

May 15, 1957

To the Graduate Council:

I am submitting herewith a thesis written by Bernas Sharp entitled "Publications and Information Aids Used By Animal Husbandry Departments." I recommend that it be accepted for nine quarter hours of credit in partial fulfillment of the requirements for the degree of Master of Science, with a major in Animal Husbandry.

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PUBLICATIONS AND INFORMATION AIDS USED BY
ANIMAL HUSBANDRY DEPARTMENTS

A THESIS

Submitted to
The Graduate Council
of
The University of Tennessee
in
Partial Fulfillment of the Requirements
for the degree of
Master of Science

by

Bernas Sharp

June 1957

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ACKNOWLEDGMENT

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This study was made possible by the cooperation of many animal husbandry departmental heads and agricultural editors of land-grant colleges and universities in the United States. The writer wishes to express her sincere thanks to all who assisted in the progress of the study.

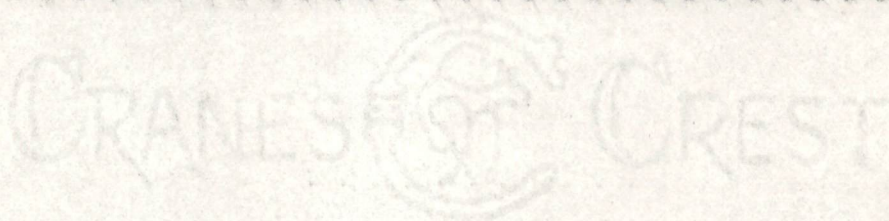
Appreciation is expressed to Mrs. Jane Winter and Dr. O. Glen Hall for their suggestions in the preparation of this thesis.

The writer wishes to thank Mr. Fletcher Sweet and Mr. Almon J. Sims for their assistance in gathering and suggesting review material.

The author extends special acknowledgment to the help provided her by the members of her thesis committee: Dr. Charles S. Hobbs, Dr. Harold J. Smith and Prof. John M. Lain of the University of Tennessee.

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CHAPTER I

INTRODUCTION

The establishment of the 48 land-grant colleges in the United States marked the beginning of scientific education in agriculture. Farm people look to these colleges and universities for scientific facts and guidance in the business of making a living. Through the resident instruction offered by the agricultural land-grant colleges, the student can receive first hand information on the latest developments in the scientific era of agriculture. However, the need for extension education for farm families was realized in the early 1900's since relatively few farmers actively engaged in farming attend college.

The agricultural extension service and the agricultural experiment station found it necessary to devise a suitable method of getting the available information to the county agents, farmers, research workers and others as rapidly as possible. One method of solving the problem was through the use of printed and mimeographed material from the departments of the agricultural land-grant colleges.

The purpose of this investigation was to study the number and series of publications used by land-grant college and university¹ animal husbandry departments in the United States. In developing this study, an attempt was made to obtain information from all the land-grant animal husbandry

¹The term land-grant colleges and universities as used in this study refers to agricultural land-grant colleges and universities.

departments and the land-grant agricultural information editors of the United States. Consideration was also given to data available at the University of Tennessee Agricultural Library on publication materials from 20 land-grant agricultural colleges and universities.

The objectives as set forth were to investigate:

1. The variety of printed or mimeographed materials used in distributing information by the animal husbandry departments throughout the United States.
2. The relationship of the printed or mimeographed materials used during the periods 1940-1950 and 1950-1957 by 20 selected animal husbandry departments.
3. The types of material used by the animal husbandry departments which appeared to be most effective on the basis of requests in distributing information.
4. The relationship between the animal husbandry departments and other agricultural departments within state supported colleges in the United States according to printed or mimeographed materials used.

CHAPTER II

REVIEW OF LITERATURE

Reference material cited in the Tennessee Main and Agricultural Libraries and the Agricultural Information Office contained no information directly related to the subject being studied.

However, Beckman et al. (1946) pointed out that the agricultural college, extension staff, or experiment station worker will find that an important part of such an occupation is the preparation of bulletins, circulars, and publicity material. They recommended that after a piece of research work has been done or a field survey completed, a suitable publication must be prepared setting forth the results.

The thirteen southern states and Puerto Rico (1956), in a survey of the agricultural experiment stations and extension services publications procedure, reported an explanation of the publication series listed by the states. The explanations as reported follow:

Extension Service

Publications:

The publications series listed by Mississippi and Louisiana include those publications which formerly were: bulletins, circulars, and leaflets. Louisiana's also includes annual reports and record books. Tennessee includes only those publications which normally would be bulletins.

Bulletins:

Most states listing bulletins as a series indicate that this series is more formal or more permanent in nature than material published in circulars or leaflets.

Circulars:

The circular series for most states is a 6 x 9² how-to-do-it or general information type publication. Some states include 4 x 9 publications in this group. Alabama and Florida include both 6 x 9 and 4 x 9.

6 x 9 Format

Alabama
Florida
North Carolina
Oklahoma
Puerto Rico
South Carolina

4 x 9 Format

Alabama
Florida
Georgia
Virginia

Annual Reports:

Only about half of the states issue annual reports, as such. Some of the others issue an annual report type of publication which is issued every 4 or 5 years. Tennessee, Virginia, and Puerto Rico follow this system. The North Carolina annual report includes extension, experiment station, and resident instruction. The Texas A & M College System publishes an annual report with separate sections devoted to extension, research, and its seven other parts; but this report is not available for general distribution. Alabama and Georgia do not publish either type of report mentioned.

Leaflets:

Leaflets, as circulars, vary in format between states, as follows:

6 x 9

North Carolina
Puerto Rico
Tennessee

4 x 9

Kentucky
Oklahoma
Texas

8½ x 11

Virginia
(multilith of
typewriter copy)

Periodicals:

Tennessee and Texas each publish a periodical jointly with the

²Dimensions of formats appearing in this chapter are in inches.

Experiment Station. The Tennessee publication is 8½ x 11 and published quarterly. Texas uses the same format but publishes bimonthly. Two or more periodicals are published by Alabama, Mississippi, North Carolina, Oklahoma, Tennessee, and Virginia. This latter group of periodicals are mostly publications containing news story type articles aimed at a specific group.

Miscellaneous Publications:

Most states using the miscellaneous series indicate that it includes those publications serving a temporary or special need, usually with a limited distribution.

4-H Series:

The 4-H series is what the name implies - - publications for 4-H Club members. Most states using this series include record books, etc. States not having this series usually place 4-H publications in the circular or leaflet series.

Record Books:

Record books are carried under a separate series by Georgia and North Carolina.

Extension Forms:

Extension forms is a series listed by Mississippi and Tennessee. Statements for the purpose of this series indicate that extension forms and record books could be grouped under one head.

Folders:

Folders listed by Puerto Rico and North Carolina are similar, in content and format, to the leaflet series published by other states.

Circular Letters:

Circular letters contain material prepared by subject-matter specialists, primarily for mailing to Extension workers.

Experiment Station

Bulletins:

Six states list technical bulletins as a separate series. Some states indicate that technical and non-technical bulletins are

issued under the same series. As one editor suggests, the degree of technicality depends upon the nature of the study.

Circulars:

The purposes given for the circular series vary widely. Alabama reports that a circular is used to report research still in progress, results of which are significant and need to be released. Kentucky says that circulars are used to give "how-to-do-it" and general information to farm people (in the same numbered series with extension circulars but are a bit more technical.) Louisiana says that circulars give up-to-date information, such as new recommendations, developed through research, for which there is an immediate need. They do not include statements of experimental methods or procedures. Mississippi indicates that circulars are to make available, in popular form, information of seasonal or temporary value. Oklahoma reports that circulars are not reports of research but are reports of general information prepared by members of the station staff.

Periodicals:

All states except Georgia, Louisiana, Oklahoma, and Virginia reported a periodical series. In most cases, the periodical is quarterly and is printed on slick stock, $8\frac{1}{2}$ x 11 inches in size. The Tennessee and Texas periodicals are published jointly with the extension (quarterly by Tennessee; bimonthly by Texas.) The Mississippi periodical is monthly in tabloid newspaper form.

Progress Reports:

Most progress reports are confined to reporting the research progress of one project for a single season or one phase of work. The Georgia "Progress Report" is a popularized report of achievement and progress made by the Georgia Experiment Stations over a period of years.

Miscellaneous Publications:

Oklahoma and Texas report a miscellaneous publication series. Each state reports a different purpose for this series. Texas defines miscellaneous publications as covering narrower aspects of a subject-matter field than bulletins. They usually have less original writing, will be less formal in outline and may be on only one "how-to-do-it" phase of a broad subject. Oklahoma defines miscellaneous publications as reports of research published in a non-standard format (those other than 6 x 9.) North Carolina does not list a specific publication in the series. Instead they

List a series called "miscellaneous" which includes articles for popular farm magazines and newspapers. They also include in this group mimeographed sheets prepared by specialists.

Mimeograph Series:

Five states report a mimeograph series. Explanations indicate that this series is maintained to obtain quick publications of research results having timeliness, usually one year's results. South Carolina's explanation of series indicates that it may more correctly fall in the departmental series.

Leaflet:

A leaflet series was reported by Alabama, Georgia, and Texas. Definitions indicate that this series is maintained for short reports of a single phase of research. Texas leaflets are used to announce new crop varieties and hybrids.

Press Bulletins:

Press bulletins are reported by Florida and Georgia. (Florida has recently discontinued the series). Explanations indicate that these are brief items of popular interest.

Departmental Series:

Louisiana and North Carolina report a departmental series. The explanations given on this series indicate that it may be comparable to progress reports issued by other states. North Carolina further explained that it may be a final report on small projects or recommendations of interest to a small group.

Research Briefs:

Research briefs are published by Georgia and Oklahoma. Both publications contain several brief items of current research. Both are bimonthly periodicals. However, they are classified separately, since they seem "out of character" with periodicals from other states. Georgia Ag-Research Briefs is a four-page, 8½ x 11 printed publication. Cover is 2 color. Items range in length from eight to ten lines to one complete column. Oklahoma's Farm Research Flashes has a printed, 2 color cover with illustration. Inside is multilith of typewriter copy. Items average 4 to 5 lines each. The audience is county agents, vo-ag teachers to keep them informed of research progress and newspaper, radio, TV and magazines as a source of story and program ideas.

CHAPTER III

METHOD OF PROCEDURE AND SOURCES OF DATA

Library

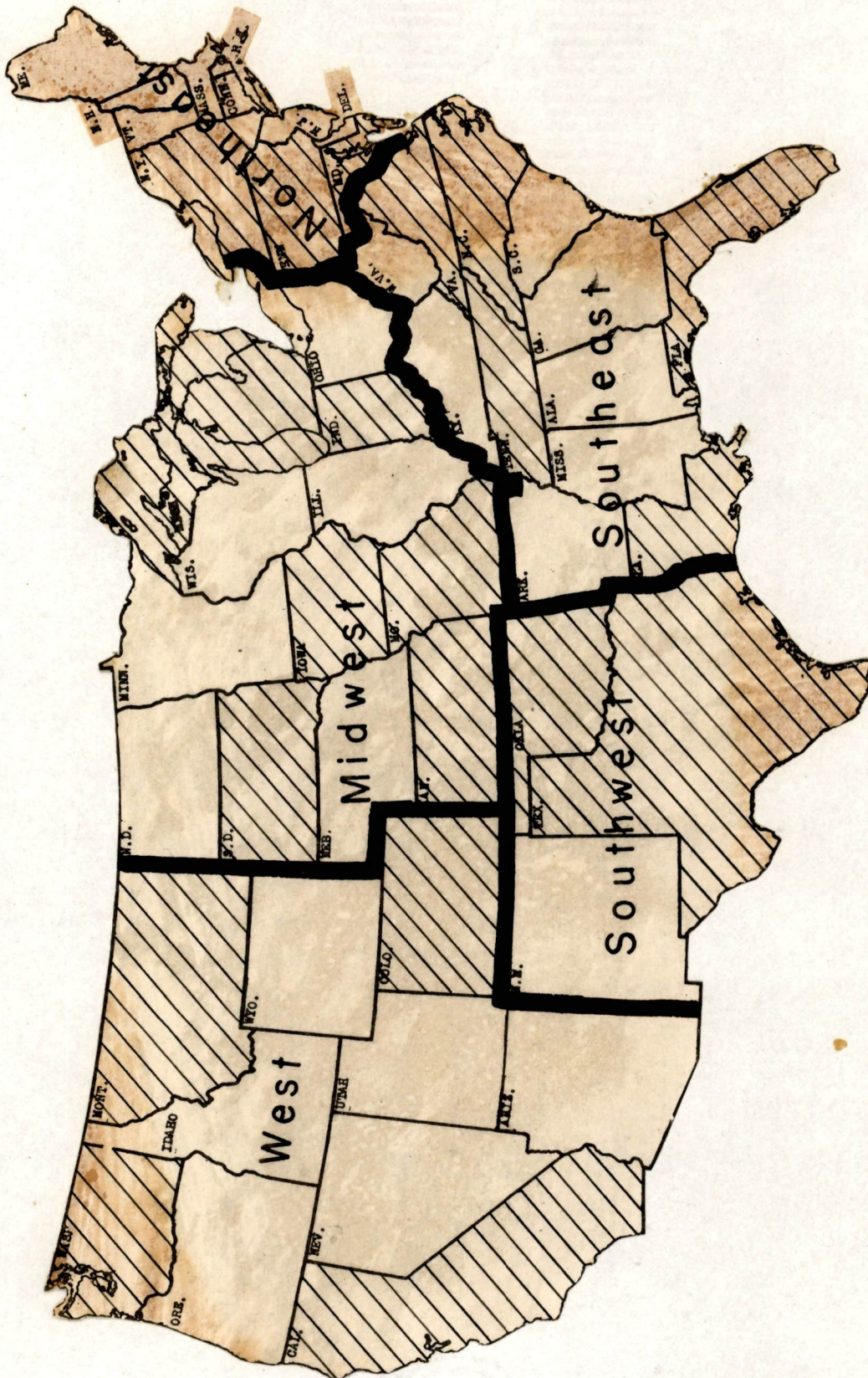
The 48 states of the United States were divided into five sections: Northeast, Southeast, Midwest, Southwest, and West. From the five sections, 20 states were selected for the study. The sample states selected for the study were those which have progressive animal husbandry teaching and research programs and are considered to be representative of their area. The sections and states used in the study are denoted in Figure I.

The data for the study were obtained from material in the Tennessee Agricultural Library. All publications of the 20 land-grant agricultural experiment stations and extension services were tabulated according to subject matter, kind of publication and the year published. The study was divided into two periods: 1940 to 1950 and 1950 to 1957.

Questionnaires

The variety of printed or mimeographed materials and the effectiveness of each were two objectives of the study. The writer prepared a questionnaire and a letter, Appendix A, which was sent to the heads of the 48 land-grant agricultural college and university animal husbandry departments in the United States. A similar questionnaire and letter, Appendix B, was sent to the editors of the 48 land-grant agricultural colleges and universities of the United States.

Heads of the animal husbandry departments returned 43 questionnaires, and the editors returned 36. Data from the questionnaires were compiled, tabulated and analyzed.



/ Represents States Used in
the Library Study

Figure I

Sectional Division of the United States
Showing States Considered in the
Library Study

CHAPTER IV

RESULTS AND DISCUSSION

It is the aim and responsibility of the animal husbandry departments of the United States land-grant colleges and universities to disseminate research data in a form which can be understood by the intended audience. Such audiences include farmers, county agents, agricultural teachers, agricultural research workers, extension workers, workers in agricultural related industries and others. With this situation, the investigator set out to try to determine the series and types of publications used by animal husbandry departments of the United States land-grant colleges and universities in their work.

The data presented in Table I are based on replies of the animal husbandry department heads. These data represent a summary of the questionnaires returned by the 43 animal husbandry heads participating in this phase of the study.

As shown in Table I of the experiment station series, 41 or 95 per cent of the departments reported bulletins as a means of disseminating information. Thirty-four or 79 per cent listed mimeographs while only 2 or 5 per cent recorded memoirs, and 6 or 14 per cent listed special bulletins.

Of the 42 replies to the extension service publication series, 38 or 90 per cent listed circulars and 32 or 76 per cent listed bulletins. Nine or 21 per cent checked publications.

Other methods of distributing information listed were: circular letters, cooperative publications, experiment station bi-monthly bulletins,

TABLE I

RELATIVE USE OF PUBLICATION SERIES BY ANIMAL HUSBANDRY DEPARTMENTS
IN THE UNITED STATES

Series	Experiment Station ^a		Extension Service ^b	
	Numbers	Percent	Series	Numbers Percent
Bulletins	41	95	Circulars	38 90
Mimeographs	34	79	Bulletins	32 76
Progress Reports	30	70	Leaflets	27 64
Circulars	29	67	Club Bulletins	23 55
Technical Bulletins	22	51	Folders	17 40
Research Bulletins	18	42	Pamphlets	16 38
Miscellaneous Publications	16	37	Miscellaneous	
Information Circulars	9	21	Circulars	14 33
Special Bulletins	6	14	Publications	9 21
Memoirs	2	5		

^aBased on 43 replies.

^bBased on 42 replies.

experiment station quarterly, fact sheets, field day reports, journal articles, library news, livestock notes to county agents, magazine articles, periodicals, press releases, quarterly research project reports, radio, scientific papers and journals, short course reports, technical journals, and television.

The University of Delaware Animal Husbandry Department Head said in a letter to the investigator August 15, 1956 that the county agents and extension specialists in Delaware were depending more upon radio to reach the farmers than upon printed material. Eighteen per cent of the animal husbandry department heads reported the trend toward radio and sixteen per cent use television as a means of reaching their audience.

The data in Table II show that according to requests sent to the animal husbandry offices, county agents and farmers prefer bulletins and circulars as informational material.

The University of Florida Animal Husbandry Department Head made the marginal comment that many farmers indicated they read more popular articles on livestock problems in the livestock journals than they did in bulletins or circulars.

When the animal husbandry department heads were asked to list materials which they thought to be most effective for their department to use, 39 of the 48 replied. Table III shows that for first choice, 15 or 38 per cent chose bulletins, while leaflets and mimeographs tied with 5 or 13 per cent. Circulars were favored in the second choice by 10 or 28 per cent of those responding. Bulletins were preferred in the third choice group by 4 or 14 per cent.

TABLE II

INFORMATION MATERIALS REQUESTED BY COUNTY AGENTS
AND FARMERS FROM ANIMAL HUSBANDRY DEPARTMENTS^a

Series	First		Second		Third	
	No.	%	No.	%	No.	%
Bulletins	19	49	6	16	9	30
Circulars	8	21	12	32	3	10
Information Circulars					1	3
Progress Reports			3	8		
Miscellaneous Publications					3	10
Leaflets	4	10	4	11	6	20
Folders	1	3	5	14		
Mimeographs	3	8	5	14	2	6
Miscellaneous Circulars					2	6
Livestock Demonstration Summary	1	3			1	3
Research Bulletins					1	3
Field Day Reports					1	3
Fact Sheets	2	5				
News Stories	1	3				
Radio					1	3
Pamphlets			2	5		

^aReply of 39 Animal Husbandry Department Heads.

TABLE III

INFORMATION MATERIALS PREFERRED BY ANIMAL
HUSBANDRY DEPARTMENT HEADS^a

Series	First		Second		Third	
	No.	%	No.	%	No.	%
Bulletins	15	38	7	19	4	15
Research Bulletins	2	5	1	3	1	4
Technical Bulletins	1	3	2	6	1	4
Circulars	3	8	10	28	3	11
Leaflets	5	13	1	3	2	7
Folders			2	6	1	4
Pamphlets			1	3	1	4
Mimeographs	5	13	3	8	3	11
Progress Reports	2	5	3	8	1	4
Journal Articles	1	3	1	3		
Quarterly Periodicals	1	3	1	3	2	7
Magazine and Newspaper Articles	2	5	1	3	3	11
Miscellaneous Circulars					1	4
Visual Aids			1	3		
Field Day Reports			1	3	3	11
Fact Sheets	1	3				
Radio					1	4
Periodicals	1	3				
Technical Journal			1	3		

^aReply of 39 Animal Husbandry Department Heads.

Radio was among information materials least preferred by the animal husbandry department heads for use in the information programs. The University of Nebraska Animal Husbandry Department Head stated in the questionnaire that television, radio and extension meetings are gradually replacing printed material in that State. The Animal Husbandry Department Head of Clemson Agricultural College, South Carolina made a comment in the margin that radio and television are used to distribute animal husbandry information in South Carolina. However, neither animal husbandry department head listed radio or television as a preferred method of distributing information.

Editors of 36 of the 48 United States land-grant agricultural colleges and universities participated in the study by returning the questionnaires.

Data in Table IV indicate that of the publication series available in the land-grant editorial offices, 11 or 36 per cent of the editors rated bulletins as a first choice for the animal husbandry department to use in disseminating information. Bulletins remained high as second choice and circulars were favored as third choice by 5 or 21 per cent of the editors. After third place, fewer figures appear, since in several instances only one choice was indicated.

The figures presented in Table V indicate that the editors prefer the circular. Eleven or 35 per cent of the editors checked circulars as first choice and 10 or 34 per cent placed circulars in the second choice, with club bulletins being popular as third choice. The bulletin also remained on the editor's check list.

TABLE IV

PREFERENCE RATINGS OF EXPERIMENT STATION PUBLICATION SERIES USED BY ANIMAL HUSBANDRY DEPARTMENTS
AS DETERMINED BY UNITED STATES LAND-GRANT AGRICULTURAL COLLEGE EDITORS^a

Series	First		Second		Third		Fourth		Fifth		Sixth		Seventh		Eighth		Ninth		Tenth	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Bulletins	11	36	11	34	1	4	2	15	1	14	2	33								
Circulars	6	19	2	6	5	21														
Information Circulars	1	3	2	6	2	8	1	8	2	29	1	17			1	25				
Memoirs					1	4														
Mimeographs	3	10	6	19	3	13	2	15	1	14			2	40					2	67
Miscellaneous Publications			3	9	3	13	3	23												
Annual Progress Reports	5	16	3	9	3	13	3	23	1	14					1	25	2	67		
Research Bulletins	4	13	2	6	3	13	2	15			1	17	1	20						
Special Bulletins			1	3	3	13			1	14	1	17	1	20	1	25	1	33		
Technical Bulletins	1	3	2	6	3	13			1	14	1	17	1	20	1	25			1	33

^a Replies by 34 United States Land-Grant Agricultural College Editors.

TABLE V

PREFERENCE RATINGS OF EXTENSION SERVICE PUBLICATION SERIES USED BY ANIMAL HUSBANDRY DEPARTMENTS
AS DETERMINED BY UNITED STATES LAND-GRANT AGRICULTURAL COLLEGE EDITORS^a

Series	First		Second		Third		Fourth		Fifth		Sixth		Seventh		Eighth	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Bulletins	7	23	7	24	3	13	2	15								
Circulars	11	35	10	34	2	9	2	15							1	25
Club Bulletins	3	10	1	3	9	39	1	8	1	25	1	33	1	33		
Folders	2	6	4	14	1	4	1	8	1	25	1	33				
Leaflets	3	10	6	21	5	22	2	15	1	25	1	33				
Miscellaneous Circulars			1	3	3	13	3	23					1	33	1	25
Pamphlets	1	3					1	8					1	33	1	25
Publications	4	13					1	8	1	25					1	25

^a Replies by 34 United States Land-Grant Agricultural College Editors.

Other information methods used by the animal husbandry department as listed by the editors were: circular letters, experiment station quarterly, farm magazine, journal articles, news stories, pamphlets, periodicals, popular livestock magazines, popular periodicals, quarterly report, quarterly research, record forms, report series, reprints of original research, science journals, and technical journals.

The data in Table VI show that county agents and farmers request more bulletins, circulars, and leaflets from the land-grant college and university editorial departments than any other information material listed.

In Table VII, the editors also rated bulletins, circulars, and leaflets higher than other materials as preferred methods for animal husbandry departments to disseminate information. Bulletins were preferred in the first place category, with circulars taking the margin in second place.

The Arkansas associate editor in a marginal comment stated that the important thing about a publication is the timeliness, content, and method of presentation rather than the name given it. The Mississippi Extension editor in a letter dated August 9, 1956 commented that their editorial department has ceased to make a distinction between circulars, leaflets and bulletins, having all titles listed under "Publications."

Mimeograph material is favored by the Indiana editor who points out that it is cheap and can be easily revised.

Several editors made marginal comments involving the fact that different land-grant institutions publish different kinds of series under

TABLE VI

INFORMATION MATERIALS REQUESTED BY COUNTY AGENTS AND FARMERS FROM
LAND-GRANT COLLEGE AND UNIVERSITY AGRICULTURAL EDITORS^a

Series	First		Second		Third		Fourth		Fifth		Sixth	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Bulletins	8	25	8	26	4	17	1	50			1	100
Club Bulletins					2	8						
Popular Bulletins			2	6								
Circulars	8	25	11	36	3	13						
Information Circulars							1	50				
Folders	1	3	2	6								
Leaflets	6	19	3	10	3	13						
Pamphlets			1	3	1	4						
Publications	1	3										
Quarterly Publications	4	13			1	4						
Miscellaneous Publications					2	8			1	100		
Mimeographs	1	3	2	6	4	17						
Fact Sheets	1	3										
Service Letters			1	3								
Circular Letters					2	8						
Brieflets	1	3										
News Stories			1	3	2	8						
Monthly Periodicals	1	3										

^a Replies by 32 United States Land-Grant Agricultural College and University Editors.

TABLE VII

PREFERENCE OF INFORMATION MATERIAL FOR USE BY ANIMAL
HUSBANDRY DEPARTMENTS AS RATED BY UNITED STATES
LAND-GRANT COLLEGE EDITORS^a

Series	First		Second		Third		Fourth	
	No.	%	No.	%	No.	%	No.	%
Bulletins	8	26	6	21	8	30	1	25
Club Bulletins			1	3				
Technical Bulletins			1	3			1	25
Circulars	5	16	7	24	3	11		
Popular Circulars	1	3						
Folders	1	3						
Leaflets	5	16	6	21	1	4		
Research Bulletins	1	3						
Publications	1	3	2	7	2	7		
Mimeographs	1	3	2	7	3	11		
Fact Sheets	1	3						
Progress Reports					2	7	2	50
Newsletters					1	4		
Service Letters					1	4		
Written Communications			2	7				
Farm Papers			1	3				
Radio-T.V.					1	4		
Record Forms	1	3						
Brieflets	1	3						
Quarterly Publications	1	3	1	3				
Periodicals	1	3						
News Stories	1	3			2	7		
Quarterly Magazines	1	3			3	11		
Farm Research	1	3						

^aReplies by 31 United States Land-Grant Agricultural College Editors.

different kinds of names. Thus, what is called a research bulletin at one institution may be called a technical bulletin or simply a bulletin at some other institution. The editors from Iowa State and Texas A & M have signified that their departments have available a guide to the publications series which illustrate the purposes of the series.

With the three audiences; general, scientific, and specialized, many publications editors implied that the publication must be aimed at the audience level and need. Virginia Polytechnic Institute editor in a letter dated August 6, 1956 commented that the publication series depend on the subject and the objective. The University of Vermont's associate editor in correspondence to the investigator August 27, 1956 suggested that the same material could be used for both technical and popular publications when rewritten for the different audiences.

Data in Table VIII and Table IX show a departmental comparison of series and numbers of publications from twenty selected land-grant college and university experiment stations and extension services from 1940 to 1950 and 1950 to 1957 according to a library study. Data compiled show that the animal husbandry departments ranked between fourth and fifth with other agricultural departments according to numbers of publications published from the experiment stations during the period. In a similar study, Table IX, of the extension service publications over the same period, the animal husbandry departments ranked fifth in publication numbers.

Of the twenty United States land-grant college and university animal husbandry departments studied, data available to the investigator show that Missouri published a larger number of experiment station

TABLE VIII

SERIES AND NUMBERS OF PUBLICATIONS FROM TWENTY SELECTED LAND-GRANT AGRICULTURAL COLLEGE AND
UNIVERSITY EXPERIMENT STATIONS DURING THE PERIODS 1940 TO 1950 AND 1950 TO 1957^a

Department	Bulletins ^b				Technical Research Bulletins				Popular Bulletins				Special Bulletins ^c				Information Circulars				Memoirs				Leaflets				Miscellaneous Publications			
	1940		1950		1940		1950		1940		1950		1940		1950		1940		1950		1940		1950		1940		1950		1940		1950	
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to		
	1940	1957	1950	1957	1940	1950	1940	1957	1940	1950	1940	1957	1940	1950	1940	1957	1940	1950	1940	1957	1940	1950	1940	1957	1940	1950	1940	1957	1940	1957		
Agronomy	347	242	29	27	33	27	5	8	2	150	72	3	9	6	18	2	12															
Animal Husbandry-																																
Veterinary Science	139	102	17	8	30	23	2	1	1	52	34		4				4															
Bacteriology	15	6	11	2	3	2				5	1																					
Botany	11	7	6		9					2	3						2															
Chemistry	70	31	15	2		6				37	24		1	1			1															
Dairying	69	47	4	6	46	40	1	1	1	35	10						1															
Economics																																
(Sociology)	448	303	29	30	57	57	4	34	33	65	39	4	9	7																		
Education	13	5			4	2																										
Engineering	74	60	9	7	6	13	4	3	3	41	24		1																			
Entomology	102	48	26	11	2		1	2		13	12						10															
Food Technology	17	4			1					8																						
Forestry																																
(Conservation)	42	39	5	7	9	8	2	3	1	11	7																					
Horticulture																																
(Pomology)	179	90	13	5	6	6	8	4	2	88	27																					
Plant Pathology	93	41	11	11	10	2	7	7	1	31	8																					
Poultry	74	47	8	4	15	8		1		23	7																					
Zoology	19	4	9	2	5	5				1	2																					

^a Publications available in the University of Tennessee Agricultural Library.

^b Includes Experiment Station Bulletin P Series.

^c Includes Truck Bulletins.

TABLE IX

SERIES AND NUMBERS OF PUBLICATIONS FROM TWENTY SELECTED LAND-GRANT AGRICULTURAL COLLEGE AND UNIVERSITY EXTENSION SERVICES DURING THE PERIODS 1940 TO 1950 AND 1950 TO 1957^a

Department	Club			Junior			Special			Leaflets			Folders			Pamphlets			Publications			Miscellaneous					
	Bulletins			Bulletins			Circulars			Circulars			Leaflets			Leaflets			Leaflets			Publications			Publications		
	to to			to to			to to			to to			to to			to to			to to			to to			to to		
	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957	1940	1950	1957
Agronomy	63	30					126	101	22	6	21	19	15	12	10	6	5							19			
Animal Husbandry																											
Veterinary Science	52	20	1	1	4		58	28	8	6	14	9	7	5	2	10	1						2				
Bacteriology																											
Botany	5	3					1	1			1	1	1														
Chemistry							3	1			1	1															
Dairying	18	9					34	15	9	7	21	5	8	10	5	3	1						1				
Economics																											
(Sociology)																											
Education	139	43		1			87	90	6	2	18	6	12	11		7	4						1				
Engineering	3	1																									
Entomology	45	13		2			106	62	73	32	22	29	9	8	6	17	7						1				
Food Technology	49	30					45	42	5	10	13	8	14	9	13	1	2										
Food Technology	10	1					10	2			1	1		1													
Forestry																											
(Conservation)	35	14	3	1	3		36	24	12	1	2	4	5	2	2	1	2						1				
Horticulture																											
(Pomology)	129	69	2	3	2		113	78	35	17	36	19	19	12	3	11	4						2				
Plant Pathology	40	14					33	25	4	2	11	12	3	8	4	1											
Poultry	83	22		6	2		66	37	4	2	11	9	2	3	4								2				
Zoology							2																				

^a Publications available in the University of Tennessee Agricultural Library.

^b Includes Series C. Bulletin and New Dominion Series Extension Service Bulletin.

TABLE III

SERIES AND NUMBERS OF ANIMAL HUSBANDRY-VETERINARY SCIENCE PUBLICATIONS FROM TWENTY LAND-GRANT AGRICULTURAL COLLEGE AND UNIVERSITY EXPERIMENT STATIONS DURING THE PERIODS 1940 TO 1950 AND 1950 TO 1957

	Bulletins		Technical Bulletins		Research Bulletins		Popular Bulletins		Special Bulletins		Circulars		Memoirs		Miscellaneous Publications	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
NORTHEAST																
New York	4	3														
Maryland	2	2														
Pennsylvania	13	4														
SOUTHEAST																
Florida	21	10														
Louisiana	4	2														
North Carolina	2	2	1	1												
Tennessee	1	1														
Virginia		2														
MIDWEST																
Indiana	10	6														
Iowa	8	3			3	2					10	1				
Kansas	3	2	7								9	17				
Michigan			3						1	1						
Missouri	7	13			27	21					11	2				
South Dakota	9	12		1												
SOUTHWEST																
Texas	15	9														
Oklahoma	10	16	4	3							1	2				
WEST																
California	9	1														
Colorado	1	1	2	1							1	4				
Montana	10	7														
Washington	10	5		2							10	4				

TABLE IV

SERIES AND NUMBERS OF ANIMAL HUSBANDRY-VETERINARY SCIENCE PUBLICATIONS FROM TWENTY LAND-GRANT AGRICULTURAL
COLLEGE AND UNIVERSITY EXTENSION SERVICES DURING THE PERIODS 1940 TO 1950 AND 1950 TO 1957

	Bulletins ^a		Club Bulletins		Junior Bulletins		Circulars		Special Circulars		Leaflets		Folders		Pamphlets		Publications	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
NORTHEAST																		
New York	19	2																
Maryland	2																	
Pennsylvania							6	3		1	1	1						
SOUTHEAST																		
Florida	6						5	3										
Louisiana							8											
North Carolina							5	1					2	4				
Tennessee									8	5		2					10	1
Virginia	4						4	5			9							
MIDWEST																		
Indiana	7	3																
Iowa							5				1	4						
Kansas							3	3								2		
Michigan	3	5	1										5	1				
Missouri							7											
South Dakota							4				3							
SOUTHWEST																		
Texas	12	3					2											
Oklahoma								8										
WEST																		
California							3	1										
Colorado																		
Montana							10	4										
Washington	3	3					2										2	

^aIncludes Series C Bulletins from Texas and Publications from Tennessee.

publications than any other state studied in the sixteen year period.



CHAPTER V

SUMMARY

The purpose of this study was to make an investigation of the series and numbers of publications and information aids used by the 48 United States land-grant agricultural colleges and universities in disseminating animal husbandry research findings.

Data from the 43 animal husbandry department heads of the United States land-grant colleges and universities responding to the questionnaire indicated that bulletins, circulars and mimeographs have been most widely used in the dissemination of both experiment station and extension service information to all audiences. Bulletins and circulars were preferred by county agents and farmers with the trend toward more extensive use of radio, television and popular articles.

The thirty-six United States Land-grant agricultural college and university editors responding to the questionnaire presented data in general agreement with the animal husbandry department heads. Bulletins, circulars and leaflets were rated as the first three choices of the editors as preferred publications for the animal husbandry departments' information programs.

Forty different series of publications were listed as being used in the animal husbandry departments' information programs. Radio, television, personal communications, newspaper and magazine articles, and visual aids were other aids mentioned.

From available data, it is apparent that the series names vary from

one state to another due to the lack of a uniform publications guide. Publications, bulletins, miscellaneous publications, technical bulletins, special bulletins, popular bulletins, research bulletins, club bulletins, junior bulletins, and memoirs represent a group of publication materials similar in format. Circulars, leaflets, folders, special circulars and pamphlets are various series names having similar format and treatment.

The study indicates the need of an audience survey, studying the problems existing in the animal husbandry field and the effectiveness of existing materials used by animal husbandry departments in solving such problems.

A typical information program such as the University of Tennessee Animal Husbandry Department or similar schools could adopt might include the following:

1. Press releases to newspapers and farm magazines on subjects such as livestock shows and sales, livestock producers days, field day meetings, type conferences, reports of experimental findings, and other meetings and events of importance or interest to farm people. There are 156 newspapers in Tennessee which might make use of such news items. Of that number, 124 are weekly and 28 are published daily.

2. Planned programs and film strips for radio and television including topics such as selection of beef animals, preparing animals for experiments, shearing sheep, and balancing rations for farm animals. Tennessee has 122 AM and FM radio stations and 15 television stations which might make use of such available information.

3. Technical bulletins for completed research data. Such material containing the problem, experimental procedure, techniques engaged in the study, and summary might be used by research workers, county agents and technical workers.

4. Popular bulletins directed at the farmer and county agent might contain the results of technical research written on an easy-to-understand basis. Sheep raising and pork curing are examples of simplified versions which might be derived from studies described in technical bulletins.

5. Circulars containing brief, less technical information might be used for a popular subject such as the process of injecting stilbestrol in steers, pointers for showing a beef animal, and how to select meat type hogs.

6. Mimeographs for reports on research in progress and illustrative material such as plans for a loading chute, sketch of a farrowing pen, and a drawing of a creep feeding arrangement. This might consist of a brief report of different phases of an overall project.

The author suggests that a survey be made of the newspapers in Tennessee to establish the number having regular farm pages. A similar study might be made of the radio and television stations to determine the number which might make use of such information from the animal husbandry department.

The data presented herein suggest several areas where further, more intensive study might be desirable.

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CRANES  CREST

BIBLIOGRAPHY

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APPENDIX

APPENDIX A

THE UNIVERSITY OF TENNESSEE
KNOXVILLE
College of Agriculture and Home Economics

Department of
Animal Husbandry-Veterinary Science

July 25, 1956

Dr. John Doe
Head of Animal Husbandry
University of Baylow
Plain City, Airplane

Dear Dr. Doe:

I am a graduate student in Animal Husbandry and Journalism at the University of Tennessee doing research for a thesis entitled "Publications and Information Aids Used By Animal Husbandry Departments." The research includes a survey of publications in Animal Husbandry Departments throughout the United States.

If you would please fill out the enclosed questionnaire and return it at your earliest convenience, I would appreciate it very much.

Thank you in advance for your cooperation.

Sincerely,

Miss Bernas Sharp
A. H. Department

APPENDIX A

Please Answer As Completely As Possible

1. (A) Place an X by the types of material your A. H. Department uses to distribute information:

Experiment Station:

Bulletins
 Circulars
 Information
 Circulars
 Memoirs
 Mimeographs
 Miscellaneous
 Publications
 Progress Reports,
 Annual
 Research Bulletins
 Special Bulletins
 Technical Bulletins

Extension Service:

Bulletins
 Circulars
 Club Bulletins
 Folders
 Leaflets
 Miscellaneous
 Circulars
 Pamphlets
 Publications

- (B) List others not mentioned above:

1. _____
 2. _____
 3. _____

2. What type of material (bulletins, circulars, etc.) is used most by county agents and farmers? List according to preference or demand.

1. _____
 2. _____
 3. _____

3. List in order your preference of materials which you think is most effective for your department to use.

1. _____
 2. _____
 3. _____

4. Use space provided below for further comments related to your department's distribution of information:

APPENDIX B

THE UNIVERSITY OF TENNESSEE
KNOXVILLE
College of Agriculture and Home Economics

Department of
Animal Husbandry-Veterinary Science

July 28, 1956

Mr. Joe Buck
Agricultural Editor
Deer College
Softwater, Alkali

Dear Mr. Buck:

I am a graduate student in Animal Husbandry and Journalism at the University of Tennessee doing research for a thesis entitled "Publications and Information Aids Used By Animal Husbandry Departments." The research includes a survey of publications in Animal Husbandry Departments throughout the United States.

If you would please fill out the enclosed questionnaire and return it at your earliest convenience, I would appreciate it very much.

Thank you in advance for your cooperation.

Sincerely,

Miss Bernas Sharp
A. H. Department

CRANES CREST

APPENDIX B

Please Answer As Completely As Possible

1. (A) Of the following types of material listed, rate in order (1,2,3, etc.) the types of Animal Husbandry material used most:

Experiment Station:	Extension Service:
Bulletins	Bulletins
Circulars	Circulars
Information	Club Bulletins
Circulars	Folders
Memoirs	Leaflets
Mimeographs	Miscellaneous
Miscellaneous	Circulars
Publications	Pamphlets
Progress Reports,	Publications
Annual	
Research Bulletins	
Special Bulletins	
Technical Bulletins	

- (B) List others not mentioned above:

1. _____
 2. _____
 3. _____

2. What type of material (bulletins, circulars, etc.) is used most by county agents and farmers? List according to preference or demand.

1. _____
 2. _____
 3. _____

3. List in order your preference of materials which you think is most effective for the Animal Husbandry Department to use.

1. _____
 2. _____
 3. _____

4. Use space provided below for further comments related to the A. H. Department's distribution of information:

TABLE XII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR CORNELL AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station			Extension Service		
	Bulletins		Memoirs	Bulletins		Junior Bulletins
	1940 to 1950	1950 to 1957		1940 to 1950	1950 to 1957	1940 to 1950
Agonomy	8	2	9	6	27	9
Animal Husbandry-						
Veterinary Science	4	3	4		19	2
Bacteriology				1	5	3
Botany			2	5		
Chemistry	2	1	1	1		
Dairying	2	3	1	1	7	3
Economics (Sociology)	56	27	9	7	51	16
Education	2		1		2	1
Engineering		3			33	13
Entomology	8		10	9	9	1
Food Technology					4	1
Forestry (Conservation)	3	1		2	12	7
Horticulture (Pomology)	20	2	8	8	61	39
Plant Pathology	10	4	8	6	22	5
Poultry	2	3	1		12	12
Zoology			1	1	1	2

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XIII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR MARYLAND AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service			
	Bulletins		Miscellaneous		Bulletins		Circulars	
	1940	1950	1940	1950	1940	1950	1940	1950
	to	to	to	to	to	to	to	to
	1950	1957	1950	1957	1950	1957	1950	1957
Agronomy	1	7		3	2			1
Animal Husbandry-								
Veterinary Science	2	2			2			
Bacteriology		1						
Botany	3	3						
Chemistry								
Dairying	2	1		1	2			
Economics (Sociology)	37	15		13	3	1		
Education								
Engineering		1		3				
Entomology	6	4			6	3		2
Food Technology					1			
Forestry (Conservation)								
Horticulture (Pomology)	5	2			4	2		1
Plant Pathology	1				1			
Poultry	2	2		2	12			4
Zoology								

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XIV

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR PENNSYLVANIA STATE
AGRICULTURAL EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station		Extension Service					
	Bulletins		Circulars		Leaflets		Special Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	17	11	7	4	4	3		1
Animal Husbandry-								
Veterinary Science	13	4	6	3	1	1		1
Bacteriology	4	2						
Botany	2	3						
Chemistry								
Dairying	8	5	5	2	2	2		3
Economics (Sociology)	30	22	7	6				
Education	6	2						
Engineering	4	1	4	5				
Entomology	9	6	9	11	4	1	6	1
Food Technology			2	2	2	1		
Forestry (Conservation)	4	3	4	2	1	1		
Horticulture (Pomology)	10	8	20	13	6	8		
Plant Pathology	6	3	7	7	4	3		
Poultry	7	3	8	7	5	1		
Zoology	1	2	1					

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XV

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR FLORIDA AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station		Extension Service			
	Bulletins		Bulletins		Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	24	21				8
Animal Husbandry-						
Veterinary Science	21	10	6		5	3
Bacteriology						
Botany		1				1
Chemistry	7	10			1	1
Dairying	7	5			1	1
Economics (Sociology)	6	15	1			
Education						
Engineering		4				7
Entomology	5	5	2	3	2	6
Food Technology	3					
Forestry (Conservation)	2	1	1	1	1	1
Horticulture (Pomology)	19	20	18	11	2	22
Plant Pathology	18	11			2	3
Poultry	8	2	4	2	9	3
Zoology						

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XVI

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR LOUISIANA AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station			Extension Service		
	Bulletins		Circulars	Circulars		
	1940	1950		1940	1950	1940 1950
	to	to		to	to	to
	1950	1957		1950	1957	1950 1957
Agronomy	24	13	6			9
Animal Husbandry-						
Veterinary Science	4	2	2			8
Bacteriology	1					
Botany						
Chemistry						
Dairying	10	2				2
Economics (Sociology)	48	20				3
Education	1					
Engineering		1	1			
Entomology	5	4				
Food Technology	3					1
Forestry (Conservation)	4	3				1
Horticulture (Pomology)	10	5	1			18
Plant Pathology	8	3	1			1
Poultry	2	5	5			1
Zoology						

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XVII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR NORTH CAROLINA STATE
AGRICULTURAL EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station						Extension Service					
	Bulletins			Information Circulars			Technical Bulletins			Circulars		
	1940 to 1950	1950 to 1957	1957	1940 to 1950	1950 to 1957	1957	1940 to 1950	1950 to 1957	1957	1940 to 1950	1950 to 1957	1957
Agronomy	22	10		3			6	9		20	14	8
Animal Husbandry--												
Veterinary Science	2	2					1	1		5	1	4
Bacteriology							1					
Botany												
Chemistry												
Dairying	1	7	6				1	10		2	3	6
Economics (Sociology)							13			14		4
Education												
Engineering	2	1			4		1			4	6	1
Entomology	1	1	1				1			6	2	6
Food Technology										3		1
Forestry (Conservation)	2							2		2	3	1
Horticulture (Pomology)	2						1	6		14	6	4
Plant Pathology	1	1								7	3	5
Poultry	2						1			6		3
Zoology												

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XVIII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR TENNESSEE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service					
	Bulletins		Circulars		Publications		Leaflets		Special Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	15	14	14	5	6	15	11	9	22	5
Animal Husbandry-										
Veterinary Science	1	1	1		10	1	9	2	8	5
Bacteriology	1									
Botany										
Chemistry	5	2			3	1	1		4	
Dairying	2	4	4		3	1	7	1	9	4
Economics (Sociology)	3	21		5	7	4	9	3	6	2
Education										
Engineering	4		1		17	7	17	7	73	26
Entomology	5		4		1	2	5	2	5	9
Food Technology										
Forestry (Conservation)	1				1	2		1	12	1
Horticulture (Pomology)	2	1	10	1	11	4	19	4	35	17
Plant Pathology			5	1	1		2	1	4	2
Poultry							3	2	4	2
Zoology	4									

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XIX

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR VIRGINIA POLYTECHNIC INSTITUTE
AGRICULTURAL EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station						Extension Service										
	Bulletins			Technical Bulletins			Truck Bulletins			Bulletins			Circulars			Dominion Series	
	1940	1950	to 1950 1957	1940	1950	to 1950 1957	1940	1950	to 1950 1957	1940	1950	to 1950 1957	1940	1950	to 1950 1957	1940	1950
Agronomy	29	4		1	2								1	6	13		
Animal Husbandry-																	
Veterinary Science		2											4		5		
Bacteriology	1	1		1											1		
Botany																	
Chemistry				4	1												
Economics (Sociology)	31	17		9									7	2	1	54	17
Education																	
Engineering	1	5		3									2	1	1		
Entomology	8	1		13	3			1					1	1	3	2	
Food Technology	1	1											2			1	
Forestry (Conservation)	2												1		2	1	
Horticulture (Pomology)	5							1					2		1	1	
Plant Pathology	13	1		8	2			4					3	1	5	1	
Poultry	2	4		2									2		7		
Zoology	1			2									1		1		
Dairying	3	3		2									3		3		

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XX

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR PURDUE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service			
	Bulletins		Circulars		Bulletins		Leaflets	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	11	10	31	11	9	4	1	6
Animal Husbandry-								
Veterinary Science	10	6	10	1	7	3	1	4
Bacteriology								
Botany	1							1
Chemistry	2	1	29	22				1
Dairying	5	4	14	7	3	1	1	1
Economics (Sociology)	46	42	3	6	8	2	3	1
Education								
Engineering	3	6	2	4	7	3		18
Entomology	2	1	2	1	8	2		2
Food Technology	1	1			1			
Forestry (Conservation)	1	12	3	1	9	1	2	1
Horticulture (Pomology)	7	2	5		22	7	3	3
Plant Pathology		1	3	1	5	3	2	8
Poultry	5	4			11	3	2	5
Zoology								

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXI

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR IOWA STATE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service			
	Bulletins P		Research Bulletins		Circulars		Pamphlets	
	1940	1950	1940	1950	1940	1950	1940	1950
	to	to	to	to	to	to	to	to
	1950	1957	1950	1957	1950	1957	1950	1957
Agronomy	26	6	16	10			10	
Animal Husbandry-								
Veterinary Science	8	3	3	2	5		2	
Bacteriology								
Botany			8					
Chemistry	1	1						
Dairying	2	1	13	1	2		5	
Economics (Sociology)	18		31	43	3			
Education	2		4	1				
Engineering	12	1	6	3	3		6	
Entomology	4		1				13	
Food Technology	1							
Forestry (Conservation)	1		6	1	1		2	
Horticulture (Pomology)	16	1	2	1	5		3	
Plant Pathology	2		5				4	
Poultry	2	1	3		1		4	
Zoology		1						

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR KANSAS STATE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station						Extension Service					
	Bulletins			Circulars			Technical Bulletins			Circulars		
	1940	1950	to	1940	1950	to	1940	1950	to	1940	1950	to
	1950	1957	1957	1950	1957	1957	1950	1957	1957	1950	1957	1950
Agronomy	22	15	7	18	10		5	5	1	2		1
Animal Husbandry--												
Veterinary Science	3	2	9	17	7		3	3				2
Bacteriology			1	1								
Botany												
Chemistry					2							
Dairying	1											1
Economics (Sociology)	8	8	11	14	2		2	6	4			2
Education												
Engineering		3	1	2			9	1	6			3
Entomology	1	5	1	2	2		2	2	2			1
Food Technology			3				1	1				
Forestry (Conservation)		1	1	2			2	2				1
Horticulture (Pomology)	7	2	9	4	1		1	2	7			4
Plant Pathology		1					1	1	2			
Poultry	6	3	5	3	5		3		2			1
Zoology	1		1	2	1			3	1			

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXIII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR MICHIGAN STATE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE ^a

Department	Experiment Station						Extension Service					
	Circulars		Bulletins		Bulletins		Bulletins		Bulletins		Folders	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	7	1	8	2	5		8	2			11	3
Animal Husbandry												
Veterinary Science			1	1	3	2	3	5	1		5	1
Bacteriology	1				9							
Botany					6	1					1	
Chemistry					1	1						
Dairying	1	1	1	1	1	15	3	2			5	4
Economics (Sociology)	6		34	33	1		9	3			11	7
Education					1							
Engineering	7		3	3	1	1	12	5			3	7
Entomology			1		2		11				12	3
Food Technology	1			1			2					
Forestry (Conservation)	3		3	1	2	4	5	2	3		2	1
Horticulture (Pomology)	10		3	1	8	2	6		5		17	8
Plant Pathology	2		3	1	1	1	6	2			3	3
Poultry			3				4					
Zoology			1		5	2					2	

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXIV

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR MISSOURI AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station						Extension Service	
	Bulletins		Circulars		Research Bulletins		Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	27	32	33	4	17	17	15	4
Animal Husbandry								
Veterinary Science	7	13	11	2	27	21	7	
Bacteriology	4	1	2		3	2		
Botany	1		1		1			
Chemistry	7	1				6	6	
Dairying	5	3	6		33	39	5	1
Economics (Sociology)	12	19	14	1	26	14		
Education	2	2				1		
Engineering	4	7	8			10	26	3
Entomology	10	2	25	1	1		1	3
Food Technology	2						2	2
Forestry (Conservation)	7	9	2	2	1	7	13	3
Horticulture (Pomology)	14	7	29	4	4	5	19	4
Plant Pathology	1	6	5	3	5	2	2	10
Poultry	7	6	5		12	8	15	6
Zoology					5	5		

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXV

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR SOUTH DAKOTA AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station					Extension Service				
	Bulletins		Circulars		Technical Bulletins	Circulars		Leaflets		
	1940	1950	1940	1950		1940	1950	1940	1950	
	to	to	to	to	to	to	to	to	to	
	1950	1957	1950	1957	1950	1950	1957	1950	1957	
Agronomy	10	10	21	17	2	2				5
Animal Husbandry-										
Veterinary Science	9	12	2	3	1	4				3
Bacteriology										
Botany										
Chemistry	1			1	2					
Dairying	5	1	6	4						
Economics (Sociology)	22	14	9			1	4	5	6	
Education										
Engineering	6	3	3	8		7		3	4	
Entomology	2	2	1		2					
Food Technology	1									
Forestry (Conservation)										
Horticulture (Pomology)	2	1	3	2		2		8		
Plant Pathology	1		1	2				3		
Poultry	4	1	1	1				1		
Zoology								7		

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXVI

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR TEXAS AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service			
	Bulletins		Circulars		Bulletins		Series C Bulletins	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	11	29	4	2	4	3	2	2
Animal Husbandry-								
Veterinary Science	15	9	1		8	1	4	2
Bacteriology	1							
Botany	39	11	7	1				
Chemistry	4	1					2	6
Dairying	18	22	3	2	2	1	1	1
Economics (Sociology)		1			1		2	4
Education	8	3		1	2	1	1	1
Engineering	2		5	1			2	4
Entomology								
Food Technology	5	3			2		2	
Forestry (Conservation)	15	4	4		5	3	1	1
Horticulture (Pomology)	10	4	4		1		1	1
Plant Pathology	3				1		5	1
Poultry								
Zoology								

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXVII

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR OKLAHOMA AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE ^a

Department	Experiment Station						Extension Service					
	Bulletins			Circulars			Leaflets			Miscellaneous Technical Publications		
	1940	1950	to 1957	1940	1950	to 1957	1940	1950	to 1957	1940	1950	to 1957
	1940	1950	to 1957	1940	1950	to 1957	1940	1950	to 1957	1940	1950	to 1957
Agronomy	32	39		12	1		18			2	9	
Animal Husbandry-										5	10	
Veterinary Science	10	16		5	2					4	3	
Bacteriology	1											
Botany				1								
Chemistry	2									6		
Dairying		8		2						3	2	
Economics (Sociology)	20	20		4						1		
Education												
Engineering	4	12		3						11		
Entomology	6	6			1					6		
Food Technology		1										
Forestry (Conservation)	6			2						3		
Horticulture (Pomology)	9	10		4						3		
Plant Pathology	6	1		8						1		
Poultry	8	6		6								
Zoology										1		

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXV III

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR CALIFORNIA AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station			Extension Service		
	Bulletins		Circulars	Circulars		
	1940 to 1950	1950 to 1957		1940 to 1950	1950 to 1957	
Agonomy	8	4	3	10	5	4
Animal Husbandry--						
Veterinary Science	9	1	1	4	3	1
Bacteriology	2	1		2	3	
Botany	1					
Chemistry	2	1		1	1	
Dairying	6	7	15	6	4	5
Economics (Sociology)						
Education	6		10	7	5	1
Engineering	11	2	3	6	2	1
Entomology	3		4			
Food Technology	3	2		2	1	1
Forestry (Conservation)	17	13	11	8	11	10
Horticulture (Pomology)	3		2	1	4	
Plant Pathology	2	1	1	3	3	
Poultry	1			1	1	
Zoology						

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXIX

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR COLORADO AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station				Extension Service			
	Bulletins		Technical Bulletins		Bulletins		Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	12	1	5	4	3			3
Animal Husbandry-								
Veterinary Science	1	1	2	1				
Bacteriology								
Botany								
Chemistry								
Dairying								
Economics (Sociology)	5		1	1				
Education								
Engineering	4		3	2				
Entomology	1			2				11
Food Technology	1							
Forestry (Conservation)				1			1	
Horticulture (Pomology)	6			2				
Plant Pathology	1		1					
Poultry				1			7	
Zoology								

^aAvailable in the University of Tennessee Agricultural Library.

TABLE XXX

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR MONTANA STATE
AGRICULTURAL EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station			
	Bulletins		Circulars	
	1940 to 1950	1950 to 1957	1940 to 1950	1950 to 1957
Agronomy	23	10	12	3
Animal Husbandry-				
Veterinary Science	10	7	10	4
Bacteriology	2	1	1	
Botany	1			1
Chemistry	3	4	1	
Dairying	5	3	2	1
Economics (Sociology)	19	7		1
Education				
Engineering	5	5	6	2
Entomology	9	4	2	
Food Technology				
Forestry (Conservation)	2	1		
Horticulture (Pomology)	2	1	2	1
Plant Pathology				
Poultry	1	3		
Zoology	1			

^aAvailable in the University of Tennessee
Agricultural Library.

TABLE XXXI

SERIES AND NUMBERS OF PUBLICATIONS LISTED FOR WASHINGTON STATE AGRICULTURAL
EXPERIMENT STATION AND EXTENSION SERVICE^a

Department	Experiment Station						Extension Service					
	Popular			Technical			Bulletins			Circulars		
	Bulletins			Bulletins			1940 to 1950			1940 to 1950		
	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950	1940 to 1950
Agronomy	25	6	5				7	4	19	12		19
Animal Husbandry-												
Veterinary Science	10	5	2			2	3	3	2			2
Bacteriology												
Botany												
Chemistry												
Dairying	4		1			5	3	1	7	4		1
Economics (Sociology)	50	21	4			2	8	1	21	56		1
Education												
Engineering	4	6	4			5	8	4	5	20		1
Entomology	6	1	1				10	2	4	1		
Food Technology			1									
Forestry (Conservation)	2	2	2			1	1	1	7	1		1
Horticulture (Pomology)	6	10	8				9	4	9	2		2
Plant Pathology	6	4	7				2	3	3	1		
Poultry	7	2				2	26	4	1	3		2
Zoology												

^aAvailable in the University of Tennessee Agricultural Library.