## A STUDY OF THE ACCOMPLISHMENTS

BY TRAINERS WHILE ENROLLED IN "THE VETERARS AGRICULTURAL TRAINT 90, PROGRAM" IN OKLAHOMA

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### 1941

Submitted to the Agricultural Education Department Oklahoma Agricultural and Hechanical College In Partial Fulfillment of the Requirements

For the degree of

HASTER OF SCIENCE

STATE UNIVERSIT

FEB 2 1960

A STUDY OF THE ACCOMPLISHMENTS BY TRAINEES WHILE ENROLLED IN "THE VETERANS' AGRICULTURAL TRAINING PROGRAM" IN OKLAHOMA

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# TABLE OF CONTENTS

CHAPTER		PAGE
I.	INTRODUCTION	1
	Personnel	2 3
II.	PURFOSE OF THE STUDY	\$
	Delimitation	8 8
III.	SUMMARY OF THE THREE PROGRESS REPORTS ON THE VETERANS' ACRICULTURAL TRAINING PROCEAM IN OKLAFIOMA .	10
	Purchase of Equipment	12
IV.	REPORT ON INTENSIVE STUDY OF THREE REPRESENTATIVE SCHOOLS	33
V.	CONCLUSIONS AND RECOMMENDATIONS	56
BIBLIOCR	APHY	61
APPENDIX	* * * * * * * * * * * * * * * * * * * *	62
	<ul> <li>A. Questionnaire 1948 Progress Report</li> <li>B. Questionnaire 1949 Progress Report</li> <li>C. Questionnaire 1950-51 Progress Report</li> <li>D. Summery Results 1948 Progress Report</li> <li>E. Summary Results 1949 Progress Report</li> <li>F. Summary Results 1950-51 Progress Report</li> </ul>	

į

# TABLES OF TABLES

Table		Page
I	Number of Farm Veterans in Training in Oklahoma and Those Included in This Report	10
II	Farming Status of Oklahoma Veteran Trainees as Shown by Progress Reports	. 12
III	Machinery and Equipment Purchased by Trainees Through 1948 as Shown by Progress Reports	12
IV	January 1, 1950 Inventory Value and 1950-51 Increase in Inventory Value of Farm Equipment of Trainees as Shown by Progress Reports	13
V	Number and Kind of Livestock Owned by Veteran Trainees as Shown by Progress Reports	14
VI	Inventory Value of Livestock Owned by Veteran Trainees January 1, 1950 and Inventory Value Increase 1950-51 as Shown by Progress Reports	16
VII	Total Acres of Land Operated by Trainees and Scope of Certain Improved Practices Used as Shown by Progress Reports	19
VIII	Number of Veterans Completing Certain Soil Improvement Practices as Shown by Progress Reports	22
X	Number of Veterans Improving Livestock by Using Purebred Sires as Shown by Progress Reports	24
Х	Total Acres on Which Certain Pasture Improvement Practices Wore Completed by Trainees as Shown by Progress Reports	26
XI	Farm Home and Farmstead Construction Activities of Trainces as Shown by Progress Reports	28
XII	Conveniences Added to Dwellings by Voteran Trainces as Shown by Progress Reports	30
XIII	Trainees Producing and Processing Food for Home Consumption as Shown by Progress Reports	32
XIV	Number and Farming Status of Vetoran Trainees Included in Studies of Atoka, Guthrie, and Mangum Schools	35

žv

# LIST OF TABLES (Continued)

Table		Page
XV	Number and Kind of Livestock Owned by Trainees Included in the Study of Atoka, Guthrie, and Mangum Schools	37
XVI	Inventory Value of Machinery and Equipment Owned by Trainees in 1949 and the Increase in Such Value During 1950-51 as Shown in Three Sclected Schools	38
XVII	Average Inventory Value of Livestock Owned by Individual Trainces Fer Traince Value on Livestock Represented by Each of the Three Schools Included in the Studies of the Ateka, Cuthrie, and Mangum Schools	. 40
XVIII	Total Scope in Acres of Certain Soil Improving Proctices Carricd on by Trainees Included in the Studies of Atoka, Guthrie, and Mangum Schools	. lslo
XIX	Number of Trainees Completing Certain Soil Improvement Practices in the Three Schools Included in the Studies of Atoka, Guthrie, and Mangum	. 46
XX	Number of Trainces Using Purebred Sires Included in the Studies of Atoka, Guthrie, and Mangum Schools	48
XXI	Form Home Construction Activities of Veterans Included in Studies of Atoka, Guthrie, and Mangum Schools	50
XXII	Conveniences Added to Duellings by Voteran Trainces as Shoun by Progress Reports of Atoks, Cuthrie, and Mangum Schools	52
XXIII	Number of Trainees Producing and Processing Food for Home Use as Shown by Progress Reports of Atoka, Cuthrie, and Mangum Schools	55

i

# LIST OF MAPS

Map		Pago
3.	Nigh Schools Participating in Veterans' Agricultural fraining Program	99
で) 人 海	Schools Bose Veterins' Agricultural Training Program	32a

#### CHAPTER I

#### INTRODUCTION

The Veterans' Agricultural Training Program in Oklahoma was started in April 1946 as a division of the State Board for Vocational Education under the leadership of Mr. J. B. Perky, State Director. The first organized classes were started May 6, 1946, as an outgrowth of "on the job" farm training. Under the State Board for Vocational Education's contract with Veterans' Administration of Muskogee, the schools received \$20.00 per trainee per month and trainees received \$65.00 or \$90.00 per month subsistence, depending upon their dependency status.

#### Personnel

Earl May, Velden Swigart, and Marvin Anderson were the early organizers of the program, which expanded rapidly. The writer, Carl Smith, joined the staff on June 14, 1946, followed closely by Oris Taylor. In October 1946 Mr. Bonnie Nicholson, who was then Assistant State Supervisor of Vocational Agricultural Education, became State Supervisor of Veterans' Agricultural Training. Later, William R. Hare and Dale Dupy joined the supervisory staff. Cecil Maynard joined Earl May as Assistant State Supervisor and Dr. G. J. Dippold became Teacher Trainer.

Professor D. C. Jones of Langston University helped in organizing and supervising Negro classes. Dr. Jones was replaced later by Sam Fuhr of Okmulgee.

In 1947 eight additional District Supervisors joined the staff.

They were Sewell Skelton, Foreman Carlile, Jack Houser, W. D. Wyatt, Von Long, John Hightower, Clifford Burton, and Howard Richardson. These eight men as well as Taylor, Dupy, and Hare were instructors on Veterans' Agricultural Training Program before they became District Supervisors.

S. D. Center and L. O. Hansen served as auditors and accountants. Charles Thompson joined the Teacher Training Department and was assisted for a time by Joe Holmes. Murl Rogers replaced H. D. Myatt as Southeast District Supervisor and served until June 1951. At the present time, June 1952, there are nine district supervisors, two auditors, one teacher trainer, one assistant state supervisor and State Supervisor Nicholson on the State office staff. This list would not be complete without mention of the clerical personnel who handled the detail work so capably.

#### Classification of Training

The Veterans' Agricultural Training Program designed to meet the requirements of farm veterans under the G.I. Bill of Rights, quickly replaced the loosely organized "on the job" farm training program which operated with the veteran under a Farmer-Trainer, in most cases the trainee's father or father-in-law.

The State Board for Vocational Education was approved by the Veterans' Administration and the State Accrediting Agency to give training through the high schools to eligible veterans. The three status groups approved for training were as follows:

(1) Self-employed farm veterans having control of a unit of such size and character that it would support him and his family at the end of training.

- (2) Employer-Trainees, specialized, those working as herdsmen or managers on large ranches or dairies where purebred herds were kept.
- (3) Employer Trainee-Farmer General, where the veteran did not have managerial control but worked for wages under a superior farmer who agreed to teach him the business.<sup>1</sup>

Due to certain irregularities and abuses this last phase was later limited to one year by the State Accrediting Agency to protect the veterans' interests.

#### Previous Studies

The employer-trainees, as a group, made less material progress than trainees starting further up the <u>agricultural ladder</u>.<sup>2</sup> Married trainees with financial backing from their relatives but living on separate places and operating independently have made the most satisfactory progress on the program.

Robert T. McMillan<sup>3</sup> made an early, brief study comparing ninetythree farm veterans with fifty-three non-veteran farmers and found the non-veterans on better farms and having bigger operation than veterans in the same community. Fortunately, most of the heated talk of "draftdodging" and "gobbling up all the good land" has subsided over the past few years.

Nicholson<sup>4</sup> made an intensive study of the veterans' agricultural training and wrote a progress report on the Veterans' Agricultural

<sup>1</sup><u>State Plan of Operation</u>, Veterans' Agricultural Training Program <sup>2</sup>Progressing from hired hand, to renter, to part-owner, to full owner-operator.

<sup>3</sup>Robert T. McMillan, <u>Socio-Economic Study</u>, (1947)

<sup>&</sup>lt;sup>4</sup>Bonnie Nicholson, <u>A Progress Report on the Veterans' Agricultural</u> <u>Training Program</u>, (May 1, 1949)

Training Program in May 1949. This report dealt with the administrative problems and organizational operations on the state level, as well as trainees progress through 1948.

#### Nature of Instruction

The local program and course of instruction is based on needs of the trainees in that particular community and much of it is brought right home to problems pertaining to the particular farm the veteran is on. The law specifies that a large part of the instructor's time be spent giving individual instruction on the farm operated by the veteran trainee.

This type of organization has resulted in instruction being based on the farm as a unit, rather than an isolated enterprise or activity that might have very little influence on the success of the farm as a whole. Most of the veteran trainees have, from boyhood observations and experience, a working knowledge of the skills and operational jobs on the home farms but they lack the experience and self-confidence to successfully manage a complex farm set-up. This guided experience in farm management has accounted for the superior progress of selfemployed veterans as compared to employer-trainees.

The core of the farm management teaching is based on Dr. Dippold's "Major Factors of Successful Farming." These are:

- Superior size of business 1.
- Superior livestock efficiency 2.
- Superior crop production efficiency 3.
- Superior labor efficiency 4.
- 5. 6. Superior marketing efficiency
- Superior farm family food production

<sup>1</sup>G. J. Dippold, <u>Major Factors of Successful Farming</u>, (1950)

A more detailed explanation may be found in "Major Factors of Successful Farming." The major purposes of the program were stated by Dr. G. J. Dippold early in 1947 as follows:

Wishing to be successful farmers alone will not guarantee them that they will be such. Most young farmers do not know definitely the variations so commonly prevalent in success. They are generally hazy, too, about the specific requirements essential to future success. In the Veterans' Agricultural Training Program we hope to combine the basic urges of the individual veteran with a sound understanding of the needs for superior performance or attainment in agriculture. In guiding these trainees we accept the patterns of achievement made available to us by performance records of outstanding farmers within a community and by studies made by the colleges of agriculture. We want our programs to be realistic and true to life. We believe in the old proverb, "Half the fight is won when we know it can be done."<sup>1</sup>

Over 30,000 veterans have participated in the Veterans' Agricultural Training Program in Oklahoma from May 1946 through December 1951. All these veterans had four years or less of eligibility and entitlement so it is possible that in some cases the same veteran might be covered in all three of the surveys considered. Recent surveys in Regional Veterans' Administration offices revealed that the disabled (P.L. 16) trainees who were rehabilitated averaged forty-seven months in training. These veterans are allowed up to forty-eight months training regardless of their time in service. Non-disabled veterans (Public Law 346 or P.L. 377 trainees) received eligibility and entitlement up to four years based on one year plus time in service of nine months or more of honorable service.

<sup>1</sup>G. J. Dippold, <u>The Veterans' Agricultural Training Program in</u> <u>Efficiency Crop Production</u>. Report Given at Annual Oklahoma Crops and Soils Conference, (1947)

It is the observation of the author out of his experience working with instructors, district supervisors, Veterans' Administration training officers, and veteran trainees indicates that Public Law 16 trainees tend to group at the extremes on the range of training facilities and progress toward successful establishment in farming, being among the poorest and the very best.

In Chapter I an attempt has been made to briefly review the history of the Veterans' Agricultural Training Program. References were made to certain progress reports and studies which had previously been made, and a background presented for consideration of this study. Chapter II will attempt to show purposes, delimitations and method of procedure used in this study.

#### CHAPTER II

#### PURPOSE OF THE STUDY

The major objective of this study was to bring the review of accomplishments of veterans enrolled in the Veterans' Agricultural Training Program in Oklahoma up to date. Another purpose of the study was to discover how the program has developed in three contrasting types of farming areas. Still another purpose was to evaluate teaching in terms of accomplishments in farming by trainees while in Veterans' Agricultural Training.

### Delimitations

This study covers all schools reporting the three progress reports conducted on state level by Veterans' Agricultural Training Division of the State Board for Vocational Education. The first report went out to schools in December of 1948 designed to cover the period from the beginning of the local program to date, the possible inclusive period being May 1946 through 1948. The second report was requested in April 1950 and designed to cover the period January 1, 1949 through December 1949. The third report, currently in the process of completion, was requested in December 1951 and designed to cover the period January 1, 1950 through December 31, 1951.

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#### Procedure

Mr. Bonnie Nicholson, State Supervisor for Veterans' Agricultural Training Program in Oklahoma, prepared a Survey Questionnaire and tested it on a number of schools in June 1948. After slight revision this questionnaire was sent to all schools then conducting Veterans' Agricultural Training Program classes. Information on present and potential enrollment, farming status of trainees, and various accomplishments by trainees was secured. This information is included in Nicholson's Report on Trainee Progress of May 1949.<sup>1</sup>

Early in 1950 Mr. Charles Lee Thompson, with the aid of the Veterans' Agricultural Training Program Staff, revised the Survey Questionnaire and gathered information from all schools with Veterans' Agricultural Training Program classes, reflecting progress and accomplishments by trainees for the calendar year 1949.<sup>2</sup>

Mr. Clifford Burton and Mr. Howard Richardson, Veterans' Agricultural Training Program District Supervisors, revised the Survey Questionnaire again in 1951, with the help of Robert Price of the Agricultural Education Staff at Oklahoma Agricultural and Mechanical College and the State Office Staff of the Veterans' Agricultural Training Program. This Questionnaire covered accomplishments by trainces covering years 1950 and 1951.

Variations brought about by the repeated revisions of the three questionnaires of the survey mentioned above has tended to make compilation of the data for this study somewhat difficult.

In the case of each survey progress report blanks were furnished each Veterans' Agricultural Training Instructor who completed the report on the veterans in his class. Where more than one class operated in the same high school, these class progress reports were combined into a single progress report including all classes conducted and a copy was submitted to the Stillwater office.

<sup>&</sup>lt;sup>1</sup>Bonnie Nicholson, <u>A Progress Report on the Veterans' Agricultural</u> Training Program, May 1, 1949.

<sup>&</sup>lt;sup>2</sup>Charles Lee Thompson, <u>A Progress Report on the Veterans' Agricul-</u> tural Training Program, 1949

This report attempts to summarize, contrast, and evaluate the three surveys which were completed on a state-wide basis. In addition to this the three schools which varied greatly in types of farming areas were selected for a more intensive study and contrast.

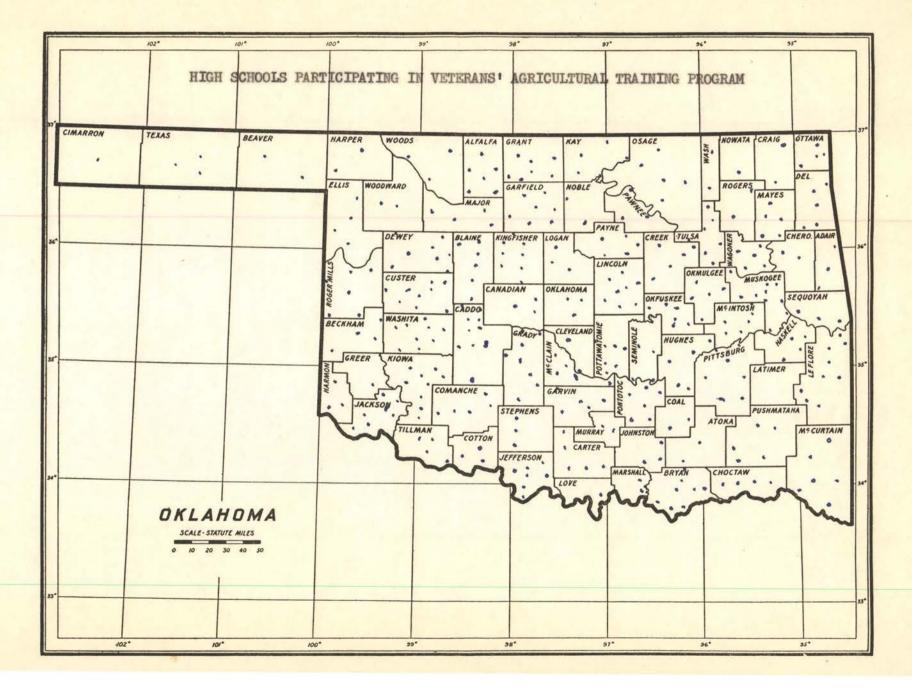
Atoka, Guthrie, and Mangum were selected for this comparison and analysis. These were schools that operated several classes each and each school area is representative of a different type of farming area of the state. These School Progress Reports along with some 350 other high schools are represented in the state totals.

The three progress reports from Atoka for 1946-1948, 1949, and 1950-1951 were totaled. The same procedure was used on the progress reports from Guthrie and Mangum covering all three periods, 1946-1948, 1949 and 1950-1951.

The totals from each school on the three reports were added and the percentages which each school contributed toward these grand totals were calculated.

To facilitate analysis and comparison, averages were calculated from each school and from the totals from the three schools on pertinent accomplishments. Similar averages were computed from the grand totals of all three progress reports received from all schools reporting on progress of trainees enrolled in Veterans' Agricultural Training Program in Oklahoma.

A brief attempt was made to analyze both the state-wide study and the more intensive study of the three selected schools. A few suggestions were presented with regard to the implications which achievements by trainees enrolled in this program might have in developing future programs of education for farmers.



#### CHAPTER III

### SUMMARY OF THE THREE PROGRESS REPORTS ON THE VETERANS' AGRICULTURAL TRAINING PROGRAM IN OKLAHOMA

The total number of veterans in training at any one time during the periods covered by the surveys shows 25,014 from the beginning through 1948. There were 14,565 veterans during 1949 and 16,805 trainees during 1950-51. This would indicate that the average veteran trainee would appear on two progress reports since there have been some 30,000 different veterans enrolled on the program since the beginning.

There were 15,337 veterans currently enrolled at the time the 1948 survey was made. The 1949 report covered 14,565 trainees and the 1950-51 report covered 13,871 trainees.

The 1948 progress report shows there were 2,141 eligible veterans on the waiting list at that time. This situation varied in different areas with some schools adding instructors as fast as trainees were available to form classes while other schools either held off some veterans to stabilize and lengthen the program, or were unable to employ qualified instructors.

#### TABLE I

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Status		1949	
Number in training during period	25,014	14,565	16,805
Number included in this study	15,337	14,565	13,871

### NUMBER OF FARM VETERANS IN TRAINING IN OKLAHOMA AND THOSE INCLUDED IN THIS REPORT

There were 5,183 veterans who owned their farms during 1948, including 2,186 who bought farms upon or after entering training. A total of 1,363 trainees bought farms during 1949 and 1,966 more purchased farms during 1950-51. This makes a total of 8,512 trainees who owned farms while in training.

More farms might have been bought by trainees if suitable financing had been readily available and if our staff had not preached so much conservatism. Many trainees will eventually inherit the farms they now rent and numerous veterans have purchased farms since completing their training. Most veteran trainees were limited on capital and had to buy livestock and equipment at high prices to start farming after the war. A high percentage of the veterans have farm ownership as one of their long-time objectives.

The bulletin "Oklahoma's Farm Population" by 0. D. Duncan shows the average age of farm owners is increasing. "In 1950, owners and part owners reached their largest numbers despite the number of farms being the smallest since 1910."

The 1948 progress report showed 10,024 trainees renting farms. In 1949 there were 9,539 renters and in 1950-51 there were 10,871.

Trainees farming in partnership numbered 1,709 in 1948, 1,642 in 1949, and 1,419 in 1950-51. This study reveals that 19.5% of the trainees were farm owners, 69.5% were renters, and nearly 11% farmed in partnership.

Trainees who have moved from hired hand status to self-employed farmers were as follows: In 1948 there were 689, in 1949 there were 312, and in 1950-51 there were 331 for a total of 1,332. As mentioned

earlier, the employer-trainee, or veteran who trained while in the employment of another farmer, has not been altogether satisfactory on this program. In numerous instances it worked against the best interests of the trainee involved.

#### TABLE II

### FARMING STATUS OF OKLAHOMA VETERAN TRAINEES AS SHOWN BY PROGRESS REPORTS

Status	Beginning to December 1948	1949	1950-51	Percent
Purchasing farms	5,183	1,363	1,966	19.46
Renting farms	10,024	9,539	10,871	69.57
Farming partnership	1,709	1,642	1,419	10.97
Employer-trainee to	•	-	·	
self proprietorship	689	312	331	

#### Purchase of Equipment

The 1948 report showed that trainees had purchased 6,169 tractors, 3,765 harvesting machines, 6,332 seeders, 11,834 plous, and 9,867 other machines.

#### TABLE III

MACHINERY AND EQUIPMENT PURCHASED BY TRAINEES THROUGH 1948 AS SHOWN BY PROCRESS REPORTS

Equipment Purchased	Beginning to
By Trainees	December 1948
Tractors	6,169
Harvestors	3,765
Seeders	6,332
Plows	11,834
Others	9,367

The 1949 report showed a total machinery inventory of \$21,566,474.00. Machinery and equipment purchases by trainees during 1950-51 totaled \$11,176,998.46 which with the 1949 inventory totals \$32,743,472.46.

#### TABLE IV

### JANUARY 1, 1950 INVENTORY VALUE AND 1950-51 INCREASE IN INVENTORY VALUE OF FARM EQUIPMENT OF TRAINEES AS SHOWN BY PROGRESS REPORTS

Equipment.	Dollar Value
Inventory January 1, 1950	\$21,566,474.00
Purchased 1950-51	11,176,998.46
Total	32,743,472.46

Veteran trainees owned 62,891 dairy cattle on the 1948 report, 68,538 head in 1949, and increased their herds by buying or raising 39,751 head of dairy cattle in 1950-51.

They owned 88,660 head of hogs by 1948, 91,923 in 1949, and increased 83,814 head during 1950-51.

These veterans owned 10,274 head of sheep according to the 1948 report, 9,368 head for 1949, and increased 18,237 head in 1950-51.

On the 1948 report there were 95,782 head of beef cattle owned by veterans, the 1949 report showed 100,462 head, and the increase by raising or buying in 1950-51 was 89,571 head.

Poultry owned on the 1948 report numbered 733,336, for 1949 there were 893,361 birds reported with an increase of 643,294 in 1950-51. The 1948 report showed trainees owned 22,290 horses and mules. This was the only report in which horses and mules were shown due to their dwindling economic importance. The totals for the three reports on livestock above show: 171,180 head of dairy cattle, 264,397 head of hogs, 37,879 head of sheep, 285,815 head of beef cattle, and 2,269,991 head of poultry.

#### TABLE V

### NUMBER AND KIND OF LIVESTOCK OWNED BY VETERAN TRAINEES AS SHOWN BY PROGRESS REPORTS

Kind of Livestock	Beginning to Docember 1948	1949	1950-51	Totals
Dairy Cattle	62,891	68,538	39.751	171,180
Hogs	88,660	91,923	83,814	264,397
Sheep	10,274	9,368	18,237	37,879
Beef Cattle	95,782	100,462	89,571	285,815
Poultry	733,336	893,361	643,294	2,269,991
Horses and Mules	22,290	•		

The 1949 report showed veterans owned \$8,234,951.00 worth of dairy cattle with increase by raising and buying during 1950-51 valued at \$6,585,040.49 for a three-year total of \$14,819,991.49. This averaged \$565.39 per trainee in 1949 and \$521.17 for the three years.

Hogs and sheep together were valued at \$2,105,820.97 in 1949 with increases of \$1,789,519.17 on hogs and \$415,403,03 on sheep in 1950-51. This hog and sheep inventory value and increase totaled \$4,310,743.17 with \$144.58 average per trainee in 1949 and a three-year average of \$151.59.

Beef cattle valued at \$9,850,356.35 appeared on the 1949 survey with the increase from raising and buying during 1950-51 amounting to \$12,528,827.77. These figures give a total of \$22,379,184.72 for beef cattle with trainee averages of \$676.30 for 1949 and \$787.00 for 1949-51. Trainees valued their poultry at \$838,520.38 for 1949 and \$696,714.62 for 1950-51, making a total of \$1,535,235.00. Average values per trainee amounted to \$57.57 in 1949 and \$53.99 for a threeyear average on poultry.

The grand total valuation on livestock and poultry showed \$21,029,647.00 in 1949 or an average of \$1,443.84 per trainee. The increase during 1950-51 was valued at \$22,015,505.08 making a total of \$43,045,152.08 or an average of \$1,513.75 per trainee for the three years.

# TABLE VI

# INVENTORY VALUE OF LIVESTOCK OWNED BY VETERAN TRAINEES JANUARY 1, 1950 AND INVENTORY VALUE INCREASE 1950-51 AS SHOWN BY PROGRESS REPORTS

Kind of Livestock	1949	1950-51	Totals	Average Investment 1949-51	Average Investment 1949
Dairy Cattle Beef Cattle Other: Hogs	\$ 8,234,951.00 9,850,356.35	<pre>% 6,585,040.40 12,528,827.77 1,789,519.17</pre>	\$14,819,991.49 22,379,184.72	\$ 521.17 787.00	\$ 565.39 676.30
and Sheep	2,105,820.97	415,403.03	4,310,743.17	151.59	144.58
Poultry	838,520.38	696,714.62	1,535,235,00	53.99	57.57
Total	\$21,029,647.00	\$22,015,505.08	\$43,045,152.08	\$1,513.75	\$1,443.84

The total acres in trainees' farms was 3,053,179 on the 1949 report. (There were no figures shown for acres farmed on the 1948 report.) Acres in trainees' farms on the 1950-51 survey totaled 2,872,231, making a total of 5,925,410 which averages 208.38 acres in trainees' farms compared with 253.1 acres average for all farms in Oklahoma, according to the 1950 census.

There were 1,257,319 acres of cropland on trainees' farms in 1949. During 1950-51 their cropland was 1,356,699 acres. This figures 2,614.018 acres of cropland for an average of 91.93 acres per trainee.

The 1948 report showed veterans terraced 118,412 acres. In 1949 the report showed 95,470 acres were terraced and in 1950-51 the figures were 174,847 acres terraced by trainees, thus making a total of 388,729 acres terraced.

The number of acres contour tilled by veterans was 151,311 at the time of enrollment and 309,504 acres in 1948. The 1949 survey showed 382,473 acres contour tilled while in 1950-51 the report showed 378,962 acres were contour tilled. Total contouring was 1,070,939 acres.

Up to 1948 veterans used regular crop rotation on 350,901 acres. The 1949 report shows rotation on 415,115 acres and the 1950-51 survey indicated 766,147 acres were in regular crop rotation. The three survey total is 1,532,163 acres in a regular crop rotation system.

The number of acres farmed by trainees on which either commercial fertilizer or barnyard manure has been applied showed 282,843 acres on the 1948 report, 399,985 acres on the 1949 report, and 506,896 acres on the 1950-51 report. These total 1,189,724 acres receiving applications of commercial fertilizer or barnyard manure.

The 1948 survey showed 231,758 acres seeded to legumes, in 1949 there were 246,010, and in the 1950-51 report there were 82,259, thus making a total of 560,027 acres of legumes seeded.

## TABLE VII

# TOTAL ACRES OF LAND OPERATED BY TRAINEES AND SCOPE OF CERTAIN IMPROVED PRACTICES USED AS SHOWN BY PROGRESS REPORTS

Acres	Beginning to December 1948	1949	1950–51	Totals	Average 1949 <b>-</b> 51
In trainees' farms Cropland in trainees' farms Terraced by veterans Contour tilled Regular crop rotation	118,412 309,504 350,901	3,053,179 1,257,319 95,470 382,473 415,115	2,872,231 1,356,699 174,847 378,962 766,147	5,925,410 2,614,018 388,729 1,070,939 1,563,163	208.38 91.93
Commercial fertilizer or barnyard manure Seeded to legumes	282,843 231,758	399,985 246,010	506,896 12,259	1,189,724 560,027	

Veterans participating in some phase of a soil conservation and improvement program on the 1948 report showed 4,312 at the time of enrollment and 10,016 at the time the report was made. The 1949 report showed 11,692 participating, for a total of 21,708 or 72.6 of the trainees covered in the two reports.

Veteran farms on which soil tests were made are as follows: 8,662 on the 1948 report, 6,710 on the 1949 report, and 7,906 for 1950-51. On this basis 23,278 veterans or 53.22% tested their soils. A large number of these soil tests were complete analyses run in the soils laboratory at Oklahoma A. and M. College under the direction of Dr. Horace J. Harper, Head of the Soils Department.

On the 1950-51 report there were 7,181 veterans using commercial fertilizer and 7,410 using barnyard manure to make a total of 14,591 on only this one report.

There were 2,295 veterans using commercial fertilizer or lime at the time of enrollment and 6,981 using one or both by the end of 1948. The 1949 report shows 12,729 using fertilizer or lime, and the 1950-51 survey shows 7,181 using commercial fertilizer and 2,177 using lime. These figures total 29,068 trainees or 66.45% of those covered in the reports. The Veterans' Agricultural Training Program has taken the lead in promoting wise use of lime and fertilizers.

There were 4,053 veterans planting legumes at the time of enrollment, 8,993 in 1948, 8,634 in 1949, and 8,286 in 1950-51. These totaled 25,913 and made up 59.24% of the trainees included in the reports.

There were 10,692 veterans planting certified seed on the 1948 survey, 10,679 in 1949, and 9,123 in 1950-51 for a total of 30,494 trainees representing 69.71% of the trainees covered by the three reports.

There were 1,770 veterans using chemicals to control weeds in the 1948 report, 2,150 in 1949, and 2,013 in 1950-51 for a total of 5,933 or 13.56% of the trainees covered by the reports. The use of chemical weed control shows promise but has not become a common practice in Oklahoma.

# TABLE VIII

# NUMEER OF VETERANS COMPLETING CERTAIN SOIL IMPROVEMENT PRACTICES AS SHOWN BY PROGRESS REPORTS

Practice	Beginning to December 1948	1949	1950-51	Totals	Percent
Using soil conservation and					
improvement program	10,016	11,692		21,708	72.60
Having soil tests made on					
farms	8,662	6,710	7,906	23,278	53.22
Using commercial fertilizer			7,181		
or barnyard sanure			7,410	14,591	
Using commercial fertilizer	<b>A</b>	<b>.</b>	7,181		
or lime	6,981	12,729	2,177	29,068	66.45
Planting legumes	8,993	8,634	8,286	25,913	59.24
Planting certified seed	10,692	10,679	9,123	30,494	69.71
Using chemical weed control	1,770	2,150	2,013	5,933	13.56

This section deals with livestock efficiency and brings out overall improvements as reflected in a few important approved practices.

From the 1948 survey we see 3,458 trainees were using purebred bulls at the time they enrolled, and there were 7,264 trainees using purebred bulls by December 1948. In 1949 some 8,026 trainees were reported using purebred bulls, while the 1950-51 report shows 8,721 trainees using this approved practice. Disregarding those using purebred bulls at the time of enrollment we find 24,011 trainees or 54.89% of those covered in the three reports using this improvement program. For use of purebred boars we find 1,557 trainees using them at

the time of enrollment, and 4,332 at the time the 1948 report was submitted. During 1949, 5,302 trainees used such sires and in 1950-51 there were 5,135 trainees reported using purebred boars. Not including those in the beginning, 14,769 trainees, or 33.76% of those included in the reports, have used purebred boars.

Sheep have not been a major livestock enterprise with our veteran trainees as is shown by the report. Only 658 or 1.50% of the trainees surveyed used purebred rams. The surveys showed 102 trainees using purebred rams at the time of enrollment, 194 at the time the 1948 report was made, 210 trainees in 1949 and 254 trainees in 1950-51 using purebred rams. To me, these figures indicate a scarcity of sheep on veterans farms rather than a widespread practice of using grade or scrub rams.

TABLE IX
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# NUMBER OF VETERANS IMPROVING LIVESTOCK BY USING PUREBRED SIRES AS SHOWN BY PROGRESS REPORTS

Practice	*Beginning	To December 1948	1949	1950-51	Totals	Percent
Purebred bulls	3,458	7,264	8,026	8,721	24,011	54.89
		1.000	ຮ່ວດວ	5,135	14,769	33.76
Purebred boars	1,557	4,332	5,302	رربور		21.10

\*Beginning figures not included in total column

From the 1948 progress report, there were 192,087 head of livestock treated or sprayed for fly control, 139,733 head treated for lice control, and 73,459 head treated for grub control. The 1949 report shows 12,871 trainees treated livestock for control of external parasites. On the 1950-51 survey 11,196 trainees treated 358,912 head for external parasites, thus making a total of 24,067 trainees using this approved practice from 1949 through 1951.

There were 7,391 trainees who treated 730,810 head of livestock for internal parasite control, and 10,835 who vaccinated 357,482 head of livestock and practiced a definite disease control program in 1950-51.

Pasture improvement is deemed essential in developing livestock enterprises for a balanced farming program. Below are figures indicating the scope of certain pasture improvement practices.

The 1948 report shows 178,967 acres were returned to native pasture. In 1949 this was practiced on 80,643 acres and the 1950-51 report shows 90,430 acres returned to native pasture and 142,029 acres seeded to tame pasture. These figures total 492,069 acres returned to pasture.

On the 1948 survey 104,675 acres of permanent pasture were improved by moving. In 1950-51 there were 4,478 trainees who mowed 168,192 acres of permanent pasture for a total of 272,867 acres on the two reports.

There were 47,385 acres of pasture fertilized by veterans on the 1948 report. The 1950-51 survey showed that 2,330 veterans fertilized 72,907 acres, making a total of 120,292 acres of permanent pasture fertilized. By 1948 veteran trainees had reseeded 71,503 acres of pasture.

The 1950-51 report has 3,455 trainees reseeding 108,020 acres of permanent pasture for a two-survey total of 179,523 acres reseeded.

#### TABLE X

Practice	Beginning to December 1948	1949	1950-51	Totals
Returning to native or tame pasture Mowing Fertilizing Reseeding Other practices	178,967 104,675 47,385 71,503 89,550	80 <b>,</b> 643	232,459 168,192 72,907 108,020 596,950	492,069 272,867 120,292 179,523 686,500

TOTAL	ACRES	ON	UNITCH	I CERTAIN	PAS	STURE	IMPI	OVEMENT	PRACTICES
WERE	COMPI	ETH	D BY	TRA INEES	AS	SHOWN	BY	PROGRESS	S REPORTS

In the 1948 report 89,550 acres of permanent pasture were improved by other practices. For the years 1950-51 a total of 2,530 veterans improved 36,832 acres of pasture by eradicating brush and 5,546 trainees maintained and improved 560,118 acres of pasture by deferred and controlled grazing. The 1949 report shows that 9,196 trainees used one or more of the above practices in their pasture management.

Farm family living is an important phase of successful establishment in the farming business. The 1948 report indicates 1,062 veterans constructed dwelling houses on their farms. The figures for 1949 show 753 and for 1950-51 show 1,065 dwelling houses constructed by trainees. These three reports total 2,880 veterans constructing new houses on their farms or 6.58%. In addition to this, numerous dwellings were remodeled or had major repairs made. In 1948 there were 3,651 of this nature, in 1949 there were 3,238 and in 1950-51 there were 2,804 thus making a total of 9,693. This amounted to 22.16% of veterans reported on and with those building new or making major repairs the total was 12,573 veterans or 28.74% of those surveyed.

The 1948 report showed 4,819 veterans did landscaping and yard improvement work.

The 1948 report shows trainees constructed 2,134 new barns on their places and remodeled or made major repairs on 2,889 other veteran's barns. This item was not included on the 1949 questionnaire but the 1950-51 report showed 1,845 trainees built barns.

The 1948 survey revealed that 25% of the veterans built poultry houses and 2,552 trainees built hog houses on their farms.

Farm ponds constructed on veterans' farms were 4,640 in 1948, 2,143 in 1949, and 2,760 in 1950-51 which makes a grand total of 9,543. This represents 21.82% of the farms surveyed.

# TABLE XI

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### FARM HOME AND FARMSTEAD CONSTRUCTION ACTIVITIES OF TRAINEES AS SHOWN BY PROGRESS REPORTS

Iten	Beginning to December 1943	1949	1950-51	Totals	Percent
Duelling houses constructed	1,062	753	1,065	2,880	6.58
Duelling houses remodeled or	·		-	-	
major repairs made	3,651	3,238	2,804	9,693	22.16
Barns constructed	2,134	•	1,845	3,979	
Landscaping and yard	- · ·				
improvement	4,819				
Barns remodeled or major					
repairs made	2,889				
Poultry houses constructed	2,570				
Hog houses constructed	2,552				
Farm ponds constructed	4,640	2,14,3	2,760	9,543	21.82

Numerous trainees improved their living conditions by the addition of home conveniences and services. There were 403 trainees using butane or propane in their dwellings at the time of enrollment and 3,108 with this convenience at the time of the 1948 report. During 1949 there were 2,145 trainees who installed butane or propane and 4,948 more added this item in 1950-51. The three reports totaled 10,201 trainees, or 23.32% of those covered in the three surveys.

There were more telephones already in service at the time of enrollment than any of the other conveniences studied. A total of 1,467 veterans had telephones when they started on the program and 2,033 reported having phones by 1948. The 1949 report shows 1,008 trainees who had added the telephone service. The years 1950-51 saw 2,588 telephones installed by trainees for a grand total of 5,629 or 12.87% of those covered.

The addition of electric power service paves the way for numerous other conveniences around the farmstead. Studies show the addition of electric power is followed closely by such conveniences as hot and cold running water, refrigeration, butane or propane and a general increase in the level of living. Our surveys show that 1,143 trainees had electricity wired in when they enrolled and 4,114 had this by 1948, 1949 added 3,340 while 1950-51 contributed 6,406 trainees with electric power on their farms. This makes a grand total of 13,860 trainees or 31.68%.

There were 475 trainees who had running water piped into their houses when they enrolled with 1,747 having this convenience when the 1948 report came in. A total of 1,139 trainees installed running water during 1949 and 2,679 reported running water on the 1950-51 survey. The totals indicate 12.72% of those surveyed had running water.

TABLE	XII
لمبيل فخطه كمنادوك شوعليه	سابه وارو علاليه

### CONVENIENCES ADDED TO DWELLINGS BY VETERAN TRAINEES AS SHOWN BY PROGRESS REPORTS

Convenience Added	enience Added *Beginning De			1950-51	Totals	Percent**
Eutane	403	3,108	2,145	4,948	10,201	23.32
Telephone	1,467	2,033	1,008	2,588	5,629	12.87
Electricity	1,143	4,114	3,340	6,406	13,860	31.68
Running water	475	1,747	1,139	2,679	5,565	12.72

فسلعة تتتبت مري

\*Beginning figures not included in total column

Farm family food production is of major importance in certain types of farming areas of Oklahoma. It is of considerable economic importance at all times, but particularly now with high priced labor, processing and distribution. It is essential that farm families on the smaller size farm units produce most of their food at home. This gives more days of productive work per year, and if quality of product is stressed makes for healthier, happier living.

There were 9,387 trainees slaughtering livestock for home use when they enrolled on the program. By December 1948 there were 12,666 trainees who were butchering meat animals for home use. The 1949 report had 12,514 trainees slaughtering their home meat supply, while 1950-51 listed 11,804 carrying out this activity. Since those slaughtering their own meat at the time of enrollment are included in 1948 present time category the grand total shows 36,984 trainees or 84.55% slaughtering their own home meat supply, in part at least.

For home vegetable garden to supply at least minimum family needs, the figures are: 10,201 trainees at time of enrollment, 13,415 when the 1948 report was submitted, 12,554 on the 1949 report, and 11,309 on the 1950-51 survey. This shows a total of 37,268 or 85.22% of the trainees had home gardens.

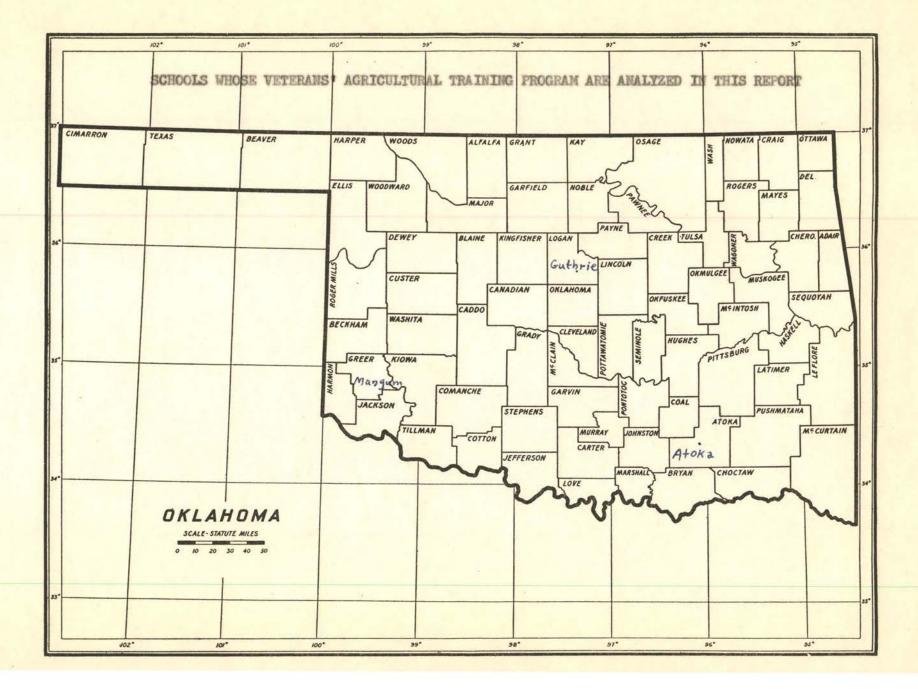
Veterans reporting home orchards for minimum family needs or more were: 3,055 at the time of enrollment, 4,611 up through 1948, 5,085 in 1949 and 2,433 in 1950-51 for a total of 12,129 representing 27.73% of the trainees surveyed.

### TABLE XIII

### TRAINEES PRODUCING AND PROCESSING FOOD FOR HOME CONSUMPTION AS SHOWN BY PROGRESS REPORTS

Number Veterans	*Beginning	Docember 1948	1949	1950-51	Totals	Percent
Butchering livestock for home use Having home gardens for	9,387	12,666	12,514	11,804	36,984	84.55
Having home orchards	10,201 3,055	13,415 4,611	12,544 5,085	11,309 2,433	37,268 12,129	85 <b>.</b> 22 27 <b>.</b> 73

\*Beginning figures not included in total column



#### CHAPTER IV

#### REPORT ON INTENSIVE STUDY OF THREE REPRESENTATIVE SCHOOLS

There were 2,198 veterans reported in the three schools surveyed during the six-year period 1946 through 1951. Of these 675 or 31% were at Atoka, 707 or 32% were at Guthrie and 816 or 37% were at Mangum. The trainees enrolled when the 1948 survey was made plus those covered in the 1949 and the 1950-51 surveys totaled 1,549; 407 of these or 26% were enrolled at Atoka, 494 or 32% were at Guthrie, and 648 or 42% were at Mangum.

Trainees owning farms during training or buying farms in their community since they completed training shows Atoka 180 or 34%, Guthrie 103 or 19%, and Mangum 254 or 47%. Total for the three schools selected was 537 or 34.7% of the trainees included in the three progress reports of these schools.

There were 242 trainees in the three schools who bought farms during the time they were in training. These would be included in the previous group who owned farms while in training and might also be included in the renter or partnership categories as well. The 242 represent 15.6% of the trainees reported on from the three schools. By schools and percentage of the total from the three schools there were 74 trainees or 31% at Atoka, 54 trainees or 22% at Guthrie, and 114 or 47% at Mangum who bought farms. Trainees renting their farms were distributed in the following manner: 208 or 21% at Atoka, 317 or 32% at Guthrie, and 462 or 47% at Mangum. The total on the three schools was 987 renters representing 63.7% of those covered in the three reports as compared with 69.57% on a state-wide basis. The report shows 173 trainees farmed in partnership at the three schools over the six years covered. These might have been included in the renter or owner groups on some reports. Atoka had 15 partnership trainees or 09% of the total, Guthrie trained 78 on partnership basis or 45%, Mangum listed 80 partnership trainees or 46% of the three school total in that classification.

There were 61 trainees who started at the bottom of the agricultural ladder and moved upward during their training at two of the three schools. Guthrie had 44 of these or 72% with the remaining 17 or 28% at Mangum. Atoka did not report a single employer trainer who moved up to self-proprietorship status. In some areas, especially where size of farms are small, there was little opportunity for veterans to qualify as full-time employees, necessary for training as employertrainees.

Additional information concerning tenure arrangements and their social implications can be secured by reference to the bulletins, "Social Factors Related to Farm Housing in Southern Oklahoma" by Robert T. McMillan, or "Oklahoma's Farm Population" by O. D. Duncan, Head, Department of Sociology and Rural Life, Oklahoma Agricultural and Mechanical College.

# TABLE XIV

# NUMBER AND FARMING STATUS OF VETERAN TRAINEES INCLUDED IN STUDIES OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Trainees	Atoka Total	Guthrie Total	Mangum Total	3-Sehool Totals	Percent	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Included in 6-year			af ne den fill men son de fins forste fille de sitte fan de ser		n an	ing side in Status Constanting in Arrival Constanting	nama metaketerinin 2014 katalah sebagai pada katalah di pertakan di pertakan di pertakan di pertakan di pertak Pertakan di pertakan di pert	
report 1946-1951	675	707	816	2,198		31	32	37
Currently enrolled and								
covered by reports	407	494	648	1,549		26	32	42
Owning farms during and	- · · -				_			
since training	180	103	254	537	34.7	32	19	47
Buying farms while on	<b>1</b> 24 1	~ .		<b>a</b> 1 <b>a</b>		<b></b>	• •	
program	74	54	114	242	15.6	31	22	47
Renting farms while on	0.04	07 F	110	0.4P	(2 1	50	20	4 10-2
program	208	317	462	987	61.7	21	32	47
Farming in partnership	15	78	80	173	11.2	09	45	46
Advancing from								
employer-trainee to		<i>x</i> <b>1</b>	7.07	13			no	00
self-proprietorship		44	17	61			72	28

There was a wide range shown in the kind and numbers of livestock reported by the three schools. The following totals were made up of stock owned on the 1948 and 1949 reports, and increase in inventory from buying and/or raising on the 1950-51 survey. There were significant differences in types of livestock kept due to differences in types of farming in the areas. On the dairy cattle report, Atoka reported 863 head or 23% of the total, Guthrie had 1,562 head or 42%, and Mangum showed 1,335 head or 35% of the total of 3,760 dairy cattle reported. The story on beef cattle was quite different. Atoka had 3,132 head for 40% of the total, Guthrie reported 2,893 head or 37% of the total, and Mangum had only 1,880 head or 23% of the 7,905 head of beef cattle reported by the three schools.

Hogs were even less uniformly distributed with Atoka having 50% or 2,967 head, Guthrie showed 35% or 2,083, while Mangum's 924 head made up only 15% of the total of 5,974 head of hogs reported over all.

Sheep again was a very minor enterprise with only 473 head reported by the three schools. Atoka had 59 head or 12%, Guthrie had 314 head making 66% and Mangum had 100 head or 22% of the total.

Distribution on poultry showed 10,631 birds or 19% at Atoka, 17,666 or 32% at Guthrie, and 26,516 fowls or 49% of the 54,813 bird total at Mangum.

### TABLE XV

# NUMBER AND KIND OF LIVESTOCK OWNED BY TRAINEES INCLUDED IN THE STUDY OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Kind of Livestock	Atoka 3-Survey Totals	Guthrie 3-Survey Totals	Mangum 3 <b>-S</b> urvey Totals	3-School 3-Survey Totals	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Dairy cattle	863	1,562	1.335	3,760	23	42	35
Beef cattle	3,132	2,893	1,880	7,905	40	37	23
Hogs	2,967	2,083	924	5,974	50	35	15
Sheep	59	314	100	473	12	66	22
Poultry	10,631	17,666	26,813	54,813	19	32	49

The reports covering 1949 and 1950-51 give the following totals and breakdowns on inventory value of machinery and equipment owned by trainees in 1949 and the increase in such value during 1950-51:

#### TABLE XVI

#### INVENTORY VALUE OF MACHINERY AND EQUIPMENT OWNED BY TRAINEES IN 1949 AND THE INCREASE IN SUCH VALUE DURING 1950-51 AS SHOWN IN THREE SELECTED SCHOOLS

School	Inventory Value	Percent	Investment		
Atoka Guthrie Mangum	\$ 173,142.01 484,544.00 590,518.00	14% 39% 47%	\$ 660.85 1,548.06 1,370.11		
Total	\$1,248,204.01	100%	\$1,240 <b>.76</b>		

The figures on livestock numbers were combined from three different progress reports while the values, percentages, and averages reported in Table XVII were calculated from the inventory value at the end of 1949 and the increase by raising or buying during 1950-51. Atoka trainees had \$64,041.00 invested in dairy cattle, an average of \$244.43 per trainee and making up 18% of the dairy cattle value reported. Guthrie with \$176,738.00 worth of dairy cattle or 50% of total averaged \$564.66 investment in dairy cattle per man. Mangum had evaluation in dairy cattle of \$114,321.00, 32% of the three school total of \$355,100.00. An average per trainee of \$265.25 at Mangum compared to the three school average investment in dairy cattle of \$352.98.

Atoka reported \$193,345.68 for beef cattle or 32% and trainee average of \$737.96. Guthrie should \$235,352.00 or 38% with trainee

average of \$751.92. Mangum turned in \$182,955.00 or 30% with an average of \$424.49. Total for the three schools was \$611,652.68 giving an average investment per trainee reported of \$608.00 in beef cattle.

The inventory value on hogs at the end of 1949 together with dollar value increase by raising or buying shows Atoka leading with \$34,975.00 or 51% of the three school total of \$69,102.00. Guthrie was near the average for the three groups having \$22,415.00 or 32% with an average of \$71.61 per trainee as compared to the three school average of \$68.69 valuation on hogs. Mangum trainees reported \$11,712.00 or only 17% of the three school valuation on hogs. We can see from their average of \$27.17 each trainee had invested that hog raising is a minor enterprise and with few exceptions is more of a family food production item, at Mangum particularly. These figures might not reflect the economic importance of hog raising accurately since more hogs are raised and sold during a year's business and never show in an inventory, than with other classes of livestock.

Sheep production was very minor with only Guthrie reporting \$10,485.00 for an average of \$33.50 per trainee. Only a relatively few veterans raised sheep, however.

The inventory value for poultry on 1949 and increase during 1950-51 showed Atoka relatively lowest on this minor enterprise. Trainees reported from Atoka an average of \$32.69 or 19% of the three school total, and school total of \$8,566.20 invested in poultry. Guthrie led with \$17,890.00 or 41% of three school total of \$44,293.20 and averaged \$57.16 per trainee. Mangum had \$17,837.00 or 40% of the total but had only \$41.39 average investment in poultry while the three school average was \$44.03.

39

#### TABLE XVII

#### AVERAGE INVENTORY VALUE OF LIVESTOCK OWNED BY INDIVIDUAL TRAINEES PER TRAINEE VALUE ON LIVESTOCK REPRESENTED BY EACH OF THE THREE SCHOOLS INCLUDED IN THE STUDIES OF THE ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Kind of Livestock	Atoka Average	Guthrie Average	Mangun Average	3-School Total Average	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Dairy cattle	\$244.43	\$564.66	\$265.25	\$352.98	18	50	32
Beef cattle	737.96	751.92	424.49	608.00	32	38	30
Hogs Sheep	133.49	71.61 33.50	27.17	68.69 10.42	51	32 100	17
Poultry	32.69	57.16	41.39	44.03	19	41	40

From the 1949 and 1950-51 reports there were 54,010 acres in the 262 veterans' farms at Atoka. These made up 25% of the three school total acreage of 217,521 and averaged 206 acres as compared to the three school average of 216 acres per farm. At Guthrie there were 81,450 acres in 313 farms for an average of 260 acres, the largest of the three schools. Mangum reported 82,061 acres farmed by 431 veterans averaging 190 acres per farm on the smallest of the three schools. Guthrie had 37% of the total acres and Mangum had 38%. The average of 216 acres per trainee in these three schools was above the state average of 208.38 acres per trainee but below the 1950 Oklahoma census average of over 142,000 farms at 253.1 acres.

The picture changes drastically when we consider acres of cropland instead of total acres in the farms. From the 1949 and 1950-51 reports we see that Atoka had 12,554 acres of cropland or only 13% of the three school total. This made the average per trainee only 48 acres as compared with the three school average of 98.4 and the state average of 91.93 acres per trainee. Guthrie reported 30,534 acres of cropland or 31% of three school total and an average of 98 acres cultivated land per veteran reporting. Mangum had 55,926 acres of cropland or 56% of the three school total. While they averaged only 190 acres per trainee, 130 of those acres were in cultivation as compared to 98.4 acres for three school average and 91.93 acres for the average trainee in Oklahoma. This distribution of cultivated land helps to explain the apparent unbalance of livestock kept by trainees in the three types of farming areas.

On the amount of terracing done on trainees' farms, we find Atoka with 1,939 acres or 12%, Guthrie with 4,477 acres terraced or 27%, and

41

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Mangum with 10,122 acres or 61% of the 16,538 acres terraced by trainees in three schools.

The three surveys at the three schools show Atoka veterans farmed 1,595 acres on the contour. This represented only 4% of the three school total of 39,487. Guthrie veterans contour tilled 18,137 acres or 46% and Mangum reported 19,755 acres or 50% of the contouring done.

The acres in regular crop rotation systems were Atoka 2,586 acres or 05%, Guthrie 17,753 acres or 34%, and Mangum 32,293 acres or 61% of the 56,632 acres in regular rotation.

There were 37,140 acres fertilized with commercial or organic fertilizer by trainees at these three schools. Atoka showed 13,280 acres fertilized or 36% of the three school total. Guthrie reported 40% on 15,038 acres while Mangum with 56% of total cropland fertilized only 8,823 acres or 24% of the three school total. This probably was due to rainfall tending to limit production further west and the idea of using fertilizer is newer in the Southwest than in Eastern Oklahoma.

Trainees at Atoka reported 9,569 acres of legumes seeded for 41%, Guthrie put out 11,644 acres or 49%, while Mangum lagged behind with 2,392 acres or only 10% of three school total of 23,605 acres.

From totals on all three surveys we find 282 trainees constructed ponds on their farms. These were fairly evenly divided with Atoka leading at 35% on 101 ponds built, Guthrie showed 89 or 32% and Mangum with 92 had 33% of the ponds built on trainees' farms.

The use of chemicals to control weeds is relatively a new practice and according to the surveys it had been tried only on a small scale. Atoka reported 152 acres treated, Guthrie had chemical weed control used on 173 acres, but Mangum with more row crops grown and less hand labor available should chemicals to control weeds were used on 1,670 acres there in 1948 (no report available 1949).

Atoka led the other two schools in returning cultivated land to native pasture with 3,662 acres or 52%, Guthrie followed with 2,546 acres or 36%, while Mangum apparently had little land too poor to raise profitable crops, there being only 809 acres or 12% of the 7,017 acres returned to native grass by trainees at the three schools.

## TABLE XVIII

#### TOTAL SCOPE IN ACRES OF CERTAIN SOIL IMPROVING PRACTICES CARRIED ON BY TRAINEES INCLUDED IN THE STUDIES OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Acres	Atoka Total	Guthrie Total	Mangum Total	3-School Totals	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
In trainees' farms 1949,		and a constant of an and any offer any second s	naanse geste gebeure of geboure of geboure of geboure of the second second second second second second second s	nan contra contra a la forma e anna De Exter e XVII (done)	ali (nizionegonini ya myań poporzani znak znak zani azabi (kieżnich)	ай Тара, фултан на на нарад ун тур су 1995. Тара на правите на прави	an fear that a section of the
1950 and 1951	54,010	81,450	82,061	217,521	13	31	56
In cropland	12,554	30,534	55,926	99,014	24	40	36
Terraced	1,939	4,477	10,122	16,538	12	27	61
Contour tilled	1,595	18,137	19,755	39,487	04	46	50
In regular crop rotations	2,586	17,753	32,293	52,632	05	34	61
Being commercially or		-	-	-			
organically fertilized	13,280	15,038	8,823	37,140	36	40	24
Seeded to legumes	9,569	11,644	2,392	23,605	41	49	, 10
Having chemical weed			-				
control used on	152	173	1,670	1,995	08	08	84
Of cultivated land				*			
returned to pasture	3,662	2,546	809	7,017	52	36	12

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The surveys conducted in 1948 and 1949 showed 732 trainees were using soil conservation and improvement practices in the three schools. These were distributed as follows: Atoka had 16 at the time of enrollment, total 173 or 24%, Guthrie had 48 at the time of enrollment, total 290 or 40%, and Mangum had 38 at the time of enrollment, total 269 or 36%. Guthrie's Red Plains Station and proximity to Oklahoma Agricultural and Mechanical College might account for part of this difference.

The number of farms on which soil tests have been made follows the average rainfall, and goes opposite the average acres of cropland per farm. Atoka had 227 or 40% of farms tested in the three school total. Guthrie had 229, again 40% of the three school total but they reported on more trainees than Atoka did. Mangum with most trainees and highest average of cultivated acres reported only 111 testing their soils or 20% of the three schools reporting.

Concerning trainees who used commercial fertilizer and/or lime, we find Atoka reported 45 trainees using this practice when they enrolled and a total of 629 or 59% of trainees at three schools using one or both of these materials. Guthrie had 18 at time of enrollment and a total of 267 making 25% of the total. Mangum showed no trainees using lime or fertilizer at time of enrollment but 163 or 16% of the total of 1,059 for the three reports.

Another soil improving practice sampled on the three surveys showed Atoka had 225 trainees planting legumes, Guthrie had 300, and Mangum had 183 for a total of 708. Of those planting legumes 32% were at Atoka, 42% at Guthrie, and 26% at Mangum.

Atoka reported 49 trainees or 31% of the total who used chemical weed control, Guthrie reported 32 trainees or 18% while Mangum had 75 trainees using this practice or 51% of the three school total of 156.

### TABLE XIX

### NUMBER OF TRAINEES COMPLETING CERTAIN SOIL IMPROVEMENT PRACTICES IN THE THREE SCHOOLS INCLUDED IN THE STUDIES OF ATOKA, GUTHRIE, AND MANGUM

Practice	Atoka 3-Survey Totals	Guthrie 3-Survey Totals	Mangum 3-Survey Totals	3-School 3-Survey Totals	Percent	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Using soil conservation						. °		
and improvement pro- gram 1946-1949	173	290	269	732		24	40	36
Taking soil tests on		~70	~~ /	5 mar 2 mar		~ <b>-+</b>	40	20
their farms	227	229	111	567		40	40	20
Using commercial						·		/
fertilizer and lime	629	267	163	1.059	68.4	59	25	16
Seeding legumes	225	300	183	708	45.7	32	42	26
Planting certified seed	333	216	467	1,016	65.6	33	21	46
Using chemical weed			•	*	- •			
control	49	32	75	156	10,1	31	18	51

The approved practices checked on in livestock were fairly uniformly followed in the three schools. As indicated earlier, sheep production was a minor enterprise with only a few trainees raising sheep at all.

There were 12 trainees at Atoka using purebred bulls when they enrolled in training and 154 total on three surveys, making up only 21% of those surveyed yet they had about one-third of the cattle shown. Guthrie showed 46 veterans using purebred bulls at time of enrollment and 287 total for 39%. Mangum reported 34 trainees using purebred bulls at time of enrollment and 289 or 40% of the 730 reported in the three schools. Mangum had the highest percentage of purebred bulls with less than one-third of the total cattle reported.

On purebred boars used by trainees we have 145 or 39% at Atoka, 144 or 39% at Guthrie and 82 or 22% at Mangum. Guthrie had 12 trainees using purebred rams with one each from Atoka and Mangum.

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# NUMBER OF TRAINEES USING PUREBRED SIRES INCLUDED IN THE STUDIES OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Practico	Atoka Total	Guthrio Total	Mangum Total	3-School Total	Percent	Atoka Percent of Total	Guthrie Percont of Total	Mangum Percont of Total
Purebred bulls	154	287	289	730	47.1	21	39	40
Purebred boars	145	144	82	371	23.9	39	39	22
Purebred rams	1	12	1	14	•9	7	86	7

The number of livestock treated for external parasite control was shown only on the 1948 and the 1950-51 progress reports. The number of trainees who treated livestock for control of external parasites was reported only on the 1949 and the 1950-51 surveys.

At Atoka 222 trainees treated 3,871 head of livestock for external parasite control. Guthrie listed 224 trainees treating 4,511 head while Mangum indicated 330 trainees treated 3,005 head of livestock for flies, lice, and for grubs.

The part of the study reflecting farm family living was probably inadequate in that quality, or relative value was not considered.

Fewer trainees at Atoka built more new homes, but remodeled or made major repairs on fewer homes accordingly than trainees at Guthrie or Mangum. This is borne out in Robert T. McMillan's study "Farm Housing in Southern Oklahoma", 1945.

The average replacement value of dwellings surveyed in Southwestern Oklahoma is \$574.00, and in Southeastern Oklahoma, \$189.00. In Southeastern Oklahoma, more than one-fourth of the farm dwellings were built during the past 10 years. In Southwestern Oklahoma less than onetenth of the dwellings were built during the past decade.

Fifty-two trainees at Atoka built 44% of the new houses. Guthrie came up with 34 new houses for 28% to match Mangum's 33 houses or 28% of the 119 dwellings that trainees built on their farms.

For dwellings remodeled or on which major repairs were made, Atoka was lowest with 79 or 25%. Guthrie reported 114 houses repaired or 36% and Mangum with 128 made up 39% of the total of 321.

According to the above figures 07.7% of the trainees surveyed built new houses, and 20.7% remodeled or made major repairs on their dvelling.

## TABLE XXI

## FARM HOME CONSTRUCTION ACTIVITIES OF VETERANS INCLUDED IN STUDIES OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Activity	Atoka 3-Survey Total	Guthrie 3-Survey Total	Mangum 3-Survey Total	3-School 3-Survey Totals	Percent	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Homes constructed on trainees! farms	52	34	33		7.7	44	28	28
Homes remodeled or having major repairs	79	114	128	321	20.9	25	36	39

There were numerous trainees who improved their living conditions by the addition of several home conveniences. Atoka, on three reports, showed a total of 60 trainees installing butane or propane gas, or 17% of the three school total. Guthrie had 73 trainees adding butane or propane for 21%, while Mangum went overboard on this showing 220 trainees or 62% of the 353 who installed butane or propane in their homes.

The telephones installed in trainees' homes were: Atoka had 39 or 22%, Guthrie had 72 or 40% and Mangum had 69 or 38%.

Electricity was wired into trainees' places as follows: Atoka had 119 or 32%, Guthrie had 80 or 22% and Mangum had 168 or 46%.

Trainees putting running water in their homes were: 6 at Atoka for 04% of the three school total, 38 at Guthrie for 24%, and 112 trainees at Mangum for 72% of the 156 who installed indoor water systems in three schools.

The 1948 report showed that 3 trainees at Atoka, 13 at Guthrie and 5 at Mangum put in sewage systems.

Of the total, 22.8% installed butane or propane, 11.6% put in telephones, 23.7% wired in electricity, and 10.1% put in running water systems.

### TABLE XXII

# CONVENIENCES ADDED TO DWELLINGS BY VETERAN TRAINEES AS SHOWN BY PROGRESS REPORTS OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Convenience Installed	Atoka 3-Survey Total	Guthrie 3-Survey Total	Mangum 3-Survey Total	3-School 3-Survey Totals	Percent	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Butane or Propane	60	73	220	353	22.8	17	21	62
Telephones	39	72	69	180	11.6	22	40	38
Electricity	119	80	168	367	23.7	32	22	46
Running Water	6	38	112	156	10.1	4	24	72
Sewage	3	13	5	21	1.2	14	62	24

The figures from the surveys on farm family food production show Atoka had 130 trainees butchering livestock for home use at the time of enrollment and 389 on the three survey total. Guthrie had 56 at the time of enrollment and 320 total while Mangum reported 147 beginning and 511 total.

At the time of enrollment there were 39% of the trainees butchering livestock for home use from Atoka, 17% from Guthrie and 44% of the 333 reported were from Mangum. There were 78.8% of trainees reported on by the three schools who butchered livestock for home use distributed as follows: Atoka 32%, Guthrie 26%, and Mangum 42%.

The survey on trainees producing home vegetable gardens for minimum needs was similar to the above results. Those with gardens at time of enrollment were: Atoka 140 or 46%, Guthrie 61 or 21%, and Mangum 101 or 33% of the 302 trainees.

Those with home gardens on the three reports were: Atoka 381 trainees or 29%, Guthrie 375 trainees or 29%, and Mangum 540 trainees or 42% of the 1,296 trainees making up 83.7% of those trainees reported on by three schools.

It was surprising to find that so many trainees around Mangum had vegetable gardens and killed livestock for their home use.

Very few trainees had home orchards at the time they enrolled. There were 26 at Atoka or 38%, 29 at Guthrie or 42%, and 14 at Mangum or 20% of the 69 reported. The three report totals show Atoka had 102 trainees with home orchards or 26%, Guthrie had 142 or 36%, and Mangum had 153 or 38% of the total of 397 with home orchards for family needs. These last figures indicate that 25.6% of the trainees covered in the surveys had home orchards and on the final figures were about evenly distributed among the trainees in the three schools surveyed. In my opinion, more orchards should be found in the Eastern half of the State than in the Western half even though this limited survey does not show it that way.

Effective leadership and a favorable weather cycle have combined to increase production of farm family food, especially in the Western half of Oklahoma. This same would hold true for use of fertilizers and legumes.

# TABLE XXIII

## NUMBER OF TRAINEES PRODUCING AND PROCESSING FOOD FOR HOME USE AS SHOWN BY PROGRESS REPORTS OF ATOKA, GUTHRIE, AND MANGUM SCHOOLS

Total Number of Trainees	Atoka 3-Survey Total	Guthrie 3-Survey Total	Mangum 3-Survey Total	3 <b>-S</b> chool 3-Survey Totals	Percent	Atoka Percent of Total	Guthrie Percent of Total	Mangum Percent of Total
Butchering livestock	an shaka a sha ka shaka a shaka s	a fallen van de Anne angewerken op de Anne angewerken op de Anne angewerken Anne angewerken Anne angewerken Ann An en angewerken op de Anne angewerken op de Anne angewerken an an en angewerken an	A SANATANAN KANG JAWA KANG KANG KANG KANG KANG KANG KANG KAN	n - andre Lingersen die Schartz zwennen die die Verstaanse das Schartz in die Schartz Netwoorden van die Schartz wat die Schartz die Schartz die Schartz die Schartz die Schartz die Schartz die Schar In die Schartz	nga katan dan katan Katan dan katan dan k	unar en radioen, eur VII - Al Vanz de <b>Gal de Carles de Van de Ca</b> rles de Carles	nama kang sa Kang Kang Kang Kang Kang Kang Kang Kan	and Development (Pargue not a stress of the state of the
for home use:								
1948	130	56	147	333		39	17	44
Total	389	320	511	1,220	78.8	32	26	42
Having home gardens for	-			,				·
minimum family needs:								
Beginning	140	61	101	302		4.6	21	33
Total	381	375	540	1,296	83.7	29	29	42
Having home orchards:								
Beginning	26	29	14	69		38	42	20
Totel	102	142	153	397	25.6	26	36	38

#### CHAPTER V

#### CONCLUSIONS AND RECORPENDATIONS

More than 30,000 former cervice men and women have participated in the Institutional on Farm Training Program in Oklahoma. These veterans through their families and neighbors have exerted and will continue to exert a powerful influence upon the agriculture of the State.

The average veteran trainee in Oklahoma operates a farm of 208 acres with about 92 acres in cultivation. Some fairly representative samplings show trainees at Atoka averaged 206 total acres with 48 acres in cultivation, trainees at Guthrie averaged 260 acres total with 98 acres of cultivated land, and those at Mangum had 190 acres overall average but had 130 acres in cultivation.

These figures indicate marked differences in size of farming business and are directly related to farm income and level of living in various farming areas of Oklahoma.

Trainces at Mangum have initiated and increased the use of fertilizer and cortain other soil improvement practices during the years the Veterans' Agricultural Training Program has operated more than trainees at Atoka or Guthrie. This may be due in part to above average rainfall favoring western Oklahoma where rainfall is generally a limiting factor, but part of this increase should be credited to effective teaching.

Veteran trainees at Guthrie showed the highest average investment in machinery and equipment despite the fact that Mangum trainees operate a higher overage acreage of cultivated land. This is probably due to more diversification in the Gutbric area and part of the equipment being used in livestock production, while Mangum trainces tend to specialize on either row crops or small grain farming.

Atoka's trainees are handicapped by small units of cultivated land and relatively small units of grassland of highly variable productivity. Consequently, they are unable, for the most part, to utilize the larger, more expensive equipment efficiently on their small farms.

Atoka, Guthrie, and Mangum schools, selected for intensive study, probably were not as careful in screening applicants for training as were schools where only one or two classes of veterans were in operation. They were inclined to enroll veterans as fast as they applied and covered rather large geographic areas. The practice of redistributing trainees on an area basis when other instructors were hired probably was a factor which in many cases interfored with the continuity of the veterans' farm training. Both group and individual instruction varied more in these schools than in schools where one instructor remained in charge of the trainee throughout his training period.

Guthrie operated for a time on the plan whereby instructors taught subjects dealing in their special interest field or college major only rather than each instructor giving the group instruction to the same veterans that he gave the individual on-farm instruction.

The experience gained from the Veterans' Agricultural Training Program in Oklahoma should prove valuable in planning and carrying out a continuing program of Adult Education in Agriculture. A report from

an opinion survey conducted by Clois Huffer<sup>1</sup> indicates that a high percentage of veteran trainees are interested in some form of a continuing program of Adult Vocational Agricultural Training.

Effectiveness of teaching in Vocational Agriculture is measured by the results shown on the farm. Therefore, it is necessary that veteran trainees have sufficient facilities to work with and guidance in planning to insure satisfactory farming programs. It is recommended that the trainee with his family, under the guidance of the instructor, work out objectives he plans to attain. These should be both long time objectives for the farm and farm home as a whole and short time objectives on an enterprise or activity. This procedure loads naturally to effective planning and measurement of progress.

Experience has shown that in many cases those veterans who were being trained while employed by enother farmer have not made satisfactory progress toward establishment in farming.

It is recommended that organization of teaching material be based on needs of the individuals and designed to fit the problems of the particular farm. Time devoted to teaching of various enterprises should be allocated on the basis of the economic importance and frequency of occurrence of these enterprises on the farms of those enrolled.

The writer urges strongly that in future programs of veterans' training in agriculture, the provision for individual instruction on the trainee's farm be maintained and emphasized.

<sup>&</sup>lt;sup>1</sup>Clois Huffer. Thesis, Oklahoma A. & M. <u>A Study of Opinions</u> <u>Received From Trainces in Eastern Oklahoma Reporting Procedures and</u> <u>Outcomes of Instruction Provided in the Veterans' Agriculture</u> <u>Training</u>, (May, 1952).

It would be advisable to allow local option on discontinuing the training program for short periods of time during extremely busy seasons of the farming year. This applies particularly to the wheat area during the rush of harvest.

In order to maintain a coordinated program, the professional improvement conferences of instructors should be held each month, with a minimum of time devoted to administrative details. These professional improvement meetings offer great opportunities for the study of current problems common to the group. Such problems might deal with new developments in spray materials; new crops, such as castor beans; and revisions in crop and livectock production plans due to floods, droughts, or hail.

Agricultural marketing should be stressed at these meetings together with such improved production practices as fertilizing, which has increased greatly among veteran trainees; planting certified seed of approved varieties; using purebred sires with high productive capacity; feeding balanced, economical rations; and improving pastures.

Recommendations for future veterans training leading into young farmer classes might well stress the need for: (1) increased size of business, (2) greater labor efficiency, and (3) high rates of production both in crop and livestock enterprises. There is a definite need in the poorer agricultural areas for improved family food production for home consumption. Other areas of training recommended for adult farmer classes include: farm financing and efficient marketing, land appraisal, effective combinations of enterprises, and legunes in a rotation to make up the balanced farming programs. In summary, the following recommendations are made with regard to future training programs for individual farm veterans:

Minimum entrance requirements of full managerial control of a farm that will provide at least 125 full days of work per year. This should be systematically increased to 225 or 250 days of productive work each year.

No trainee should enter or re-enter the training program with less than six months' training time available.

Each trainee should have a farming plan including more than one productive enterprise. He should work toward a balance of crop and livestock enterprises and have a complete program of family food production.

The trainee should be required to have access to adequate machinery and equipment to operate his farm successfully.

The experience gained in conducting the Veterans' Agricultural Training Program in Oklahoma should prove helpful in outlining future programs of training in agriculture for veterans of the Korean conflict. Upgrading of instruction and trainee progress should be stressed more in the future with less emphasis on finance and other administrative matters.

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#### PROGRESS REPORT OF VETERANS AGRICULTURAL TRAINEES OKLAHOMA BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERANS' AGRICULTURAL TRAINING STILLWATER, OKLAHOMA

December 1, 1948

Name	of	Sc	ho	0	1
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Enr	ollment status:
a.	Total number of individual veterans enrolled at your school since the beginning of the program.
Ъ.	Number of veterans currently enrolled
C.	Number of eligible veterans on waiting list at the present time
d.	What is your estimate of the trainee enrollment in your school
	July 1, 1949
Esta	ablishment in farming:
a.	Number of veterans who now own farms
Ъ.	Number of veterans who bought farms upon or since enrollment
C.	Number of veterans who rent farms
d.	Number of veterans who farm in partnership
e.	Number of veterans who are employer-trainees
f.	Number of veterans who have moved from employer-trainee to self- proprietorship status since being enrolled in VATP
g.	Equipment purchased by veterans:
	Tractors (new and used)
h.	Livestock owned by veterans:
	Dairy cattle.
Soi	l conservation and improvement:
а.	Number of veterans participating in some phase of a soil conservation and improvement program:
	At the time of enrollment

Amth 63

Ъ.	Number of veterans' farms on which soil tests have been made
C.	Number of acres terraced by veterans while in training
d.	Number of acres contour tilled by veterans in training:
	At the time of enrollment
e.	Number of acres farmed by veterans on which regular crop rotation is practiced
f.	Number of acres farmed by veterans on which either commercial ferti- lizer or barnyard manure has been applied
g,	Tons of commercial fertilizer and lime applied on veterans' farms since their enrollment.
h.	Number of veterans using commercial fertilizer or lime:
	At the time of enrollment
i.	Number of veterans planting legumes:
	At the time of enrollment
j.	Total number of acres seeded to legumes on veterans' farms
k.	Number of farm ponds constructed on veterans' farms
Croj	p improvement:
a.	Number of veterans planting certified seed
Ъ.	Number of veterans who treat seed
C.	Number of veterans who have used 2,4-D or other chemicals for weed control
d.	Total number of acres weeded chemically in 1948
Live	estock improvement:
a.	Number of veterans using purebred bulls: At time of enrollmentAt present time
<b>Ն</b>	Number of veterans using purebred boars: At time of enrollmentAt present time
C.	Number of veterans using purebred rams: At time of enrollmentAt present time
d.	Number of livestock sprayed or treated during 1948 for
	Fly control

	6
	rams: At time of enrollment
. Number of livestock sprayed or tre	ated during 1948 for -
Lice control	· · · · · · · · · · · · · · · · · · ·
asture improvement:	
Acres of cultivated land returned to	native or tame pasture
Acres of permanent pasture improv	ved:
By mowing By fertilizing	By reseeding By other practices
armstead improvement:	
Dwelling houses constructed	
	hich major repairs have been made .
Dwelling houses which have been in following conveniences:	
Butane or Propane	Number installed
Telephones	Number installed
Electricity	Number installed
Running Water	Number installed
Sewage Systems	Number installed
Landscaping and yard improvement	<u></u>
Barns constructed	
Barns remodeled or on which majo	r repairs have been made
Poultry houses constructed	*************
Hog houses constructed	
irm Family living:	
Number of veterans butchering live	stock for home consumption:
At the time of enrollment	
Number of veterans with home gard At the present time	
Number of veterans with home orch At the present time	nards: At the time of enrollment .
Imber of veterans participating in cl Artificial insemination	
Cooperative sire projects	izations
Farm labor pools	
Organized fire control	g. Community recreation.
	Others
	Specify
It is suggested that one copy of this	report be retained for use locally
to a suggested that one copy of this	Submitted by:
	V.A.T.P. Instructor

## PROGRESS REPORT OF VETERANS AGRICULTURAL TRAINEES OKLAHOMA BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERANS' AGRICULTURAL TRAINING

April 10, 1950

oer (	of trainees covered by this report
Esta	ablishment in farming:
a	Number of trainees who have purchased farms since January 1, 1949
р.	Total number of trainees enrolled or who have been enrolled who now own farms.
c.	Number of trainees currently enrolled who rent farms
d.	Number of trainees who farm in partnership
e.	Number of trainees who have moved from employer-trainee to self-proprietor- ship status since January 1, 1949
f.	Total investment of trainees in machinery and equipment as of January 1, 1950
g.	Livestock owned by trainees as of January 1, 1950 (See Farm Account Book, pages 2,3, and 4)
	Dairy cattle Beef cattle
	Hogs Sheep Poultry
h.	Investment in livestock and poultry by trainees as of January 1, 1950 (See Individual Instruction Guide and Record, page 2, or Farm Account Book, page 8)
	Dairy cattleBeef cattle Other livestock Poultry
Crop	o and soil improvement:
a	Total number of acres included in trainees' farms
Ъ.	Acres of crop land included in trainees' farms
C.	Number of trainees participating in some phase of a soil conservation and improvement program
d.	Number of trainees farms on which soil tests have been made since January 1, 1949
e.	Number of acres terraced by trainees since January 1, 1949
f.	Number of acres being contour tilled by trainees
g.	Number of acres farmed by trainees on which regular crop rotation is practiced
h.	Number of acres farmed by trainees on which either commercial fertilizer or barnyard manure has been applied since January 1, 1949

Number of trainees who have seeded legumes since January 1, 1949
Total number of acres which have been seeded to legumes since January 1, 1949
Number of farm ponds which have been constructed on trainees' farms since January 1, 1949
Number of trainees who have planted certified seed since January 1, 1949
Number of trainees who have used chemicals for weed or brush control since January 1, 1949
vestock improvement:
Number of trainees using purebred bulls at the present time
Number of trainees using purebred boars at the present time
Number of trainees using purebred rams at the present time
Number of trainees who have sprayed or treated for flies, lice, or grub control since January 1, 1949
sture improvement:
Acres of cultivated land returned to native or tame pasture since January 1, 1949.
Number of trainees who have practiced permanent pasture improvement by mowing, fertilization, reseeding, brush eradication, or controlled grazing .
rmstead improvement: 11 figures to be those since January 1, 1949 unless otherwise specified)
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rmstead improvement: 11 figures to be those since January 1, 1949 unless otherwise specified)
rmstead improvement: 11 figures to be those since January 1, 1949 unless otherwise specified) Dwelling houses constructed by trainees
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## PROGRESS REPORT NUMBER 3 OF VETERANS'AGRICULTURAL TRAINEES STATE BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERANS' AGRICULTURAL TRAINING

is report covers the period January 1, 1950, to December 31, 1951, and should include trainees enrolled during this period.

Name of School\_\_\_\_\_

Total number of all trainees in training during this period \_\_\_\_\_\_ Number of trainees covered by this report \_\_\_\_\_\_ PART I

# Farming Status

Number of trainees who became farm owners January 1, 1950 to December 31, 1951.

Number of trainees who rented land during period January 1, 1950 to December 31, 1951.

Number of trainees who owned and rented land during period January 1, 1950 to December 31, 1951.

Number of trainees who farmed in partnership during period January 1, 1950 to December 31, 1951.

Number of trainees who have moved from employer-trainee to self-proprietorship status January 1, 1950 to December 31, 1951.

Purchases of machinery and equipment January 1, 1950 to December 31, 1951. (Dollar Value)

Livestock increase January 1, 1950 to December 31, 1951. (This should include all increase in inventory either purchased or raised)

KIND	NUMBER	DOLLAR VALUE
Dairy		
Hogs		
Sheep		
Beef Cattle		
Poultry		
TOTAL		

## PART II

## Crop and Soil Improvement

Total number of acres included in all trainees' farms in attendance during period January 1, 1950 to December 31, 1951.

Acres of cropland included in above question.

Number of trainees participating in following phases of soil conservation and crop improvement program January 1, 1950 to December 31, 1951.

PRACTICE	NUMBER OF TRAINEES PARTICIPATING	ACRES
Soil Test		xxxxxx
Terraces	· · ·	
Contour Tillage		
Tillage Crop Rotation Practice		
Commercial Fertilizer		
Lime		
Organic and Barnyard Manure		
Seeded Legumes		
Farm Ponds		xxxxxxx
Seeded Approved Varieties		xxxxxxx
Seeded Certified Seed		xxxxxx
Chemical Weed Control		
Insect Control		xxxxxx

## PART III Livestock Improvement

Trainees participating in livestock improvement program January 1, 1950 to December 31, 1951.

	NUMBER OF TRAINEES	NUMBER OF
PRACTICE	PARTICIPATING	ANIMALS
Using Purebred Bulls		xxxxxxx
Purebred Boars		<u>xxxxxxx</u>
Purebred Rams		xxxxxxx
Treatment External Parasite		
Treatment Internal Parasite		ά.
Vaccination and Disease Prevention		

## PART IV Pasture Improvement

Trainees participating in pasture improvement January 1, 1950 to December 31, 1951.

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PRACTICE	NUMBER OF TRAINEES PARTICIPATING	NUMBER OF ACRES
Returning Native Land to Pasture		
Seeding Tame Pasture		
Pasture Fertilized		
Pastures Reseeded and/or Overseeded		
Brush Eradication		
Controlled Grazing		
Pastures Mowed		

## PART V Farmstead Improvement

.. All figures to be those January 1, 1950 to December 31, 1951.

PARTICIPATION IN	NUMBER OF TRAINEES	NUMBER
FARMSTEAD IMPROVEMENT	PARTICIPATING	OF UNITS
Dwelling Houses Constructed		
Dwelling Houses Remodeled		
Butane or Propane		xxxxxxx
Telephones		xxxxxxx
Electricity		xxxxxxx
Running Water		xxxxxxx
Grade A Dairies		
Barns Constructed		

## PART VI

## Farm Family Living

Trainees participating in farm family living January 1, 1950 to December 31, 1951.

	1	
	NUMBER OF TRAINEES	NUMBER
PARTICIPATION	PARTICIPATING	OF UNITS
Grow Home Gardens Suffi- cient to Meet Minimum Needs		xxxxxxx
Have Home Orchards Suffi- cient to Meet Minimum Needs		xxxxxxx
Canned Vegetables		qts.
Farm Meats for Home Consumption		lbs.
Frozen Vegetables		lbs.
Have Access to Either Home or Commercial Freezer		xxxxxxx

## PROGRESS REPORT OF VETTRAMS AGRICULTURAL TRAINEES OKLAHOMA BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERAUS AGRICULTURAL TRAINING STILLMATER, OKLAHOMA

1.	En:	rollmont status:
	с.	Total number of individual veterans enrolled at your school since the beginning of the program
	b.	Number of voterans currently enrolled 15,337
	¢.	Number of eligible veterans on vaiting list at the present time
	a.	What is your estimate of the trainee enroll- ment in your school
2.	Es	tablishment in farming:
	8.	Number of votorens who now own farms 5,183
	Ъ.	Number of veterans who bought farms upon or since enrollment 2,186
	с.	Number of votorans who reat farms 10,024
	d.	Sumber of veterans who fare in partnership 1,709
	е.	Number of veterans who are employer-trainees 486
	f.	Number of veterans who have moved from employer- trainee to self-proprietorship status since being enrolled in VATP
	8.	Equipment purchased by veterans: Tractors (new and used)

h: Livestock ouned by veterans: 62,891 95,782 Boof cattle..... 38,660 10,274 Sheopattassassassassassassassassassassassas Horses and mules..... 22,290 Poultry ..... 733,336 Soil Conservation and Improvement: 3. a. Number of veterans participating in some phase of a soil concervation and improvemont program: At the time of enrollment...... 4,312 At the present time..... 10,016 b. Number of veterans' forms on which soil c. Runber of acres torraced by vetorans while d. Sumbor of acres contour tilled by veterans in training: . Humber of acres fermed by voterans on which f. Bumber of acros farmed by veterals on which oither connercial fortilizer or barnyard g. Tons of commercial fortiliser and line applied on veterans' farms since their enrollment.....124,042 h. Sumber of veterans using commercial fertilizer or line: At the time of onrollmont..... 2,295 At the present time ..... 6,981 i. Rumber of vetorens planting legumos: At the time of enrollment...... 4,053 At the present time ..... 8,933 j. Total number of scres second to logunos k. Sumbor of farm gonds constructed on veterans' farms..... 4,649

4. Crop Improvement:

,

	a. Number of veterans planting certified seed	10,692
	b. Number of veterans who treat seed	8,427
-	c. Number of veterans who have used 2,4-D or other chemicals for weed control	1,770
	d. Total number of acres weeded chemically in 1948	19,115
5.	Livestock Improvement:	•
	a. Number of voterans using purebred bulls: At the time of enrollment At the present time	3,458 7,264
	b. Number of veterans using purebred boars: At the time of enrollment At the present time	1,557 4,332
	c. Number of veterans using purebred rams: At the time of enrollment At the present time	102 194
	d. Number of livestock sprayed or treated during 1948 for: Fly control Lice control Grub control	192,078 139,733 73,459
6.	Pasture Improvement:	
	or tame pasture	178,967
	b. Acres of permanent pasture improved: By mowing By fertilizing By reseeding By obher practices	104,675 47,385 71,503 89,550
7.	Farmstead Improvement:	1 - -
	a. Dwelling houses constructed	1,062
	b. Dwelling houses remodeled or on which major repairs have been made	3,651
	c. Dwelling houses which have been improved by the installation of the following convenience Butane or Propane Number installed	es: 3,108

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	Telephones Number installed Electricity Humber installed Running Vater Number installed Sevage Systems Number installed	2,033 4,114 1,747 947
	d. Landscaping and yard inprovement	4,819
	o, Barns constructed	2,134
	f. Barns remodeled or on which major repairs have been made	2,889
	g. Poultry houses constructed	2,570
	h. Hog houses constructed	2,552
8.	Ferm Faully Living:	
	a. Humber of veteraas butchering livestock for home consumption:	
	At the time of enrollment	9,387 12,666
	h. Number of veterans with home gardens: At the time of enrollment	10,201 13,415
	c. Number of veterans with home crohards: At the time of enrollment At the present time	3,055 4,611
9.	Number of veterans participating in class or group cooperative projects:	
	c. Artificial insomination	517
	b. Cooperative sire projects	748
	c. Farm labor pools	3,553
	d. Organized fire control	1,459
	. Livestock spraying organizations	4,011
	f. Farm machinery	2,305
	g. Community recreation	4,709
	Others	2,335

#### PROGRESS REPORT OF VETERANS AGRICULTURAL TRAINERS OKLANOMA BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERARS! AGRICULTURAL TRAINING

Poriod Covering January 1, 1949 through December 31,1949

## Totals for All Districts

Humber of trainees covered by this report14,565*
1. Establishment in farming:
a. Mumber of trainces who have purchased farms since January 1, 1949
b. Total number of trainees enrolled or who have been enrolled who now own farms
c. Number of trainees currently enrolled who rent farms
d. Number of trainces who farm in partnership
c. Mumber of trainees who have moved from employer-trainee to self- proprietorship status since January 1, 1949
f. Total investment of trainees in machinery and equipment as of January 1, 1950
g. Livestock owned by trainees as of January 1, 1950: Dairy cattle

\*The sub-totals in this report do not equal the total because each trainee's situation did not apply to each factor used in the rating.

	h.	Investment in livestock and poultry by trainees as of January 1, 1950: Dairy cattle	21,029,647.00	
2.	Cr	op and soil laprovement:		
	£.,	Total number of acres included in trainces' farms	3,053,179	L.
	b .	Acros of erop land included in traincost farms	1,257,319	
	с.	Humber of trainees participating in some phase of a soil conservation and improvement program	11,692	
	d.	Number of trainees' farms on which soil tests have been made since January 1, 1949	6,710	
	e.	Mumber of acros torraced by trainees since January 1, 1949	95,470	
	î.	Number of acres being contour tilled by trainces	382 <b>,</b> 473	
	\$\$•	Number of acres farmed by trainees on which regular crop rotation is practiced	415,115	
	н.	Humber of acres farmed by trainees on which either connercial fertilizer or bernyard manure has been applied since January 1, 1949	399,985	
	1.	Number of trainees using commercial fortilizer or lime	12,729	
	• 6	Number of trainces who have seeded Legunes since January 1, 1949	8,634	
	Ŀ.	Total number of acres which have been seeded to legunes since January 1, 1949	246,010	
	1.	Number of farm ponds which have been constructed on trainces' farms since January 1, 1949	2,143	

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	12.	Number of trainces who have planted certified seed since January 1, 1949	10,679	
		Europer of trainees who have used chemicals for weed or brush control since January 1, 1949	2,150	
3.	Lit	vestock improvement:		
	æ.,	Number of trainees using purebred bulls at the present time	8,026	
	ь.	Number of trainees using purebred boars at the present time	5,302	
	¢.	Mumber of trainces using purebred rams at the prosent time	210	
	đ.	Mumber of trainces who have sprayed or treated for flics, lice, or grub control since January 1, 1949	12,871	
4.	i'e i	sture Inprovement:		
	٤.	Acres of cultivated land returned to native or take pasture since January 1, 1949	80,643	:
	۵.	Europer of trainees who have practiced permanent pasture improvement by moving, fertilization, rescoding, brush oradication, or controlled grazing	9,196	
5.	Par	rustead improvement:		
	a .	Dwelling houses constructed by trainees	753	• • •
	в.	Dwelling houses remodeled or on which major repairs have been made	3,238	
	e.	Duolling houses which have been improved by the installation of the following conveniences: Number installed since January 1,1949		; these
		Butane or Propame 2,145 Telephones	5,656 .4,508 .8,597	⊷ φ, σ <sub>μ</sub> ⊊7 (.)

6. Ferm family living:

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a .	Number of trainees who have butchered livestock for home consumption since January 1, 1949	12,514
Ъ.	Number of trainces who now grow home gardons sufficient to meet their minimum meeds	12,554
e.	Number of trainees who now have home orchards	5,085

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## PROGRESS REPORT NUMBER 3 OF VETERANS: AGRICULTURAL TRAINERS STATE BOARD FOR VOCATIONAL EDUCATION DIVISION OF VETERANS: AGRICULTURAL TRAINING

This report covers the period January 1, 1950, to December 31, 1951, and should include all trainees enrolled during this period.

#### OXLAHOMA TOTALS

1.	Total number of all trainees in training during this period	16,805
2.	Number of traincos covered by this report	13,871

#### PART I

## TELETHS STATUS

Δ.	Number of trainees who became farm owners January 1, 1950 to December 31, 1951	1,966
	Humbor of traincos who rentod land during period January 1, 1950 to December 31, 1951	20,671
С.	Number of trainees who owned and rented land during period January 1, 1950 to December 31, 1951	5,027
в.	Number of trainces who farmed in partnership during period January 1, 1950 to Decomber 31, 1951	1,419
E .	Europer of trainces who have moved from employer-trained to self- proprietorship status January 1, 1950 to December 31, 1951	331
₽¥.	Purchases of Bachinery and equip- mont January 1, 1950 to December 31, 1951 (Dollar Value) 81	1,176,998.46

G. Livestock increase January 1, 1950 to December 31, 1951. (This should include all increase in inventory either purchased or raised.)

Kind	Numbor	Dollar Value
Dairy Hogs Sheep Beef Cattle Poultry	39,751 83,814 18,237 89,571 643,294	\$ 6,585,040.49 1,789,519.17 415,403.03 12,528,827.77 696,714.62
TOTAL	876,469	\$22,015,505.08

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## PART II

## CROP AND SOIL IMPROVEMENT

A.	Total number of acres trainces' farms in a period January 1, 199 December 31, 1951	ttendance during 50 to	2,872,231
в.	Acres of cropland in question	cluded in above	1,356,699
¢.	Number of trainees paing phases of soil constrained improvement program . December 31, 1951.		
	Practico	Number of Trainees Participating	Acros
	Soil Test	7,906	20000007
	Terraces	3,350	174,847
	Contour Tillage	5,585	378,962
	Tillage Crop Rotation Practice	6,577	766,147
	Commercial Fertilizer	7,181	380 <b>,</b> 320
	Lime	2,177	87,203
	Organic and Barnyard Manure	7,410	126,576
	Seeded Legunes	8,286	82,259
	Farm Ponds	2,760	NOCKICEN
	Seeded Approved Varieties	11,638	XXXXXXXX
	Seeded Certified Seed	9,123	
	Chemical Meed Control	2,013	53,219
	Insect Control	8 <b>,</b> 393	NASS <b>INGE</b>

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## PART III

#### LIVESTOCK IMPROVEMENT

A. Trainees participating in livestock improvement program January 1, 1950 to December 31, 1951

Practice	Number of Trainces Participating	Number of Animals
Using Furebred Bulls	8,721	XXXXXXX
Purebrod Boars	5,135	
Purebred Rams	254	XXXXXXX
Freatment Axtornal Parasito	11,196	358,912
Treatment Internal Parasite	7,391	730,810
Vaccination and	,	-
Disesse Prevention	10,835	357,482

## PART IV

#### PASTURE IMPROVEMENT

A. Trainees participating in pasture improvement January 1, 1950 to December 31, 1951.

Practice	Mumber of Trainees Participating	Number of Acres
Returning Native	na an a	in an
Land to Pasture	3,202	90,430
Seeding Tome Pasture	4,408	142,029
Pasture Fertilized	2,330	72,907
Pastures Reseeded	•	
and/or Overseeded	3,455	108,020
Brush Eradication	2,530	36,832
Controlled Grazing	5,546	560,118
Pastures Moved	4.478	168,192

## PAET V

#### FARMSTFAD IMPROVEMENT

A. All figures to be those January 1, 1950 to December 31, 1951.

Participation in Farmstead Improvement	Number of Trainces Participating	Number of Unito
Dwelling Houses	andenkener annan sein er den seine seine anne mei er einer seiner die de annen seine gehenden den das	
Constructed	849	1,065
Dvolling Houses		-
Remodeled	2,818	2,804
Butano or Propane	4,948	XXXXXX
felephones	2,588	JERRE
Electricity	6,406	XXCOXX
Running Mater	2,679	XXXXXXX
Trade A Dairies	510	753
Sams Constructed	1,864	1,845

#### FARM FAMILY LIVING

A. Trainees participating in form family living January 1, 1950 to December 31, 1951.

Perticipation	Number of Trainces Participating	Mumber of Units	,
Grov Home Gerdens Suffi-			
cient to Meet Minimum			
Needs	11,309	REALEXE	i
Have Home Orchards Suffi-	·		
clent to Meet Minimum			
Need3	2,433	XXXXXXX	
Canned Vegetables	11,520	2,696,134	gts.
Form Ments for Home			<b>.</b>
Consumption	11.804	4,425,894	lbs.
Frozen Vogetables	2.881	317,516	
Have Access to Either			
Home or Commercial			
Freezer	7,290	XXXXXXXX	1

#### Carl L. Smith, Jr. candidate for the degree of Master of Science

Leport: A STUDY OF ACCOUPLISHMENTS BY TRAINERS WHILE EXCOLLED IN "THE VETERARS" AGRICULTURAL TRAINING FROGRAM" IN ONLAFOIM

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Date of Final Examination: July 12, 1952.

#### REPORT TITLE: A STUDY OF THE ACCOMPLISHMENTS BY TRAINEES WHILE ENROLLED IN "THE VETERARS' ACRICULTURAL TRAINING PROGRAM" IN OKLAHOMA

AUTHOR: CARL L. SMITH, JR.

#### REPORT ADVISER: DON M. ORR

The content and form have been checked and approved by the author and report adviser. Changes or corrections in the report are not made by the Graduate School office or by any committee. The copies are sent to the bindery just as they are approved by the author and faculty adviser.

TYPIST: PAULINE HINRICHS