, there were 222 completions; or 87.7% of the projects begun were completed to the satisfaction of the leaders. Of the gross total enrolled there were 212 different club members with 186 completing for a percentage of 87.8. The division of the above total into years in club work is as follows: First year--38, Second

year--81, Third year--27, Fourth year--14, and the fifth and Sixth year each had one member. The club members were the following ages: nine--10, ten years--23, eleven years--27, twelve years--57, thirteen years--55, fourteen years--28, fifteen years--4, and sixteen years--8.

Sixteen different leaders led twenty-two clubs in the following projects: Livestock, Poultry, Garden, Flower, Handicraft, Airplane, Newspaper, Camping, and Leathercraft. Clubs were located in the following towns: Casa Grande, Coolidge, Florence, Sacaton, Red Rock, Picacho, Walker Butte, Randolph, Lelvin, Layden Junction, Oracle, and Toltec. During the year a total of 603 individual conferences were held with local club leaders. Movies or colored slides were shown to 1324 people at 28 different meetings. Seven demonstration teams and seven judging teams were trained. Over 500 bulletins were distributed to 4-H club members. Seven radio broadcasts were given by 4-H club members of Pinal County during the year.

#### B. Cooperation Received--Function of Local People and Club Leaders in Carrying Out Club Program.

The voluntary local club leaders are almost entirely responsible for the success or failure to their club. No tribute great enough could be paid to them for it is to them that we largely owe the success of the 4-H Club program. They play an important part not only in club organization and meetings, but also the county 4-H Club Fair, the Round-Up, Radio Broadcasts, Project Tours, Achievement Day Programs; not to mention their value as character builders to the rural youth.

Local people are also a great help to the program. Last year at the County 4-H Fair there were over two-hundred parents and outsiders present. This meant a lot to the 4-H club members--it showed them that the public was interested in their work. Local merchants both in Casa Grande and Coolidge were extremely generous in helping with the advertising of the fair. The Arizona Bankers' Association donated money to cover transportation costs to and from the Round-Up in Tucson. The management of the San Carlos theatre in Coolidge furnished the loudspeaking system at the fair. The secretary of the Coolidge Chamber of Commerce strongly supported the fair. Parents have helped finance many 4-H projects. Their interest in all the 4-H activities has been a large factor in carrying out the club program.

#### C. General Policies

Wherever another youth program is active it has become the policy not to attempt 4-H club work. In the high schools of Florence and Coolidge the Future Farmers of America are active. No club work is attempted in these schools. This means that we lose some of the older and best club members each year. However, in the Casa Grande High School there is no vocational agricultural program and the assistant agent has organized a livestock club for older boys. The club meetings are held outside of school time. Consequently, most of the clubs in this county are found in the rural communities where there is very little interference from outside activities.

An attempt is being made to have only one club to a leader and reducing the number of members in each club to a point where each member will get sufficient individual training. Clubs are organized entirely in permanent communities--that is, where there are no transients moving in and out during the school year. For this reason, we have no clubs in Eloy, where the daily attendance varies from 250 to over 700 children during the cotton picking season. Clubs are organized to give every member an equal chance.

#### IV. Project Activities and Results

##### A. 4-H Club Work

###### 1. Livestock and Dairy

Livestock and Dairy 4-H clubs were carried on in Casa Grande, Coolidge, Florence, Sacaton, McDowell School, and Hayden Junction last year. There were forty-four club members enrolled with thirty-seven of them completing their projects. Thirteen method-demonstrations were given either by the assistant agent, specialist in clubwork, or the specialist in livestock. These consisted mainly in the training of judging teams--giving instruction in livestock judging. Members of Pinal County livestock judging teams took part in the following contests: Tucson Livestock Show, County 4-H Fair, Round-Up, and the Arizona State Fair. At the Tucson Livestock Show they placed third, and at the Arizona State Fair they placed second in judging of all classes of livestock. Cedrick Darter, Casa Grande, was the high individual judge at the Arizona State Fair. (Pictures of livestock judging practice accompany this report.)

Work under this project consisted mainly in training judging teams, attending club meetings, and assisting individual club members with their projects. Five club members took advantage of the offer made by the Tovrea Packing Co. and obtained beef calves for their projects. The animals were loaned out by the Packing Co. in the fall; the club members took them home and fed them; and in the spring they were returned to Tovrea's and the club members were paid for the gain in weight at the same price they were charged out at in the fall. (Pictures of Tovrea calf projects accompany this report.) The results of the Tovrea calf club in Pinal County showed that the profits made were not as great as the experience gained.

In addition to the above mentioned calf projects there were ten other beef calves, eleven dairy calves, and twenty-one pigs represented in the livestock projects. The assistant agent was responsible for the awarding of a registered guernsey heifer calf by the Mt. View Dairy of Casa Grande to each member of the winning dairy production demonstration team at the County 4-H Club Fair.

###### 2. Home Gardens and Landscape Gardening

In the five different Garden and Flower clubs there were fifty-eight club members enrolled and fifty-three completing. Clubs were located at Red Rock, Casa Grande, Sacaton, Florence, and Coolidge. Ten different club meetings were attended by the assistant agent in this project. Instruction was given in planting dates, what to plant, irrigation, soils, and other problems effecting the growth of flowers and garden crops. This project proved a good one in the irrigated valley but many of the clubs away from the valley could not have such a project because of lack of water.

The members of the Florence and Coolidge clubs carried on their projects at home; while Red Rock, Casa Grande, and Sacaton had a school plot which was divided into so many rows for each member. (A picture of the Sacaton Flower Club at work with Specialist, Mr. Rovey supervising accompanies this report.)

The projects consisted of five or more varieties of winter garden vegetables for the Garden Club and eight or more varieties of flowers in the Flower Club. The Florence Flower Club is noted for dispersing flowers to the churches and hospitals each spring.

### 3. Poultry

Although there was only one official poultry club with nine members enrolled and nine completing, there were several club members who carried on a poultry project but who were also enrolled in a livestock club. The one club was located at the Kenilworth School, near Coolidge. This project, like the Livestock clubs, was carried on entirely with home projects which varied from five hens, or six baby chicks, up to a flock of fifty or sixty birds. The poultry exhibit at the County 4-H Fair was one of the best and largest. However, this was due mainly to the ease of transportation of poultry as compared to the moving of livestock. Unlike the livestock clubs, this is one project that can be easily increased because there is no large initial investment to be made; nor is it necessary to have a pasture or irrigated farm.

Six method-demonstrations and seventeen farm visits were made by the assistant agent in carrying out this project. A total of 170 chickens were represented by all those completing their projects. (A picture of club leader, Pete Hauskens and club member's project accompanies this report.)

### 4. Miscellaneous 4-H Clubs

Handicraft clubs were located at Kelvin, Oracle, Toltec, and the Walker -utte School. There were forty-nine enrolled with forty-two completing. Work in this project was divided into woodwork, and metalwork. (A picture of some handicraft work accompanies this report.)

Leather clubs were held in Picacho, Kenilworth School, and Casa Grande. The following articles are made in this club: Bill Folds, Belts, Key Cases, Coin Purses, and Book Marks.

A model airplane club was held last year in Casa Grande with fourteen boys enrolled and eleven completing. Each member was required to complete at least three different models.

The Newspaper Club at the Kenilworth School was made up of twenty-two members, most of whom were already enrolled in some other 4-H club. Along with their regular work, members of this club were active in furnishing 4-H club news for the "4-H Sentinel" and the county newspapers.

The Camping clubs were again conducted at the Hayden Junction and Kelvin schools. Each club member was required to collect and preserve at least ten range plants or grasses. Several field trips were conducted and the nomenclature of some of the more common range plants was learned.

### 5. Miscellaneous 4-H Club Work

The Casa Grande 4-H club band, which comes under the classification of music clubs-which are handled by the Home Demonstration Agent, was organized by the assistant agent. The band was composed of 35 children who were all members of some other 4-H club. Appearances were made in the following events: Tucson Rodeo Parade, Maricopa County 4-H Club Fair, Pinal County 4-H Club Fair, and the Arizona State Fair. A trip was also made to Tucson for the purpose of making musical recordings. (Included in this report is a picture of the band.)

Three regular County 4-H Club radio broadcasts were presented over stations KPTV in Phoenix and KVOA in Tucson by club members from Casa Grande, Picacho, Red Rock, Florence, and Coolidge. Club members from Picacho and Casa

Grande also took part in the National 4-H Club Achievement Day broadcast, which was heard over the state-wide hook-up.

At the Arizona State Fair, which was held again this year after a lapse of eight years, members of Pinal County 4-H Clubs were very well represented in the 4-H Club Division. Of the total of 65 possible winners in the boys' club work Pinal County members won 47 places. This represents approximately one-hundred dollars in prize money. Articles exhibited included mainly those in the handicraft and garden and crops divisions. (Several pictures of the 4-H club exhibits at the State Fair are included at the end of this report.)

## B. County Agricultural Work

### 1. Agricultural Engineering

#### (a) Land Levelling and Preparation

Fifteen days were devoted to this project. Work was done on six farms totaling 1350 acres. In all cases use of the common farm level was made. The procedure used was to take several "shots" in different directions and varying distances from the level to determine the amount of "fall" there is in the land, and then advise the farmer as to the correct direction to run the water. However, in several instances it was necessary to move dirt in order to decrease the "push" or to fall in low spots. Fifteen office calls were also received for the purpose of borrowing the farm level.

#### (b) Water Spreading Demonstration

A continuation of the water spreading demonstration begun in 1938 on the Don Trekell ranch was made by the assistant agent. A total of twenty-four spreader dams were laid out and constructed during the summer and early fall months. Although the demonstration is part of the demonstration started in 1938 all of the new dams are located above the old ones in the drainage area. In selecting the locations for the spreader dams it was necessary to survey--via horseback or foot--most of the Trekell ranch which is in this drainage. In some places it was necessary to partly plug the main channel in order to divert the flood water into flatter areas in which low spreader dams had been constructed. Unlike the dams built the year before, these were all constructed with a four wheel carry-all which is nine feet wide and when loaded with five and one half cubic yards of dirt weighs nearly ten tons. This means that all of the dams, including those which are only two feet high, are nine feet on the top width. In constructing the dams the carryall went back and forth across the top of the dam and picked up its loads on either end.

Recent heavy rains have given the spreader dams a severe, and only practical, testing and it is observed that they have all withstood the test. The purpose of the demonstration is not to store or hold back the water permanently; but to force the water to run over a larger area of flat ground and thereby increase water penetration--with a consequent increase in forage and a decrease in soil erosion. (Several pictures showing the effect of the spreader dams accompany this report.)

Eleven days were spent on this project, which is being done under the Agricultural Conservation Program. The dams vary from 81 to 550 cubic yards, and most of them are two to three feet high.

## 2. Livestock

Twenty-six farm visits were made in connection with this project during the year. The work consisted mainly in investigating disease and screw worms in beef cattle and giving advice to the farmers. Assistance was given to J. C. Rhinehart of Eloy in the vaccination of nineteen head of registered hereford calves for Blackleg. Several other calves were also treated for white scours. Assistance was also given to Park Gilbert of Casa Grande in the castration of forty pigs. A tumor operation on three hogs was made on the Overfield farm near Casa Grande. A case of protein poisoning in range calves which were put on feed at the Pottbaum farm was investigated with the county agent and Dr. W. J. Pistor.

## 3. Poultry

Seventeen farm or home visits were made to advise farmers mainly in poultry management and diseases. A caponizing demonstration, arranged by the assistant agent, and given by Specialist, Clyde F. Rowe, was held at the Jerry Fox Farm near Casa Grande. (A picture of this demonstration accompanies this report.)

## 4. Dairy

A trip was made to the E. T. Kleinman farm near Picacho Lake for the purpose of investigating Bang's disease in dairy cattle. (A case or two of Malta fever had been reported in Coolidge.) It was decided to have the herd tested by the state veterinarian. Some work was also done in dairy calf diseases. Eleven farm visits were made under this project.

## 5. Plant Disease and Insect Control

Twenty-eight farm or home visits were made under this project. Advice was given for ant poisoning, aphids, and other common insects in the home garden. A field of short cotton belonging to Amandus Peters of Casa Grande was inspected for an infection of the common boll worm (corn ear worm) and a calcium arsenite dust was recommended. A trip was also made with the county agent and Specialist, Dr. Johnson to the Cobb farm south of Eloy where a bad infestation of black arm was inspected. The Black arm infestation had spread from an infected field of untreated seed across the roadway to a field of acid delinted seed plants as a result of a heavy dust and hail storm.

The cotton roguing school at the Sacaton Experiment Station was attended by the assistant agent. Several days were spent in the roguing of cotton fields which had used pure seed. Assistance was also given to Specialist, Dr. Matlock in work under the Smith-Doxey Act. A circular letter was sent out to all short cotton growers in Pinal County to inform them of the free cotton classing under the government loan.

## 6. Miscellaneous

Assistance was given to the county agent in getting together the Pinal County agricultural exhibit for the Arizona State Fair. Two days were spent at the fair in arranging and putting up the exhibit, which consisted mainly of citrus, cotton, hay, and fruits. The exhibit placed third in competition with the other counties of the state.

The annual extension conference, January 15-20, in Tucson was attended by the assistant agent. Seven county Farm Bureau meetings were

attended in Casa Grande and Coolidge and the State Farm Bureau Convention in Phoenix was also attended. Three county land use planning meetings were attended in Casa Grande.

#### V. Agricultural Conservation Program

Three days were spent in making 24 farm visits to check A.A.A. compliances and to measure dirt tanks and spreader dams under the range conservation program.

#### VI. Outlook and Recommendations for the Coming Year.

The enrollment of 4-H club members will remain about the same as last year. An attempt will be made not to increase club enrollments but to stress the quality of work done. More club visits will be made; more actual club meetings with the club members conducting the meeting should be held; the number of lives: poultry, and agricultural club projects will be increased; while there will be a decrease in the handicraft clubs. The only new community starting club work will be Aravaipa Canyon, where a garden and livestock club has already been started. In place of the regular leaders' conferences individual conferences will be held with each leader. This is necessary since it is almost impossible to get a majority of the leaders together at one place because of transportation and other factors. However, it will be necessary to have at least one conference previous to the county 4-H fair.

The county fair will probably be held again at the Kenilworth School near Coolidge as this is the most centrally located of all the clubs. Since this school building has been enlarged, including a cafeteria, and because there is always a large enrollment of club members, it seems the logical location to hold the fair. Fewer ribbons will be awarded at the fair. The date will be about the same as last year--latter part of April.

Leaders will be encouraged to have only one strong club and to keep the enrollment down to a point where there will be sufficient individual training. A stronger stress on the requirements will be made--especially on record keeping. Four radio broadcasts will be given again this year with at least four different clubs taking part. The Casa Grande 4-H club band will probably be discontinued this year. The "4-H Sentinel" will not be published. Instead more use of the county newspapers for 4-H club publicity will be made.

Livestock judging trips will again be an important part in the livestock club work. County teams will take part in the judging contests at the Tucson Livestock Show, County 4-H club Fair and the Round-up. More use of the demonstration teams will be made. The Farm Bureau, service clubs, chambers of commerce, and the local merchants will again help to promote 4-H club activities. Only the most outstanding club members will be allowed to attend the state 4-H club Round-up. However, it would be this county's advantage if this event were held in June, just after the clubs have been completed.

With more advance notice in regards to the date of the Arizona State Fair, a larger and more worthy exhibit of county agricultural products will be arranged.

#### VII. Plan of Work for 1941

November, December--Club visits, check progress  
January, February--Training of judging and demonstration teams,  
livestock judging contests, project tours, club  
meetings, and leaders' conferences to make plans for  
county 4-H Club fair.  
March--Achievement Days, get ready for fair  
April--4-H County Fair  
May--Complete all club work in the schools  
June, July--summer club work  
August--4-H Club Round-up, Tucson

Although the agricultural work will be done, interspersed with the above program, it may be divided as follows:

Land Levelling and Preparation--October, November, April, May  
Plant diseases and Insect Control--summer months  
Livestock--all the year but mainly in May, June, July  
Seed Improvement--June, July  
Water Spreading Demonstration--August, September, October

*Prominent In Recent 4-H Fair*



ste Hauskens, left, again played an important role in the Pinal County 4-H Fair held at the Kenilworth school, Coolidge, this past week-end. In addition to being superintendent of grounds, he was in charge of the livestock and poultry divisions. In fact, he was personally responsible for transportation of most of the calves to the fair. On Sunday he delivered five Tovrea calves to Phoenix for delivery. Vincent Skrla, middle and twelve year old poultry club member acted as assistant superintendent of grounds; while Charles Hauskens, right, was among the Tovrea calf exhibitors who sold calves back to the packing plant. Charles calf sold for \$15.00, while three other steer calves brought 9 cents and one cow sold for 8 cents a pound. The top animal brought a premium on account of being fatter than the others.

*Important Fair Official*



Miss Beulah Murphy, voted as the state's most outstanding 4-H leader last year, was in charge of all of the records of the Pinal County 4-H Club Fair held this last week-end at the Kenilworth school, near Coolidge. She was also largely responsible for the fine exhibits in the sewing and baking departments at the fair. Her girls' demonstration team of Johnnie Payne and Betty Davis gave a fine demonstration on how to make waffles. They were the winning demonstration team and will compete at the state 4-H Club Round-up in Tucson next September.

*They Bring Home The Bacon — We Mean The Veal*



Eric Darter, left, and Tommy Earley, right, with their miniature dairy exhibited at the 4-H fair. The exhibit won for them a Guernsey heifer offered as an award by Mountain Dairy of Casa Grande.

**4-H Fair At Kenilworth One Of Best**

**300 Participate And Hundreds Of Adults Inspect Exhibitions**

Attended by 500 visitors, friends, and parents of 4-H club members and participated in by over 300 children, the Seventh Annual Pinal County 4-H Fair at the Kenilworth School, near Coolidge, was acclaimed as one of the best fairs ever held. A total of 850 entries made this the largest fair in history.

Included in the program on Saturday afternoon were the follow-

## 4-H FAIR

(Continued from page 1)

ing speakers: Harry Culbert, principal of the Kenilworth School, K. K. Henness, County Agricultural Agent, and Earl Maharg, Executive secretary of the Arizona Farm Bureau. The feature of the program was the Junior Dress Revue, conducted by LaVerne Prock and Julia Baca. Miss Connie Richerson of Casa Grande played the piano for the dress revue. The girls, ranging from 10 to 15 years, wore cotton dresses or sweaters which they had made. Clubs represented in this revue were from Florence, Kelvin, Oraque, Toltec, Kenilworth, and Walker Butte. Another feature of the program was a band concert by the Casa Grande 4-H Club Band under the supervision of C. W. Hoisington. This is the first and only band of it's kind in Arizona.

Among the many awards given cut was a guernsey heifer calf, donated by Ed. Arndt of the Mountain View Dairy in Casa Grande. This calf was won by the winning boys' demonstration team of Tommy Earley and Cedric Darter, who showed how a modern dairy farm should operate. Use of a neat model farm was made. Johnnie Payne and Betty Davis were the winning girls' demonstration team. They showed how to make waffles.

In the morning the boys livestock judging contest was held. The winners were: First, Dave Craig, Florence; second, Joe Espinoza, Walker Butte; third, James Benton, Casa Grande; fourth, Willie Storie, Coolidge; fifth, William Dunn, Florence. The result of the girls' judging contest were as follows: First year Clothing—Mary Freeland, Kenilworth, La Voice McGee, Kenilworth; second year Clothing—Iris Bonner, Kenilworth, Christine Wilten, Kenilworth; second year Baking—Estherlee Turner, Casa Grande, Stella Miller, Kenilworth; third year Baking—Johnnie Payne, Kenilworth. These girls will represent Pinal County at the Annual State Round-up for 4-H Clubs in September.

For the first time, since the fair started seven years ago, 4-H Health champions were named. For the past two weeks health candidates have been examined by Dr. B. L. Steward at Coolidge. The winners were Betty Davis and Sam Houston both of the Kenilworth School.

Thirty-five awards were taken by Casa Grande boys and girls in the 4-H fair held at Kenilworth last Friday and Saturday.

The most awards taken in any one department was in Airplane Hobbies, where six Casa Grande lads made a clean sweep of the ten awards in the four kinds of models judged.

Casa Grandians also made a

## Feature Of 4-H Fair



The Casa Grande 4-H Club Band was an important part of the Pinal County 4-H Club Fair on April 13th at the Kenilworth school, near Coolidge. The main program on Saturday afternoon was opened by a band concert from this organization.

The band is the first and only one of it's kind in Arizona, and was organized under the leadership of C. W. Hoisington in January. Since then it has appeared in the Tucson Rodeo Parade, the Maricopa County 4-H Fair at Tempe, and the Pinal County Fair this past week-end.

The organization has as it's officers: president, James Benton, secretary, Maxine Hancock, treasurer, Sammy Darr, reporter, Beulah Wells, song leader, Curry Love, yell leader, Joy Williams. Other members are: Joe Armènta, Charles Ross, Lon Harrall, Toby Jo Dunagan, Betty Coxon, La Wanda Cheney, Hal Bate Richerson, Orlia Bell, Kenneth Herring, Quentin Coxon, Dorothy Ross, Lyle Ferguson, Jerry Laughlin, Roddy Goff, Betty Lou White, Jeanette Benton, Kenneth Lee, and Earl Wilson.

strong point with local boys and girls, since they took 13 awards in that department for a major portion of the honors. Following are awards earned by members of the local organization:

**BAKING:** Three Plain Muffins, 3rd Beryl Hurst.

**GARDEN CLUB:** 6 Table Onions, 2nd, Kenneth Peart; 6 Beets, 2nd, Herbert Latimer.

**POULTRY:** Any Breed, 3 Hens, 1st, Henry Sell; Homing Pigeons, 3rd, Douglas Lynch.

**LEATHERCRAFT:** Elective, Class W., 1st, Richard Jones; Elective, 1st, Robert Miller; Elective (Belt), 1st, Robert Miller; Elective Nicknack, 1st, Ben O. Carbajal; Nicknack, 2nd, Carlos Kakar; Book-Mark; 3rd, Richard Jones; Billfold, 1st, Richard Jones; Coin Purse, 1st, Richard Jones; 2nd, Ray Earl Wilson; 3rd, Ben O. Carbajal; Belt, 1st, Carlos Kakar; 2nd, Bobby Reed; 3rd, Ben O. Carbajal.

**AIRPLANE HOBBIES:** High Wing Plane, 1st, Prent Pettee; 2nd, Leonard Kendall; 3rd, Douglas Lynch. Stick Model, 1st, Print Pettee; 2nd, Charles Ross; 3rd, Tommy Pearce. Tornado, 1st, Douglas Lynch; 2nd, Stanford Halford;

age; 3rd, Wynona McNatt.

**BOYS' JUDGING CONTEST:** 3rd, James Benton.

**GIRLS' JUDGING CONTEST:** Baking—2nd year, 2nd, Esther Lee Turner.

**DEMONSTRATION TEAMS:** Boys; 5 teams competing, Tommy Early, Cedric Darter, Arrangement of a Modern Dairy Farm: Girls; Betty Davis, Johnnie Payne; How To Make Waffles.



# PINAL COUNTY 4-H CLUB NEWS



## Pinal County 4-H Club Fair

Plans are rapidly progressing to stage the Seventh Annual Pinal County 4-H Club Fair at the Kenilworth School near Coolidge on April 12, 13th. The club members are hard at work completing their projects in order to exhibit at the fair. Nearly one thousand different entries will be shown at the fair.

The exhibits will include projects in the following departments: Sewing, Knitting and Crocheting, Baking, Meal Planning, Health, Flow-

er Garden, Camping, Handicraft (Metalwork and Woodwork), Livestock—including seven calves obtained from Tobrea's last fall, Leathercraft, Poultry, Newspaper, and Hobbies. The fair will serve as a purpose to present the work of over five hundred boys and girls of Pinal County both to the public as well as friends and parents of the 4-H Club children.

## Crocheting Club

Mrs. Barmes, Home Demonstration Agent, met with the crocheting girls, Friday, March 12, 1940. She explained what they would have to do in order to get their 4-H Club pin. The crocheting girls are without a club leader at the time being, but they intend to pick up their club work where they dropped it, and they are trying hard to finish their work in time for the 4-H Club Fair, which will be held April 12, 13th at the Kenilworth School.

Edna Morrow, Reporter  
Kenilworth School

Mr. Dan Clarke, Assistant County Agent, showed colored slides of 4-H Club work at the Kenilworth School on March 8, 1940. He first showed the pictures of the calf judging contest recently held at Tucson. Pictures of 4-H calves borrowed from Tovrea's in the fall showed great promise of profit for the boys who own them. Mr. Clarke also showed pictures of the dress revue taken at the 4-H Club Round-up at Tucson last summer.

Edna Morrow, Reporter  
Kenilworth School

## Sewing Club

The Kenilworth Stitchers Sewing Club held another work meeting on Saturday, March 9th. The members will meet every Saturday until the fair in April.

The Clover Meal Planning Team practiced on their demonstration Saturday, March 9th. The demonstration will be given at the Rotary Club meeting, March 28th.

Johnnie Payne, Reporter  
Kenilworth School

## Picacho Club

We will now write a report. We have four new-comers; Callie Ross, Wanda Gillaspia, Viola Lee Bridges, and Melba Jean Chaffin. Callie is making a cup towel, Wanda a pair of shorts, Viola Lee a cup towel, Melba an apron, Juanita Bennett a pot holder, Jereldine Evans a dress, Juanita Falloweill an apron, Jack Hughes a quilt. We hope to have more new-comers.

## RED ROCK 4-H CLUB

Mr. Clark invited us to go to Phoenix to broadcast over KTAR March 19, 1940. We left Red Rock at 12 o'clock. On the way, we saw beautiful green fields, with cows, sheep, pigs and chickens. We saw pretty flowers in Mesa, Tempe, Casa Grande and Phoenix. In Sacaton we saw the best 4-H Club flower garden in the country.

When we got to Phoenix, Mrs. West showed us many interesting things. We saw the beautiful

things in a big furniture store, and Korricks Department Store. At Coldwater we saw the "Magic Eye". As we came near it opened up like magic, to let us in. There was a big fire engine in front of a store but we did not see any fire. We saw the big Fox Theater Building and a cafe that was built like a ship.

We rode the elevator to the seventh floor to broadcast. We went in the studio and practiced the broadcast.

Then it was time to go on the air. Florence went on first, we went on second and Picacho last. We saw Andy Anderson and Howard Pyle in the control room. Mrs. West's family and one of her friends came to see us broadcast.

After we were through, Mr. Clark took us to Walgreens Drug Store and gave every one ice cream. Then we were taken down into

## 2-Day Fair For 4-H Clubs Is Started At Kenilworth Today

The Seventh Annual Pinal County 4-H Fair will be held at the Kenilworth School east of Coolidge today and Saturday, April 12th and 13th. This is the third year the Fair has been held at Kenilworth, having been held in Florence on previous years.

There will be no school at Kenilworth Friday as the day will be spent in preparing booths and getting the displays ready for the judges who will arrive late Friday afternoon to view the display and award the ribbons. There will be three ribbons for each division, one for the first, second and third places.

The Fair will really open Saturday morning at 9 o'clock which will start with the registration of contestants in demonstration, judging and dress revue contests. The giving of the exhibits in the vegetable, garden, livestock and poultry departments will be held on Saturday ground. The preliminary demonstration team contests will be held in the auditorium at 10. At 11 refreshments will be sold on

the grounds by the women from the Settlement Farm east of Coolidge.

The Fair will not be all judging and display, but a community sing and band concert will start at 11 a. m. Following this concert will be a dress revue given by the girls of the Home Economics Department. The 4-H Club band will present a concert at 3:00 o'clock which will be followed by the awarding of the ribbons at 3:30. At 4:00 there will be a specialty concert of ladies' rolling pin cooking.

Ladies' milking contest and men's shirt ironing contest.

All club members, parents and friends are cordially invited to bring their lunches and participate in a basket dinner on the school grounds, or they can buy their lunch from booths on the grounds.

Serving as judges for the Fair are: Food preparation: Miss Gertrude Hippe and Mrs. Waldo Christy; Miss Lorenee Dryden; 13th, Mrs. Waldo Christy; demonstration teams, Mrs. M. A.

(Continued on Page Two)

(Continued from page 1)

Anderson, Mrs. T. M. Carlton. Dairy, Clyde F. Rowe; Poultry, Clyde F. Rowe; Handicraft, Bill Bray; newspaper, Harry Culbert; flower, Mrs. Waldo Christy; demonstration teams, Emil M. Rovey and K. K. Henness; Livestock, R. E. Beatty; camping, Charles Hansen and hobbies, Carey Bussell.

This Fair is endorsed by the Kenilworth School Board consisting of W. R. Urton, E. G. Attaway, T. Lynch and Harry Culbert, principal.

Serving on the 4-H Fair Commission are Mrs. Lynn Early, Mrs. Cora Wynne, Miss Buelah Murphy, E. H. Boyd, A. C. Wrenn, Paul Loucks and A. J. Christensen.

Department Superintendents are: Superintendent of Fair, Harry Culbert; Ass't Superintendent of Fair, Johnnie Payne; Superintendent of Records, Beulah Murphy. Ass't Superintendent of Records, Mary Freeland; Superintendent of Grounds, P. B. Hauskens; Ass't Superintendent of Grounds, Clint Skrla.

Superintendents of various departments are: leathercraft; Hugh Crawford, Picacho; Baking, Mrs. C. W. Hoisington, Casa Grande; Camping: Hugh Crawford, Picacho; Clothing: La Verne Prock, Florence; Flowers: Sybil Prock, Florence; Garden: H. J. Chesley, Casa Grande; newspaper: Mrs. Melvin Gammage, Kenilworth; Handicraft: Hyman Gold, Walker Butte. Hobbies: John Bendixen, Casa Grande;

Knitting: Mrs. Nelson Borree, Florence; Livestock: P. B. Hauskens, Kenilworth;; Poultry: P. B. Hauskens, Kenilworth; Meal preparation: Mrs. Helen Kroger, Kenilworth; Music: C. W. Hoisington, Casa Grande and Health: Mrs. Mary Golden, Casa Grande.

All Pinal County 4-H Club boys are eligible to compete in the livestock judging contest. Contestants will judge one class of dairy cattle, poultry or swine. Placing cards will be furnished and ten minutes will be given for the placing of each class. High teams will be eligible to represent Pinal County at the state contest held during the 4-H Round-up.

Any Pinal County 4-H Club member will be eligible to compete in the Girls' judging contest. The two winning contestants in each project will constitute the team to compete in the state contest at the 4H Round-up.

A demonstration team will consist of two members. Each club may have one demonstration team. A sewing club with three years of sewing projects may have a team for each year. The state demonstration contest will be divided into six groups: 1. clothing and room improvement, 2. baking, canning and meal planning, 3. health; 4. crops; 5. livestock and 6. miscellaneous, which includes flower clubs, camping clubs, leathercraft clubs, etc.

Teams may be entered in either the Junior or Senior Division. The Junior Division includes club members who are from 10 to 14 years of age on June 1, 1940, and the Senior Division those who are 15 to 20 on June 1, 1940. Each county may send six teams to the state contest. They may be divided equally between the Junior or Senior Division or in any way the county sees fit.

Teams will be judged on the following basis: General appearance, 10%, Subject matter, 30%;

Skill in presentation, 30%, Practicality, 15% and Completion of Demonstration, 15%.

As the Pinal County Fair ranks second in the State, Maricopa being first, a visit to Kenilworth school on Saturday will be well worth the while of everyone, even though they have no direct interest in the 4-H work.

## Famous Casa Grande 4-H Band



**B**ELIEVE it if able, but every boy and every girl in this picture is actively carrying on some kind of a 4-H project. That makes it the first real 4-H band in Arizona.

Casa Grande is the school that boasts this popular musical organization, and Carl W. Hoisington is the justifiably proud leader. Its fame is spreading far and wide, especially since a highly successful appearance in the Maricopa County 4-H Fair in Tempe, April 6. The band is also scheduled to play on April 13 in connection with the Pinal County 4-H Fair at Kenilworth school.

First public appearance of the Casa Grande musicians, outside their own community, was in the Tucson rodeo parade on February 23. There they represented all the 4-H clubs of Arizona. They made such a hit that more requests for their services came than could possibly be filled without interfering with school and club work.

Members of the band: Joe Armenta, Charles Ross, Lon Harrall, Toby Jo Dunagan, Betty Coxon, Charlotte Wells, Beryl Hurst, La Donna Cabot, Eleanor Lopez, Bertha Coxon, La Wanda Cheney, Hal Bate Richerson, Celia Bell, Beulah Wells, Sammy Darr, Joy Lee Williams, Kenneth Herring, Quentin Coxon, Dorothy Ross, Esther Lee Turner, Lyle Ferguson, Jerry Laughlin, Roddy Goff, Curry Love, James Benton, Betty Lou White, Jeanette Benton, Maxine Hancock, Kenneth Lee, Earl Wilson.

## Whirlwind of a 4-H Leader



Pete Hauskens, left, looks like a 4-H boy himself. But don't let his youthful appearance fool you. The others are Clint Skrla and Charles Magnis, members of his poultry club.

**H**OW in the world does he find the time?

This question is forever being asked about Pete Hauskens, leader of half a dozen 4-H clubs at the Kenilworth school near Coolidge. There isn't any very good answer. He's just one of those geniuses who find time to do everything and are never too busy to take on something new.

His record of achievement in three years at Kenilworth places Pete Hauskens among the "outstanding" club leaders, not only of Pinal County but of all Arizona.

To be strictly truthful, his 4-H work began at Arizona State Teachers College, Tempe, from which he was graduated in 1936 with the degree of B.A. in education. Throughout his college career he took a lively interest in the annual Maricopa County 4-H fair and was one of the student managers.

After graduation he taught a year at Cashion, then went to Kenilworth in September of 1937. Right away he began organizing 4-H clubs in poultry, dairy, swine and leathercraft. He has proved himself a more than capable leader, genial but firm. Although his requirements are high, more than 90% of the projects begun by members have been completed.

This school term, Leader Hauskens got a number of the Kenilworth boys interested in beef cattle. Through his efforts, seven of them obtained Tovrea Calf Club steers which are now about ready for sale. He even furnished transportation for the calves, making two trips with his own car and trailer to haul them to the farms where they were to be finished.

At the same time he began training his boys in beef cattle judging, with such good effect that a Kenilworth team took a high place at the Tucson Livestock Show in February.

### Still More Responsibility

Training in fair management which Pete Hauskens got at Tempe has been put to excellent use in Pinal. This year he is superintendent of grounds and in charge of beef cattle at the annual county 4-H fair, set for April 12-13. This means that he will have to look after transportation, with that trailer of his running all over Casa Grande Valley, and is also responsible for providing food.

Dan W. Clarke, assistant county agent in club work, comments:

"The mark that Mr. Hauskens has made and his standard of quality of work is one that will long leave its imprint on the community and the students who have been members of his clubs."

Clarke also states that the "Kenilworth whirlwind" is "active in Boy Scout work and finds time to build houses. In the last two years he has built eleven houses in Coolidge."

Emil Rovey, boys and girls club specialist, is another Hauskens booster.

"I don't know anyone who does so many things or even does half as many things half as well," says Rovey.

## Rotary Club

Preceding the election Tuesday the group enjoyed a program put on by Dan Clark, assistant agricultural agent, with the cooperation of Emil Rovey of Tucson, member of the university agricultural extension service assigned to statewide 4-H work, and members of the Casa Grande 4-H club.

Charles Magness and Clay Hall gave a demonstration of painting furniture by the Monterey process, and Misses Johnnie Payne and Betty Davis demonstrated the preparation and baking of waffles, bringing around samples of the finished product to their audience, which proved to be a group of appreciative waffle fans.

A short talk on 4-H work was given by Mr. Rovey, who stated that Pinal county has the second largest 4-H enrollment of any county of the state.

M. Peck was a guest of the

## BAND NEWS

The Casa Grande Grammar School 4-H Band attended the 4-H fair at Tempe Saturday. Mr. Car-Bussell drove them over in the

band. The Band played several numbers.

Then they were served ice cream, cake and milk. The members of the band are James Benton, Edine Hancock, Betty Lou White, Betty Coxon, Bertha Coxon, Joy Williams, Sammie Darr, Esther Darr, Beulah Wells, Roddie Goff, Fry Love, Berle Herst, Toby Johnson, Joe Armenta, Charlotte Williams, Jerry Laughton, Lyle Ferguson, Kenneth Lee, Kenneth Herst, Jeanette Benton, Celia Bell, La Leffler, Hal Richardson, Ed Patrick, Wanda Chaney, Betty Ross, Charles Ross, Earlson, and La Donna Cabbot.

The Drum Majors are: Lena Johnson, Betty June Pence, Imogene Robinson. They have been giving lessons from Betty Rose Johnson. The Band will attend the 4-H fair at Kenilworth Saturday April 13th.

Members of the junior high school 4-H band, who were in attendance at the 4-H fair in Tempe Saturday, will attend the Pinal County Fair at Kenilworth this Friday and Saturday. Being the only band, under the 4-H organization, they are bringing both credit and publicity to Casa Grande.

## Pinal Cotton Men Capture State Awards

### 4-H Boys And Girls Also Take Prizes At Fair In Phoenix

Pinal County cotton growers captured a majority of the prizes at the Arizona State Fair cotton exhibit, it was reported today by the Fair Commission. Growers and their winnings of cotton were as follows:

Seed cotton, American-Egyptian, R. H. Ratcliff, Casa Grande, first.

Lint Cotton, American-Egyptian, R. H. Ratcliffe, Casa Grande, first.

Acala Cotton plant—R. H. Ratcliffe, Casa Grande, first, and Geo. A. Hanna, Coolidge, second.

Acala Seed cotton—M. H. Montgomery, Casa Grande, first.

Lint Cotton, Acala—Frank Williams, Casa Grande, first, and F. E. Foster, Casa Grande, second.

Acala Cotton Special—Frank Williams, Casa Grande, first.

**Pinal County 4-H Club Winners at State Fair, Phoenix**

#### Field crops:

Field corn, any variety not included in any other class—John Feliz, Florence, first.

Yellow dent corn, grown under irrigation—Wesley Holden Mammoth, second.

Exhibit of Range grasses—Gordon Wallace, Hayden Junction, second.

Open exhibit, 10 heads of milo maize, Bob Standridge Eloy, first, and Jack Hughes, Toltec, second.

Hegari—Wesley Holden, Mammoth, first, and John Feliz, Florence, second.

Peck of beans, Dean Holden, Mammoth, first and Wesley Holden, Mammoth, second.

Open exhibit, sample of seed cotton, Alvin Johnson, Casa Grande first, and John Feliz, Florence, second.

Pound of lint cotton—David White, Casa Grande, first, and John Feliz, Florence, second.

Exhibit of cotton plant—David White, Casa Grande, first.

Potato Club, peck of sweet potatoes—Ray Fulton, Sacaton, first.

Garden Club, Largest field pump-

(Continued from page 1)

kin—Duane McKinney, Sacaton, first.

Bartlett pears, Wesley Holden, Mammoth, first, and Laurence Holden, Mammoth, second.

Grapefruit, Marsh seedless—Wesley Holden, Mammoth, first, and Ray Fulton, Sacaton, second.

Grapefruit, Pink Marsh—Ray Fulton, Sacaton, first.

Pomegranates, plate of five—Wesley Holden, Mammoth, first and Dean Holden, Mammoth, second.

#### 4-H club records:

Best individual girl's record book—Johnnie Payne, Coolidge, second.

#### Crafts:

##### Leather and Metal craft:

Best metal ash tray—Fay Hall, Picacho, first, and Betty McDaniels, Picacho, second.

Best metal book-end—Fay Hall, Picacho, first, and Camille Manning, Picacho, second.

Best metal tray or bowl—Fay Hall, Picacho, first and Camille Manning, Picacho, second.

Best metal article—Rafael Sandoval, Oracle, first and Crispin Mendoza, Picacho, second.

Best leather bookmark—Richard Jones, Casa Grande, first, and Betty McDaniels, Picacho, second.

Best billfold—Richard Jones, Casa Grande, second.

Best coin purse—Doris Brady, Picacho, first, and Betty McDaniels, Picacho, second.

Best belt—Doris Brady, Picacho, first.

Best leather article—Richard Jones, Casa Grande, first, Crispin Mendoza, Picacho, second.

#### First year Handicraft:

Best book-end—Dickey Ramsey, Oracle, first.

Best stool—Edward Ochoa, Oracle first.

Best cut-out, jig saw—Rita Garcia, Oracle, first, and Beatrice Sandoval, Oracle, second.

#### Second year Handicraft:

Best rack, any variety—Rafael Sandoval, Oracle, second.

Best wood carving—Benny Lopez, Oracle, first and Dickey Ramsey, Oracle, second.

The Casa Grande 4-H Livestock judging team, composed of Cedrick Darter, David White, and Tommy Earley, placed in the following division:

Judging hogs—Second; Judging poultry—First (tie); Judging mutton, sheep—Second; Highest Scoring teams—Second.

Cedrick Darter won the honor of highest scoring individual in the judging of all divisions of livestock. Last year Cedrick and Tommy Earley were the winning Dairy Demonstration Team in the junior division at the 4-H club Round up in Tucson. The members of the judging team are all doing their fourth year in 4-H club work. The team is being trained by Dan W. Clarke, Assistant County Agricultural Agent of Pinal county.

# Achievement Day Marks End Of Year

## Many Awards Given At Closing Of Red Rock School

On Wednesday evening, April 15th, a joint graduation and a 4-H club achievement day program was held at the Red Rock school. Approximately 100 school children from both the Red Rock and Sasco schools, parents, and friends attended the meeting.

Mrs. Nova West, teacher and 4-H club leader at Red Rock, was in charge of the program, which included group singing, dances, songs and skirts, and a dress revue of dresses made in the 4-H sewing club. Colored movies of the Annual 4-H club round-up at Tucson were shown and presentation of 4-H club achievement pins and certificates was also part of the program. Mr. H. H. Cake, clerk of the school board, presented the two graduates, Harry Wilson of Red Rock and Angelita Drow of the Sasco school, their diplomas.

4-H pins and certificates, divided according to the year of club work, were awarded by Dan W. Clarke, assistant county agricultural agent, to the following children: First year; Billy Yates, W. B. Walls, Phillip Hogue, Dorothy Kemper, Esther Florez, ~~Gua~~ Guadalupe Valenzuela, Norma Meeks, Virginia Lois Wilson. Second year; Carl Meeks, Secondino Valenzuela. Third year; Petra Castillo, Asar Florez.

A leaders' pin for outstanding club leadership was also awarded to Mrs. Nova West.

## PINAL CO. CELEBRATES MANY 4-H ACHIEVEMENTS

PINAL County 4-H cubs have been holding achievement days right and left the last few weeks.

At Florence the grade school commencement was combined with a joint achievement day program for all its numerous 4-H groups. This happened on May 17.

Franklin Allhands, school principal, had charge of the program. He presented pins to members of the Livestock Club, of which he is leader. Miss Sybil Prock, famous as a Garden Club leader, presented all the ribbons won by Florence contestants at the county 4-H fair last month. Other awards were made by Miss Frances Borree, leader of the Baking Club.

Kenilworth's 4-H achievement day was held on the same date, as part of the school's honor assembly. Principal Harry Culbert introduced Mrs. Flossie Barmes, county home demonstration agent, and Dan W. Clarke, assistant county agent, who passed out the pins. Leaders' pins went to Mrs. Melvin Gammage, Mrs. Helen Groger and Mrs. N. Hayduke.

## Pinal Steps Up In 4-H

April 27, 1940



The Waffle Queens! Johnnie Payne, left, and Betty Davis, right, were the winning girls' demonstration team at the Pinal 4-H Fair.

OVER 300 club members took part in the seventh annual Pinal County 4-H Fair, at the Kenilworth School, near Coolidge, April 13. There were 850 entries. Over 500 parents, friends

and other visitors attended. All agreed that it was a fine fair. Mighty fine!

Main feature of the concluding program, Saturday afternoon, was the Junior Dress Revue. LaVerne Prock and Julia Baca conducted the event, with Connie Richerson of Casa Grande at the piano. The contesting girls, ranging from 10 to 15 years old, modeled cotton dresses or sweaters that they made themselves. Clubs from Florence, Kelvin, Oracle, Toltec, Kenilworth and Walker Butte were represented.

Possibly the most valuable among many awards given out was a Guernsey heifer calf donated by Ed Arndt of the Mountain View Dairy, Casa Grande. This calf went to Tommy Earley and Cedric Darter, members of the winning boys' demonstration team. They used a neatly made and complete model in showing how a model dairy farm should operate.

**Yum! Yum! Yum!**

Johnnie Payne and Betty Davis were the winning demonstration team among the girls. They whipped up a batch of waffles that aroused consuming ambitions among the spectators.

The afternoon program also included a concert by the famous Casa Grande 4-H band, under C. W. Hoisington. There were talks by Harry

(Continued)

Culbert, principal of the Kenilworth school; Earl Maharg, executive secretary of the Arizona Farm Bureau and K. K. Henness, Pinal County agent.

In the forenoon the livestock judging contest for boys was held, with these results: First, Dave Craig, Florence; second, Joe Espinoza, Walker Butte; third, James Benton, Casa Grande; fourth, Willie Story, Coolidge; fifth, William Dunn, Florence.

And here are results of the girls' judging contests:

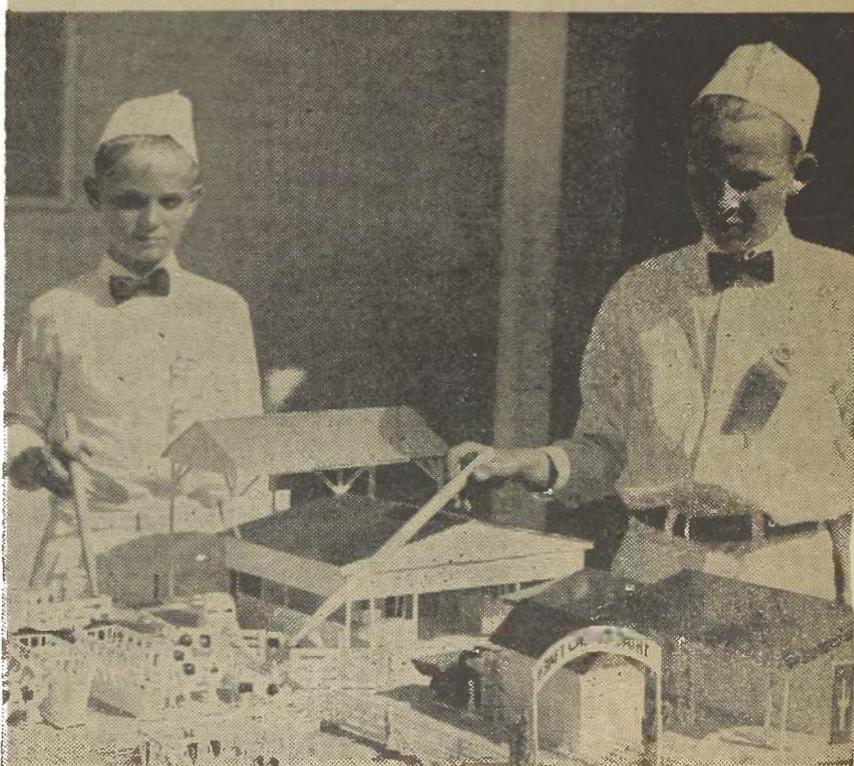
First-year clothing—Mary Freeland, Kenilworth; La Voice McGee, Kenilworth.

Second-year clothing—Iris Bonner, Kenilworth; Christine Wilten, Kenilworth.

Second-year baking—Esterlee Turner, Casa Grande; Stella Miller, Kenilworth.

Third-year baking—Johnnie Payne, Kenilworth.

These girls will represent Pinal County at the annual state roundup for 4-H clubs, next fall at the University of Arizona.



Cedric Darter, left, and Tommy Earley, right, were the winning demonstration team in the boys' division at the Pinal 4-H Fair. What did they demonstrate? A model dairy farm, of course. Don't you see?

# Honor Day Is Observed At Junior High

## 4-H Leaders Make Awards In Program At South School

On Wednesday, April 15th, an "Honor" assembly was held at the Casa Grande school for the 6th, 7th, and 8th grades. Included in the program was the presentation of 4-H club achievement pins and certificates for the year of club work. The assembly was attended by 200 school children.

Mrs. Flossie W. Barmes, home demonstration agent, made the awards to the girls' clubs—Baking, Health, and Music, and Dan W. Clarke, assistant county agent, awarded the members of the Livestock, Leathercraft, Airplane, and Garden clubs.

4-H pins and certificates, divided according to the year of club work, were presented to the following club members: First year—Jeanette Benton, La Donna Cabott, Wanda Chaney, Bertha Coxon, Sammy Darr, Toby Jo Dunagan, Maxine Hancock, Eleanor Lopez, Doris Patrick, Dorothy Ross, Alice Stovall, Beulah Wells, Betty Lou White, Joy Williams, Charlotte Wells, Mary, Nell Ford, Clarabell Pruitt, Rushie Rshymes, Edith Lankford, Wilma Jean McNatt, Joyce Burke, Joyce Savage, Charles Ross, Leonard Kendall, Cecil Kendall, Charles Bennett, Hal Richerson, Tommie Pearce, Chas. Hill, Sanford Hallford, Prent Pettee, Douglas Lynch, Peter Herrera, Paul Hammock, Conrad Tapia, Hubert Latimer.

Second year—James Benton, Lyle Ferguson, Roddie Goff, Jerry Laughlin, Kenneth Herring, Betty Coxon, Beryl Hurst, Marjorie Davis, Imogene Williams, Cleta Leffler, Esther Lee Turner, Martha Jackson, Celia Bell, Jimmie Kinser, Wynona McNatt, Neval Sanders, Nadine Turner, Ray Earl Wilson, Kenneth Lee, Robert Miller, Bobbie Reed, Carlos Kakar, Ben Carbojal, Quentin Coxon, Manuel Lopez, Kenneth Peart, and Henry Sell.

Third year—Joe Armenta, Curry Love, Tommy Earley, Richard Jones, David White, Cedarick Darter.

The following leaders were presented leaders' pins for outstanding service: Mrs. Mary Golden, (Health club); Mrs. C. W. Hoisington, (Baking club); Mr. C. W. Hoisington, (Music club); Mr. John Bendixen, (Airplane); Mr. Wayne Henseley, (Leathercraft club); and Mr. H. J. Chesley, (Garden and Livestock clubs).

## Pinal Clubwork Interests 553

CASA GRANDE, Jan. 9—Pinal county 4-H clubs, both boys and girls, now number 48, with 553 children enrolled under the supervision of Mrs. Flossie W. Barmes, Pinal county home demonstration agent, and Dan W. Clarke, assistant county agent. Thirteen communities are represented: Casa Grande, Florence, Kenilworth (Coolidge), Kelvin, Hayden Junction, McDowell, Oracle, Picacho, Red Rock, Sacaton, Stanfield, Toltec and Walker Butte.

Projects include airplane, camping, flower, garden, handicraft, livestock, leatherwork, newspaper and poultry for the boys; baking, crocheting, sewing, knitting, health and music for the girls. The program is carried on mainly in the schools, with the teachers as leaders.

A leaders conference will be held February 17 for the purpose of discussing Achievement Day and the county 4-H fair scheduled for the latter part of April.

## 4-H Club Work Is Demonstrated

COOLIDGE, Mar. 28—Harry Culbert, principal of Kenilworth School, presented girls and boys who demonstrated 4-H Club work at a 7 o'clock dinner meeting of the Coolidge Lions Club last night. Clay Hall and Charles Magness demonstrated woodwork and painting and Betty Davis and Johnnie Payne demonstrated waffle making. The students also displayed some of the completed projects to be exhibited at their fair to be held April 12 and 13.

Harold Moag, president, conducted the meeting. The state convention to be held in Nogales, Ariz., May 3, 4 and 5 was announced. P. B. Hauskens was admitted as a new member. Announcement was also made of a joint dinner meeting of the Coolidge Rotary and Lions Clubs to be held at 7 p. m. Wednesday, April 3. Charlie Sargent was a visitor.

Friday Morning, March 29, 1

## Pinal 4-H Club Fair Scheduled

COOLIDGE, Mar. 28—Plans are progressing rapidly to stage the seventh annual Pinal County 4-H Club Fair at Kenilworth School, two miles east of Coolidge, April 12 and 13.

Nearly 1,000 entries will be listed. The exhibits will include projects in the following departments: sewing, knitting and crocheting; baking, meal planning, health, flowers, gardens, camping, handicrafts (metal and wood work), leathercraft, livestock, poultry, newspaper work and hobbies.

More than 500 boys and girls of Pinal county will enter work.

## Seventh Annual 4-H Club Fair Opens Saturday

### Pinal County Groups Will Exhibit Their Work At Kenilworth School

This year will mark the seventh annual Pinal county 4-H fair which will be held at Kenilworth school, near Coolidge, on Saturday April 13. This fair will be sponsored by the Agricultural Extension service, through K. K. Henness, county agricultural agent, Dan W. Clarke, ass't. county agricultural agent, in charge of 4-H club work and through the cooperation of Harry Culbert, principal of Kenilworth school. This will be the second year that the Fair will be held at Kenilworth school. It has formerly been held at Florence.

The entries for the fair will start coming in on the Thursday before the fair, with the deadline for clothing, handicraft, leathercraft, camping, health, baking, meal planning, knitting and hobbies by Friday noon, April 12. Exhibits in flower, garden, livestock and poultry, must be in place by 9 a. m. Saturday April 13.

#### Must Be Members

All of the exhibitors must be bona fide 4-H Club members whose record books are in order and up to date.

Parents and community people are invited to attend this fair. The program will begin at 9 a. m. with registration and judging of exhibits. From 10 until 12 there will be competition in judging contests and demonstration teams. The feature of the program will be community singing and a band concert during the noon basket dinner.

The Pinal county 4-H band will appear on this part of the program.

#### Dress Revue Contest

In the afternoon will be the dress revue contest and the winning demonstration team will again perform. This will be followed by special talent numbers from 4-H clubs and individual members. Awarding of ribbons to the winners will climax the program.

The members of the 4-H fair commission for Pinal county are, Mrs. Lynn Earley, Mrs. Cora Wynne, Miss Beulah Murphy, E. H. Boyd, A. C. Wren, Paul Loucks, and A. J. Christensen. These are all people of the community who are endorsing and backing the 4-H program.

Harry Culbert is to be superintendent of the fair, Miss Beulah Murphy, superintendent of records and P. B. Hauskens, superintendent of grounds.

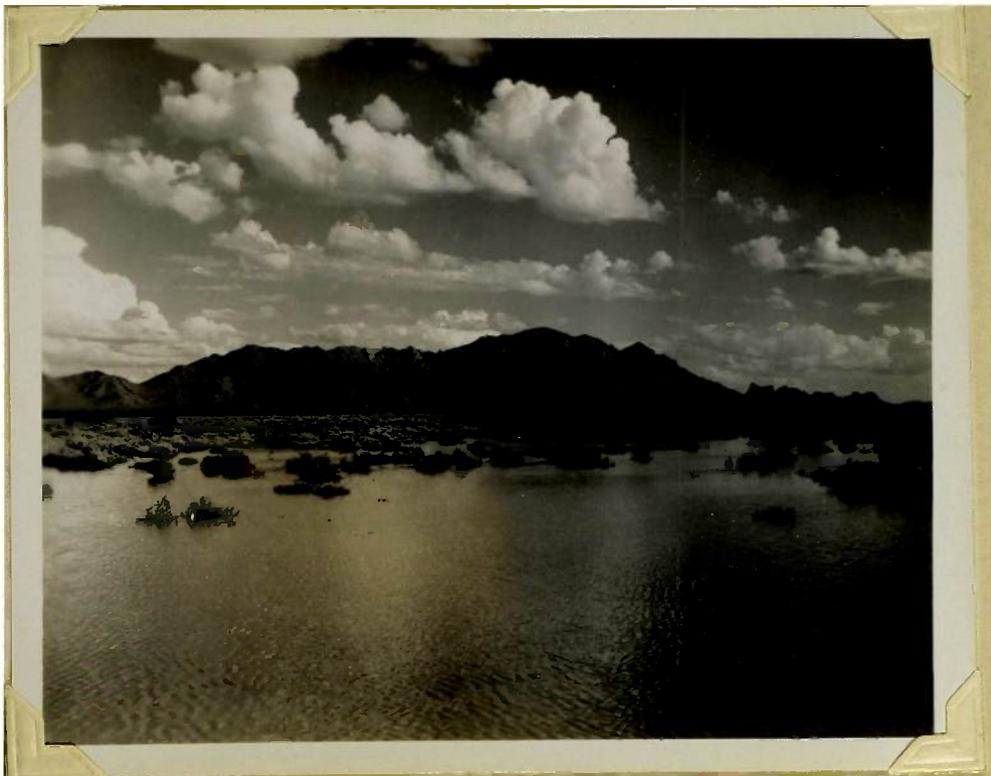


Picture of New Resettlement Project (above) and  
Migratory Camp (below) at 11 Mi. Corner, taken  
by the assistant agent for use in the County  
Land Use Planning Bulletin



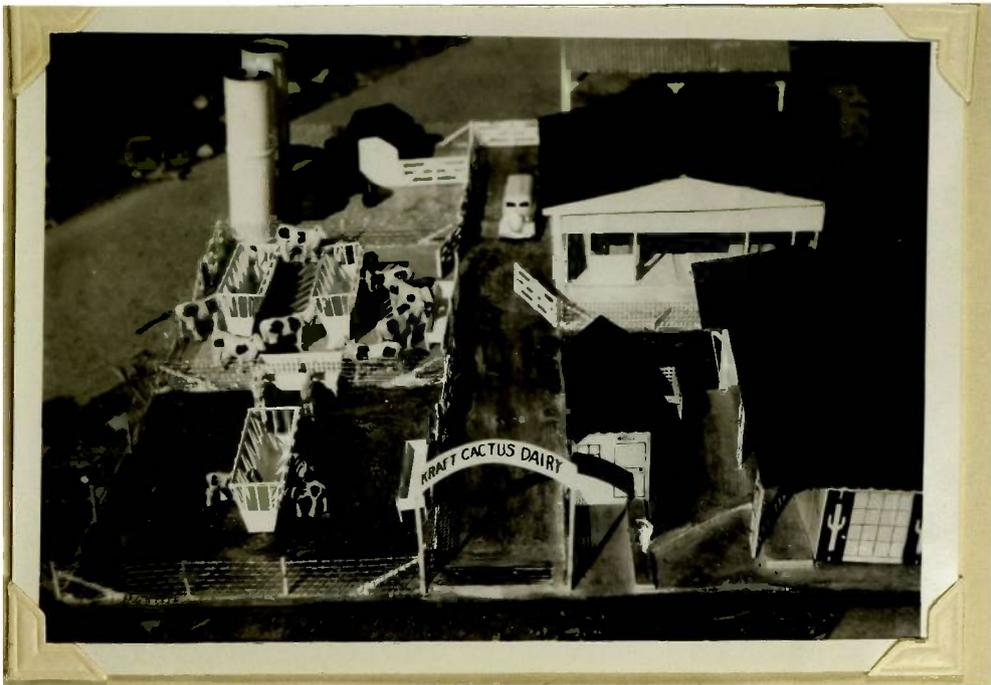


Results of Water Spreading Demonstration  
Don A. Trekell Ranch





Caponizing Demonstration by  
Specialist Clyde F. Rowe  
Jerry Fox Farm



Model used in 4-H Club Dairy Demonstration



Handicraft Exhibit  
Arizona State Fair

4-H Club Exhibit  
Arizona State Fair



Pinal' County's 4-H  
Agricultural Entries in  
Arizona State Fair





4-H Livestock Club Projects





4-H Livestock Judging--University Farm, Tucson





Poultry Club Project---Kenilworth Club Members





4-H Club Garden--Sacaton



4-H Handicraft Club--Kenilworth School



4-H Leaders' Conference--Lenilworth School



4-H Club Band, Casa Grande



Winning 4-H Demonstration Team