A STUDY OF THE AVAILABILITY OF REFERENCE MATERIALS IN OKLAHOMA STUDENT-TEACHING CENTERS AND NON-STUDENT-TEACHING

CENTERS

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By

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Thesis Approved:

Thesis Adviser \mathcal{T} ean of

the Graduate College

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To my wife Nelda, this work is sincerely dedicated.

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CHAPTER I

PURPOSE AND DESIGN OF THE STUDY

Introduction

Thomas Jefferson once said,

I know no safer depository of the ultimate powers of society but the people themselves; and if we think them not enlightened enough to exercise their control with a wholesome discretion, the remedy is not to take it from them, but to inform their discretion by education.

Written reference material has been used to inform the discretion of people since the beginning of education. The reference material used in schools today is vastly different from that of the reference material used in Thomas Jefferson's time. With the increase in new inventions in audio-visual equipment and better classroom facilities, methods of teaching have changed. However, as remarkable as the new inventions are, and not withstanding their impact upon our time, they have made no such decisive headway as an accepted and integral portion of the educational system as to threaten the displacement of the book.

The need for good reference material in supervised study and for use in making lesson plans as a student-teacher has stimulated the author's interest to study the availability of the reference materials in the high school vocational agriculture departments of Oklahoma.

Need for the Study

Agriculture is ever changing, and the changes made today must be

recorded and disseminated to the people by some means. This is usually done in the form of written reference material supplied to the county agents and vocational agriculture teachers. It is essential that these people stay abreast of reference material in order to do their job effectively. The need for this study stems from the fact that there has been an almost total absence of research on the more ubiquitous text. The lack of research seems strange since the text has been a source of dissatisfaction and a subject of controversy.

Purpose of the Study

Providing successful training experiences for beginning teachers is of vital importance. With this in mind the purpose of this study was to determine if the availability and quality of reference materials used in student-teaching centers are superior to those reference materials in vocational agriculture departments not used as studentteaching centers. The areas that need the most improvement or additions will be revealed in this study.

Scope of the Study

This study included all the schools used as student-teaching centers and a stratified random sample of schools not used as studentteaching centers during the school year of 1965 and 1966.

Limitations of the Study

This study is limited to the written reference materials in the vocational agriculture departments in Oklahoma. The emphasis is placed on textbooks that are available to the high school students. The

quality rating in this study is based on the books in the department and does not reflect the quality of magazines, pamphlets, or bulletins.

Definitions of Terms

Students -- boys regularly enrolled in vocational agriculture at the high school level.

Student-teachers -- college students enrolled in agriculture education who do their apprentice teaching for a period of nine weeks.

Student-teaching centers -- schools which have student-teachers in their vocational agriculture departments.

Reference material -- refers only to material that is written and is bound in some manner unless otherwise stated.

Procedure

This study included all the schools used as student-teaching centers during the school year of 1965-66 and twenty-two other schools that were selected at random. The randomly chosen schools were stratified by districts in the same proportion as the number of studentteaching centers for each particular district.

A list of all the vocational agriculture departments was obtained and each school was given a number by districts. Using a table of random digits, each school was selected as the corresponding numbers appeared from the list. A questionnaire was mailed to the twenty-two schools in each group. The questionnaire was returned by twenty of the twenty-two student-teaching centers and nineteen of the twenty-two non-student-teaching centers.

Figure one-shows the location of the schools responding to the questionnaire.

The questionnaire included thirteen major areas of study in vocational agriculture requiring reference materials. The thirteen areas listed are: general feeding, dairy, swine, poultry, sheep, farm management, soils, field crops, pastures, horticulture, agriculture mechanics, beef, and agricultural occupations.

The quality of references was measured by the copyright date of the book and by a comparison of a selected list of reference materials for each major area. The list was compiled by the District Supervisors of Vocational Agriculture, based on their judgment as to what books should be in the vocational agriculture departments. The list of books came primarily from the approved book list of state adopted books for vocational agriculture and from book lists published by various companies. The standard list compiled by the District Supervisors of Vocational Agriculture may be found in Appendix E. The State adopted book list may be found in Appendix D.

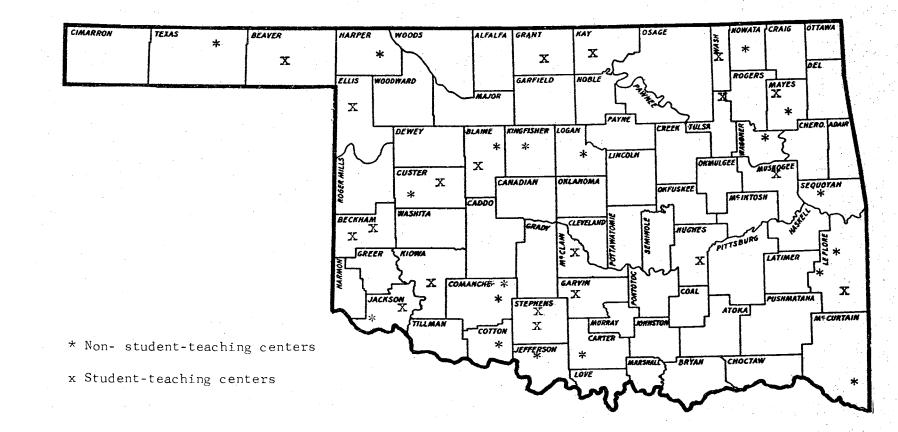
Determining the quality of books involved the following process. Books published in 1960 or later were assigned a number value of three, provided they appeared on the State adopted book list. Books of the same date that appeared on the District Supervisors' list were assigned the number value of six. If the book appeared on both of the above lists, it was assigned the value of nine. This same system was used for books in the publication bracket of 1955 to 1959 and 1954 and earlier; however, the assigned value decreased as the publication date decreased. Refer to Appendix F for a complete table on the scoring method. Books not appearing on one of the two lists received no score.

The availability of reference materials was based on the quantity of books in each of the thirteen areas investigated in this study. A comparison was made between the quantity in each area and the mean class size of the largest class during the past five years. The author felt that if the quantity was equal to the mean class size that there would be enough books to be used as a text book. The areas of farm management and agricultural occupations were compared with the mean class size of seniors, based on the assumption that these areas were taught to older students. Refer to Tables XX and XXI for the comparison.

The data as presented in this study were tested by employing the Chi square method and by using a \underline{t} test. Significant differences between the student-teaching centers and non-student-teaching centers are indicated in the tables.

Research Hypotheses

- The student-teaching centers should have a larger quantity of reference materials than non-student-teaching centers.
- The student-teaching centers should have more quality reference materials than those not used as student-teaching centers.





CHAPTER II

REVIEW OF LITERATURE

The neglect of the provision of an adequate supply of suitable books constitutes not a minor but a major defect in education (1). Our educational system at present is still dependent upon the teacher and the printed page, and they must continue to be the chief means of imparting knowledge, just as has been the case through century after century (3).

There are college professors of education, supervisors, subjectmatter specialists, and professional writers who would do away with textbooks altogether. To them the textbook, like the love of money, is the root of all evil, a reactionary influence in the educational process. However, they seldom explain how they would improve the textbook or what they would substitute for it (1).

During the history of American education there has been an almost constant change in textbooks. The high mortality among textbooks has been brought about by a constant need for improvement. "If nothing more, the fact that man is always learning has resulted in his discarding the books children study and using books more adapted to the purpose for which they were designed." (3).

Education, more and more utilitarian, is fighting to get upon a scientific basis, and the register of this change rests as much in the textbook as in the teacher (11).

Once a book or any reference material is purchased it is usually expected to last for a period of time. This is especially true with textbooks. Many new teachers must have to suffer for the decisions that have been made by the teacher before them. A teacher should not be content to live forever with an out-of-date book any more than he would be willing to wear a suit of clothes that is ten years old and out of style but still has physical ability to hold together (6).

The textbooks of today are infinitely superior to those of the nineteenth century. No one will dispute that they are more sound pedagogically, more attractive physically, and much sturdier (1).

The textbook is a tool of education indispensable to the service of both teacher and pupil (1). The selection of reference books is just as technical a problem as the choice of tools for efficient work in any industry (9). The textbook is an accepted tool in teaching (11).

It is sometimes possible to tell when a teacher quits growing intellectually by noting the publication dates of the books on his reading list (6). A teacher who is using a fifteen-year-old text and has read no more recent books on the subject is unlikely to bring the material up-to-date (6). Actually, written reference materials are inexpensive in comparison to the total cost of education that is made effective because of them.

In the past, students were considered as something to stuff as one would a turkey. Now the student's interest is considered; therefore, the textbook should attract his interest and not repel it (4). The textbook is an aid in instruction because it saves time in organizing essential data and is a convenient means of having a definite organization of material readily available. In Cody's (5) study comparing the

relative efficiency of silent reading, simultaneous reading and listening, listening, and note taking, she found that the most advantageous method of presentation of the selections employed was silent reading. It is apparent that textbooks have been used and are now being used in teaching effectively.

The following information indicates that reference material is becoming increasingly more important. In 1939 there were 239,692,508 periodicals published; by 1954 this number was up to 449,284,696. Books published in 1939 numbered 182,319,108; by 1954 the number of books published increased to 770,840,000 (10).

With the immense yearly increase of reference materials, it should be interesting to note how well teachers in the vocational agriculture departments are keeping up-to-date. Boyd (2) found in his study that fifty-nine per cent of the instructors responding to his questionnaire indicated a need for additional reference materials.

CHAPTER III

PRESENTATION AND ANALYSIS OF DATA

Data presented in this chapter were obtained from questionnaires completed and returned by respondents representative of twenty studentteaching centers and nineteen non-student-teaching centers in Oklahoma. The questionnaires were collected and the data summarized. Tables 'were formulated to facilitate presentation of data covering questions included in the questionnaire. The following tables, analyses, and comments constitute a presentation of data secured in the course of this investigation.

Comparison of Characteristics of the Population

The findings as presented in Table I indicate that the teachers in student-teaching centers are older than teachers in non-student-teaching centers. One hundred per cent of the teachers in student teaching centers are twenty-seven to fifty-six years of age, while seventy-four per cent of the teachers in non-student-teaching centers are twentyseven to fifty-six years of age.

Table II presents information concerning the number of years of teaching experience in vocational agriculture and the tenure in the present school system. Before a department is selected as a studentteaching center, the teacher must have enough tenure and experience to establish himself as a master teacher. This condition is illustrated

TABLE I

Age Range		-Teaching nter	Non-Student Teaching Cen		
in Years	Number	Per Cent	Number	Per Cent	
21-26	0	0)	3	15	
27-32	5	25	4	21	
33-38	3	15	5	26	
39-44	6	30	2	11	
45–50	5	25	2	11.	
51-56	1	5.	1	5	
57-over		01		<u> 11 </u>	
Total	20	100~	19	100,	
		. · ·			

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AGE OF TEACHERS RESPONDING TO THE QUESTIONNAIRE

in Table II. Table II indicates that the teachers in student-teaching centers have more teaching experience and longer tenure in the present system. Only thirty per cent of the teachers in student-teaching centers had ten years of experience or less as compared to fifty-two per cent of the teachers in non-student teaching centers. It is interesting to note that fifty-five per cent of the teachers in studentteaching centers have been teaching from eleven to twenty years in the present school system. On the other hand, only twenty-one per cent of the teachers in the non-student-teaching centers have been teaching in the present school from eleven to twenty years. Forty-two per cent of the teachers in non-student-teaching centers have been in the present school system for only one to five years.

The findings as presented in Table III indicate that the mean class size of the two types of centers is not significantly different. The freshman class size is large while the senior class is small. The largest class size reported was a freshman class with twenty-five, and the smallest class reported was a senior class of four.

Fifty-five per cent of the student-teaching centers combined their vocational agriculture classes III and IV. The non-student-teaching centers indicated that fifty-three per cent of the vocational agriculture classes III and IV were combined. This suggests that the class size in the two types of centers does not differ to any great extent.

Methods of Financing and Displaying Reference Materials

It is surprising to note in Table IV that fewer schools classified as non-student-teaching centers received "no budget" than schools with student-teaching departments.

TABLE II

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PER CENT OF TEACHERS CATEGORIZED BY TOTAL EXPERIENCE TEACHING VOCATIONAL AGRICULTURE, TENURE IN THE PRESENT SYSTEM, AND TYPE OF CENTER

	Student-Teach:	ing Center	Nøn-Student-Teaching Center		
	Number :		Number =		
Range in Years	Total Experience	Tenure	Total Experience	Tenure	
1-5	0	15	26	42	
6-10	30	25	26	26	
11-15	25	25	11	5	
16-20	25	30	21	16	
20-over	20	5	_16	11	
Total	100	100	100	100	

TABLE	III
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AVERAGE CLASS SIZE FOR THE PAST FIVE YEARS BY THE TYPE OF CENTER

		-Teaching enter	Non-Student- Teaching Center		
School Classification	Mean Number	Per Cent	Mean Number	Per Cent	
Freshmen	12	30	13	31	
Sophomores	10.6	26	11.3	27	
Juniors	9.4	24	9.2	22	
Seniors	7.9		8.1	20	
Total	39.9	100	41.6	100	

After analyzing the data in Table IV, one can note no significant difference in the per cent of the budgets used for reference material in the one to twenty-five per cent range of both types of centers. The major difference was in the seventy-six to one hundred per cent range where the non-student-teaching centers reported eleven per cent as compared to zero per cent in student-teaching centers. One of the two teachers reporting an expenditure of seventy-six to one hundred per cent had nine years experience in the present school while the other teacher had seventeen years experience in the present school.

Table V indicates that the school was responsible for seventy-six to one hundred per cent of the finances for text and reference materials in eighty per cent of the student-teaching centers. This was a notable difference from the non-student-teaching centers which received only sixty-three per cent of their reference material finances in the seventy-six to one hundred per cent bracket.

The questionnaire requested that the teacher check the following means of obtaining reference material and estimate the per cent of support received from each source. Purchased by the school, bought by money raised by the Future Farmers of America chapter, bought with money collected as fees from Vocational Agriculture students, and other means were the categories listed in the questionnaire. Each teacher was able to give the actual per cent of financing by each method. Therefore, the teacher could indicate the various means of financing the reference materials if there were more than one.

Non-student-teaching centers indicated that five per cent received no finances from the school. Also, one hundred per cent of the nonstudent-teaching centers received no finances from agricultural fees

TABLE IV

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EXPENDITURE OF ANNUAL BUDGET RECEIVED FROM THE SCHOOL DISTRICT FOR REFERENCE MATERIALS BY THE TYPE OF CENTER

Per Cent of Budget Used for Reference Material		Teaching ter	Non-Student- Teaching Center		
Range in Per Cent	Number	Per Cent	Number	Per Cent	
No Budget Received	15	75	13	68	
1-25	5	25	4	21	
26-50	0	0	0	0	
51-75	0	0	0	0	
76-100	0	0		_11	
Total	20	100	19	100	

TABLE V

PER CENT OF FINANCING TEXT AND REFERENCE BOOKS BY METHODS AND TYPE OF CENTER

- <u></u>	<u></u> <u>is</u> is			Non-S		-Teaching
Per Cent	Per Cent <u>Student-Teaching Center</u>			<u> </u>		
of		umber	= 20 Agricultural	ING	linder	Agricultural
Financing	School	FFA	Fees	School	FFA	• · · · · · · · · · · · · · · · · · · ·
0	0	55	70	5	52	100
1-25	5!	30	30 ⁻	11	16	0
26-50	10	10	0	16	16	0
51-75	5	0	0	5	0	. 0
76-100	80	5	0	63	16	0
Total	100	100	100	100	100	100

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paid by the students. Seventy per cent of the student-teaching centers received no finances from the agricultural fees paid by the students.

An analysis of the data in Table V reveals pertinent evidence concerning the financing of reference and text materials. The schools and the Future Farmers of America chapter can be given credit for the financing of the larger portion of reference materials in the two types of centers.

Table VI compares the number of different magazines in the two types of centers. Although the table reveals no appreciable difference, there are some interesting indications. Table VI indicates that the student-teaching centers had a larger number of different magazines; therefore, a greater quantity of current information was made available to the high school student. One center indicated that there were no magazines in the department. This school was a student-teaching center. The school indicating the largest number of different magazines was a non-student-teaching center. The department had thirty various magazines available. A large per cent of the centers fell within a range of six to seventeen magazines.

Table VII is concerned with the methods of displaying magazines in the two types of centers. There was no noticeable contrast in the display methods in the two types of centers. One teacher who reported a different method of display used a "self made display case with storage."

It is interesting to note that in both types of centers a large per cent indicated placing magazines in cabinets or shelves. The method of placing magazines in a filing cabinet was not used by either type of center.

TABLE VI

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NUMBER OF DIFFERENT MAGAZINES THAT ARE AVAILABLE IN THE TWO TYPES OF CENTERS

Number of Different	Student-T Cent	-	Non-Student- Teaching Center		
Magazines Range	Number Indicating	Per Cent	Number Indicating	Per Cent	
0	1	5	0	0	
1–5	2	10	3	16	
6–11	4	2,0	8	42	
12-17	6	30	6	32	
18-23	4	20	1	5	
24-0ver	_3	_15	_1	5	
Total	20	100	19	100	

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TABLE VII

METHODS OF DISPLAYING MAGAZINES BY THE TYPE OF CENTER

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		-Teaching enter	Non-Student- Teaching Center		
Methods Used	Number	Per Cent	Number	Per Cent	
Displayed openly on walls or tables	7	35	8	42	
Placed in cabinets or shelves	11	55	11	58	
Placed in a filing cabinet	0	0	0	Q	
Other means	1	5	0	0	
No magazines to display	<u>_1</u>	5	_0	0	
Total	20	100	19	100	
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There was no distinct variation between the methods of displaying bulletins as reported by the two types of centers. In Table VIII it is interesting to note that both types of centers reported a high per cent of the bulletins were placed in cabinets or shelves. Second in importance was the use of filing cabinets for the display of bulletins.

The findings as presented in Table IX indicate that one hundred per cent of the student-teaching centers placed their books on shelves. In the non-student-teaching centers, ninety-five per cent of the books were placed on shelves. One school in this group reported using a cabinet to display the books.

Table X is concerned with the filing system used for filing unbound reference materials. This table indicates that sixty-five per cent of the student-teaching centers did not catalogue their unbound reference materials. There were different methods of filing unbound reference material; however, none used a catalogued system. Table X also indicates that sixty-three per cent of the non-student-teaching centers did not catalogue unbound reference materials.

These data presented in Table X indicate no significant difference between the two types of centers concerning their methods for filing unbound reference material.

Since this study is concerned with the availability of reference materials to the high school student enrolled in vocational agriculture, the author felt it important to investigate the procedure for allowing students to use reference materials after school hours. Table XI indicates no significant differences in the procedure of the two types of centers. The author was surprised to see the number of centers reporting that students were not allowed to use reference materials

TABLE VIII

	Student-Teaching Center		-	
Methods	Number	Per Cent	Number	Per Cent
Displayed on the wall or tables	3	15	3	16
Placed in cabinets or shelves	11	55	11	58
Placed in a filing cabinet	6	30	5	26
Other means	0	0	0	0
Total	20	100	19	100

METHODS OF DISPLAYING BULLETINS BY THE TYPE OF CENTER

TABLE IX

METHODS OF DISPLAYING BOOKS BY THE TYPE OF CENTER

	Student-Teaching Center		Non-Student- Teaching Center		
Methods	Number	Per Cent	Number	Per Cent	
Displayed on tables	0	0	0	0	
Placed on shelves	20	100	18	95	
Other means	_0	0	_1	5	
Total	20	100	19	100	

TABLE X

METHODS OF FILING UNBOUND REFERENCE MATERIALS BY THE TYPE OF CENTER

	Student-Teaching Center		Non-Student- Teaching Center	
Method	Number	Per Cent	Number	Per Cent
Placed in a file cabinet that is catalogued	5	25	6	32
Placed in a file cabinet that is not catalogues	3	15	3	16
Placed in shelves not catalogued	6	30	4	21
Placed in shelves that are catalogued	2	10	1	5
Placed in open area where items can be seen readily but uncatalogued	2	10	4	21
No system used	_2	_10	_1	5
Total	20	100	19	100

TABLE XI

PROCEDURE FOR ALLOWING STUDENTS TO USE REFERENCE MATERIAL AFTER SCHOOL HOURS

		-Teaching nter	Non-Student- Teaching Center	
Procedure	Number	Per Cent	Number	Per Cent
Students check books by signing a book card	15	75	14	74
Students take book at their own will	2	10	3	16
Students must check books from school librarian	0	0	0	0
Students are not allowed to use books after school,hours	_3	15	_2	_10
Total	20	100	19	100

after school hours.

A notable percentage of centers reported that students could take the books at their own will. This suggests a lack of systematic management of books.

It should be noted that no center indicated that reference material used after shcool had to be checked from the school librarian.

In analyzing these data presented in Table XII, it was found that the two types of centers did not differ greatly in indicating plans to purchase books in the coming school year. It is encouraging to note that in both the student-teaching centers and non-student-teaching centers only a small percentage reported no plans to purchase books during the school year of 1966 and 1967. The teacher in the nonstudent-teaching center did not plan to buy books because he felt that he had the basic books, and any new books would be too quickly outdated. The two teachers in the student-teaching centers made no comment on their reason for not planning to purchase books.

Evaluational Reference Materials

The author felt that it was important to find the teacher's own evaluation of the quality of reference and text books in his center. In Table XIII twenty per cent of the student-teaching centers indicated that their reference material and text books were completely adequate. The majority of the student-teaching centers indicated that their reference material and text books were adequate but could be improved.

More non-student-teaching centers reported an inadequate quality of reference and text books. There was a difference of twenty-seven

TABLE XII

		Teaching Iter	Non-Student- Teaching Center		
Response	Number	Per Cent	Number	Per Cent	
Yes	18	90 to a	18	95	
No	_2	10		5	
Total	20	100	19	100	

SCHOOLS INDICATING PLANS TO PURCHASE BOOKS IN THE SCHOOL YEAR OF 1966-67

TABLE XIII

TEACHER'S EVALUATION OF THE QUALITY OF TEXT AND REFERENCE BOOKS BY THE TYPE OF CENTER

		-Teaching nter	Non-Student- Teaching Center	
Evaluation	Number	Per Cent	Number	Per Cent
Completely adequate	4	20	1	5
Adequate but could be improved	11	55	8	42
Sufficient to meet the needs only	3	15	· 3	16
Inadequate	_2	_10	7	37
Total	20	100	19	100

TABLE XIV

	Student-Tea Cente:	-	Non-Student- Teaching Center	
Area	Number Indicating a Rank	Mean Rank	Number Indicating a Rank	Mean Rank ^a
General Feeding	7	4.0	5	2.0
Dairy	4	2.7	0	0
Beef	10	2.7	9	3.2
Swine	7	3.4	8	4.5
Poultry	3	4.3	2	4.5
Sheep	8	4.5	1	5.0
Farm Management	12	3.3	16	2.9
Soils	7	5.0	16	3.3
Field Crops	8	3.1	10	4.2
Pastures	11	4.0	13	4.9
Horticulture	9	3.1	6	3.8
Farm Mechanics	12	3.0	18	2.7
Agricultural Occupations	16	3.1	13	3.5

MEAN RANKING OF AREAS OF STUDY IN VOCATIONAL AGRICULTURE BY TYPE OF CENTER

^aA rating of 1 = area of greatest need; a rating of 6 = least need for reference material of the items ranked.

per cent in the student-teaching centers and the non-student-teaching centers giving a rating of inadequate text and reference materials.

The Chi square method of testing was used in Table XIV. On the questionnaire each teacher was asked to rank the six most important areas in which additional reference material was needed in his department. Since thirteen areas were included on the questionnaire, each teacher did not rank seven areas.

When considered individually, there was an interesting contrast in the ranking pattern for the two types of centers. The non-studentteaching centers ranked farm mechanics highest in need. This was contrasted by the student-teaching centers in that they ranked agricultural occupations highest in need.

When both rankings of the two types of centers were combined, the ranking was as follows: first, farm mechanics; second, agricultural occupations; third, farm management; fourth, pastures, fifth, soils; and sixth was beef. Although the ranking varied somewhat, the results showed no significant difference between the two types of centers.

It should be noted that the non-student-teaching centers did not rank dairy as one of the six areas where additional material was needed. For further information refer to Appendix I and J for frequency counts of the actual ranking of the areas by the teachers.

Table XV indicates that the areas of general feeding and farm mechanics have a high quality rating in both types of centers. After analyzing data presented in Table XV, it was evident that the rating of book quality in both types of centers was low in sheep, soils, field

TABLE XV

MEAN QUALITY RATING OF BOOKS AVAILABLE BY THE TYPE OF CENTER

	Student-Teaching Center Mean	Non-Student Teaching Center Mean	
Area	Number	Number	Difference
General Feeding	15.0	13.0	2.0
Dairy	4.8	1.3	3.5
Beef	6.9	8.6	1.7
Swine	3.8	5.8	2.0
Poultry	4.3	2.5	1.8
Sheep	3.7	1.9	1.8
Farm Management	5.6	1.8	3.8
Soils	3.9	2.5	1.4
Field Crops	1.9	0.74	1.2
Pastures	6.2	3.6	2.6
Horticulture	3.1	1.4	1.7
Farm Mechanics	17.3	11.1	6.2
Agricultural Occupation	s <u>2.1</u>	_1.9	0.2
Total	65.1	56.1	9.0

crops, horticulture, and agricultural occupations.

The total mean quality of the two types of centers was not significantly different. The data for this table was tested using a \underline{t} test.

In determining the information for Tables XVI and XVII, the teacher evaluated the quality and quantity of the text and reference material in his department. Tablex XVI and XVII are concerned with the accuracy of the teacher's perception of the quality and quantity of his text and reference materials in comparison to the quality rating assigned to his reference materials by the author. The total mean quantity of reference material was also compared.

It should be noted that more student-teaching centers rated their text and reference materials completely adequate than did the nonstudent-teaching centers. A large number of the teachers in Table XVII indicated that the quality was adequate but could be improved. After analyzing these data, we find that those teachers rating their text and reference materials as sufficient to meet the needs only had a higher mean quality rating and a larger quantity than those who rated their material as adequate but could be improved. This would suggest that some of the teachers do not have a clear concept as to the quality of their reference material.

Table XVIII indicated a notable difference in the quantity of material in the two types of centers. The difference in quantity was significant at the .02 per cent level. For further information concerning the testing, refer to the statistical table in Appendix K.

The main difference in the two types of centers tends to be in the areas of poultry, sheep, farm management, soils, and farm mechanics.

TABLE XVI

A COMPARISON OF THE TEACHER'S EVALUATION OF THE QUALITY AND QUANTITY OF TEXT AND REFERENCE BOOKS WITH THE STANDARD RATING DEVICE IN THE STUDENT-TEACHING CENTERS

Teacher's Evaluation	Number	Mean Total Quality	Mean Total Quantity
Completely adequate	4	136.0	303.5
Adequate but could be improved	11	, 68.3	181.0
Sufficient to meet needs only	3	80.0	214.7
Inadequate	2	41.0	167.5

TABLE XVII

A COMPARISON OF THE TEACHER'S EVALUATION OF THE QUALITY AND QUANTITY OF TEXT AND REFERENCE BOOKS WITH THE STANDARD RATING DEVICE IN THE NON-STUDENT-TEACHING CENTERS

Teacher's Evaluation	Number	Mean Total Quality	Mean Total Quantity
Completely adequate	1	39	237
Adequate but could be improved	8	59	175
Sufficient to meet needs only	3	65	109
Inadequate	7	49	83

TABLE XVIII

Student-Teaching Center Mean	Non-Student- <u>Teaching Center</u> Mean	
Number	Number	Difference
32.9	33.2	3.0
14.2	10.9	3.3
19.1	15.1	4.0
13.5	10.1	3.4
14.1	7.2	6.9
16.1	5.6	10,5
18.6	9.4	9.2
19.3	8.6	10.7
11.8	7.7	4.1
7.8	5.4	2.4
5.8	2.1	3.7
32.8	20.6	12,2
s <u>1.6</u>	1.6	0
207.6	137.5	70.1
	Mean Number 32.9 14.2 19.1 13.5 14.1 16.1 18.6 19.3 11.8 7.8 5.8 32.8 32.8 1.6	Mean Number Mean Number 32.9 33.2 14.2 10.9 19.1 15.1 13.5 10.1 14.1 7.2 16.1 5.6 18.6 9.4 19.3 8.6 11.8 7.7 7.8 5.4 5.8 2.1 32.8 20.6 s 1.6

TOTAL MEAN NUMBER OF TEXT AND REFERENCE BOOKS BY THE TYPE OF CENTER

The author felt that in order to give a good indication of the areas with sufficient textbooks per pupil, he must compare the mean number of copies per text to the mean class size. The \underline{t} test was used to test the significance of the mean number of copies per text. There was a definite difference at the .02 level between the two types of centers in the number of copies per text.

The data as presented in Tables XIX and XX indicate that both types of centers use only one text per area except in the area of general feeding. The mean number of texts in general feeding was more than two in both types of centers.

The student-teaching centers had a smaller number of copies per text than the largest mean class size in the following areas: field crops, pastures, horticulture, and agriculture occupations. The nonstudent-teaching centers had a smaller number of copies per text in all areas except general feeding and farm mechanics.

TABLE XIX

	Mean	Mean	Mean
	Class	Number of	Number of
Area	Size	Different Text	Copies Per Text
General Feeding	12	2.3	30.5
Dairy	12	0.8	11.3
Beef	12	1.3	15.7
Swine	12	0.8	11.3
Poultry	12	0.8	10.5
Sheep	12	1.2	14.0
Farm Management	8	1.3	14.9
Soils	12	1.3	15.8
Field Crops	12	0.8	9.0
Pastures	12	0.5	5.4
Horticulture	12	0.3	2.8
Farm Mechanics	12	1.9	29.1
Agricultural Occupations	8	0.1	1.1

MEAN NUMBER OF TEXTS COMPARED TO THE MEAN CLASS SIZE BY AREAS OF STUDY IN STUDENT-TEACHING CENTERS

TABLE XX

	<u>_</u>	Mean	Mean
		Number of	Number of
Area	Size	Different Text	<u>Copies Per Text</u>
General Feeding	12	2.5	29.5
Dairy	12	0.7	8.3
Beef	12	1.1	11.6
Swine	12	0.8	7.7
Poultry	12	0.5	6.5
Sheep	12	0.3	3.5
Farm Management	8	0.7	7.7
Soil	12	0.6	6.2
Field Crops	12	0.5	4.6
Pastures	12	0.4	3.9
Horticulture	12	0.1	0.7
Farm Mechanics	12	1.3	17.3
Agricultural Occupations	8	0.0	0.0

MEAN NUMBER OF TEXTS COMPARED TO THE MEAN CLASS SIZE BY AREAS OF STUDY IN NON-STUDENT-TEACHING CENTERS

CHAPTER IV

SUMMARY AND CONCLUSIONS

Summary

As previously stated, the primary purpose of this study was to determine, as accurately as feasible within the scope of the study, the availability of reference materials in student-teaching centers and non-student-teaching centers.

Information presented in this study was obtained from questionnaires. These questionnaires were completed and returned by teachers representative of twenty student-teaching centers and nineteen nonstudent-teaching centers in Oklahoma.

Tables included in this study consisted of comparisons of: age; total teaching experience and tenure in the present school system; methods of displaying magazines, bulletins, books; methods of financing text and reference materials; quantity measures and quality ratings of text and reference materials.

Based upon the findings of this study, it was conclusive that the quality of reference material in student-teaching centers was not superior to that of the non-student-teaching centers. However, it was evident that the student-teaching centers had a larger quantity of reference material.

Conclusions

Based upon an analysis of data presented in this study, certain conclusions can be presented concerning the availability of reference materials in the two types of centers. The following is presented as a summary of certain of these conclusions.

- As indicated in the comparison of the characteristics of the two types of centers, the teachers in the student-teaching centers have more years of teaching experience and a longer association with the present school than those in nonstudent-teaching centers.
- A comparison of the enrollment in the two types of centers indicates that the class size is much the same.
- 3. It is evident that a large portion of the schools do not receive an annual budget. However, an analysis shows that the shcools financed a major portion of the books. This suggests that funds are received directly for the purchase of books as the need arises rather than receiving an annual budget.
- It can be concluded that the majority of the vocational agriculture departments in Oklahoma have more than six magazines.
- 5. Almost one hundred per cent of the teachers surveyed indicated that they displayed their books on shelves. It can be concluded that this method is the most frequently used method of displaying books.
- 6. Upon comparing the quality rating given a teacher's reference materials to the teacher's evaluation of his reference

materials, it was found that the teachers in the non-studentteaching centers had a more accurate perception of their reference material quality and quantity than did the teachers in the student-teaching centers.

- 7. The filing of unbound reference material without catalogueing was found to be a practice in over sixty per cent of the two types of centers. This would lead to the conclusion that schools in both types of centers were lacking a standard filing system.
- 8. Most schools indicated plans to purchase additional books during the school year of 1966 and 1967. Hopsfully, they will improve the future quality and quantity of the books in these centers.
- 9. It can be concluded that additional reference material is needed in the two types of centers. The teacher's ranked the greatest need for reference material in the following areas: farm mechanics, farm management, agricultural occupations, and pastures. This finding agreed with the teacher's ranking except agricultural occupations was second in importance.
- 10. Analysis of data indicated the quality rating of reference material in the two types of centers was not significantly different. However, student-teaching centers had a larger quantity of books available to the students.

The author felt that sufficient information had been derived from this study to make certain recommendations. In summary are the following recommendations.

- Some departments had less than six magazines. This number seems inadequate to motivate student exploratory reading. More magazines should be purchased by these departments.
- 2. At the time of this study five schools did not allow students to check out books after school hours. It is recommended that these schools organize a procedure which would permit the use of books after school hours.
- 3. It is recommended that the two student-teaching centers reporting no filing system for their unbound reference materials organize an appropriate system. In addition to being beneficial to that department, it would also provide

better professional training for the student teachers.

Since providing useful training experience for beginning teachers is of vital importance, the author recommends further studies be conducted concerning the student-teaching programs. The author feels that this type of study would be valuable to those responsible for the training of future teachers.

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- 9. Hall Quest, Alfred L. <u>The Textbook</u>. New York: The Macmillan Company, 1920. pp. 1-13, 73-87.
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13. Waples, Douglas, and Tyler, Ralph W. "What People Want to Read About," Unpublished Doctor's thesis, University of Chicago, Chicago, 1931. p. 312.

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APPENDIX A

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OKLAHOMA STATE UNIVERSITY · STILLWATER

Department of Agricultural Education FRontier 2-6211, Ext. 444

74074

February 21, 1966

Dear

Enclosed you will find a questionnaire concerned with the reference books presently in your vocational agriculture department.

To secure information for this study I am asking you to fill out the enclosed questionnaire which was made as short as possible in order that it will not consume too much of your valuable time.

It is hoped that this study will aid present and prospective teachers of vocational agriculture by determining the areas of reference material that need improvement.

Your cooperation in filling out the questionnaire and your immediate response for its return will be greatly appreciated. Feel free in responding; individual responses will be kept confidential.

Sincerely,

Jemmie Kibby

Jimmie Kibby 115 Lowry Stillwater, Oklahoma

Robert R. Price

Robert R, Price Professor and Head Agricultural Education Department

APPENDIX B

115 Lowry Stillwater, Oklahoma March 4, 1966

Dear Mr.

Recently I mailed you a questionnaire which dealt with the reference material in your vocational agriculture department. I realize answering the questions will require about 30 to 40 minutes of your time. Perhaps you could ask a student to help. We feel this information will be important.

Your cooperation in filling out the questionnaire and your immediate response for its return will be greatly appreciated. Another questionnaire along with a self-addressed stamped envelope is enclosed for your convenience.

Please disregard this note if you have already returned the questionnaire prior to receiving this letter.

Sincerely,

Jimmie Kibby

Enclosure

APPENDIX C

QUESTIONNAIRE

	a a second	QUESTIO	NNAIRE		Return to: Jimmie Kibby 115 Lowry Stillwater, Okla.
School		-	. ·		
Instructor	· · · · · · · · · · · · · · · · · · ·	······································		_ Your a	ige
Total number	of years teac	hing Vocation	al Agricultur	e	
Total number	r of years teac	hing Vocation	al Agricultur	e at pre	sent school
	last five years onal Agricultur			total e	enrollment in
During the 1	last five years	what has bee	n the average	yearly	enrollment of:
2. Sop 3. Jur	eshmen phomores niors niors				
Do you combi	ne any of your	classes?	I	f yes, v	hich ones?
school What portion materia How do you s	district? n of the budget als such as books, mage	is used for ks and magazi agazines, and	annual purcha nes? other writte	se of wr % n refere	nce materials?
a. Pur	chased by the	school	Perc	entage	
b. Bou	ight by money r	aised by the	FFA Chapter	E	ercentage
c. Bou stu	ight with money idents	collected as Percen	fees from Vo tage	cational	Agriculture
d. Oth	er means (list))	· · · · · · · · · · · · · · · · · · ·	F	ercentage
	fferent magazin ment is		in your Voca	tional A	griculture
How are the	magazines disp	layed? (chec	k one)		
a. Dis	played openly o	on the wall o	r tables		
b. Pla	iced in cabinet	s or shelves_	· .	_	
c. Pla	iced in a filing	g cabinet			
d, Oth	er means (list))		, 	

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a. b.	your bulletins displayed? (Check one) Displayed on the wall or tables
b.	Displayed on the wall or tables
· .	
с.	Placed in cabinets or shelves
	Placed in a filing cabinet
d.	Other means (list)
How are y	your books displayed? (Check one)
a.	Displayed on tables
b.	Placed on shelves
c.	Other means (list)
(Check on	
а.	Completely adequate
ь.	Adequate but could be improved
с.	Sufficient to meet the needs only
d.	Inadequate
e.	No opinion
scho	edure is used to allow students to use reference material after ol hours? (Check one) Students check books by signing a book card
Ъ.	Students take books at their own will
с.	Students must check out books from school librarian
d.	Students are not allowed to use books after school hours
e.	Other means (list)
Do you pl	an to buy books during the next school year?
	six most important areas where you need additional books. (Rank rding to need. Example: 1-most needed; 2-next one most needed; etc.)
b. c. d. e. f.	General Feeding h. Soils Dairy i. Field Crops Beef j. Pastures Swine k. Horticulture Poultry 1. Farm Mechanics Sheep m. Agriculture Occupations

Describe your filing system for unbound written reference material that is available for students' use. (Check one)

- a. Placed in a file cabinet that is cataloged_____
- b. Placed in a file cabinet that is not cataloged_
- c. Placed in shelves not cataloged
- d. Placed in shelves that are cataloged_____
- e. Placed in open area where items can be seen readily but uncataloged
- f. Placed in open area where items can be seen readily but cataloged
- g. No system is used_____
- On the following pages is a list of books. If you have a copy or copies of a book, indicate the number; if not, leave the space blank.

I. General Feeding

Number of Copies

		-
Coffey & Jackson	1949	
Morrison	1948	
Morrison	1958	
Peters & Deyre	1946	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
Thompson	1950	
Ensminger	1959	
Seiden & Pfander	1957	
Maynard & Loosi	1956	
-		· · · · · · · · · · · · · · · · · · ·
Cassard	1956	
e		· · · · ·
Gilbert	1957	
	Morrison Morrison Peters & Deyre Thompson Ensminger Seiden & Pfander Maynard & Locsi Cassard <u>e</u>	Morrison1948Morrison1958Peters & Deyre1946Thompson1950Ensminger1959Seiden & Pfander1957Maynard & Loosi1956Cassard1956

II. Dairy

Dairy Farming in the South	Thomas, Reaves, & Pagram	1944
Dairy Cattle Husbandry	Lederle Lab.	1952
Dairy Cattle Feeding &	Henderson, Lasson &	
Management	Putney	1947
Dairy Science	Peterson	1939
Dairy Farming	Peterson & Field	1953
Dairy Production	Diggins & Bundy	1955
Dairy Cattle & Milk Production	Eckles & Anthony	1956
Dairy Manufacturing Processes	Fouts & Freeman	1948
Successful Dairying	Knodt	1954

11.	adding (Continued)			Number o. Copies
	<u>Seveloping a Profitable Dairy</u>			
	Herd	Moore & Gildow	1953	
	Judging Dairy Cattle	Harrison, Strohmeyer, Jr & Carpenter, Jr.	1940	
	Milk Production & Processing		1960	المحاربين ويستأهل مسمعه مجرعها
		Fraser	1949	·
	Others (list)			
	D			
III.	Beef		•	
	Beef Production in The South	Williams	1944	
	Seef Production in The South	Williams	1950	
	Beef Cattle	Snapp	1948	
	Beef Cattle	Snapp	1952	
	Elements of Livestock Judging	Smith	1946	
	Beef Cattle Science	Ensminger	1960	· · ·
	Beef Production	Diggins & Bundy	1956	
	Cattle and Men	Asdell	1955	
	Selecting, Fitting, Showing	-		-
	Beef Cattle	Nordby & Lattig	1956	
	Approved Practices in Beef	,		
	Production	Juergenson & Mortenson	1958	
	Others (list)			

IV. Swine

Approved Practices in Swine			
Production	Cook	1948	
Svine Enterprise	Anderson	1945	
Swine Production in the South	Southwell, Wheeler, &		
	Duncan	1950	
Swine Science	Ensminger	1961	
Swine Management	Anderson	1950	
Swine Management	Anderson	1957	
Swine Production	Carrol & Krider	1950	
Raising Swine	Doyoe & Krider	1952	
Hog Profits for Farmers	McMillen	1952	
Approved Practices in Swine			
Production	Cook & Juergenson	1959	
Selecting, Fitting, Showing	-		
Swine	Nordby & Lattig	1956	
Southern Hog Growing	Scarborough	1958	
Others (list)	-		

V. Poultry

Standard of Perfection	American Poultry Assr	. 1948
Poultry Production in the	South Chestnut & King	1948
Farm Poultry Production	Card & Henderson	1948

V.	Poultry (Continued)			Number of Copies
	Poultry Farming	Jull	1945	
	Farm Poultry Production	Wilson & Card	1956	
	Practical Poultry Management Approved Practices in Poultry	Rice & Botsford	1949	
	Production	Juergenson & Cook	1955	
· · ·	Poultry Production	Card	1961	<u> </u>
	Profitable Poultry Production	Parnell	1957	,
	Your Future in Poultry Farming	Goodman & Tudor	1960	
	Scientific Feeding of Chickens	Titus	1955	
	Poultry Production	Bundy & Diggins	1960	
	Livestock & Poultry Production Others (list)		1954	

VI. Sheep

Horlacker & Hammond	1942
Horlacker & Hammond	1950
Davis & Smith	1928
Roberts, Angerer, Mose	s,
& Gregory	1950
Horlacker	1937
Diggins & Bundy	1958
Juergenson	1953
Kammlade & Kammlade	1955
Ensminger	1955
McKinney	1959
Collins	1956
	Horlacker & Hammond Davis & Smith Roberts, Angerer, Mose & Gregory Horlacker Diggins & Bundy Juergenson Kammlade & Kammlade Ensminger McKinney

VII. Farm Management

Farm Business Management	Robertson & Woods	1951	
<u>Elements of Farm Management</u>	Hopkins	1947	
Elements of Farm Management	Hopkins & Murray	1953	
Farm Management and Marketing	Overton & Robertson	1937	
Farm Management in the South	Hunt	1942	
Records For Farm Management	Hopkins	1958	
Profitable Farm Management	Hamilton	1956	
Managing the Farm Business	Beneke	1955	
The Marketing of Livestock and			
Meat.	Fowler	1957	
Farm Management	Robertson	1958	
Approved Practices in Farm			· · · · · · · · · · · · · · · · · · ·
Management	Hall & Mortenson	1961	
Starting and Managing a Farm	Hempson	1948	
Farm Records and Accounting	Hopkins & Heady	1955	
Others (list)			

VIII. Soils

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	· · · · · · · · · · · · · · · · · · ·		
Productive Soils	Weir	1946	
Using and Managing Soils	Gustafson	1948	, Angeler of the state of the
Soil Science	Weir	1949	· · · · · · · · · · · · · · · · · · ·
Elements of Soil Conservation	Bennett	1947	
Our Soils and Their Management	Donahue	1955	
Soils: Use and Improvement.	Stellings	1957	
Managing Southern Soils	Vanderford	1957	
Soils and Soil Fertility	Thompson	1 95 2	
Conserving Soil	Butler	1955	
Farm Soils	Worthen & Aldrich	1956	
Hunger Signs in Crops	Bear	1949	
Nature and Properties of Soils	Buckman & Brady	1960	
Land Judging	Roberts	1955	
Soil Plant Relationships	Black	1957	
Others (list)			

IX. Field Crops

Southern Field Crop Management	Fergus, Hammond, Rogers	1949
Southern Field Crop Enterprise	Davis	1936
Crop Production	Hughes & Henson	1930
Production of Field Crops	Hulchenson, Wolf, & Kipps	1948
Field Crops	Fergus	1958
Crop Production: Principles	-	
and Practices	Ahlgren	1959
Crop Production in the South	Klingman	1957
Southern Crops	Chapman & Thomas	1947
Judging Crop Quality	Dungan & Bolin	1950
Production of Field Crops	Wolfe & Kipps	1959
Farm Crops: Judging, Identi-	· · · · · · · · · · · · · · · · · · ·	
fication and Grading	Staten & Jones	1951
Growing Field Crops	Dungan & Ross	1957
Fertilizers and Crop Production	n Van Slyke	1932
Others (list)		

X. Pastures

The Pasture Book	Thompson	1952	
The Range and Pasture Book	Donahue	1956	
Pastures for the South	King	1959	
Growing Pasture in the South	Combs	1936	
Pasture of the South	King	1950	
Pasture Production & Managemen	t Lush	1952	
Forage and Pasture Crops	Wheeler	1950	
Forages	Hughes, Heath, Metcalfe	1961	
Grassland Farming	Serviss & Ahlgren	1955	a
Pastures	Lancaster, James,		
· · · · ·	Bailey, & Harris	1949	
Approved Practices in Forage			••
and Feed Production	McVickar	1956	
Others (list)	·		

XI.	Horticulture			Number of Copies
	Practical Horticulture	Shoemaker	1955	
	Raising Vegetables	Ware	1959	
	Vegetable Production and		~///	
	Marketing	Work	1945	
	Fruit Science	Childers	1949	
	Southern Horticulture	Stuckey	1944	
	Floriculture	Laurie & Ries	1950	
	General Horticulture	Shoemaker	1952	
	Commercial Flower Forcing	Laurie, Kiplinger, & Nelson		<u></u>
	New to Londonen Veum Cuounda		1958	
	How to Landscape Your Grounds	Johnson	1950	
	The Lawn Book	Schery	1961	
	Principles of Horticulture	Denisen Mahlatala 6 Naham	1958	
	Plant Propagation	Mahlstede & Haber	1957	
	Greenhouses Their Construction		1016	,
	and Equipment	Wright	1946	
	Approved Practices in Beautify:		1050	
	the Home Grounds	Hoover	1959	
	Plant Propagation Principles	Washington C. Washington	1050	
	and Practices	Hartmann & Kester	1959	
	Others (list)			
דדצ	Farm Mechanics		•	
UTT.	Faim Rechanges			
	Shopwork On The Farm	Jones	1955	
	Farmers Shop Book	Roehl	1936	
	Hand Woodworking	Hunt	1950	
	General Shop for Everyone	Newkirk	1959	
	Modern Farm Shop	Ross	1954	•••••
	Farm Mechanics Text & Handbook		1959	
•	Modern Farm Buildings	Ashby	1959	
	Farm Tractor Maintenance	Brown	1958	
	Farm Welding	Parker	1958	
	Farm Electrification	Brown	1956	
	Electrical Work	Nowak	1949	
	Farm Electricity	Kitts & Nabben	1949	
	Concrete Construction	Siegele	1955	
	General Shop Handbook	Willoughby	1958	
	Others (list)	wittonguby	1950	
	Veners (rist)			
111.	Agricultural Occupations			
	Careers in Agriculture Busines	8	•	
	and Industry	Stone	1965	N.
	Cooperative Occupational			
			· · · · · · ·	

THANK YOU FOR YOUR COOPERATION

Hover

Wayant, Hoover, & McClay 1965

Mason & Haines

1965

1962

Handbook of Agriculture Occu-

Introduction to Agriculture Business and Industry Others (list)

XIII

Education

pations

APPENDIX D

STATE ADOPTED BOOKS FOR VOCATIONAL AGRICULTURE

Title - Author - Publisher

FARM MANAGEMENT

Records for Farm Management, 1958 Copr., Hopkins, et al -Prentice-Hall, Inc.

Profitable Farm Management, 1956 Copr., Hamilton, et al -Prentice-Hall, Inc.

Managing the Farm Business, 1955 Copr., Beneke - John Wiley and Sons.

The Marketing of Livestock and Meat, 1957 Copr., Fowler -The Interstate Printers and Publishers.

Farm Management, 1958 Copr., Robertson - J. B. Lippincott Co.

SOILS MANAGEMENT

Soils: Use and Improvement, 1957 Copr., Stallings - Prentice-Hall, Inc.

Managing Southern Soils, 1957 Copr., Vanderford - John Wiley and Sons.

Our Soils and Their Management, 1955 Copr., Donahue - The Interstate Printers and Publishers.

ANIMAL NUTRITION

Sheep Production, 1958 Copr., Diggins, et al - Prentice-Hall, Inc.

Dairy Production, 1955 Copr., Diggins, et al - Prentice-Hall, Inc.

Feeds and Feeding, Abridged, 1958 Copr., Morrison - The Interstate Printers and Publishers.

CROPS AND PASTURES

The Range and Pasture Book, 1956 Copr., Donahye, et al -Prentice-Hall, Inc.

Crop Production: Principles and Practices, 2nd Ed., 1959 Copr., Ahlgren, et al - Prentice-Hall, Inc.

Crop Production in the South, 1957 Copr., Klingman - John Wiley and Sons.

Pastures For the South, 1959 Copr., King - The Interstate Printers and Publishers.

Field Crops (Including Southern Field Crops), 1958 Copr., Fergus, et al - J. B. Lippincott Co.

STATE ADOPTED BOOKS FOR VOCATIONAL AGRICULTURE CONTINUED

FRUITS AND VEGETABLES

Practical Horticulture, 1955 Copr., Shoemaker, et al - John Wiley and Sons.

Raising Vegetables, 1959 Copr., Ware, et al - The Interstate Printers and Publishers.

FARM SHOP WORK

General Shop for Everyone, Rev., 1959 Copr., Newkirk - D. C. Heath and Co.

Modern Farm Shop, Book 1, 1954 Copr., Ross, et al - The Steck Co. Modern Farm Buildings, 1959 Copr., Ashby, et al - Prentice-Hall,

Inc.

Farm Mechanics Text and Handbook, 1959 Copr., Cook, et al - The Interstate Printers and Publishers.

Farm Tractor Maintenance, 1958 Copr., Brown, et al - The Interstate Printers and Publishers.

SELECTION, CARE AND MANAGEMENT OF LIVESTOCK AND POULTRY

Beef Production, 1956 Copr., Diggins - Prentice-Hall, Inc.

- Livestock and Poultry Production, 1954 Copr., Bundy Prentice-Hall, Inc.
- Profitable Poultry Production, 1957 Copr., Parnell John Wiley and Sons.

The Stockman's Handbook, 1959 Copr., Ensminger - The Interstate Printers and Publishers.

Swine Management, 1957 Copr., Anderson - J. B. Lippincott Co.

APPENDIX E

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A STANDARD LIST OF BOOKS THAT THE VOCATIONAL AGRICULTURE SUPERVISORS FEEL SHOULD BE IN EVERY DEPARTMENT IN OKLAHOMA

I. General Feeding

Feeds and Feeding	Morrison	1958		
The Stockman's Har	ndbook Ensn	ninger 1	959	
Approved Practice	in Feeds and	Feeding	Cassard	1956
Mineral Nutrition	and The Balar	nce of Life	Gilbert	1957

II. Dairy

Dairy ProductionDiggins and Bundy1955Dairy Cattle and Milk ProductionEckles and Anthony1956Successful DairyingKnot1954Developing A Profitable Dairy HerdMore and Gildow1953

III. Beef

Beef Cattle ScienceEnsminger1960Beef ProductionDiggins and Bundy1956Selecting, Fitting, Showing Beef CattleNordby and Lattig1956Jurgenson andApproved Practices in Beef ProductionJurgenson andMortenson1958

IV. Swine

Swine Science Ensminger	r 1961		
Swine Management Anders	son 1957		
Selecting, Fitting, Showing	ng Swine No	ordby and	Lattig 1956

V. Poultry

Standard of PerfectionAmerican Poultry Association1948Poultry ProductionCard1961Your Future in Poultry FarmingGoodman and Tudor1960Poultry ProductionDiggins and Bundy1960

VI. Sheep

SheepHorlacker and Hammond1950SheepProductionDiggins and Bundy1958TheSheepBookMcKinney1959

VII. Farm Management

Records For Farm Management	Hopkins	1958	
Profitable Farm Management	Hamilton	1956	
Approved Practices In Farm M	lanagement	Hall and	Mortenson
1961			

VIII. Soils

Our Soils and Their Management Donahue 1955 Soils: Use and Improvement Stallings 1957 Soils and Soil Fertility Thompson 1952 Soil Plant Relationships Black 1957

IX. Field Crops Ahlgren 1959 Crop Production: Principles and Practices Production of Field Crops Wolfe and Kipps 1959 Growing Field Crops Dungan and Ross 1957 X. Pastures The Pasture Book Thompson 1952 Pastures For The South King 1959 Hughes, Heath, and Metcalfe Forages 1961 Grassland Farming Serviss and Ahlgren 1955 XI. Horticulture Practical Horticulture Shoemaker 1955 Floriculture Laurie and Ries 1950 Schery 1961 The Lawn Book Principles of Horticulture Denisen 1958 Plant Propagation Mahlstede and Haber 1957 Approved Practices In Beautifying the Home Grounds Hoover 1959 XII. Farm Mechanics Shopwork On The Farm Jones 1955

General Shop For EveryoneNewkirk1959Farm Mechanics Text and HandbookCook1959Farm Tractor MaintenanceBrown1958Farm WeldingParker1958Farm ElectricityKitts and Nabben1960Concrete ConstructionSiegele1955General Shop HandbookWilloughby1958

XIII. Agricultural Occupations

Careers In Agriculture Business and IndustryStone1965Cooperative Occupational EducationMason and Haines1965Handbook of Agriculture OccupationsHover1962Introduction to Agriculture Business and IndustryWayant,Hoover, and McClay1965

APPENDIX F

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Age	State Adopted List	District Supervisors List	Combined List
1960-up	3	6	9
1955-59	2	5	8
1954-down	1	4	7

THE METHOD OF SCORING THE QUALITY OF BOOKS IN THE CENTERS

APPENDIX G

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Post Office	Zip Code	Name of School	Name of Teacher
Adair	74330	Adata S.D. 2	James I. Boston
Altus	73521	Adair, S.D. 2 Altus S.D. 18	W. Kent Metcalf
Beaver	73932	Beaver S.D. 22	
	73639		James H. Simpson
Custer City Duncan	73533	Custer City S.D. 1 Duncan S.D. 1	Verlin Hart
			Jack E. Stone
Erick	73645	Erick S.D. 51	Ronald Reeder
Howe	74940	Howe S.D. 67	Ross Stivers
Lindsay	73052	Lindsay S.D. 9	Royce Foley
Marlow	73055	Marlow S.D. 3	Ernest Muncrief
Muskogee	74401	Central High S.D. 20	Gene Beach and Wendell Fenton
Owasso	74055	Owasso S.D. 11	Charles Boyd
Ponca City	74601	Ponća City S.D. 71	Eugene DeWitt
Pond Creek	73766	Pond Creek S.D. 90	Keith Hoar
Ramona	74061	Ramona S.D. 16	William Cavin
Roosevelt	73564	Roosevelt S.D. 7	Dale Bynum
Sayre	73662	Sayre S.D. 31	Henry Heise
Shattuck	73858	Shattuck S.D. 42	Willard Bradley
Stuart	74570	Stuart S.D. 54	Harvey Clagg
Washington	73093	Washington S.D. 5	Clyde Ward
Watonga	73772	Watonga S.D. 42	Joe Legako

STUDENT-TEACHER TRAINING CENTERS RESPONDING TO THE QUESTIONNAIRE

APPENDIX H

Post Office	Zip Code	Name of School	Name of Teacher
Arapaho	73620	Arapaho S.D. 5	Garland Howell
Bokoshe	74930	Bokoshe S.D. 26	Clay Collins
Buffalo	73834	Buffalo S.D. 4	Jesste L. Waits
Coyle	73027	Coyle S.D. 4	Bennie Barnes
Eldorado	73537	Eldorado S.D. 25	C. G. McMindes
Elgin	73538	Elgin S.D. 16	John D. Jones
Haworth	74740	Haworth S.D. 6	Haskell G. Pate
Hennessey	73742	Hennessey S.D. 16	Clifton Baker
Hooker	73945	Hooker S.D. 23	Jimmy Getz
Lenapah	74042	Lenapah S.D. 1	Bill R. Kimbrell
Locust Grove	74352	Locust Grove S.D. 17	W. A. Hesser
Okeene	73763	Okeene S.D. 9	W. D. Sumner
Ringling	73456	Ringling S.D. 14	Raymond E. Smith
Sterling	73567	Sterling S.D. 3	Curtis Jeffreys
Talihina Rt. 2	74571	Buffalo Valley S.D. 3	LeRoy Curtis
Temple	73568	Temple S.D. 101	Douglas Morris
Vian	74962	Vian S.D. 2	Ronnie Leflore
Wagoner	74467	Wagoner S.D. 19	Rance Robinson
Wilson	73463	Wilson S.D. 43	James C. Guess

NON-STUDENT-TEACHING CENTERS RESPONDING TO THE QUESTIONNAIRE

APPENDIX I

RANKING OF AREAS ACCORDING TO NEEDS AS REPORTED BY STUDENT-TEACHING CENTERS

Agricultural Scolfactons		Ŝ	ŝ	1	2	2	ŝ
Fагт Месћаліся		4	1	ę	1	1	2
Horticulture		1	°.	2	- 1	1	н
Rastures		. 0	0	4	2	1	ε
Field Crops		0	1	S	2	0	0
Areas Soils eas	achers	0	0	1	1	2	m
Fагт Мапаgетепс	Number of Teachers	ę	4	0	ŝ	ŝ	1
dəəys	Numbe	0	0	2	Г	4	1
Poultry		0	0	0	2	г	0
əniw2		н	2	L I	Ч	0	7
₽eef		'n	ς	Ч	г	г	1
Dairy		2	0	0	Ч	г	0
Гетега 8пірээЧ		0	<u>n</u>	0	0	2	5
	Rank	Ъ.	2	ς	4	ŝ	9

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APPENDIX J

	General Feeding	Dairy	Beef	Swine	Poultry	Sheep	Farm Management	Areas soils	Field Crops	Pastures	Horticulture	Farm Mechanics	Agricultural Occupations
Rank							Number o	f Teac	hers				
1	3	0	2	1	0	0	6	2	0	0	0	4	1
2	1	0	3	0	0	0	2	3	0	0	1	0	3
3	0	0	0	1	1	0	3	4	2	0	3	12	3
4	0	0	0	1	0	0	0	4	5	5	0	1	3
5 ·	1	0	3	2	0	1	2	2	2	4	0	1	1
6	0	0	1	3	. 1	0	3	1	1	4	2	0	2

RANKING OF AREAS ACCORDING TO NEEDS AS REPORTED BY NON-STUDENT-TEACHING CENTERS

Number of Responses	٤ x	X	<u>ک</u> x ²
20	4018	207.6	1,012,344
19	2628	137.5	453,714
		and the second	

STATISTICAL TABLE EXPLAINING THE METHOD OF DETERMINING THE SIGNIFICANCE IN QUANTITY OF BOOKS IN TABLE XIX

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C			205128 (20)(19)	+	<u>90221</u> (19)(18)		2.56	

Degrees of Freedom = 19

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(t) value for 19 degrees freedom at .02 level = 2.53

VITA

Jimmie Ray Kibby

Candidate for the Degree of

Master of Science

Thesis: A STUDY OF THE AVAILABILITY OF REFERENCE MATERIALS IN OKLAHOMA STUDENT-TEACHING CENTERS AND NON-STUDENT-TEACHING CENTERS

Major Field: Agricultural Education

Biographical:

- Personal Data: Born at Holdenville, Oklahoma, March 1, 1943, the son of Roy and Dorthy Kibby.
- Education: Attended grade school at Diamond grade school in Holdenville, Oklahoma; graduated from Holdenville High School in 1961; received the Bachelor of Science degree from Oklahoma State University, with a major in Agricultural Education in May, 1965; completing requirements for the Master of Science degree in May, 1966.

Member of Alpha Tau Alpha; Oklahoma State Collegiate Future Farmers of America and Free Will Baptist Church, Stillwater, Oklahoma.