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EVIDENCES OF EFFECTIVENESS OF INSTRUCTION IN VOCATIONAL EDUCATION IN AGRICULTURE IN HOUSTON COUNTY, TEXAS

LANGRUM

1944

EVIDENCES OF EFFECTIVENESS OF INSTRUCTION IN VOCATIONAL EDUCATION IN AGRICULTURE IN HOUSTON COUNTY, TEXAS

By

Henry Clay Langrum

A Thesis in Agricultural Education Submitted in Partial Fulfillment of the Requirements for the Degree of

Master of Science

in the

Graduate Division

of

Prairie View State Normal and Industrial College Prairie View, Texas

August 15,1944

DEDICATED

To

My Mother and Wife Mrs. Malissa Langrum and Mrs. Mabel Langrum who encouraged me that I might begin and continue My Educational Career H.C.L.

ACKNOWLEDGMENTS

The author acknowledges the assistance given him by Dr. E.M.Norris, Chairman of the Committee on Graduate Studies, also Chairman of his Advisory Committee, Prairie View State College, for directing the study and for his criticism of the procedures, data, and organization of subject matter, and Dr. H.A.Bullock, Professor of Sociology, Prairie View State College, for his assistance in arranging tabular references and for application of critical analysis.

BIOGRAPHICAL SKETCH

The author of this study was born at Fodice, Texas, February 25,1894. At the time of his birth, his parents, William and Malissa Langrum, were living on a small farm which they purchased in 1870. This homestead is still owned by the surviving heirs born to this union. He received his elementary training in the public school at Fodice, Texas; he entered Prairie View State Normal and Industrial College October 7,1911, from which school he completed his high school work in May 1912, and the Normal Course July 31,1914. He worked his way through college. During his junior year, 1912-1913, he was awarded a gold medal for the highest grade of any boy in school. He was president of the senior class year, 1913-1914.

His professional career began in October 1914 at Tadmore, Texas, now in the Kennard Consolidated School District, Kennard, Texas. He resigned this position after two weeks of service to accept the principalship at Sand Flat, a rural school four miles west of Athens, Texas. He served there until October 31, 1917 at which time he was called to the army where he advanced to the rank of sergeant; he served ten months overseas with the American Expeditionary Forces in France. He received his honorable discharge from the armed services at Camp Bowie, Waco, Texas, March 20, 1919. After having returned home from overseas, he accepted the princi-

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palship of Fodice High School for the year beginning October 1,1919; while serving in that position he conducted a summer normal at Mary Allen College, Crockett, Texas, during the summer of 1920. He married Miss Mabel Tarver, November 24,1920. He attended Tuskegee Institute, Tuskegee, Alabama, on a General Education Board scholarship the summer of 1921 and taught in the summer normals at Prairie View College in 1922 and 1923. He entered the Cooperative Extension Service as County Agricultural Agent, resigning his position at Fodice, Texas, February 1, 1924. His connection with the Extension Service terminated July 31, 1933. He became principal of the Porter Spring Colored High School September 1. 1933. He received his B.S.Degree in Agriculture from Prairie View State College, August 10, 1935, and resigned principalship of Porter Spring Colored High School in May 1936 to accept the Vocational Agriculture work in the same school July 1, 1936, which position he now holds. He began his graduate work at Prairie View State College in the summer of 1940.

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CHAPTER I

-1-

During the past several years which have been marked by an increasing demand on part of the American public for economy, the field of secondary education has not been overlooked. Numerous questions respecting the extent to which the adoption of improved farm practices, general farming and farm improvements are and have been influenced by vocational agriculture instruction are being raised relative to the effectiveness of vocational agriculture instruction in the eight Negro school districts of Houston County, Texas, where vocational agriculture has been taught from three to twentytwo years.

A. Historical Background of Vocational Agriculture Education In The United States

There have been vast changes in agriculture in the United States in the past 150 years. These changes have been characterized by attitudes, institutions, and, as Paul H.Johnstonel points out, have influenced the very essence and character of rural living and even the philosophies, the ideas of right and wrong. In agriculture, new methods of cultivation were developed. Washington and Jefferson were among the first to put aside traditional prejudices and tackle agricultural prob-1.Johnstone, Paul H., "Yearbook of Agriculture", Washington, D.C., United States Department of Agriculture, 1940, p.7. lems scientifically.

One element in the background of rural America was a vigorous movement for self-education as a means of enriching life. There was an agitation for public schools and colleges to teach agricultural science. The Morrill Act of 1862 established the agricultural colleges. Education by this time had become more than a means of attaining culture. It was considered the road to social and economic advancement. -2-

The "Success Philosophy" had begun to take root in this country. Thus farming came to be considered increasingly as a commercial pursuit rather than primarily as a way of living. Agricultural journals, schools, and colleges urged farmers to take the businessman as a model. As this viewed point was more widely accepted, the whole picture of the farm enterprise changed. The farmer found himself faced with the business problems of the commercial world. He was forced to accept the methods of that world even though the frequent inequalities under which agriculture was practiced placed him at a disadvantage.

To keep pace with these changes of attitudes, relations of farmers and business, and the philosophy of success; Agricultural Education fostered the philosophy of commercial success. Although there was a group of educators, among them Kenyon Butterfield and Liberty Hyde Bailey², who emphasized

2. "Yearbook of Agriculture", 1940, Washington, D.C., United States Department of Agriculture, p.9. cultural values in rural living, on the whole, the educational drive was strongly directed toward economic advancement based on scientific and technical progress. -3-

In brief, ideas and ideals that had become dominant in the United States through commerce and industry inevitably spread to the farmer. Thus there had developed almost a complete reversal of many old customs and attitudes. Farmers no longer content with just growing the crops they needed for home use, but began commercialized farming in the production of cash crops and depended more upon the economic conditions of the world rather than upon their own independence. They gradually accepted urban standards of living instead of holding a disdain for it, they also considered no longer hard work and thrift as the primary virtues.

According to Johnstone, none of these changes took place universally and all at the same time, or without conflict and struggle. Indeed, the outstanding fact, he points out, is that changes have meant conflict and struggle, and are accompanied by a sense of uncertainty and fear.

The year 1862 saw the founding of Land Grant Colleges under the Morrill Act, and in 1887, under the Hatch Act, Congress authorized a national system of State experiment stations.

3. Johnstone, Paul H., "Yearbook of Agriculture", Washington, D. C., United States Department Of Agriculture, 1940, P.9. Meantime agricultural education went through a period of early growth with very limited funds until the Land Grant College Act granted large tracts of land to States to be used for establishing and maintaining agricultural and mechanical colleges. These colleges in turn sponsored agricultural courses in grade schools, beginning with Wisconsin in 1905, and eventually this led to the Smith-Hughes Act of 1917, granting Federal Funds to the States for agricultural education in secondary schools.

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"The passage of the Smith-Hughes Vocational Education Act practically created a system of vocational education of broad. scope as a permanent part of the public school organization of the United States. The first meeting of the Federal Board for Vocational Education was held July 21, 1917, and the first bulletin was issued in November 1917. By January 1, 1918, each State in the union had through legislation of the gomernor accepted the provisions of the act, had submitted plans which met with the approval of the Federal Board, and had been certified to the Treasury for allotment for the fiscal year which ended June 30, 1918."

4. True, A. C., "A History of Agriculture in United States 1785-1925," Washington, D. C., United States Printing Office, 1929, p. 326.

B. Historical Background Of Vocational Agriculture Education In Houston County, Texas

-5-

Records show that vocational agriculture instruction began in Houston County under the Smith-Hughes Act September 1,1922 at Fodice, Texas; seven other departments were established by 1941, and in the following order: Post Oak,1925; Gudeblye,1926; Friendship, (now Kennard) 1927; Lovelady, 1927; Porter Springs, 1930; Crockett, 1932; Glover, 1938; and Grapeland, 1941. Other agencies of an agricultural nature operating in the county are the agricultural and home agents of the Cooperative Agricultural Extension Service, Farm Security Administration supervisors, county, district, and community committeemen of the Agricultural Adjustment Agency, and personnel of the Soil Conservation Service.

These groups were organized October 1939 into a Houston County Vocational Workers Association. However, other groups such as the Chamber of Commerce, Commissioner's Court, Federal Land Bank, Productive Credit Association, and Smith-Hughes teachers of home making are represented in this county association of vocational workers. Programs are formulated on a county-wide basis for the development of agricultural enterprises and the adoption of improved methods of farming.

C. Purpose Of The Study

After twenty-two years of vocational agriculture instruction in the Negro schools of Houston County, it seemed wise to undertake an investigation to determine the extent to which instruction and supervised farming programs with adult evening school classes have influenced the adoption of improved farm and home practices.

D. Statement Of Problem

In this study, the writer proposes to answer the following question: What are the evidences that improved farming practices have been influenced through the teaching of votional agriculture in the school districts of Houston County?

E. Scope Of The Study

This study involves a survey of one hundred Negro farm families residing in the eight Negro school communities of Houston County, Texas, where vocational agriculture has been taught from three to twenty-two years.

F. Similar Studies

In order to get the necessary background of information for the study of this problem, similar and related studies were consulted. Myers⁵ states that:

> "The effectiveness of vocational education in agriculture in selecting the students to be farmers, or in directing high school students into agricultural occupations has been measured repeatedly and consistently found highly satisfactory. Careful and comprehensive studies need to be made to determine the effectiveness of this instruction for improvement of the efficiency of these farmers and also what types of instruction are most effective. Such studies will be more difficult than occupational studies, but they should also be even more significant."

In a study embracing six townsites in Iowa, covering the effect of vocational agriculture upon the use of legumes, Hamlin⁶ discovered that:

> "The instructed groups planted a higher percentage of tillable land in alfalfa, and the percentage of tillable land in legumes in the area served by the vocational agriculture departments was nearly three times as great as for the county as a whole. Subsequent surveys showed that those farmers within reach of vocational agriculture departments and receiving instruction continued to show an increase over the first survey in the percenttage of tillable land sown to legumes. For the county as a whole the increase in the percenttage of tillable land in legumes was negligible during the interim between the two surveys."

Myers, E.C., Effectiveness of Vocational Education in Agriculture, Washington, D. C., Federal Board For Vocational Education, 1930, p. 40.

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Dewolf⁷ found that the effectiveness of vocational agriculture instruction is in direct proportion to the teacher's attitudes toward the work, his ability as a teacher, the amount of services he renders to the community, the spirit he has toward cooperating with related agencies, and to some extent his experiences.

Bunyard⁸ stated that he found in his dairy enterprise in Central Iowa: "An increased number of evening school members began reading farm magazines, and 70 percent of the improved practices adopted the first year were traceable to the evening schools."

Dean⁹ stated that:

"Although the subjects taken up for discussion in the evening schools by the teachers were selected after individual conferences with the farmers who attended the schools, 60 percent of them objected to keeping records notwithstanding that 80 percent of the enrollment attended all the meetings and carried from two to five supervised practices as a result of the instruction."

Hamlin, H.M., <u>Measurement of Effects of School Instruction</u> <u>Through Changes in Community Practices</u>, Thesis, University of Missouri Library, 1930.

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6

Dewolf, Oscar Hall, Factors Influencing the Results of Instruction in Vocational Agriculture in Missouri, Thesis, University of Missouri Library, 1930.

8

Bunyard, Claude Lee, <u>A Technique for Measuring the Ef-</u> fectiveness of Agricultural Evening Schools, Thesis, Ames, Iowa, Iowa State College Library, 1930.

Dean, Charles, Exavior, A Survey of Agricultural Instruction Offered in Evening Schools for Negro Farmers in North Carolina and Virginia, Ames, Iowa, Thesis, M. S., 1930.

G. Definition Of Terms

For the purpose of this study:

Education is thought of as the acquisition of knowledge, skill, and attitude and the application of these in the solution of farm problems. This knowledge, skill, or attitude may or may not be based upon high school or college training.

Instruction emphasizes the imparting of information and the development of skills and attitudes.

<u>Effectiveness</u> is a measure of the influence of vocational agriculture teaching on the adoption or improvement of farm and home practices in keeping with good farming techniques.

In order to be able to measure any material, activity, or concept, it is first necessary to be acquainted with the standards of measurement for the particular commodity, activity, or concept which is to be measured. A program of instruction in vocational agriculture is as effective as it influences the adoption and maintenance of the practices set up in its local goals and complies with the major objectives of vocational education in agriculture.

<u>Tenure</u> has to do with the type of operator whether owner, cash renter, third-and-fourth renter, or sharecropper.

<u>School districts</u> are referred to as communities. However, several of these schools are in the same geographical trade area.

CHAPTER II

COLLECTION AND COMPILATION OF DATA

A. Criteria For Selection

A set of criteria was decided upon for selecting farmers to be surveyed for this study.

A. To be selected, a farmer must have been:

1.a member of an evening school class

- 2, a resident-farmer of the school district in which he was surveyed, and
- 3.carrying a supervised farming program at the time he was surveyed.
- B.Vocational agriculture teachers were asked to supply information respecting:

1. jobs taught and abilities developed, and

2.course content in relation to farmer-needs.

B. Source Of Data

Practically all sections of the county were represented in the survey with the exception of those in the extreme southwest and extreme northwest portions where no vocational agriculture departments have been established. All of the farmers included in this survey live in the East, Southeast, Northeast, and west central sections of the county.

Information on phases relevant to the problem was secured from questionnaires, notes made on personal visits, interviews, and reports in the State Office of the Board of Vocational Education of Texas, and from general observations. Farmers, vocational agriculture teachers, and operators of business enterprises were interviewed. The bulletin. "Agricultural Situation", of the bureau of Agricultural Economics, was used to ascertain the demand of the buying public generally. The latter source was used primarily in ascertaining the Nation's needs thereby permitting the planning of farm programs in Houston County around those commodities for which there was the greatest demand. The Texas agriculture section of the 16th census of the United States, the files of the County Extension Agent's Office, Soil Conservation Service, Agricultural Adjustment Agency, and Farm Security records also furnished valuable assistance in s securing data for measuring the effectiveness of vocational agriculture instruction based on progress reports of farmers participating in the programs of afore mentioned agencies and institutions.

C. Construction Of The Survey Schedule

During September and October of 1941, the author made several farm and home visits, interviewing individuals, located in his and the other school districts, who had been picked at random from evening school class rolls, in an effort to determine the type of information which should be secured from the farmers for measuring the effectiveness of vocational agriculture instruction through the adoption of improved farming practices. Prior to the visits, considerable time was spent in studying and devising schedules that might meet demands of the study. A copy of the forms finally decided upon are shown in appendices S and T.

The period over which data for this study were collected covered the major part of two crop seasons. Some of the farm an and home practices improved were begun and finished in this period; some were continuation projects from previous years while others are now in progress but sufficiently advanced to be classified as improved practices.

Exaggeration, of facts in information supplied by vocational agriculture teachers to boost the ratings of their respective departments, was discouraged. -12-

D. Collection Of Data

A survey was made of 100 farmers residing in eight school districts of Houston County where Negro vocational agriculture departments were established. The field work for the study began in July 1941 and ended July 1942. The listings of the activities covered in this period of twelve months are indicative of what the general program of work was centered around.

The securing of the data for the study, to determine the effectiveness of the vocational agriculture instruction in these school districts, required detail planning. The following procedure was used:

- 1. grouping the farmers surveyed according to tenure;
- 2. listing farm practices improvable as checked on inquiry forms by the farmers in an effort to ascertain the point of emphasis that should be made to encourage the adoption of farm practices to efficient production;
- 3. listings of the frequency of farm problems needing solution as expressed by the farmers' answers in the questionnaires;
- 4. ascertaining the number, kind, and scope of farm practices improvable;
- 5. ascertaining the hindrances encountered or factors

preventing satisfactory adoption or supervised farming programs, and

6.checking other practices and activities which were not considered by the farmers as major difficulties, but which did reflect instructional value.

E. Tabulation Of Data

In order to get a true picture of the activities of the survey, a plan was devised whereby the inquiry forms from the school districts were grouped separately and entered on a summary sheet designed for recording all necessary information to be included in the survey. The improved practices of highest frequency were divided into six groups, namely: soil conservation, livestock improvement, poultry improvement, field crops, home orchards, and home improvement. A check was made of the vocational agriculture teachers' course content to ascertain whether the evening school topics for discussion corresponded with the data included in the survey. Summaries by school districts were made, and a general summary for the 100 farmers surveyed was compiled. Index numbers were given each farmer and information on him was entered upon the tabulation sheet.

Because of differences in the interpretation of certain questions asked, and of the limited academic training of some of some of the farmers surveyed, there were some misgivings respecting the correctness of some of the statements, but averages were set up and calculations made on the type of question answered to determine the validity of the answers before making final entries on the summary sheet. Most frequent **oc-** of terrace lines run were submitted. The writer having had extended experience in terracing land in Houston County evaluated in acres the yards reported and entered this item as acres terraced. Since this study was based upon monetary advancement, efforts were made to secure such information as would be necessary in making proper calculation from data submitted.

CHAPTER III

ANALYSIS AND INTERPRETATION OF DATA

A. General Information

"Effectiveness of vocational agriculture education instruction with evening school class members in a community involves both the instructor and the farmer instructed.If the farmer fails to grasp fully and use wisely the instruction given in the evening school classes, or if the teacher fails to instruct efficiently the farmers on the bases of their needs, the effectiveness of the program will exert a proportionate influence for agricultural education in that community where the agricultural department is established."10

But with the supervised farming program in operation, this element of doubt is eliminated, for in the process of "learning to do by doing"¹¹ involving both instructor and student, when an ability is developed, the teacher has taught and the student has learned. Therefore, to measure the effectiveness of vocational agriculture instruction in a given school or schools, specific standards are necessary for guides. To determine the extent to which vocational agriculture instruction has been effective in Houston County Negro schools, the following procedures were used in analyzing and interpreting the data found in the survey.

10

Supervised and Directed Evening School Practices, Washington, D. C., Federal Board For Vocational Education, 1930, p. 9. 1. The major objectives of education in vocational agriculture were used as a guide to determine the effect of instruction as reflected in the farmers' reactions to adopt farm and home practices.

2. Evidence factors were set up to determine whether these major objectives have been reached through this type of organized instruction by evening school members surveye surveyed.

3. Evaluation of factors of evidence was computed on the basis of prevailing government and local prices of commodities and services rendered at the time the surveys were made.

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Educational Objectives In Vocational Education In Agriculture, Washington, D. C., Federal Board For Vocational Education, 1930, p.5.

B. Criteria

The major objectives of vocational education in agriculture are to develop effective abilities to: 12

1. make a beginning and advance in farming;

2. produce farm commodities efficiently;

3. market farm products advantageously;

- 4. conserve soil and other natural resources;
- 5. manage a farm business, and

12

6. maintain a favorable environment.

C. Factors of Evidence

The study was confined to practices improved, with monetary evaluations, in the following enterprises as factors of evidence:

- 1. Soil Conservation 4. Field Crops
- 2. Livestock Improvement 5. Home Orchards
- 3. Poultry Improvement 6. Home Improvement

Training Objectives In Vocational Education In Agriculture, Washington, D. C. , Federal Board For Vocational Education, 1930, p.8. Before undertaking to analysyze and interpret the data on evidence factors used for measuring effectiveness of instruction in vocational education in agriculture with the group studied, it is important that certain information bearing upon the social and economic background of these men and their families be considered.

The surveu shows that these men are heads of families which range in size from two to twelve with an average size of five. The aggregate family membership was 547.

Tenure as farm operators is distributed as follows: owners, 60; third-and-fourth renters, 29; cash renters,9; and sharecroppers,2.

Eighty eight subscribed for farm magazines and 74 subscribed for daily newspapers.

They owned 48 cars and 74 radios.

The aggregate farm operating expenses for the 12 months' period were \$15,218.48 or an average of \$152.18 per family.

Further information concerning their social and economic background is given in appendices K and L. 20

D. Production Enterprises Studied As Evidence Factors

In keeping with the criteria objectives of vocational education in agriculture for measuring evidence factors for effectiveness of instruction, it may be well to restate here that each farmer surveyed was an evening school member who carried a supervised farming program, and, therefore, was established in farming.

The enterprises studied as evidence factors for determining the effectiveness of vocational agriculture instruction are shown in Table 1.

TABLE I						
DISTRIBUTION OF FAMILIES BY TYPES AND SCOPE OF ENTERPRISE						
	PRACTICES	IMPROVED				
Hard Hard Hard Hard Hard Hard Hard Hard						
Enterprises	No Families	No of Types				
	Participa-	of Practice				
	ting	Improved	Improved			
Soil Conservation	53	5	1,715 Acres			
Livestock Improve-						
ment	65	10	1,857 Head			
Poultry Improvement		9	4,706 Head			
Home Orchards	35	4	1,404 Trees			
			386 Acres			
Field Crops	59	6	112 Bus.			
			19 Hotbeds			
			20 Toilets			
Home Improvement	39	3	16 Homes			
			62 Screens			

In the discussion which follows, an attempt is made to analyze and interpret abilities acquired based on the knowledge of the farmers to recognize problems and their efforts to improve practices in given enterprises. As pointed out by Schmidt and Ross¹³, "The best time for any one to learn anything is when he needs it. This is the basis of the fundamental argument for adult education."

This analysis was limited to six farm enterprises and involved the number of families participating, types of practices improved, and scope of practices improved. There was a total of 37 practices improved. The number of types of practices varied by enterprises.

Table I page 21 shows a variance in the number of families participating by enterprises. A family was counted only once regardless of the number in it. Four of the enterprises had more than 50 families each improving practices distributed as follows: poultry improvement, 73; livestock improvement, 65; field crops, 59; and soil conservation,53. Livestock and poultry had the greatest number of types of practices improved with ten and nine respectively.

Table II page 23 shows a general working analysis of all the production enterprises studied. The kinds of practices improved, number of units improved, number of families reported for each practice improved, and the average number of units improved per family are shown. A basis for analyzing and interpreting the data from a relative participation point of view is evident.

Schmidt and Ross, <u>Teaching Evening and Part-time Class-</u> es In Vocational Agriculture, New York, The Century Company, 1932, p.124. 22

ANALYSIS OF EMPERENCISES BY TYPES AND SCOPE OF PRACTICESIMPROVED, FAMILIES REFRESEMPED, AND AVERAGE SCOPE OF PRACTICESTYPES OF Fractices ImprovedProved By EnterprisesImprovedSoil ConservationSented Fer FamilySoil ConservationSented Fer FamilySoil Conservation1.Terracing692 Acres2330.1 Acres2.Contour cultivation4982810.6Acres 2330.1 Acres2.Contour cultivation4982810.628.0Livestock Improvement16728.0Livestock Improvement1.Veacination988Head5020Head2.Worming33014243.Feeding174555J.Furgeting4141078Castration547State control31112.Coation info6921J.Worming3,3136055J.Jengeding41410.Head210<	TABLE II					
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5.Seed testing11256.Hotbed construction19 Hotbeds141 HotbedHome Orchards1.Budding12 Trees34 Trees2.Grafting4313.Pruning64127244.Spraying7472728Home Improvement16 Homes161 Home2.Whitewashing20 Toilets201 Toilet			Busnels		3	Busnels
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					1	
3. Screening 62 Screens 19 3 Screens					1	
	3.Screening	62	Screens	19	3	Screens

E. Soil Conservation

Soil conservation must make use of a wide variety of corrective measures which should be adopted to local conditions. Although the immediate effects of conservation practices in crop yields are of less importance that the lasting benefits to crop production, certain practices will modify yields appreciably the first year.

In July, 1941 when this investigation began, it was observed on personal visits to a number of those farms that conservation practices in soils consisted of terracing, contour cultivation, crop rotation, use of cover crops, and a few cases of pasture improvement.

Table III shows the distribution of types and scope of practices improved by the 100 farmers surveyed.

TABLE III					
ANALYSIS OF SOIL CONSERVATION BY TYPES AND SCOPE OF FRAC-					
TICES IMPROVED, FAM	ILTES REPR	ESENTED. AND	D AVERAGE SCOPE		
OF P	RACTICES T	MPROVED PER	FAMILY		
		Families	Average Number		
m	The films				
Types of Practices	Units		of Units Improv-		
Improved	Improved	sented	ed Per Family		
Soil Conservation					
1. Terracing	692 Acres	23	30.1 Acres		
2. Contour Culti-	000 1101 00	20			
	100	00	10 0		
vation	498	28	10.6		
3. Cover crops	218	14	15.6		
4. Pasture Improve-					
ment	167	10	16.7		
		5	00 0		
5. Crop Rotation	140	0	28.0		

TABLE III

The aggregate number of acres improved through soil conservation practices was 1,715. The order in which these practices improved ranked according to the number of families represented is as follows: contour cultivation, 28; terracing, 23; cover crops, 14; pasture improvement, 10; and crop rotation, 5. The average number of units improved per family reporting was: terracing 30.1 acres; crop rotation, 28 acres; pasture improvement, 16.7 acres; cover crops, 15.6 acres, and contour cultivation, 10.6 acres.

F. Livestock Improvement

It is shown in Table IV that there were 1,856 head of livestock, including cattle, horses, and hogs, handled, and one hog house constructed in the improvement of livestock production. Of the ten practices improved, there were the greatest number of families participating in vaccination and fitting and showing. However, the highest average number of units improved per family was in the practices of feeding and judging and selection. Although feeding ranks fifth in the number of families participating in improving this practice, it holds third place in the number of units improved, and first place in the average number of units improved per family.

	T.	ABLE I	V				
ANALYSIS OF LIVESTOC							
PRACTICES IMPROVED,	FAM	ILIES .	REPRESENTI	ED, ANI	D AVERAGE		
SCOPE OF PRA	STIC.	ES IMP.	the second se				
Types of Practices Units Repre- Units Improved Pe							
Improved			sented				
Livestock Improvemen	t						
			50		Head		
2. Worming		Head	14		Head		
3. Feeding	174	Head	5	35	Head		
4. Fitting and Show-	770	Tread	01	c	Tread		
ing	130	Head	24	0	Head		
5. Judging and Se- lecting	108	Head	4	27	Head		
		Head	7		Head		
7. Breeding		Head	4		Head		
8. Insect control +			4 3 1		Head		
9. Disease control	3	Head		3	Head		
10. House Construction			1	1	House		

As distinguished from disease control by vaccination and worming. It is the use of repellants and drenching.

This distribution indicates the phases of interest in improving practices of this enterprise as revealed in the number of participating families, of the 100 farmers surveyed.

G. Poultry Improvement

Four thousand seven hundred six birds were treated or otherwise handled in this production enterprise. The largest number of birds was treated for worms. The largest number of families participated in this practice of improvement.

Table V shows the analysis of this enterprise by types and scope of practices improved, families represented, and average scope of practices improved per family.

	TABLE V		4
ANALYSIS OF POULTRY IN	PROVEMENT BY	TYPES AND	SCOPE OF PRAC-
TICES IMPROVED, FAMIL	IES REPRESENT	ED, AND AV.	ERAGE SCOPE OF
		PER FAMILY	
Types of Practices	Units	Families	Av.No Units
Improved	Improved	Repre-	Improved Per
		sented	Family
Poultry Improvement			
1.Vaccination	20 Head	2	10 Head
2.Worming	3,313	60	55
3.Breeding	214	8	36
4.Feeding	346	12	29
5.Insect control*	352	11	32
6.Disease control*	335	4	84
7.Fitting & Showing	126	13	10
8.Egg candling	87 Dozen	10	9
9.Egg grading	118	16	8

*As distinguished from insect and disease control by vaccination and worming. It is dusting and spraying birds, roosts, walls, floors, and ceilings, and the use of both liquid and powdered medicines in drinking water and feed.

Worming is predominantly used as a precautionary measure in controlling certain diseases in the flock with 60 persons treating an average of 55 birds each. The highest average number of birds treated per family was for disease control, with rour families treating an average of 84 birds each.

H. Field Crops

This enterprise was broken down into six improved practice groups: (1) winter breaking of land, (2) cash crops other than cotton, (3) seed selection, (4) and seed inoculation, (5) seed testing, and (6) hotbed construction. As shown in Table VI this group includes three basic factors for efficient production and farm management as observed in the frequency of farmer-interest in soil preparation, cash crops other than cotton, and seed selection and treatment. These practices were used by 14 to 25 per cent of all farmers surveyed.

	T	ABLE VI	and the second second						
ANALYSIS OF THE FIEL	JD CR	OP ENTE	RPRISE BY	TYPE	ES AND SCOPE				
PRACTICES IMPROVED	FAM	TLTES B	EPRESENTE	D. AN	ID AVERAGE				
	PRACTICES IMPROVED, FAMILIES REPRESENTED, AND AVERAGE SCOPE OF PRACTICES IMPROVED PER FAMILY								
Average Number									
			17						
			Families		actices Im-				
Types of Practices	Units		Repre-						
Improved	Impr	oved	sented	Family					
Field Crops									
1. Winter breaking									
of land	208	Acres	14	15	Acres				
2. Cash crops other									
	187	Acres	25	5	Acres				
3. Seed selection					Bushels				
A Good serection	25	Dushela	17		Bushels				
4. Seed inoculation					the second se				
5. Seed testing	11	Bushels	1 2	5	Bushels				
6. Hotbed construc-									
tion	19	Hotbeds	14	1	Hotbed				

Winter breaking of land was practiced by 14 families who broke an average of 15 acres each or a total of 208 acres. The practices designed to improve seed through selection, inoculation, and testing were participated in by 38 of the 100 farmers surveyed. These efforts to: (1) improve soil texture Assmall margin is shown between the number of acres winter broken and the number of acres planted to cash crops other than cotton.

The 19 hotbeds were constructed by and used by 14 families.

The cash crops other than cotton most common to Houston County are: tomatoes, blackeyed peas, white and sweet potatoes, peanuts, and sugar cane for syrup. The average acreage per family devoted to this practice was five. Twenty-five families planted crops of this type.

14. Burkett, Charles Williams, "Farm Crops", New York, Orange Judd Company, 1913, p.4.

I. Home Orchards

Operative skills were developed in the four practices improved. Four types of practices were improved with 1,404 trees. They were budded, grafted, pruned, and sprayed. In some instances, as revealed by the survey, all four practices were carried out on the same farm by the same family. Data on home orchard improvement are shown in Table VII.

TABLE VII

ANALYSIS OF THE HOME ORCHARD ENTERPRISE BY TYPES AND SCOPE OF PRACTICES IMPROVED, FAMILIES REPRESENTED, AND AVERAGE SCOPE OF PRACTICES IMPROVED PER FAMILY								
Types of Practices Improved	Units Improved	Families Repre- sented	Average Number of Practices Improv- ed Per Family					
Home Orchards								
1. Budding 2. Grafting 3. Pruning 4. Spraying	12 Trees 4 Trees 641 Trees 747 Trees	3 3 27 27	4 Trees 1 Tree 24 Trees 28 Trees					

Of the 1,404 trees improved, 45.6 per cent were pruned and 53.6 per cent were sprayed. The ratio of the number of families budding and grafting trees to the number of families pruning and spraying trees is 1:9.

J. Home Improvement

Although not listed as types of improved practices as evidence factors in home improvement, a review of the questionnaires and notes from observation reveal that several homes were landscaped; yards levelled, shrubs, flowers, and trees were planted and transplanted, lawns sodded and mowed, drainage ditches opened and maintained, steps made and installed, roofs of houses both repaired and covered completely. All these improved practices were found in most of the twenty homes participating in the other three improved practices given in Table VIII.

	TABLE V.		
ANALYSIS OF HOME IM	PROVEMENT,	TYPES AND SC	OPE OF PRACTICES
IMPROVED FAMILI	ES REPRESEI	NTED AND AVE	RAGE SCOPE OF
		D PER FAMILY	
			Average Number
Types of Practices	Units	Families	of Practices
Improved	Improved	Represented	Per Family
Home Improvement			
1. Painting	16 homes	16	1 home
2. Whitewashing	20 toilet:	s 20	l toilet
3. Screening	62 screen		3 screens

Practices improved in this enterprise for which there were most tabulated data are: painting, whitewashing, and screening.

The average units improved per family reporting in those practices are for: painting, 1; whitewashing, 1; and screening, 3.

The survey shows that 16 families adopted all these im-

proved practices. Schmidt⁵ states that:

"Favorable environment condition attitudes, and that something is really learned when it influences one's action, one's thinking, or one's attitude toward things in general in such a way that the individual from a social point of view is a better individual than he formerly was."

15. Schmidt, G.A., "Teaching Evening School and Part-time Classes", New York, The Century Company, 1931, p.10.

K. Farm Problems Revealed

The author sought in his study to: (1) discover the farm problems presenting the greatest difficulty for solution, (2) ascertain the farmers' opinions respecting their progress in their farm business, and (3) find the points of attack which could be used by the vocational teachers in offering solutions for the problems discovered.

The investigation of the 100 farmers surveyed showed a check of 190 problems presenting difficulty for solution distributed as follows on a percentage basis of all problems checked by farmers; farm planning, 54 per cent; farm credit, 19.2 per cent; insect and disease control, 12.6 per cent; poor land, 10 per cent, and overflows and droughts, 4.2 per cent.

The records in the files of the vocational agriculture teacher's department of the school districts in which these surveys were made and the survey of the vocational agriculture teachers' course outlines showed that the foregoing problems were included in their respective programs of work covering the period prior to and during the time this study was being made.

The fact that the farmers recognized these problems and efforts to solve them through the adoption of improved practices reflect an attitude of cooperation between the vocational agriculture teachers and farmers, for as J. C.

Wright states:

"Problems in supervised practice are not formulated by the teacher or studied for their own sake, but they are dealt with because they occur as factors and difficulties in real farm jobs. In improving these practices, knowledge was sought for its use and not simply for its sake. According to the psychological law of effect, learning progresses in proportion to satisfying outcomes. Success with projects and practices not only helps to insure effective learning, but it spurs the learner on to greater understanding so that the results of such procedures are cumulative."

The problems were divided into five groups with a range of frequency of occurrence by groups from 4.2 per cent to 54 per cent and a range of frequency of problems of all groups from 1.6 per cent to 26.8 per cent. Problems grouped were as follows: farm planning, 54 per cent; farm credit, 19.2 per cent; insect and disease control, 12.6 per cent; poor land, 10 per cent; and overflows and droughts, 4.2 per cent. Farm planning not only showed the greatest number of problems, but also the highest per cent of frequency. The six, in this group, out of the twelve problems in all listed for solution, represent 54 per cent of occurrence of all problems.

Too few cash crops head the list with 26.8 per cent of

16 Wright, J. C., <u>Supervised Practice in Agriculture</u> <u>Including Home Projects</u>, Washington, D. C. Federal Board for Vocational Education, 1930, p. 2. total problems. Fifty-one farmers expressed in their answers to the investigation that their incomes were being limited by this difficulty. Eleven of the twelve problems listed were placed for primary solution under the educational approach of attack for solution. The twelfth problem, overflows and droughts, was placed in the natural cause group. Overflows may be overcome in some instances as well as droughts, but in either case, the magnitude of the task necessitates cooperation of many.

It is usually solved through government agencies by building levees, dams, and in case of droughts providing water supply and irrigation ditches.

The farms reporting were not so located in watershed areas for the profitable building of levees and providing ditches. Table IX shows the problems presenting the greatest difficulties for solution and the distribution of them on the basis of frequency of occurrence. It also shows the groupings for the points of attack for solution. Most of the problems are grouped for solution in an educational approach. Knudson¹⁷ states: "It should be remembered that difficulty in and of itself is not educative, but on the other hand, overcoming difficulty may be highly educative."

TABLE IX DISTRIBUTION OF FARM PROBLEMS ON THE BASIS OF PERCENTAGE OF FREQUENCY OF ODCURRENCE IN THE SURVEY AND ON THE POINTS OF ATTACK FOR SOLUTION Points of Attack for Problems Percentage of solution of problems Frequency of Edu. Monetary Natural Occurrence Farm Planning 16.6 1. Unbalanced program 32 2. Poor Care of tools 13 6.9 51 3. Too few cash crops 26.8 3 4.0ver cropping 1.6 4 5. Under cropping 2.0 54.0 Farm Credit 21** 21** 11.1 1.Finance

6** 6** 2.Team 3.2 97* 4.9 19.2 9~* 3.Equipment Insect and Disease control 12** 12** 12* 1.Harmful insects 6.3 2.Plant and animal 12* 12** 12** 12.6 6.3 diseases 10.0 10.0 19 Poor Land 8 Overflows & Droughts 4.2 4.2 100.0 100.0 146 36 Total

*Problems may be solved by approaches indicated, but ** Do not add numbers so indicated in respective columns.

17

Knudson, C. W., <u>Evaluation and Improvement of Teaching</u> Garden City, New York, Doubleday Dorn Publishing Company, 1932, p. 11. Table X shows the distribution of the degree of interest of participating families, number of practices improved, and units of practices improved by enterprises. It will be noted that enterprises having the greatest number of participating families do not always have the greatest number of practices to improve. Poultry improvement does not only show the greatest number of participating families, but also shows the greatest number of total units of practices improved.

and the second	TABLE X		
DISTRIBUTION OF ENTER	PRISES ON BASES	OF RANK,	NUMBER OF
PARTICIPATING FAM			
Enterprise Rai	nk Partici-	Rank	Practices
	pating		Improved
	Tamilies		£.
Poultry Improvement .	1 73	2	9
Livestocl Improvemt	2 65	1	10
Field Crops	3 59	3	6
Soil Conservation	+ 53	4	5
Home Improvement	5 39	6	3
Home Orchards	5 35	5	4

TABLE XI

DISTRIBUTION OF INCREA	SED PRODUC	TION BY ENTER	PRISE, FAM-
ILIES REPRESENT			
Enterprise	Families		l Production
	Repre-	Total	Av.Per Fam-
	sented		ily
Livestock Improvement	65	\$25,275.00	\$388.85
Field Crops	59	4,260.50	72.21
Home Orchards	35	2,808.00	80.25
Soil Conservation	53	2,548.00	48.08
Poultry Improvement	73	1,954.00	26.77
Home Improvement	39	1,728.50	44.32

In Table XI is shown that livestock improvement exceeds the total of the other five enterprises. Poultry, although has the largest number of families participating shows the lowest family average income from the enterprise. L. Monetary Evaluations Of Practices Improved

To evaluate, on a monetary or percentage basis, commodities, services or other units of different nature and commercial values, it is necessary to reduce same to some kind of common factor.

In an attempt to evaluate for percentage of participation and percentage of unit values to determine the proportionate contribution of the respective participants and units of practices to the development of an enterprise or an enterprise to the development of a farming program, the following course of reasoning was used as a procedure:

1. The improvement of any unit of practice is an improvement of the enterprise of which it is a part.

2. Participating personnel improving units in a practice contribute to the improvement of that enterprise in proportion to the number of units and respective unit values they improve.

3. If units of different practices and of different values but all of the same enterprise are improved, they contribute to the enterprise development on a proportionate basis of the respective unit values.

In Table XII is shown an effort to evaluate the practices improved as services rendered in the development of supervised farming programs over the period of twelve months from July 1941 to July 1942 by the 100 farmers surveyed. It shows the monetary evaluations of thirty seven improved practices of the six farm enterprises analyzed. There were ten different types of units of practices: acres of land, heads of livestock and poultry, dozens of eggs, hoteds beds, houses, toilets, trees, bushels, homes, and screens, with each having different values.

For the purpose of this study, these ten units were classified and evaluated according to the:

 point of view for improving, whether for immediate or lasting effect;

2. ability necessary to acquire the skill to improve the unit;

3. contribution made to the development of the practice or enterprise;

4. commercial value of the unit improved;

5. service value to the practice or enterprise of the unit improved;

6. amount of saving or investment realized in improving the unit;

7. production or conservation value of the unit improved;

8. size, weight, grade, and breed in livestock and poultry;

9. lowest estimate on quantity of one crop of fruit on one tree in the home orchards;

10. prevailing prices per bushel of the different kinds of seed as such in the field crops:

- 11. dimensions and quality of material as such in hog house and hotbed construction.
- 12. dimensions and quality of material used as such in home improvement.

DISTRIBUTION OF MONETAR BY	Y EV	ALUAT:		PRACTICES	5 IMPROVED
Types of Practices	560	10 1	Units I	mproved	
Improved	Sec		Unit		Enterprise
By Enterprises	Uni			Value	Value
Soil Conservation					
1.Terracing	692	Acres	\$2.50	\$1,730.00	
2.Contour cultivation	498		.50	249.00	
3.Cover crops	218		.50	109.00	
4.Pasture improvement	167		1.50	250.50	
5.Crop rotation	140		1.50	210.00	\$ 2,548.00
Livestock Improvement					
1.Vaccination	988	Head		\$19760.00	
2.Worming	330		5.00		
3.Feeding	174		10.00	1740.00	
4.Fitting and showing	136		5.00	680.00	
5.Judging and selectng	108		5.00	540.00	
6.Castration	54	••	5.00	270.00	
7.Breeding	41		10.00	410.00	
8.Insect control	22	••	2.50	55.00	
9.Disease control	3		35.00	105.00	or 005 00
10.Hog House Constructn	1	House	15.00	15.00	25,225.00
Poultry Improvement	20	Trand	TE	15 00	
1.Vaccination		Head	•75	15.00	
	,313	••	•75	628.25 160.50	
3.Breeding	214	••	•75 •75	259.50	
4.Feeding	346 352		.75	264.00	
5.Insect control	335	••	.75	251.25	
6.Disease control	126	••	.75	93.50	
7.Fitting and showing 8.Egg candling	87	Dozen		34.80	
9.Egg grading	118		.40	47.20	
Field Crops	110				-,
1.Winter breaking land	208	Acres	10.00	2080.00	
2.Cash crops	187		10.00	1870.00	
3.Seed selection		Bus.	1.50	99.00	
4.Seed inoculation	35		1.50	52.50	
5.Seed testing	11		1.50	16.50	
6.Hotbed construction	19	Hotbd	s 7.50	142.50	4,260.00
Home Orchards					
1.Budding	12	Trees		24.00	
2.Grafting	4		2.00	8.00	
3.Pruning	641		2.00	1282.00	
4.Spraying	747		2.00	1494.00	2,808.00
Home Improvement		-		-/	
1.Painting			100.00	1600.00	
2.Whitewashing			ts1.00	20.00	
3.Screening		Scrns	1.75	108.50	And and an an and an an an an an an an an an and an and
Grand total for all en	terp	rises			\$37,323.50
	and a second second				

TABLE XII

CHAPTER IV

SUMMARY OF FINDINGS AND CONCLUSION .

A. Summary Of Findings

The survey revealed that there were 319 farmers enrolled in Evening School classes of the eight school districts included in this study, and that 346 farmers in these school districts were not enrolled in Evening School classes. It is shown that 52 percent of the farmers in these school districts are not enrolled in this type of organized instruction. No check was made of these farmers who were not enrolled respecting their problems or successes. The purpose of the study was to ascertain how well the instructions to the organized group reflected improvement with the number and kinds of practices improved. The monetary evaluations of the practices improved were compared with the average gross income of all farmers of the Southwest region for the same period as shown by the l6th census of the United States.

In an effort to determine the effectiveness of vocational agriculture instruction in the eight school districts of Houston County, a study was made of the supervised farming programs of 100 of these 319 farmers enrolled in Evening School classes and of the programs of work of the eight vocational agriculture teachers employed in these schools. Effectiveness of instruction was to be determined by: (1) the number and kinds of enterprise practices improved as a result of instruction received in the evening school classes evaluated from a monetary standpoint on the basis of allowances for production and conservation practices of the Agricultural Adjustment Agency for the years 1941,1942, and 1943, and on the prevailing prices of commodities and services rendered on a local commercial basis, (2) the conformity of the course content of the vocational agriculture teachers to the expressed opinions of farmers surveyed respecting problems presenting the greatest difficulty for solution, and (3) ascertaining the farmers' attitudes respecting cooperative efforts in solving farm problems on the basis of instruction and their reactions as reflected in the maintenance of a favorable environment.

The answers to three questions were sought: (1) how much money has been made or saved because of the instruction? (2) how well has instruction been given in keeping with local farmers' needs? and (3) how have farmers reacted to progress generally?

The 100 farmers were found to be engaged in a diversity of activities of which an investigation was made of six of their major farm enterprises: soil conservation, livestock improvement, poultry improvement, field crops, home orchards, and home improvement. It was found that, in the six enterprises, they were improving thirty seven practices in their

supervised farming programs under the supervision of their respective vocational agriculture teachers. An evaluation of these practices improved was based on the production and conservation practices allowances of the Agricultural Adjustment Agency for the years 1941,1942, and 1943. Hand Books for this agency for those years were used in computing the evaluations; also prevailing local prices for commodities and services rendered for these respective units of practices in the various enterprises were used in making evaluations.

The thirty seven practices improved were distributed by enterprises as follows: soil conservation, 5; livestock improvement, 10; poultry improvement, 9; field crops, 6; home orchards, 4; and home improvement, 3.

The evaluations of practices improved were: soil conservation, \$2,548.00; livestock improvement, \$25,275.00; poultry improvement, \$1,954.00; field crops, \$4,260.50; home orchards, \$2,808.00, and home improvement, \$1,728.50. The total monetary evaluations for improved practices in the six farm enterprises was \$38,574.00, or an average of \$385.74 for each of the 100 farmers surveyed.

In a release from the Soil Conservation Service, dated February 11,1944, the report, "Increased Production Survey", states that the increased production for 475 farmers in the region comprising the states of Texas, Oklahoma, Arkansas, and Louisana, represented a saving of \$58,250.00.

This is an average of \$123.00 increased production per farmer reporting on improved practices. This region, however, covers a very much wider area also a wider range of soil types and climatic conditions presenting all kinds of problems and enterprises than that included in the area of the 100 Negro farmers surveyed for this study in Houston County, Texas.

The survey of the vocational agriculture teachers' programs of work showed that the twelve problems, listed by the 100 farmers as presenting difficulties for solution, were included in the evening school class instruction. The problems listed were selected from the **an**terprises which were included in the supervised farming programs. Seventy seven percent of the problems were designated for solution under the educational approach, 19 percent under the monetary approach, and four percent of them were classified as due to natural causes, hence, no specific solution designed for their solution in this geographical area.

Home improvement practices were primarily in painting, whitewashing, and screening. They reflect an awakening to the consciousness that status as a worthy citizen in a community is implemented through improvement in the home environment. The investigation, including the questionnaires, and personal observations, revealed that in addition to the three primary practices improved that there were many yards landscaped: shrubs and flowers planted and transplanted; lawns levelled, sodded, and mowed; and drainage ditches opened and maintained. Steps were repaired and replaced with new ones, and roofs of dwellings repaired and new ones put on.

B. Conclusion

On the bases of information revealed, there is a great opportunity for training in the phases indicated for solution through an educational approach. It is shown by the nature of the 77 percent of the difficulties recognized by the 100 farmers that concentration of efforts in both planning and improving are within the scope of activities for which skills may be acquired and abilities developed.

It is indicated that the philosophy of success based on monetary gains was envisioned by only 25 percent of farmers surveyed as evidenced in the fact that they planted cash crops other than cotton and even in that effort there was only an average of 6.6 acres per family devoted to this practice.

The amount of financial outlay for operational expenses based on an average of \$152.18 per family as shown in appendix L indicates one of two conclusions: (1) a clinging to the tradition of self sufficing farming, or (2) a prevalence of a low standard of living derived from farming on the part of the farmers surveyed. If either or both conditions obtain, herein lies a body of knowledge which vocational agriculture teachers may recognize and prepare to reckon with in planning succeeding farming programs of work with the cooperative efforts of evening school members.

RECOMMENDATIONS

- 1. A farm-unit plan involving all general farming enterprises of the immediate vicinity should be encouraged by vocational agriculture teachers in their respective evening school classes.
- 2. The scope of instruction should be so planned by vocational agriculture teachers that margins of profit may be realized because of the increased production made possible through adoption of improved farm practices.
- 3. A community should be made conscious of all current agricultural problems which arise in the local situation.
- 4. Systematic reading courses so planned for all adults in a community to cover all farm practices improvable should be made a part of the department's program of work.

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DTORDTDUMTO	1 CTO 1		APPENDI					2220123	
DISTRIBUTIO ING THE GRE						FROBI			
						and the second se			
Problems C	rock-	Glov-	Grape-	Gude-	Ken-	Love-	P'tr	Post	To-
0	tt	er	land	blye	nard	lady	Spr.	Oak	tal
Poor					1.1				
land		4	4	6	1		4		19
Mag Par									
Too few cash crops	7	2	1	4	8	12	9	8	51
cash crops		6	+	R	0	16	0	0	OT
Over-									
cropping	1			1				1	3
Under-									
cropping		1		2		1			4
77									
Frequent		2		1			5		8
OVELITOMS		6		-			~		0
Harmful									
insects	3	1	1	2	1	4			12
Plant and									
animal dis	-								
eases	3			1	3	4	1		12
Dian									
Poor		6		3					9
equipment		0		0					
Too little			2						
finance		7		1		1	2	1	14
Limited							~		7
credit		4		1			2		1
Insufficien	t	1		3			2		6
team		+		0			~		
Poor									
management	1	1		4	•		4	1	11
0									
Unbalanced									~
program	2	2		2	2	3	5	5	21
171 5 1 5 10 6 10 5 1.									
Poor care of tools									
and team		2		1	3	2	5		13
Total	17	33	8	32	18	27	39	16	190

APPENDIX A

		1	APPI	ENDIX	B				1 the state
DISTRIBUTIO	N OF 1	JNITS VATIO		ACTICI		APROVI	and the second se	DIL C	ONSER-
		•			0 024				
Practices	Crock	Glov	Grape	Gude	Ken	Love	Porter	Post	Total
Improved	ett	er	land	blye	nard	ilady	Spring	Oak	Acres
Terracing	125	175	40	56	60	15	206	15	692
Contour cul tivation	95	102	70	15	10	11	115	80	498
Crop rota- tion	100	15	10			6		10	140
Pasture im- provement	15	20	18	15	16	38	26	21	167
Cover crops	A 1 / water and a second	21	13	31	16	8	55		218
Total	410	333	151	117	102	78	402	126	1,715

APPENDIX C

Practices Crock Glov Grape Gude Ken Love Porter Post Total Improved ett er land blye nrd lady Spring Oak Units Vaccination 99 167 58 134 70 73 340 47 988 Worming 140 45 38 36 24 37 10 330 Breeding 1 25 15 41 Feeding 12 150 174 Insect con- 10 22
Vaccination 99 167 58 134 70 73 340 47 988 Worming 140 45 38 36 24 37 10 330 Breeding 1 25 15 41 Feeding 12 150 174 Insect con- 36 36 36 37
Worming 140 45 38 36 24 37 10 330 Breeding 1 25 15 41 Feeding 12 12 150 174 Insect con- 25 15 41
Breeding 1 25 15 41 Feeding 12 12 150 174 Insect con- 12 10 174
Feeding 12 12 150 174 Insect con-
Insect con-
trol* 2 10 10 22
Disease con-
trol* 3 3
Fitting and
showing 43 93 136
Judging and
selecting 2 100 6 108
Castration 6 2 4 42 54
House construc-
tion 1 1
Total 300 228 98 269 70 144 685 63 1857

* As distinguished from disease control by vaccination and worming. It refers to treatment by repellants and drenching.

53

APPENDIX D DISTRIBUTION OF UNITS OF PRACTICES IMPROVED IN POULTRY IM-PROVEMENT BY SCHOOL DISTRICTS Practices Crock Glov Grape Gude Ken Love P'tr Post Total Improved ett er Units land blye nard lady Spr. Oak Vaccination 10 10 20 Worming 307 422 383 180 1251 770 3,313 Feeding 46 100 50 100 50 346 Breeding 4 110 50 50 214 Insect control 125 165 50 200 12 352 Disease control 64 68 36 110 57 335 Fitting and showing 10 40 126 14 62 Egg candling 312 564 168 1044 Egg grading 120 528 200 400 168 1416 Total 185 866 530 1036 1079 7166 693 680 2097

APPENDIX E

DISTRIBUTIC	N OF 1		OF PR.			IN F	LELD C.	ROPS
Types of Practices Improved	Crock ett	Glov	Grape land		Love lady	P'tr Spr.	Post Oak	Total Units
Cash crops	16	20	25	5	10	15	106	187
Fertilizer home mixed		300				100	-	400
Seed germi- nation Seed field	1	4	2			1	3	11
selected Seed inoc-	15	23	1			26	2	66
ulated	8	2	2	2		19	2	35
Land winter broken		22		41		149	6	208
House con- structed	2	2	2	2		10	1	19
Total	42	373	32	50	10	320	120	926

*Total units column represent the following measurements: 187 acres,400 lbs.,11 bushels,66 bushels,35 bushels,19 hotbeds,and 208 acres,respectively.

54

25.93

APPENDIX F DISTRIBUTION OF UNITS OF PRACTICES IMPROVED IN HOME ORCHARDS BY SCHOOL DISTRICTS Types of Crock Glov Grape Gude Ken Love P'tr. Post Total Practices ett er land blye nard lady Spr. Units Oak Improved Budding 12 12 Grafting 4 4 Pruning 62 50 117 100 75 70 167 641 Spraying 186 35 114 100 75 70 167 747 Spray material mixed 150 100 100 350 700 Total 248 231 251 300 150 100 490 334 2,104

ATO	TOTO	BIT	TV	0
Ar	P.E.	ND	IX	13

DISTRIBUTION OF UNITS OF PRACTICES IMPROVED IN HOME IMPROVE-MENT BY SCHOOL DISTRICTS

Types of Practices Improved	Crock ett	Glov			Ken nard		P'tr. Spr.	Post Oak	Total Units
Painting White-					2	1	13		16
washing Screening Mixing	3	3 3	1	1		1 5	10 50	1 4	20 62
whitewash Making	30	30	20				300		380
screens		2				16	50	2	70
Total	33	38	21	1	2	23	413	7	548

*The total units column represents the following items: 16 homes,20 toilets,70 persons,from 19 families making screen windows and doors,62 is the number of screens made, and 380 is the number of pounds of lime,salt,and flour used in mixing whitewash.

DISTRIE	UTION OI B			INES S TRICTS		IBED F	POR	
School	Magazines*							
District	A.P.J.	P.F.	F&R	C.W.	C.G.	S.R.	Total Subscribe ers	
Crockett		2	2	1			5	
Glover	2	5	2	1	4	2	16	
Grapeland	3	6	3	4	1	2	19	
Gudeblye		1	4	3			8	
Kennard		2	2	1	2		7	
Lovelady		4	1	1		2	8	
Porter Springs		10	3	1			14	
Post Oak		6	3	1	1		11	
Total	5	36	20	13	8	6	88	

APPENDIX H

*Abbreviations shown in Appendix H above are for the following magazines: A.P.J., the American Poultry Journal; P.F., The Progressive Farmer; Farm and Ranch; C.W., Capper's Weekly; C.G., Country Gentleman; and S.R., The Southern Ruralist.

		APPENDIX	I			
DISTRIBUTION OF	LOCAL CO	UNTY WEE	KLY PAPI	ERS SUB	SCRIBED	FOR BY
	SCI	HOOL DIS	TRICTS			
	The second second					
School	Grape-	Crock-	Crock-	Hous-	Love-	Total
Districts	land	ett	ett	ton	lady	Sub-
	Messeng-	Cour-	Demo-	County	Star	scrip-
	er	ier	crat	Times		tions
Crockett		4	6	1		11
Glover	38	1				4
Grapeland	8					4 8
Gudeblye		3	3	2		8
Kennard		2			5	7
Lovelady					9	9
Porter Springs		3	9	3		15
Post Oak		4	6	2		12
Total	11	17	24	8	14	74

56-52-

	TOMOBILES AND RADIO C CHOOL DISTRICTS	DWNERSHIP
School Districts	Automobiles_Owned	Radios Owned
Crockett	10	9
Glover	8	6
Grapeland	5	9
Gudeblye	3	9
Kennard	5	10
Lovelady	6	7
Porter Springs	7	12
Post Oak	7	12
Total	51	74

APPENDIX J

APPENDIX K

DISTRIBUTION OF FINANCIAL AGENCIES FURNISHING CAPITAL FOR OPERATING EXPENSES BY SCHOOL DISTRICTS *

School Districts	L.B.	F.S.A.	P.C.A.	Cred- it Mer- chant	A.A.A.		rent	Farm-
Crockett	3	1	1	1	3	1	2	12
Glover	7	1	2		1	1		12
Grapeland	7		2	3				12
Gudeblye	3	1	5	1	1	1		12
Kennard	8	+	1	1	1		1	12
Lovelady	8	1	1	2				12
Porter								
Springs	10	3			1	1	1	16
Post Oak	7	4	1					12
Total	53	11	13	8	7	4	4	100

*

These abbreviations are for the following agencies: L.B., local bank; FSA, Farm Security; PCA, Productive Credit Association; AAA, Agricultural Adjustment Agency.

	APPENDIX]									
DISTRIBUTION OF FARMERS' OPERATING EXPENSES BY										
SCHOOL DISTRICTS										
	a statistic and the second									
	Number of	Average	Aggregate							
	Farmers	Operating	Operating							
School Districts	Surveyed	Expenses	Expenses							
			#= = = = = = = = = = = = = = = = = = =							
Crockett	12	\$169.58	\$2,034.96							
Glover	12	140.83	1,689.96							
Grapeland	12	121.25	1,455.00							
Gudeblye	12	166.83	1,989.96							
Kennard	12	152.08	1,824.96							
Lovelady	12	152.08	1,824.96							
Porter Springs	16	182.81	2,924.96							
Post Oak	12	122.81	1,473.72							

APPENDIX M

DISTRIBUTION OF FARMERS SURVEYED ON BASIS OF AVERAGE AGE AND GRADE AND THE AVERAGE AND AGGREGATE FAMILY MEMBERSHIP BY THE SCHOOL DISTRICTS

School Districts	Average Age	Average Grade	Average Fam- ily Member- ship	Aggregate Family Member- ship
Crockett	48	5	6	53
Glover	57	7	5	75
Grapeland	55	5	4	62 56
Gudeblye	43	7	5	56
Kennard	43 43	7	5	72
Lovelady	45	6	6	59
Porter Springs	40	5	5	101
Post Oak	48	7	6	69
Total				547

APPENDIX N DISTRIBUTION OF THE ONE HUNDRED FARMERS SURVEYED AS TO TENURE BY SCHOOL DISTRICTS

School District	Owners	and the second second second second	nters 3rd & 4th	Share crop- pers	Total
Crockett	9	works .	3		12
Glover	8	1	3		12
Grapeland	6	2	2	2	12
Gudeblye	8	2	2		12
Kennard	5		7		12
Lovelady	6	1	5		12
Porter Spring	12		4		16
Post Oak	6	3	3	1941111111111	12
Total	60	9	29	2	100

APPENDIX O

and the second descent of the second of the second descent of the second descent of the second descent des	and the second se	and the second se	the second s	the second s		and the second sec	and the second second	the second s
DISTRIBUTION	OF M	EMBERSHI	PIN	ORGAN.	IZED	INSTRUCTION	AS	OF
FEBR	UARY	1,1942,	BY SC	HOOL	DISTR	ICTS		

School Districts	All- Day	Day- Unit	Part- time	Evening School	Total
Crockett	37	11	14	36	98
Glover	40			59	. 99
Grapeland	34	9	11	30	84
Gudeblye	49		12	46	107
Kennard	38		9	50	97
Lovelady	35	12	8	39	94
Porter Spring	37	16	11	43	107
Post Oak	29	21		16	66
Total	299	69	65	319	752

APPENDIX P DISTRIBUTION OF ORGANIZED INSTRUCTION MEMBERSHIP AND OTHER FARMERS NOT ENROLLED IN EVE NING SCHOOLS AS OF FEBRUARY FIRST 1942, BY SCHOOL DISTRICTS

School Districts	All- Day		Part- time	Evening School	Farmers not en- rolled	Total Potential Participa- tion
Crockett Glover Grapeland Gudeblye Kennard Lovelady Porter Spring Post Oak	37 40 34 49 38 35 37 29	11 9 12 16 21	14 11 12 9 8 11	36 59 30 46 50 39 43	41 44 48 42 44 41 55 31	139 143 132 149 141 135 162
rotal	299	69	65	319	752	1,504

APPENDIX Q

MEMORANDUM OF DATES OF ESTABLISHMENT OF VOCATIONAL AGRICULTURE DEPARTMENTS AND VOCATIONAL AGRICULTURE TEACHERS REPORTING FOR THIS SURVEY BY SCHOOL DISTRICTS

School Districts	and the second sec	Establishment Department	V. A. Teacher Reporting
Crockett		1932	J.H.Burns
Glover		1938	I.T.Williams
Grapeland		1941	J.J.Woods
Gudeblye		1926	T.H.Johnson
Kennard		1927	M.B.McCullough
Lovelady		1927	Grady Terry
Porter Spring		1930	H.C.Langrum
Post Oak		1925	L.W.Watson
Fodice*		1922	0.J.Anderson

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This school is located in Houston County, but is in a county line district (Pennington). It is operated under the jurisdiction of Trinity County. It was not included in this survey.

APPENDIX R QUESTIONNAIRE FOR FARMERS
1.NameAgeGrade
2.What is your tenure? Owner cash renter third-and-
fourth rentersharecropperNumber in family
3.Name of school district V.A.Teacher
4. How are your farm operations financed? Through: Local Bank
Farm Security Productive Credit Association
Emergency Seed and Feed Loan Credit Merchant
Personal cashLivestock salesAAA PaymentsOthers
5.Do you operate on a budget system? Do you follow it?
6.Do you have income from other sources other than your crops
and sale of livestock?What percent of your income is
derived from labor for your neighbor farmer?
7.Do you subscribe for local newspapers? List those which
you subscribe for
8.Do you seek information from your vocational agriculture
teacher when confronted with a difficulty?
9.Do you subscribe for a farm magazine?List those which
you subscribe for
10.About what is the operating expenses or your farm during
a normal year?
11.Do you own a car? A radio?
12.If you own a radio, do you include the Farm and Home hour
on your madio log?Or is it kep for family entertain-

ment only?

13. Is the general health of your family good ______fair_____er poor ____? Check the one which indicates condition.
14. If you have not succeeded as you think you should have as a farmer, check one or more of the following causes for your failure to do so:

A. Farm Planning

B. Farm Credit

1.Finance

3.Equipment

2.Team

1.Unbalanced program 2.Peer care of tools 3.Tee few cash crops 4.Over cropping 5.Under cropping

C. Insect and Disease Control

1.Harmful insects 2.Plant and animal diseases

D. Poor Land

E. Overflows and Droughts

15. Do you attend an evening school class regularly?

16. Check the farm practices in the following list that you have improved because of the influence of your vocation-

al agriculture teacher:

A. Soil Conservation

Practice Scope

1.Terracing	
2.Contour cul-	
tivation	
3.Crop rotation	
4.Winter cover	
crops	
5.Summer cover	
crops	
6.Pasture im-	
provement	

B. Livestock Improveme	nt
------------------------	----

Practice	Scope
1.Vaccination 2.Werming 3.Feeding 4.Breeding 5.Castration 6.Butchering 7.Insect con-	
trol 8.Disease con- trol 9.Fitting and	
showing LO.House con- struction	

C. Poultry Improvement D.Field Crops

.

Practice	Scope
Vaccination	
Worming	
Feeding	
Breeding	
Culling	
Caponizing	%
Insect control	
Disease control	
Egg candling	
Egg grading	
Fitting & Showin	g
House construc-	
tion	

	-
Practice	Scope
Cash crops	
other than ech	n. "
cotton	
Seed testing	
Seed inocula-	
tion	
Seed selection	
Hotbed con-	
struction	
Winter break-	
ing land	
Home mixing	
fertilizer	

E. Home Improvement

Practice	Scope
Painting	
Whitewashing	
Mixing white wash	1
Making screens	
Screening Landscaping	
Remodeling	
a.home	
b.out-houses	And a second

F. Home Orchards

Practice	Scope
Budding	
Grafting	
Pruning	
Spraying	7200
Insect control	
Disease con-	
trol	
	and the state of t

APPENDIX S QUESTIONNAIRE FOR VOCATIONAL AGRICULTURE TEACHERS
1.Name of school Address
2.Name of V.A.Teacher
3.Highest grade taught Distribution of organized in-
struction. All-day Day-unit Part-time
Evening schoolNumber of farmers in your district
not enrolled in evening school classes
4. How long have you been in your present location?yrs.
5.How long has vocational agriculture been taught in your
school district?years. How long have you taught vo-

6.Do you publish in your local county papers or elsewhere your outstanding project activities? Have your local publishers refused to take your reports and announcements for publication? Has the attitude of local publishers been congenial?

cational agriculture? years.

- 7.What is the distribution of the farmers of your district as to tenure? Owners Cash renters Third-andfourth renters Sharecroppers
- 8.Do you make regular or occasional visits to members of your evening school classes who are carrying supervised farming programs? Check one: Regular visits _____Occasional visits .
- 9.Do you hold meetings of an agricultural nature other than your evening schools?_____.

- 10. Do you secure project agreements from the boy's parents before enrolling the boy for supervised farming project activities? _____ Do you have copies on file in your department? _____.
- 11. How many farms have been bought?__Sold?__Lost?__Estates divided?___Since you have been teaching in that community?
- 12. If any farms have been bought who financed the deal or deals? Check which: Farm Security Administration______ Federal Land Bank___Local Bank__Private corporation______ Personal savings ____.
- 13. If any Negroes have lost or sold farms, how many of them were bought by Negroes? _____.
- 14. What other agencies of an agricultural nature operate in your district? Check: FSA_NFLA_PCA_EXTENSION SER-VICE__.
- 15. Check the following farm and home practices on which you have conducted evening schools or given information out otherwise?

A. Soil Conservation Practice	Scope	B. Livestock Improvement Practice Scope
Terracing Contour cultivation Crop rotation Cover crops a. winter b. summer Pasture improvement a. grubbing b. mowing Fertilizing Crop diversification		Vaccination Worming Breeding Castrating Butchering Curing meats Insect control Disease control Judging and Selecting House Construction Hog lot sanitation

C. Poultry Improvement

Practice	Scope
1.Vaccination	
2.Worming	
3.Feeding	
4.Breeding	
5.Caponizing	
6.Fitting&showing	
7.Judging&selectng	
8.Insect control	
9.Disease control	
10.Egg candling	
11.Egg grading	
12. House renovation	1
13.House construc-	
tion	
01011	

D. Home Improvement

Practice	Scope
1.Mixing paint	
2.Painting	
3. Mixing whitewash	
4.Whitewashing 5.Making screens	
6.Screening	
7.Landscaping	
8.Step repairing 9.Building steps	
10.Building pit toil	ets
11.Remodeling houses	
12.Repairing roofs	

F. Field Crops

Practice	Scope
1 Cash among other	
1.Cash crops other than cotton	
2.Home mixing fer-	
lizers	
3.Field selecting seed	
4.Inoculation of	
seed	
5.Hotbed construc-	
tion 6.Winter breaking	
land	

E. Home Orchards

Practice	Scope
1.Budding 2.Grafting 3.Pruning 4.Spraying 5.Insect control	
6.Disease control 7.Mixing spraying	
material	