

FORMER STUDENTS' OPINIONS CONCERNING THE  
RELATION OF THEIR COLLEGE TRAINING  
TO THEIR CAREERS

By

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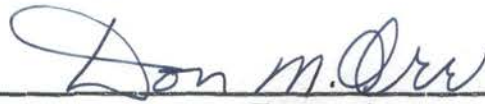
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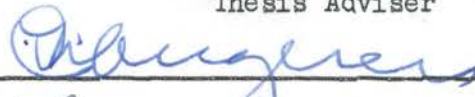
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Thesis Approved:



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## CHAPTER I

### INTRODUCTION

In the last half century Oklahoma State University has trained approximately six thousand young men and women in the science of agriculture and related subjects. Oklahoma State University is proud of their accomplishments which are many. Their work on farms, in industry, and in public services has brought about a new dignity to agriculture and has raised the standard of living, not only for the people of Oklahoma, but for humanity around the world. This is exemplified by the splendid work which graduates of Oklahoma State University are doing in countries such as Pakistan and Ethiopia.

The staff of the College of Agriculture was interested in the opinions of the graduates concerning the relation of their college training to their careers. It was thought that information secured from alumni would be of value in revising curriculums and in counseling and guiding students.

#### Statement of the Problem

The College of Agriculture of the Oklahoma State University is ever conscious of its obligations to its students. To do its best to stay abreast of the ever changing conditions in the field of agriculture, so as to properly advise students as to what they can expect in

their training and in their respective chosen careers, is the College of Agriculture's challenge. With this realization foremost in mind, how can this best be done?

Thus, the alumni were asked to express their opinions by giving first-hand information so as to aid in deciding how much emphasis and revision should be made by the College of Agriculture concerning such items as the changes and amount of emphasis in certain parts of the College curriculum and course work; to determine those factors needed in properly advising students concerning their own curriculum and extra curricular activities; and the proper guidance and help needed in job placement.

#### Purpose of Study

The intent of this study was to ascertain the alumni opinions on such questions as: (1) what factors influenced the former students to prepare for a vocation; (2) what factors determined or contributed to the first employment; and (3) what are their opinions concerning the relation of their training to their career? To seek possible answers to these questions was the purpose of this research project.

#### Procedure

To resolve these questions and problems, a study was formulated and instigated originally by Dr. Randall Jones, Dean of Resident Instruction of the College of Agriculture. The writer was privileged to complete the study after it was planned. The conduct of this study required the following steps:

1. Determining what information was needed.

2. Deciding which method to use in procuring the information needed.
3. Formulating a questionnaire to use after it was decided this would be the best way to secure information.
4. Mailing out questionnaires to all graduates of the College of Agriculture whose addresses were known or could be determined. Approximately 3,000 questionnaires were mailed to all parts of the world. Five hundred and nine responses were used in making this report.
5. An introductory and transmittal letter was formulated and mailed with the questionnaire.\*
6. A follow-up postal card was also mailed to the alumni reminding and encouraging them to return the completed questionnaires.
7. Classifying, compiling, and analyzing the information obtained from the 509 questionnaires received at the time tabulation was started.
8. The author coded the questionnaire and set up an I.B.M. card tabulation system for the project.
9. Certain selected related studies and material were reviewed to discover information useful in the conduct of this study.
10. Final and concluding step consists of formulating and writing up the information received in this research project.

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\*Copies of the questionnaire, transmittal letter and follow-up postal card can be found in the appendix.

## CHAPTER II

### REVIEW OF LITERATURE

The faculty of the College of Agriculture of the Oklahoma State University is vitally concerned about the adequacy of the present curriculum and the guidance given to students training for careers in agriculture. In evaluating the adequacy of the present curriculum or even evaluating revisions made in the curriculum, follow-up studies are necessary.

In commenting about the value of alumni opinions concerning the work of the College of Agriculture, Professor Irving R. Wyeth presented the following opinion:

The instructional program of the School of Agriculture, to be effective must keep abreast the changing science of agriculture, the needs of students, the rapidly developing agricultural industry and the political-economic conditions of our times. The cooperation, support and counsel of the alumni is essential if Michigan State is to provide its students the best possible training for the future.<sup>1</sup>

In reviewing the purposes of a land-grant university such as Oklahoma State University, Dean Davenport stated:

Today, the college or university which is inspired by the land-grant spirit considers itself not simply or mainly as a teaching organization, but as a public service institution, not simply in and for agriculture and engineering but in all the affairs of life.<sup>2</sup>

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<sup>1</sup>Irving R. Wyeth, What the Agricultural Alumni Think, Michigan State College (1953), p. 3.

<sup>2</sup>Eugene Davenport, Address before Association of Land-Grant Colleges and Universities (1931).



The preceding quotation illustrates that the educational program must consist of more than technical training. Even with the best planned technical information to include in the educational program, there is still a missing ingredient. Professor Wilbur R. Meredith, in commenting about success in one's career, stated that, "It cannot be repeated too frequently that the missing ingredient is adequate consideration of the human element."<sup>3</sup>

H. M. Hamlin stated:

The way they manage their relationships in working with others will 'make or break' them. Repeated studies have consistently shown that 90 per cent or more of workers in business and industry who lose their jobs lose them, not because of incompetence in their work, but because of bad relationships with fellow-workers and supervisors. Persons who make their way to the tops of their professions are commonly experts in 'human relationships'.<sup>4</sup>

Lydia Strong reported that 214 top executives indicated that the ability to work with people as the characteristic most important for success in their careers.<sup>5</sup>

Dr. Roy W. Dugger states that "follow-up studies are one of the most important means available in evaluation of any educational program."<sup>6</sup>

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<sup>3</sup>Wilbur R. Meredith, Associate Professor of Engineering Administration Case Institute of Technology, as published in The Journal of Industrial Engineering (August, 1953).

<sup>4</sup>H. M. Hamlin, "Teacher Education," Agricultural Education Magazine (May, 1950).

<sup>5</sup>Lydia Strong, "Man and Manager: An Executive Profile," The Management Review (Oct., 1956), p. 871.

<sup>6</sup>Roy W. Dugger, as reported by Bill Whitt in "Opinions Expressed By Agricultural Education Graduates Regarding the Adequacy of the Agricultural Education Curriculum at the Oklahoma Agricultural and Mechanical College" (unpub. Master's thesis, Oklahoma State University, 1957).

Holman presents the thought that "follow-up studies have a tremendous effect upon education, for it serves as an opening wedge for continuous faculty study and improvement in education."<sup>7</sup>

Thus, we see the need for follow-up studies in determining the effectiveness of our present curriculum, guidance, and job placement program; as well as the need for future changes to keep pace with the rapidly developing agricultural industry and economic conditions of our time.

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<sup>7</sup>W. Holman and R. J. Young, "Follow-up: New Variety," Clearing House (January, 1954), p. 296.

## CHAPTER III

### PRESENTATION AND ANALYSIS OF DATA

Data presented in this chapter were obtained from questionnaires which were mailed to 3,000 agricultural alumni whose addresses were known. Some 509 questionnaires were returned by the time final tabulation had been started on this report.

Tables I through III show the alumni opinions concerning the factors which influenced them in preparing for a vocation. Tables IV through IX present the graduates' indications of the factors which determined or contributed to their first employment. Tables X through XXII present opinions concerning the relation of training to the careers of the alumni.

#### Factors Which Influenced Former Students to Prepare for a Vocation

Time of decision to enter present occupation. Table I shows the approximate time at which former students decided to enter their present occupation. Of the 509 alumni who returned questionnaires, only 71 failed to indicate the approximate time of deciding when they would enter their present occupation. As the table shows, 111 or 20.8 per cent decided to enter their present occupation previous to college entrance, while 15.4 per cent selected an occupation after military service. A large number of the group indicated other periods at which

time decisions were reached as shown by the 19.9 per cent. The smallest number of decisions concerning occupational choice were made during the first year of college. This represented only 6.2 per cent of the group. Poultry majors constituted the largest number of the group choosing occupation previous to college entrance. This was indicated in the tabulation but is not shown in Table I. They comprised 42 per cent of the total or 20.8 per cent by the group as a whole. The agricultural economics majors comprised the lowest percentage, or 14 per cent of the group who made occupational choices previous to enrolling in college.

TABLE I  
APPROXIMATE TIME AT WHICH FORMER STUDENTS DECIDED TO  
ENTER THEIR PRESENT OCCUPATIONS

Approximate time of deciding to enter present occupation	Responses	
	Number	Per cent
Previous to college entrance	111	20.8
After military service	82	15.4
During fourth year in college	62	11.6
Immediately after graduation	55	10.3
During third year in college	39	7.3
During second year in college	34	6.4
During first year in college	33	6.2
Miscellaneous indications	106	19.9
No time given	11	2.1

The reason for the total of 533 choices is that some indicated more than one choice, while there were others who indicated no time of making a choice of occupation.

No one time seems to stand out much more prominently than another for students or prospective students to decide on the occupations they will enter. A significant number, however, indicated that they had made a choice of occupation previous to entering college. This would suggest the importance of home background and other factors.

Factors that influenced former students in making career selections.

Table II indicates that the most influential factors determining career selection were natural aptitude and liking for the type of work. This comprised 30.1 per cent of the total group, while college advisors were indicated as influencing only 3.5 per cent of the group. Available positions in the field was next in line with 13.8 per cent by the total group. Graduates of the animal husbandry department made up the largest part of the group indicating natural aptitude and interest as the determining factors. They comprised 40 per cent of the 153 persons reporting these factors. Parents had much less influence on their children than one might suspect, unless it might be a hidden factor not revealing itself. In this survey, parents ranked sixth in importance among the ten factors listed as influencing students in choosing careers. Only 6.9 per cent of the alumni reported parental influence compared to 30.1 per cent reporting natural aptitude and liking for the work. Relatives, college advisors, and college teachers were reported as having relatively small influence on the choice of occupations by the respondents.

TABLE II  
FACTORS THAT INFLUENCED FORMER STUDENTS IN MAKING CAREER SELECTIONS

Factors that Influenced Career Selection	Number and per cent* of Department Graduates																	
	Agricultural Economics		Horticulture		Poultry Science		Agricultural Engineering		Dairy Science		Animal Husbandry		Agronomy		Agricultural Education		Total	
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent
Natural aptitude and liking for type of work	30	22.9	24	38.1	18	36.0	15	30.0	19	29.2	20	40.0	18	36.0	9	18.0	153	30.1
Availability of positions in field	19	14.5	10	15.9	5	10.0	9	18.0	6	9.2	8	16.0	9	18.0	4	8.0	70	13.8
Experience while attending college	23	17.6	6	9.5	9	18.0	5	10.0	11	16.9	6	12.0	5	10.0	3	6.0	68	13.4
Counsel and influence of elementary school teacher, county extension, or high school teacher	9	6.9	4	6.3	6	12.0	5	10.0	5	7.7	4	8.0	1	2.0	14	28.0	48	9.4
Experience in the field	16	12.2	4	6.3	2	4.0	1	2.0	6	9.2	5	10.0	1	2.0	4	8.0	39	7.7
Parents' desires, approval and/or encouragement	3	2.3	4	6.3	1	2.0	7	14.0	4	6.2	5	10.0	6	12.0	5	10.0	35	6.9
Experiences while attending high school	6	4.6	3	4.8	1	2.0	1	2.0	1	2.0	3	4.6	1	2.0	7	14.0	23	4.5
Counsel and influence by college teacher	7	5.3	1	1.6	2	4.0	2	4.0	4	6.2	0	0.0	2	4.0	3	6.0	21	4.5
Counsel and influence of college advisor or counselor	7	5.3	3	4.8	4	8.0	2	4.0	1	1.6	0	0.0	1	2.0	0	0.0	18	3.5
Counsel and influence of close relatives	6	4.6	1	1.6	1	2.0	2	4.0	3	4.6	0	0.0	2	4.0	1	2.0	16	3.1
No factors indicated	5	3.8	3	5.8	1	2.0	1	2.0	3	4.6	1	2.0	4	8.0	0	0.0	18	3.5
Number Replying	131		63		50		50		65		50		50		50		509	100.0

Availability of positions was reported by 13.8 per cent of the alumni as influencing their choice of careers and 13.4 per cent reported that experiences while in college were the determining factors in deciding upon a vocation.

Items or persons that gave assistance in making decisions regarding career while alumni were in college. Table III shows that

TABLE III

ITEMS OR PERSONS THAT GAVE ASSISTANCE IN MAKING DECISIONS REGARDING  
CAREER WHILE ALUMNI WERE IN COLLEGE

Items or persons who assisted	Relative importance of assistance					
	First importance		Second importance		Third importance	
	Number	Per cent	Number	Per cent	Number	Per cent
College instructor or instructors	173	34.0	103	20.2	55	10.8
Part-time employ- ment experiences	81	15.9	98	19.3	72	14.1
Personal advisor or counselor	80	15.7	58	11.4	50	9.8
A particular course	40	7.9	52	10.2	69	13.6
Student associations or student contacts	40	7.9	60	11.8	71	13.9
Aptitude tests	17	3.3	10	1.9	19	3.7
Orientation course	7	1.4	1	0.2	3	0.6
Experiences in stu- dent organizations	4	0.8	33	6.5	29	5.8
None of these	1	0.2	0	0.0	0	0.0
No choice indicated	<u>66</u>	<u>12.9</u>	<u>94</u>	<u>18.4</u>	<u>141</u>	<u>27.7</u>
Totals	509		509		509	

34 per cent of the cooperating alumni indicated that college instructors ranked first in importance of sources of help, while in college in deciding on a career. This type of help was also ranked as being of second importance by 20.2 per cent of the respondents. A personal advisor or personal counselor was ranked of first importance by 15.7 per cent and a particular course was ranked of first importance by 7.9 per cent of the reporting alumni. These factors tend to emphasize the strong influence of college staff in helping college students select vocations. Aptitude tests and orientation courses were of minor importance to this group of alumni. This maybe due to the fact that orientation courses and aptitude tests have been given only during the past five years. Part-time employment while in college was of enough importance to be listed of first importance by 15.9 per cent of the group reporting.

Factors that Determined or Contributed to First  
Employment of 509 Alumni

The most important contacts that led to first employment of agricultural alumni. Table IV shows that 24.1 per cent of the alumni reported that the most important contacts that led to their first employment were made on their own initiative. The major department and major advisor were reported by 17.6 per cent and 10.4 per cent respectively as the most important contacts leading to first employment. A total of 35.9 per cent of the alumni reported that the major department, major advisor or other college staff member provided the most important contacts that led to their first employment. Not many of the College of Agriculture graduates have made use of the college placement bureau.



TABLE IV  
THE MOST IMPORTANT CONTACTS THAT LED TO FIRST EMPLOYMENT  
OF AGRICULTURAL ALUMNI

Contacts that led to the first employment of 509 alumni	Alumni response	
	Number	Per cent
Contacts made on own initiative	245	24.1
Major department	179	17.6
Major advisor	106	10.4
Interviews with personnel men	80	7.9
Other college staff members	74	7.3
Students and friends	58	5.7
Other than these	47	4.6
Parents or close relatives	42	4.1
College placement bureau	21	2.0
No answer given	<u>166</u>	16.3
Total	1,018	

A further analysis of responses concerning contacts leading to the first employment of alumni, but not reported in any table, indicates a high percentage of the respondents felt that they secured their first employment on their own initiative.

Importance of success in first job to present career as reported by agricultural alumni.

Table V shows that 60 per cent of the agricultural education alumni compared to 32.0 per cent of the agricultural engineering alumni indicated that success on the first job was very important to the success

in their present careers. The importance of success on the first job is emphasized when the columns headed "very important" and "important" in Table V are added together by major departments. When this is done, the lowest percentage is 69.9 per cent (horticulture majors) indicating that success on the first job was either very important or important to success in their present careers. Forty-four per cent, or 227 of the total 509 alumni reporting, indicated that success in the first job was important to their present career.

The former students indicating that the success of their first job was not important to their present career was the poultry science alumni reporting 14.0 per cent, compared to a low of 4.0 per cent as reported by the agricultural education alumni. Almost 16.0 per cent of the horticulture alumni indicated that there was no relationship between the success of their first job to their present career, compared to a low of 4.0 per cent reported by the agronomy alumni concerning the same relationship.

TABLE V

IMPORTANCE OF SUCCESS IN FIRST JOB TO PRESENT CAREER REPORTED BY AGRICULTURAL ALUMNI

Major Department	Very Important		Important		Not Important		No Relationship		No Indication		Total Number Replying
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	
Agricultural education	30	60.0	13	26.0	2	4.0	5	10.0			50
Dairy science	31	47.7	13	20.0	8	12.3	5	7.7	8	12.3	65
Poultry science	23	46.0	13	26.0	7	14.0	5	10.0	2	4.0	50
Agricultural economics	60	45.8	44	33.6	13	9.9	8	6.1	6	4.6	131
Agronomy	22	44.0	17	34.0	4	8.0	2	4.0	5	10.0	50
Horticulture	27	42.9	17	27.0	6	9.5	10	15.8	3	4.8	63
Animal husbandry	18	36.0	19	38.0	6	12.0	4	8.0	3	6.0	50
Agricultural engineering	16	32.0	19	38.0	5	10.0	8	16.0	2	4.0	50
Totals	227	44.6	155	30.5	51	10.0	47	9.2	29	5.7	509

Reasons given for making changes in occupations reported by 419 alumni. In Table VI, 419 reasons were given on the 509 questionnaires

TABLE VI  
REASONS GIVEN FOR MAKING CHANGES IN OCCUPATIONS REPORTED  
BY 419 ALUMNI

Reasons given for making changes in occupations	Alumni indicating	
	Number	Per cent
Salary increase	110	26.2
Work more to my liking	97	23.2
Better opportunity for advancement	95	22.7
Better working conditions	47	11.2
Improved retirement benefits	17	4.1
Personal or family health	16	3.8
Improved living conditions	13	3.1
Other reasons than these	<u>24</u>	<u>5.7</u>
Totals	419	100.0

received. Approximately 26.2 per cent gave salary increase as the reason for a change in occupation compared to 3.1 per cent indicating improved living conditions as the reason for making changes in occupations. Work more to my liking was the second highest reason given with 23.2 per cent giving this reason. In reviewing data not listed in the table, it was noted that 34.0 per cent of the animal husbandry alumni listed salary increase as the largest single factor causing them to make changes in occupations. Second to the animal husbandry alumni in signifying salary increase as the most important factor in changing

occupations, 26.0 per cent of the dairy majors listed the same reason. It would seem that salary increase and improved living conditions would go hand in hand, but this table does not bear this out. Improved living conditions was listed at the bottom of the list with only 3.1 per cent. Reasons for making changes in occupations were about equally divided among the following: salary increase; work more to my liking; and better opportunity for advancement. Seventy per cent of the responses was in these categories.

Number of alumni expressing interest in changing their fields of work. In Table VII, it is noticed that the agricultural education

TABLE VII

## NUMBER OF ALUMNI EXPRESSING INTEREST IN CHANGING THEIR FIELDS OF WORK

Major departments expressing interest in changing fields of work	Number questionnaires returned	Alumni desiring change	
		Number	Per cent*
Agricultural education	50	18	36.0
Horticulture	63	14	22.2
Agronomy	50	11	22.0
Poultry science	50	8	16.0
Animal husbandry	50	8	16.0
Agricultural economics	131	18	13.6
Agricultural engineering	50	5	10.0
Dairy	<u>65</u>	<u>6</u>	<u>9.2</u>
Totals	509	88	100.0

\*Percentage based only on the number questionnaires returned by graduates of each major department.

alumni constituted the group with the greatest interest in changing the field of work. Thirty-six per cent of this group desired a change. In this data concerning reasons for making changes in work, the agricultural education alumni gave two reasons: first, salary increases followed closely by the desire for work more to their liking. The alumni group which seemed to be the most contented with its present field of work was the dairy group, followed by agricultural engineering, agricultural economics, animal husbandry, poultry science, agronomy, and horticulture, in the order listed. It should be pointed out also that only approximately 17.3 per cent of the total group indicated an interest in changing the field of work.

Reasons given for desiring a change from field of work as indicated by 88 alumni. In Table VIII only 88 alumni, or 15.3 per cent, indicated that they were interested in changing their fields of work. The alumni group signifying the largest interest in changing were the agricultural education majors with 14.0 per cent, indicating salary increase as the reason for desiring changes. The groups indicating the least interest in changing their fields of work were the agricultural engineering and the dairy alumni with a low of approximately 10.0 per cent signifying a desire for change in their field of work. Concerning the item of improved retirement benefits, only one person indicated this as the reason for a change in the field of work.

TABLE VIII

REASONS GIVEN FOR DESIRING A CHANGE FROM FIELD OF WORK INDICATED BY 88 ALUMNI

Reasons	Number and per cent* of Department Graduates																Total times each reason listed
	Agricultural Education		Horticulture		Poultry Science		Agricultural Engineering		Dairy Science		Animal Husbandry		Agronomy		Agricultural Economics		
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	
Salary increase	7	14.0	6	9.5	6	12.0	0	0.0	1	1.5	5	10.0	3	6.0	5	3.8	33
Work more to my liking	4	8.0	1	1.6	0	0.0	2	4.0	2	3.0	1	2.0	4	8.0	6	4.6	20
Improved advancement opportunities	3	6.0	5	7.9	1	2.0	1	2.0	3	4.6	0	0.0	3	6.0	2	1.5	18
Better working conditions	1	2.0	1	1.6	0	0.0	0	0.0	0	0.0	1	2.0	1	2.0	1	0.8	5
Personal or family health	2	4.0	0	0.0	0	0.0	1	2.0	0	0.0	1	2.0	0	0.0	1	0.8	5
Improved retirement benefits	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1
Other than these	0	0.0	1	1.6	1	2.0	1	2.0	0	0.0	0	0.0	0	0.0	3	2.3	6
Totals	18	36.0	14	22.2	8	16.0	5	10.0	6	9.1	8	16.0	11	24.0	18	13.8	88
*Total questionnaires returned by each department	50		63		50		50		65		50		50		131		

Careers that 509 alumni indicated they would recommend to their 18-year-old sons entering college. Table IX shows that 25.9 per cent

TABLE IX

CAREERS THAT 509 ALUMNI INDICATED THEY WOULD RECOMMEND TO THEIR  
18 YEAR-OLD SONS ENTERING COLLEGE

Recommendations	Alumni response	
	Number	Per cent
His own choice and interest	106	20.8
College of Engineering	86	16.9
College of Medicine	56	11.0
Science major	44	8.6
College of Agriculture*	39	7.6
Agricultural engineering	30	5.9
College of Business	27	5.3
Agricultural economics	20	3.9
College of Veterinary Medicine	14	2.7
Physics major	8	1.6
College of Arts and Science	7	1.4
Agricultural education	6	1.2
Animal husbandry	5	1.0
College of Education	4	0.8
Horticulture	4	0.8
Ministry	4	0.8
Law school	4	0.8
Agricultural chemistry	2	0.4
Agronomy	2	0.4



TABLE IX (Cont'd)

Poultry science	2	0.4
Statistician	2	0.4
Chemistry	2	0.4
Agriculture research	1	0.2
Agricultural journalism	1	0.2
Dairy	1	0.2
Home economics	1	0.2
Agriculture business	1	0.2
Armed services	1	0.2
Agricultural law	1	0.2
Foreign services	1	0.2
Not agriculture	1	0.2
No indication	26	5.1

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\*132, or 25.9 per cent, recommended some major in the College of Agriculture.

of the 509 agriculture alumni would recommend some major in the College of Agriculture for their sons. One hundred nine or 20.8 per cent of the 509 alumni indicated that they would leave the decision to their sons. Seventeen per cent of the agricultural alumni indicated that they would recommend a major in the field of engineering and 11.0 per cent indicated that they would recommend medicine as a career field for their sons.

Preparation for ministry, law school, foreign service, and various other recommendations were listed. There were 31 different majors recommended by the group as a whole. It is interesting to note in some of the data not listed in Table IX that one father with a net profit of \$23,000

for the previous year's farming operation recommended any major other than agriculture.

Due to amount of space which would have been required to present these recommendations by alumni, it was not set up in table form. The more interesting facts, however, will be covered in the following paragraphs.

Only 25.9 per cent of the total alumni recommended that their son major in some field of agriculture. Agricultural education majors ranked the highest of the different departments with 48.0 per cent of its alumni recommending some major in the College of Agriculture. Animal husbandry majors were next in line with 44.0 per cent recommending a major in agriculture. They were followed respectively by:

Agricultural engineering alumni	32.0 per cent
Agronomy alumni	28.0 per cent
Agriculture economics alumni	24.5 per cent
Poultry alumni	24.0 per cent
Dairy alumni	18.5 per cent
Horticulture alumni	14.2 per cent

In data not possible to include in Table IX, the agricultural engineering alumni led all other groups in recommending to their sons the same training they had received.

The alumni who recommended that they would recommend that their sons would major in the same field in which they majored were as follows:

Agricultural engineering alumni	28.0 per cent
Agricultural education alumni	12.0 per cent
Agriculture economics alumni	10.7 per cent
Horticulture alumni	6.4 per cent
Dairy alumni	0.0 per cent

It might be unfair not to point out that some of these alumni might have and did recommend some major in agriculture even though they did not specifically recommend their own major.

Present occupation of agricultural alumni in relation to their major courses of study while in college. It may be noted in Table X that the

TABLE X

PRESENT OCCUPATION OF AGRICULTURAL ALUMNI IN RELATION TO THEIR MAJOR COURSES OF STUDY WHILE IN COLLEGE

Major course of study	Is present occupation same as your major course of study							
	Yes		No		To a degree		No indication	
	Num-ber	Per-cent*	Num-ber	Per-cent*	Num-ber	Per-cent*	Num-ber	Per-cent*
Agricultural engineering	34	68.0	8	16.0	8	16.0		
Agricultural education	32	64.0	4	8.0	14	28.0		
Poultry science	30	60.0	6	12.0	14	28.0		
Agronomy	30	60.0	6	12.0	12	24.0	2	4.0
Dairy	35	53.9	14	21.5	16	24.6		
Agricultural economics	63	48.1	28	21.4	39	29.7	1	0.8
Animal husbandry	23	46.0	9	18.0	18	36.0		
Horticulture	<u>28</u>	44.5	<u>15</u>	23.8	<u>20</u>	31.7	<u>    </u>	
Totals	275		90		141		3	

\*Percentage based on number questionnaires returned by each department: agricultural economics 131; horticulture 63; poultry science 50; agricultural engineering 50; dairy 65; animal husbandry 50; agronomy 50; and agricultural education 50.

alumni of the agricultural engineering and agricultural education departments indicated the highest percentages still in occupations similar to their major courses of study. Sixty-eight per cent and sixty-four

per cent respectively indicated this situation. Twenty-three per cent of the horticulture alumni indicated they were not in an occupation which was the same as their major study while in college. It is interesting to note that approximately one-fourth to one-third of the total alumni indicated that they were in occupations related to a degree with their college training.

Opinions expressed concerning the adequacy of major courses of study as preparation for the present occupations of agricultural alumni.

In Table XI it is interesting to note that as a whole the alumni expressed satisfaction that their major course of study prepared them for their present occupation, at least to a degree. It is noticed that the agricultural education graduates topped the list with 72.0 per cent indicating "yes" that their major course of study prepared them for their present occupation and 22.0 per cent of the rest of the group expressed that they had been prepared to a degree, leaving only 4.0 per cent indicating "no" and 2.0 per cent giving no indications. The smallest indication of satisfaction with their training for present occupations was by the animal husbandry alumni. Forty per cent indicated "yes", 48.0 per cent indicated satisfaction to a degree, and 12.0 per cent indicated "no" that in their opinion their major course of study had not prepared them for their present occupation.

TABLE XI

OPINIONS EXPRESSED CONCERNING THE ADEQUACY OF THEIR MAJOR COURSES OF STUDY AS  
PREPARATION FOR THE PRESENT OCCUPATIONS OF AGRICULTURAL ALUMNI

Major Course of Study	Number of Questionnaires Returned	Yes		To a Degree		No		No Indication	
		Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Agricultural education	50	36	72.0	11	22.0	2	4.0	1	2.0
Agricultural engineering	50	31	62.0	16	32.0	3	6.0		
Poultry science	50	28	56.0	18	36.0	4	8.0		
Agricultural economics	131	70	53.4	53	40.5	7	5.3	1	0.8
Dairy science	65	33	50.8	26	40.0	6	9.2		
Agronomy	50	25	50.0	19	38.0	4	8.0	2	4.0
Horticulture	63	29	46.0	26	41.3	7	11.1	1	1.6
Animal husbandry	50	20	40.0	24	48.0	6	12.0		

Opinions expressed by alumni as to whether other courses of study would have been equally satisfactory in preparing them for their present occupations. Table XII indicates that 39.7 per cent of the horticulture alumni were of the opinion other courses of study would have been equally as satisfactory in preparing them for their present occupations. Graduates of other departments indicating the same opinion were: dairy alumni 35.4 per cent; animal husbandry alumni 34.0; agronomy alumni 32.0; agricultural economics alumni 31.3; poultry science alumni 26.0; and agricultural education 24.0. Only 18 per cent of the agricultural engineering alumni were of the opinion that other sources would have been of equal value to them. The alumni who specifically indicated that other courses would not be equally valuable were agricultural education majors, 64.0 per cent, compared to 30.2 per cent of the horticulture majors who indicated the same opinion.

TABLE XII

OPINIONS EXPRESSED BY ALUMNI AS TO WHETHER OTHER COURSES OF STUDY WOULD HAVE BEEN  
EQUALLY SATISFACTORY IN PREPARING THEM FOR THEIR PRESENT OCCUPATIONS

Major Course of Study	Number of Questionnaires Returned	Yes		No		Partially So		No Indication	
		Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Horticulture	63	25	39.7	19	30.2	16	25.4	3	4.7
Dairy science	65	23	35.4	22	33.8	19	29.2	1	1.6
Animal husbandry	50	17	34.0	21	42.0	12	24.0		
Agronomy	50	16	32.0	23	46.0	9	18.0	2	4.0
Agricultural economics	131	41	31.3	57	43.5	31	23.7	2	1.5
Poultry science	50	13	26.0	24	48.0	13	26.0		
Agricultural education	50	12	24.0	32	64.0	6	12.0		
Agricultural engineering	50	9	18.0	25	50.0	16	32.0		

Choice of additional courses or fields of study that alumni felt might have been helpful in their present occupations. Table XIII shows that some alumni of all departments indicated interest in more technical training in their major fields. From 20 to 38 per cent of the alumni of agricultural engineering, agricultural education, horticulture, dairying, animal husbandry, and agricultural economics indicated an interest in more technical training in their major fields.

From 20 to 38 per cent of the alumni indicated interest in more technical subjects in areas closely related to their major fields of study. Twenty to 24.0 per cent of the alumni in poultry, agronomy, and horticulture indicated a need for more training in physical or biological science. The three alumni groups indicating strongest desire for more subjects dealing with group action were agricultural economics, 21.4 per cent; agronomy 18.0; and agricultural education majors with 16.0 per cent.



TABLE XIII

## CHOICE OF ADDITIONAL COURSES OR FIELDS OF STUDY THAT ALUMNI FELT MIGHT HAVE BEEN HELPFUL IN THEIR PRESENT OCCUPATIONS

Fields of Study	Agricultural Engineering		Agricultural Education		Dairy		Animal Husbandry		Agricultural Economics		Horticulture		Poultry		Agronomy	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
Include more technical work in their major field	19	38.0	13	26.0	16	24.6	11	22.0	28	21.4	13	20.7	9	18.0	5	10.0
Include more technical subjects in areas closely related to major field of study	16	32.0	19	38.0	15	23.1	13	26.0	27	20.6	17	27.0	10	20.0	12	24.0
Include more work in biological & physical sciences	2	4.0	4	8.0	5	7.7	4	8.0	4	3.1	13	20.6	12	24.0	11	22.0
Include more work in social sciences	2	4.0	4	8.0	5	7.7	5	10.0	26	19.8	7	11.1	4	8.0	2	4.0
Include more work in subjects dealing with group action	4	8.0	8	16.0	10	15.4	5	10.0	28	21.4	4	6.3	5	10.0	9	18.0
Other specific course	4	8.0	2	4.0	12	18.4	9	18.0	13	9.9	6	9.5	5	10.0	6	12.0
No indications	3	6.0	0	0.0	2	3.1	3	6.0	5	3.8	3	4.8	5	10.0	5	10.0
Totals	50		50		65		50		131		63		50		50	

Opinions expressed by alumni regarding emphasis which should be placed on English. Fifty-two to 64 per cent of the horticulture, poultry, agronomy, animal husbandry, dairy science, and agricultural economics graduates indicated a desire for more emphasis on English. From 33.9 per cent to 54.0 of all the graduates indicated that they were satisfied with the emphasis on English as it was taught to them.

The alumni group expressing the strongest desire for less emphasis on English was the animal husbandry graduates with 6.0 per cent. These data are presented in Table XIV.

TABLE XIV

OPINIONS EXPRESSED BY ALUMNI REGARDING EMPHASIS WHICH SHOULD BE PLACED ON ENGLISH

Major departments' graduates	Emphasis which should be placed on English								Number questionnaires returned
	More		Less		Same		No indic.		
	Num-ber	Per Cent	Num-ber	Per cent	Num-ber	Per cent	Num-ber	Per cent	
Agricultural economics	84	64.1	0	0.0	45	34.4	2	1.5	131
Dairy science	41	63.1	1	1.5	22	33.9	1	1.5	65
Animal husbandry	29	58.0	3	6.0	17	34.0	1	2.0	50
Agronomy	27	54.0	1	2.0	18	36.0	4	8.0	50
Poultry	27	54.0	1	2.0	21	42.0	1	2.0	50
Horticulture	33	52.4	2	3.2	27	42.8	1	1.6	63
Agricultural education	23	46.0	2	4.0	25	50.0	0	0.0	50
Agricultural engineering	20	40.0	1	2.0	27	54.0	2	4.0	

Expression of opinion by alumni regarding emphasis which should be placed on speech. Table XV shows that all alumni of all departments indicated strong interest for more emphasis on speech. In fact, 76.0 per cent to 93.8 per cent of all department graduates indicated this interest. The high was dairy science alumni with 93.8 per cent and the low was agronomy alumni with 76.0 per cent. One hundred per cent of both the dairy science and agricultural education alumni indicated at least the same, if not more, emphasis on speech. A large percentage of the entire alumni indicated a need for more training in speech by writing notes on their questionnaire in connection with this particular question.

TABLE XV

## EXPRESSION OF OPINIONS BY ALUMNI REGARDING EMPHASIS WHICH SHOULD BE PLACED ON SPEECH

Major Department Graduates	More		Less		Same		No opinion Given		Number Question- naires returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Dairy science	61	93.8			4	6.2			65
Animal husbandry	44	88.0	2	4.0	3	6.0	1	2.0	50
Poultry science	42	84.0			7	14.0	1	2.0	50
Agricultural economics	105	80.2			22	16.8	4	3.0	131
Agricultural engineering	40	80.0			9	18.0	1	2.0	50
Agricultural education	39	78.0			11	22.0			50
Horticulture	49	77.8	1	1.6	12	19.0	1	1.6	63
Agronomy	38	76.0	1	2.0	10	20.0	1	2.0	50

Expression of opinions by alumni regarding emphasis which should be placed on journalism. Table XVI shows that the agricultural education majors indicated the strongest desire for more emphasis to be placed on journalism. Sixty per cent of this same group indicated more emphasis on journalism. Thirty-eight per cent indicated same emphasis as their training had required. Fifty-five per cent of the dairy majors indicated that they were satisfied with the same emphasis, while 3.1 per cent indicated a desire for less emphasis and 38.5 per cent of this same group indicated they would like to see more emphasis placed on journalism. The agronomy alumni indicated the strongest desire for less emphasis on journalism with 8.0 per cent.

TABLE XVI

EXPRESSION OF OPINIONS BY ALUMNI REGARDING EMPHASIS WHICH SHOULD BE PLACED ON JOURNALISM

Major Department Graduates	More		Less		Same		No Opinion Given		Number Question- naires Returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Agricultural education	30	60.0			19	38.0	1	2.0	50
Poultry science	28	56.0	2	4.0	20	40.0			50
Agricultural engineering	26	52.0			20	40.0			50
Agricultural economics	64	48.8	5	3.8	58	44.3	4	3.1	131
Horticulture	30	47.6	1	1.6	27	42.9	5	7.9	63
Agronomy	23	46.0	4	8.0	18	36.0	5	10.0	50
Animal husbandry	22	44.0	3	6.0	24	48.0	1	2.0	50
Dairy science	25	38.5	2	3.1	36	55.3	2	3.1	65

Expression of opinion by alumni regarding emphasis which should be placed on mathematics. Table XVII shows that well over half, or 52.0 to 70.8 per cent, of all the alumni from all departments, with the exception of the agricultural engineering group, were in favor of more emphasis being placed on mathematics. Seventy per cent of the dairy alumni indicated more emphasis should be placed on mathematics and 23.1 per cent thought it should receive about the same emphasis as it was given while they were in college. Only three individuals indicated that less emphasis should be placed on each.

TABLE XVII

EXPRESSION OF OPINIONS BY ALUMNI REGARDING EMPHASIS WHICH SHOULD BE PLACED ON MATHEMATICS

Major Department Graduates	More		Less		Same		No Opinion Given		Number Question- naires Returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Dairy science	46	70.8			15	23.1	4	6.1	65
Agronomy	34	68.0			13	26.0	3	6.0	50
Horticulture	42	66.7	1	1.6	18	28.6	2	3.1	63
Agricultural economics	82	62.6	1	0.8	47	35.8	1	0.8	131
Poultry science	31	62.0	1	2.0	17	34.0	1	2.0	50
Animal husbandry	27	54.0			19	38.0	4	8.0	50
Agricultural education	26	52.0			24	48.0			50
Agricultural engineering	24	48.0			25	50.0	1	2.0	50



Effectiveness of courses taken in the major field of study as preparation for present employment. In Table XVIII, 22.0 per cent to 48.0 per cent of all alumni indicated that their major field of study was very effective in preparing them for their present employment. Forty-eight to 68.0 per cent of all alumni indicated that their major course of study was effective in preparing them for their present employment.

Ninety-eight per cent of the agricultural engineering alumni and 94.0 per cent of the agricultural education alumni indicated that their courses taken in the major field of study had either been very effective or effective in preparing them for their present occupation. Twelve per cent of the animal husbandry alumni and 12.0 per cent of the poultry science group indicated that their major field of study was ineffective in preparing them for their present employment.

TABLE XVIII

EFFECTIVENESS OF COURSES TAKEN IN THE MAJOR FIELD OF STUDY AS PREPARATION FOR  
PRESENT EMPLOYMENT

Major Department Graduates	<u>Very Effective</u>		<u>Effective</u>		<u>Ineffective</u>		<u>No Opinion Given</u>		Number of Question- naires Returned
	Number	: Per cent	Number	: Per cent	Number	: Per cent	Number	: Per cent	
Agricultural engineering	24	48.0	24	48.0	2	4.0			50
Animal husbandry	22	44.0	22	44.0	6	12.0			50
Agricultural education	20	40.0	27	54.0	2	4.0	1	2.0	50
Dairy science	26	40.0	34	52.3	5	7.7			65
Poultry science	16	32.0	27	54.0	6	12.0	1	2.0	50
Horticulture	19	30.2	37	58.7	5	7.9	2	3.2	63
Agricultural economics	37	28.2	79	60.3	14	10.7	1	0.8	131
Agronomy	11	22.0	34	68.0	3	6.0	2	4.0	50

Effectiveness of courses taken in the major field of study as preparation for working with others. Table XIX indicates that 32.0 per cent of the alumni of the agricultural education department felt that courses taken in their major field of study were very effective in preparing them for working with others, but only 10.0 per cent of the agronomy and agricultural engineering alumni were of the same opinion about courses in their major fields. The percentage of alumni who felt that their courses of study were ineffective in preparing them for working with others were: agricultural engineering, 38.0 per cent; horticulture 33.3; agronomy 32.0; animal husbandry 24.0; dairy science 23.1; agricultural economics 22.2; and poultry science 14.0 per cent. Only 10.0 per cent of the agricultural education alumni were of the opinion that their major field of study did not prepare them for working with others.

TABLE XIX

## EFFECTIVENESS OF COURSES TAKEN IN THE MAJOR FIELD OF STUDY AS PREPARATION FOR WORKING WITH OTHERS

Major Department Graduates	<u>Very Effective</u>		<u>Effective</u>		<u>Ineffective</u>		<u>No opinion Given</u>		Number Question- naires returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Agricultural education	16	32.0	28	56.0	5	10.0	1	2.0	50
Animal husbandry	14	28.0	24	48.0	12	24.0			50
Dairy science	17	26.2	32	49.2	15	23.1	1	1.5	65
Agricultural economics	32	24.4	68	51.9	29	22.2	2	1.5	131
Horticulture	9	14.3	30	47.6	21	33.3	3	4.8	63
Poultry science	6	12.0	35	70.0	7	14.0	2	4.0	50
Agricultural engineering	5	10.0	25	50.0	19	38.0	1	2.0	50
Agronomy	5	10.0	27	54.0	16	32.0	2	4.0	50

Opinions concerning the helpfulness of training received in securing their first jobs after graduation. Table XX shows that 66.0 per cent to 92.1 per cent of all alumni indicated that their training was helpful in securing their first job after graduation. Ninety-eight per cent and 95.4 per cent, respectively, of the poultry science and dairy science alumni indicated that their training was either definitely helpful or helpful to a degree in securing their first employment after graduation.

The average for the entire group for expressing favorable opinions in that their training was helpful in securing their first jobs was 81.7 per cent. Eleven per cent of the horticulture alumni and 18.0 per cent of the animal husbandry alumni indicated that their training was not helpful in securing their first employment after graduation.

TABLE XX

## OPINIONS CONCERNING THE HELPFULNESS OF TRAINING RECEIVED IN SECURING THEIR FIRST JOB AFTER GRADUATION

Major Department Graduates	Yes		No		To a Degree		No Indication		Number Question- naires Returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Poultry science	46	92.0	1	2.0	3	6.0			50
Agricultural engineering	44	88.0	1	2.0	3	6.0	2	4.0	50
Dairy science	56	86.2	2	3.1	6	9.2	1	1.5	65
Agronomy	42	84.0	1	2.0	3	6.0	4	8.0	50
Agricultural education	41	82.0	3	6.0	5	10.0	1	2.0	50
Agricultural economics	102	77.9	13	9.9	15	11.5	1	0.7	131
Horticulture	49	77.8	7	11.1	6	9.5	1	1.6	63
Animal husbandry	33	66.0	9	18.0	6	12.0	2	4.0	50

Items of training most helpful to alumni in securing their first jobs after graduation. Table XXI shows that 58.0 per cent of the agricultural education alumni indicated that the college degree was the most helpful item in securing their first employment after graduation. Twenty-four to 44.0 per cent of the rest of the alumni indicated also that the college degree was the most helpful item in securing their first employment after graduation.

Only 26.0 per cent of the animal husbandry and 24.0 per cent of the poultry science alumni indicated that the college degree was the most helpful factor in securing their first employment after graduation. Forty-eight per cent of the poultry science alumni stood out among the alumni groups, as indicating that specialized training in their major field of study was the most helpful item in securing their first job. Sixty-four per cent of the horticulture alumni indicated that the college degree and their broad training in agriculture were equally important to them in securing their first jobs. Sixteen per cent and 15.4 per cent, respectively, of the agronomy and dairy science alumni indicated that both broad and specialized training were the most helpful items in securing their first jobs after graduation.

TABLE XXI

## ITEMS OF TRAINING MOST HELPFUL TO ALUMNI IN SECURING THEIR FIRST JOBS AFTER GRADUATION

Major Department Graduates	College Degree		Broad Training in Agriculture		Specialized Training in Major Field		Both Broad and Specialized Training		Other Than These		No Indication		Number of Questionnaires Returned
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	
Agricultural education	29	58.0	4	8.0	8	16.0	2	4.0	0	0.0	7	14.0	50
Agricultural engineering	22	44.0	2	4.0	14	28.0	6	12.0	1	2.0	5	10.0	50
Agronomy	20	40.0	4	8.0	10	20.0	8	16.0	0	0.0	8	16.0	50
Dairy science	24	36.9	2	3.1	21	32.3	10	15.4	0	0.0	8	12.3	65
Agricultural economics	48	36.6	18	13.8	19	14.5	19	14.5	3	2.3	24	18.3	131
Horticulture	20	31.7	7	11.1	20	31.7	4	6.4	1	1.6	11	17.5	63
Animal husbandry	13	26.0	4	8.0	7	14.0	7	14.0	3	6.0	16	32.0	50
Poultry science	12	24.0	5	10.0	24	48.0	4	8.0	1	2.0	4	8.0	50



First choice opinions of 509 alumni concerning the aptitudes and abilities most important in securing employment and in advancing in their present occupations. Table XXII shows that a high percentage of all groups indicated the ability to get along with people was the ability or aptitude most needed in securing employment and advancing in their present occupations. Only 36.0 per cent of the animal husbandry alumni indicated the ability to get along with people first choice and 22.0 per cent of this same group rated technical knowledge and skill as most important. It may be noticed that 64.0 per cent of the agricultural education alumni indicated that the ability to get along with others was the most important ability in securing employment and in advancing in their present occupations. The next two items rated by this group were moral and professional integrity and technical knowledge with 10.0 per cent, respectively. Ten per cent of the agricultural education alumni rated moral and professional integrity first choice as a factor most important in securing employment and advancement. This might have been due to their realization of their responsibility to set a good example before the young men with whom they have to counsel and work.

It was also observed by the author that as a specific job classification group, the college professors who responded had a tendency to rank technical knowledge and skill above all other aptitudes and abilities most important in securing employment and in advancing in their present occupations.

TABLE XXII

FIRST CHOICE OPINIONS OF 509 ALUMNI CONCERNING THE APTITUDES AND ABILITIES MOST IMPORTANT  
IN SECURING EMPLOYMENT AND IN ADVANCING IN THEIR PRESENT OCCUPATIONS\*

Major Department Graduates	Getting Along With Other People		Technical Know- edge and Skill		Getting Things Accomplished		Moral and Profes- sional Integrity		Ability to Speak and Write		Hard Work		Scholastic Record	
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent
	**	**	**	**	**	**	**	**	**	**	**	**	**	**
Agricultural education	32	64.0	5	10.0	1	2.0	5	10.0	2	4.0	2	4.0	0	0.0
Poultry science	30	60.0	11	22.0	3	6.0	3	6.0	2	4.0	0	0.0	0	0.0
Agricultural engineering	27	54.0	15	30.0	7	14.0	1	2.0	0	0.0	0	0.0	0	0.0
Agricultural economics	70	53.4	18	13.7	13	10.0	9	6.9	5	3.8	11	8.4	2	1.5
Agronomy	23	46.0	12	24.0	6	12.0	0	0.0	4	8.0	3	6.0	0	0.0
Dairy Science	26	40.0	14	21.5	9	13.8	5	7.7	4	6.2	7	10.8	0	0.0
Horticulture	24	38.2	21	33.4	4	6.3	4	6.3	5	7.9	4	6.3	1	1.6
Animal husbandry	18	36.0	11	22.0	9	18.0	1	2.0	3	6.0	6	12.0	0	0.0

\* Included on questionnaire, but not on Table was item of "participation in community service." It did not, however, receive a single first choice.

\*\* Percentage was based on returns from each major department alumni: Agricultural education 50; poultry science 50; agricultural engineering 50; agricultural economics 131; agronomy 50; dairy science 65; horticulture 63; and animal husbandry 50.

## CHAPTER III

### SUMMARY AND CONCLUSIONS

#### Summary

The primary purpose of the study was to secure opinions of former students concerning the relation of their college training to their career. Secondary purposes were: (1) to ascertain what factors influenced the former students to prepare for a vocation; (2) to ascertain what factors determined or contributed to their first employment; and (3) to gain information which might be of value to student advisors and counselors.

Approximately 3,000 questionnaires were mailed to the alumni of the College of Agriculture whose addresses were known or could be determined. Only 509 questionnaires had been returned when tabulation of the data used in this report was started.

Data, including expressed opinions from these questionnaires, were classified, compiled, and an analysis was attempted with the following results being obtained:

Approximately 75 per cent of the alumni of the agricultural education department expressed the opinion that their major course of study was adequate preparation for their present occupation, whereas approximately 25 per cent indicated it was adequate to a degree. Only 4.0 per cent of this group indicated the opinion that their major course

of study was inadequate to their present occupation, even in fields other than teaching. Alumni from other major departments, however, did not express the same satisfaction concerning their training in their major field in relation to their present occupations. Only 40 per cent of the alumni of the animal husbandry department indicated satisfaction with their training, while 12.0 per cent of the same group were of the opinion that their major course was inadequate. Forty-eight per cent indicated that their major course of study was adequate to a degree in preparing them for their present occupations.

Approximately 20.0 per cent of the former students contacted indicated that they decided to enter their present occupation previous to enrolling in college. The replies concerning the time of deciding to enter the occupation reported by 509 alumni are grouped by frequency of reporting as follows: (1) previous to college entrance; (2) after military service; (3) during fourth year of college; (4) immediately after graduation; (5) during third year in college; (6) during second year in college; (7) during first year in college; and (8) other reasons. Eleven alumni gave no approximate time.

Thirty and one-tenth per cent of the alumni reported that natural aptitude and liking for type of work were the factors which influenced them most in making career selections. Factors influencing alumni in the choice of occupation are listed in the order of frequency of reporting: (1) natural aptitude and liking for type of work; (2) availability of positions in field; (3) experience while attending college; (4) counsel and influence of an elementary school teacher, county extension agent, or high school teacher; (5) experience in the field;

(6) parents' desires, approval, and/or encouragement; (7) experiences while attending high school; (8) counsel and influence by college teacher; (9) counsel and influence of college advisor or counselor; and (10) counsel and influence of close relatives.

Thirty-four per cent of the alumni indicated that college instructors gave assistance in making decisions regarding career selections while in college. Ranked as to frequency reporting, the items or persons indicated were: (1) college instructor or instructors; (2) part-time employment experiences; (3) personal advisor or counselor; (4) a particular course; (5) student associations or student contacts; (6) aptitude tests; (7) orientation course; and (8) experiences in student organizations. One alumnus indicated none of these were beneficial to him in making a decision regarding career selection and 66 made no choice.

Twenty four per cent of the alumni indicated that contacts made on their own initiative was the most important contact that led to first employment. The contacts mentioned are listed in the order of frequency mentioned: (1) contacts made on own initiative; (2) major department; (3) major advisor; (4) interviews with personnel men; (5) other college staff members; (6) students and friends; (7) other than any of these; (8) parents or close relatives; and (9) college placement bureau. No indication of any kind was reported by 166 of the alumni.

Forty-four per cent of the alumni expressed the opinion that success on the first job in relation to their present career was very important, while 30.5 per cent indicated this factor as important; 10.0 per cent indicated it of no importance; and 9.2 per cent indicated no relationship of success on the first job to their present careers. Five and seven-tenths per cent made no reply to this question.

Approximately 26.2 per cent of the alumni indicated salary increase as the reason for making a change of occupations. Listed in the order of frequency of reporting, the reasons given for changing occupations were: (1) salary increase; (2) work more to my liking; (3) better opportunity for advancement; (4) better working conditions; (5) improved retirement benefits; (6) personal or family health; (7) improved living conditions; and (8) other reasons than these.

Fifteen per cent of the alumni expressed interest in changing their fields of work. Of this number, the agricultural education graduates comprised 36.0 per cent, while the dairy graduates constituted only 9.2 per cent. The departments are listed in the order of frequency of indicating a desire to change employment: (1) agricultural education; (2) horticulture; (3) agronomy; (4) poultry science; (5) animal husbandry; (6) agricultural economics; (7) agricultural engineering; and (8) dairy.

Only 25.9 per cent of the alumni indicated that they would advise their 18-year old sons to major in some field of agriculture. Forty-eight per cent of the agricultural education graduates indicated that they would recommend that their sons major in some field of agriculture. Of the 31 different recommendations mentioned, the one ranking highest was that of leaving the decision to the son.

Only 8.0 per cent of the agricultural education graduates indicated that they were not in a field of work related to their major course of study in college. Twenty three and eight-tenths per cent of the horticulture graduates indicated they had changed fields. Sixty eight per cent and 64.0 per cent, respectively, of the agricultural engineering and agricultural education graduates indicated that their present

occupations were still in the area of their major course of study taken in college. The departments are listed in the order of frequency of response by alumni that they were presently employed in occupational fields in which they majored: (1) agricultural engineering; (2) agricultural education; (3) poultry science; (4) agronomy; (5) dairy; (6) agricultural economics; (7) animal husbandry; and (8) horticulture. Only three did not list an indication.

Seventy-two per cent of the agricultural education graduates indicated that their major course of study prepared them adequately for their present occupation. The animal husbandry graduates expressed by 48.0 per cent that their training was adequate to a degree. The departments are listed in order of their frequency of reporting by alumni that their major courses of study were adequate preparation for their present employment: (1) agricultural education; (2) agricultural engineering; (3) poultry science; (4) agricultural economics; (5) dairy science; (6) agronomy; (7) horticulture; and (8) animal husbandry. Only five did not indicate an opinion.

The following departments are listed in the order of frequency of reporting by alumni that other courses of study, other than their own majors, would have been equally as satisfactory in preparing them for their present occupations: (1) horticulture; (2) dairy science; (3) animal husbandry; (4) agronomy; (5) agricultural economics; (6) poultry science; (7) agricultural education; and (8) agricultural engineering. Only eight did not give an indication.

Thirty-eight per cent of the agricultural engineering graduates and 26.0 per cent of the agricultural education graduates indicated the choice of including more technical work in their major fields, which might

be more helpful to them in their present occupations. This same two groups of graduates also were the highest in indicating a desire for more technical subjects in areas closely related to their major fields of study. As to including more work in biological and physical science, the graduates of poultry science and agronomy ranked the highest with 24.0 per cent and 22.0 per cent, respectively. The agricultural economics and horticulture graduates indicated more work in social sciences with 19.8 per cent and 11.1 per cent, respectively. The agricultural economics and agricultural education graduates indicated the strongest desire for including more work in subjects dealing with group action. Their responses were 21.4 per cent and 16.0 per cent, respectively.

The agricultural economics graduates indicated 64.1 per cent as being in favor of more emphasis which should be placed on English. From 40.0 to 64.1 per cent of all alumni indicated a desire for more emphasis on English. The departments are listed in order of frequency of reporting by alumni that more emphasis should be placed upon English: (1) agricultural economics; (2) dairy science; (3) animal husbandry; (4) agronomy; (5) poultry; (6) horticulture; (7) agricultural education; and (8) agricultural engineering. Only 12 of the 509 respondents did not list an indication of opinion.

Seventy-six per cent to 93.8 per cent of all alumni indicated a strong interest for more emphasis on speech. The dairy alumni ranked the highest with 93.8 per cent, while the agronomy alumni indicated by 76.0 per cent that they were in favor of more emphasis on speech. The departments are listed in order of frequency of reporting by alumni that more emphasis should be placed on speech: (1) dairy science; (2) animal husbandry; (3) poultry science; (4) agricultural economics;



(5) agricultural engineering; (6) agricultural education; (7) horticulture; and (8) agronomy. Only nine did not list an opinion.

The indication of opinions of alumni regarding emphasis which should be placed on journalism varied considerably from that indicated concerning speech. However, significant indications were made by the different department alumni such as the agricultural education group expressed the strongest opinion for more proficiency in journalism with 60.0 per cent and the dairy science alumni indicated the same opinion with 38.5 per cent reporting, but 55.3 per cent of the dairy alumni indicated their opinion in favor of the same emphasis on journalism. The departments are listed in order of frequency of reporting by alumni that more emphasis should be placed on journalism: (1) agricultural education; (2) poultry science; (3) agricultural engineering; (4) agricultural economics; (5) horticulture; (6) agronomy; (7) animal husbandry; and (8) dairy science. Twenty-two alumni gave no indication of their opinion.

Dairy science graduates indicated the strongest desire for more emphasis on mathematics with 70.8 per cent reporting. Only three alumni indicated that less emphasis should be placed on mathematics. The departments are listed in order of frequency of reporting by alumni that more emphasis should be placed on mathematics: (1) dairy science; (2) agronomy; (3) horticulture; (4) agricultural economics; (5) poultry science; (6) animal husbandry; (7) agricultural education; and (8) agricultural engineering. Only 16 did not give an opinion.

Forty-eight per cent of the agricultural engineering graduates indicated that the courses taken in their major fields were very effective in preparation for their present employment. Only 22.0 per cent of the

agronomy graduates indicated that the courses taken in their major fields were very effective in preparation for their present employment. Four per cent of the graduates of agricultural education and agricultural engineering indicated that their major courses were ineffective. The departments are listed in order of frequency of reporting by alumni that the courses taken in their major field were effective in preparing them for their present occupations: (1) agricultural engineering; (2) animal husbandry; (3) agricultural education; (4) dairy science; (5) poultry science; (6) horticulture; (7) agricultural economics; and (8) agronomy. Only seven did not give an indication.

Thirty-two per cent of the agricultural education graduates, which was the highest for the departments reporting, ranked the effectiveness of courses taken in major field as preparation for working with others as very effective. Fifty-six per cent of this group indicated an opinion that their courses taken in the major field of study were only effective in working with others; only 10.0 per cent indicated that courses in the major field were not effective in preparation for working with others.

The following departments are listed in order of frequency of reporting by alumni that the courses taken in their major field were effective in working with others: (1) agricultural education; (2) animal husbandry; (3) dairy science; (4) agricultural economics; (5) horticulture; (6) poultry science; (7) agricultural engineering; and (8) agronomy. Only 12 did not list an indication.

Ninety-two per cent of the poultry science graduates indicated that the training received was definitely helpful in securing the first job after graduation, while 18.0 per cent of the animal husbandry graduates

expressed an opinion that their training was not helpful in securing a first job after graduation. The following departments are listed in order of frequency of reporting by alumni that the training they received while in college was helpful in securing their first job after graduation: (1) poultry science; (2) agricultural engineering; (3) dairy science; (4) agronomy; (5) agricultural education; (6) agricultural economics; (7) horticulture; and (8) animal husbandry. Only 12 did not give an indication.

Sixty-four per cent of the agricultural education graduates indicated that their first choice opinion concerning the aptitudes and abilities most important in securing employment and in advancing in present occupations was the ability to get along with people. This same ability was chosen by only 36.0 per cent of the animal husbandry graduates. The three choices which were indicated most frequently on the questionnaire were: (1) getting along with people; (2) technical knowledge and skill; and (3) getting things accomplished. In the fourth item of moral and professional integrity, 10.0 per cent of the agricultural education graduates chose this item as number one choice, which was the highest indication for this item by any of the major department alumni.

#### Conclusions

The purposes of this study were to ascertain alumni opinions regarding such questions as: (1) what factors influenced former students to prepare for specific vocations; (2) what factors contributed to obtaining their first employment; and (3) what are their opinions concerning the relation of their training to their careers? Another

important reason for undertaking this study was to gain information which might enable university advisors to more effectively counsel undergraduate students. Another purpose of this study was to secure information that might help evaluate the present curriculum and proposed curriculum changes.

On the basis of opinions expressed by the alumni cooperating in this study, the following conclusions seem apparent:

1. Although 20.8 per cent of the total alumni indicated that the approximate time at which they decided to enter their present occupations was previous to college entrance, it is significant to note that approximately 31.5 per cent of the alumni made their decision sometime during the four years they were in college. Twenty-one per cent of this group indicated that college personnel and college experiences influenced them in the choice of their present occupations. This suggests that college professors, advisors and others have had a significant part in helping these alumni make their decisions. Thus, it may be assumed that relatives and other items influenced the remaining 10.5 per cent who indicated they also made their decisions for careers while in college.

2. The data collected indicated that the most important single factor contributing to the first employment of alumni was the contacts made on their own initiative. In summarizing the data present in Table IV, it may be noted that 43.0 per cent of the alumni reporting indicated that contacts or associations made at the University contributed to their first employment.

3. In reference to the reasons given for making changes in occupations, no single item appeared to be greatly emphasized above any of the

others. It might be concluded that salary increases, work more to one's liking, and better opportunity for advancement were the items which respondents most frequently felt to be of the greatest significance.

4. Responses indicated that the fathers did not have the proper information necessary to advise their 18-year old sons in selecting occupations. Thus, it seems apparent that there is some indication of need for properly orienting these young men as to what they may expect in various vocations. Some parents have been out of school from 20 to 30 years and they do not realize that many aspects of vocations have changed during this period of time.

5. In general, responses were gratifying in regards to opinions as to the adequacy of their major courses of study as preparation for their present occupations. The majority of the alumni indicated that their major courses of study were adequate, or at least adequate to a degree, as preparation for their present occupations. It is realized that many alumni have changed their fields of work from what they specifically were trained to do. Nevertheless, the fact that they indicated their training was, to a degree, adequate suggests a transfer of training of a desirable nature.

6. Sixty-four per cent of the alumni of one department who responded indicated that the most essential ability or aptitude in securing advancement in their present occupation was the ability to get along with people. H. M. Hamlin stated, "that repeated studies have consistently shown that 90 per cent or more of the workers in business and industry who lose their jobs lose them, not because of incompetence in their work, but because of bad relationships with fellow-workers."<sup>1</sup>

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<sup>1</sup>Hamlin, p. 45.

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APPENDIX

- A. Letter of Transmittal
- B. Questionnaire
- C. Follow-up Postal Card

## APPENDIX A

## LETTER OF TRANSMITTAL

Dear Aggie Alum:

The current situation in agriculture, and the need for additional graduates in many fields, has prompted us to make a survey of those who have graduated from the College of Agriculture at Oklahoma State University. Therefore, we are enclosing a questionnaire which we feel will give us important information to more accurately advise students who are interested in careers in agriculture.

Although the questionnaire may seem to be rather lengthy, it will require only a few minutes of your time to complete. You will be doing a great service to the College of Agriculture if you will furnish the information requested, and return the questionnaire at your earliest convenience.

This material will be kept confidential and reported only as a summary of the data.

We send you greetings from the campus, and invite you to come back for a visit at every opportunity.

Sincerely yours,

Randall J. Jones, Dean  
Resident Instruction

RJJ:cl





B. Occupations are grouped generally into three major classes. Check the class that applies in your situation.

- \_\_\_1. Public employment (federal, state, local, etc.)
- \_\_\_2. Private employment (working for individual or corporation)
- \_\_\_3. Self employment (in own business, i.e., farming, contracting, etc.)

C. Your occupational record: Students always ask about starting salaries, advancement, rate of advancement, and maximum income from different occupations. Your record will serve to help answer these questions. Read instructional note before checking items and filling out record.

List full-time jobs beginning with your present job and going back to include all full-time jobs you have had since graduation.

Kind of Job Held*	Period Employed		Salary		Number of salary increases or creases in each job	Did the change in jobs or professional advancement require a move?
	From	To	Beginning	Ending		
						Yes <input type="checkbox"/> No <input type="checkbox"/>

\*Use the number preceding the general classifications of occupations as outlined below to indicate the kind of jobs held.

- Classification of occupations:
1. Farming, i.e., dairying, ranching
  2. Business related to agriculture
  3. Industry related to agriculture
  4. Profession related to agriculture
  5. Business not related to agriculture
  6. Industry not related to agriculture
  7. Profession not related to agriculture

D. Your Income Record: What was your annual income at the end of the following specific periods?

First year	Third year	Fifth year	Tenth year
\$ _____	\$ _____	\$ _____	\$ _____

## III. CAREER SUMMARY TO DATE

A. What contacts led to your first employment? (Check no more than two.)

- 1. College placement bureau
- 2. Major advisor
- 3. Major department
- 4. Other college staff member
- 5. Students and friends
- 6. Parents or close relatives
- 7. Contacts made on own initiative
- 8. Interviews with personnel men
- 9. Other (Specify) \_\_\_\_\_

B. How important was success in your first job to your career?

- 1. Very important
- 2. Important
- 3. Not important
- 4. No relationship

C. Have you made definite changes in your field of work since graduation?

Yes \_\_\_\_\_ No \_\_\_\_\_

If "yes" indicate: (A) Number of changes made \_\_\_\_\_, and  
(B) Two reasons for making changes.

- 1. Increase in salary
- 2. Better working conditions
- 3. Personal or family health
- 4. Improved living conditions
- 5. Improved retirement benefits
- 6. Better opportunity for advancement
- 7. Work more to my liking
- 8. Other (Specify) \_\_\_\_\_

D. Are you interested in changing your field of work?

Yes \_\_\_\_\_

No \_\_\_\_\_

If "Yes" indicate the three most important reasons in 1,2,3 order.

- \_\_\_\_1. Salary increase
- \_\_\_\_2. Better working conditions
- \_\_\_\_3. Personal or family health
- \_\_\_\_4. Better living conditions
- \_\_\_\_5. Improved retirement benefits
- \_\_\_\_6. Improved advancement opportunities
- \_\_\_\_7. Work more to my liking
- \_\_\_\_8. Other (Specify) \_\_\_\_\_

E. If you had an 18-year old son entering college, what career would you recommend that he consider?

\_\_\_\_\_

#### IV. YOUR EXPERIENCES IN SELECTING YOUR CAREER

A. Check below the approximate time of your decision to enter the occupation in which you are now engaged.

- \_\_\_\_1. Previous to college entrance
- \_\_\_\_2. During first year of college
- \_\_\_\_3. During second year of college
- \_\_\_\_4. During third year of college
- \_\_\_\_5. During fourth year of college
- \_\_\_\_6. Immediately after graduation
- \_\_\_\_7. After military service
- \_\_\_\_8. Other (Specify) \_\_\_\_\_

B. Select three of the following items and rank them in the order of their greatest influence to you in making your career selection.

- \_\_\_\_1. Parents' desires, approval and/or encouragement
- \_\_\_\_2. Counsel and influence of close relatives
- \_\_\_\_3. Counsel and influence of elementary school teacher, county extension agent, or high school teacher.

- \_\_\_4. Experiences while attending high school
- \_\_\_5. Experiences while attending college
- \_\_\_6. Counsel and influence of college teacher
- \_\_\_7. Counsel and influence of college advisor or counselor
- \_\_\_8. Availability of positions in field
- \_\_\_9. Experience in the field
- \_\_\_10. Natural aptitude and liking for type of work
- \_\_\_11. Other (Specify)\_\_\_\_\_

C. Rank in 1, 2, 3, order the following items or persons that, in your college experience, were of assistance to you in the decisions made regarding your career.

- \_\_\_1. Orientation course
- \_\_\_2. Aptitude tests
- \_\_\_3. Personal advisor or counselor
- \_\_\_4. College instructor or instructors
- \_\_\_5. A particular course
- \_\_\_6. Student associations or student contacts
- \_\_\_7. Experiences in student organizations
- \_\_\_8. Part-time employment experiences

V. YOUR TRAINING AS RELATED TO YOUR CAREER

A. Your Course of Study and Your Career

1. Is your present occupation in the same field as your major course of study in college?  
 A. YES \_\_\_\_\_ B. NO \_\_\_\_\_ C. CLOSELY RELATED \_\_\_\_\_
2. Do you feel that your major course of study prepared you for your present occupation?  
 A. YES \_\_\_\_\_ B. NO \_\_\_\_\_ C. PARTIALLY SO \_\_\_\_\_
3. Do you feel some other course of study would have been equally as satisfactory in preparing you for your occupation?  
 A. YES \_\_\_\_\_ B. NO \_\_\_\_\_ C. PARTIALLY SO \_\_\_\_\_

4. Rank two (1, 2) additional courses or fields of study you feel might have been helpful to you in your present occupation.

- \_\_\_\_\_a. Include more technical work in major field
- \_\_\_\_\_b. Include more technical subjects in areas closely related to major field of study
- \_\_\_\_\_c. Include more work in biological and physical sciences
- \_\_\_\_\_d. Include more work in social sciences
- \_\_\_\_\_e. Include more work in subjects dealing with group action
- \_\_\_\_\_f. Specific course \_\_\_\_\_

5. In regard to the following courses would you recommend:

A. English

- \_\_\_\_\_1. More emphasis
- \_\_\_\_\_2. Less emphasis
- \_\_\_\_\_3. Same emphasis

C. Journalism

- \_\_\_\_\_1. More emphasis
- \_\_\_\_\_2. Less emphasis
- \_\_\_\_\_3. Same emphasis

B. Speech

- \_\_\_\_\_1. More emphasis
- \_\_\_\_\_2. Less emphasis
- \_\_\_\_\_3. Same emphasis

D. Mathematics

- \_\_\_\_\_1. More emphasis
- \_\_\_\_\_2. Less emphasis
- \_\_\_\_\_3. Same emphasis

6. How effective do you feel the courses taken in your major field of study were in preparing you for your present occupation?

A. Technical Training

- \_\_\_\_\_1. Very effective
- \_\_\_\_\_2. Effective
- \_\_\_\_\_3. Ineffective

B. Training in dealing with Others

- \_\_\_\_\_1. Very effective
- \_\_\_\_\_2. Effective
- \_\_\_\_\_3. Ineffective

7. Was the type of training you received helpful in securing your first job after graduation?

A. Yes \_\_\_\_\_ B. No \_\_\_\_\_ C. To a Degree \_\_\_\_\_

If "Yes" rank the following in the order they were most helpful to you.

- \_\_\_\_\_1. The college degree
- \_\_\_\_\_2. Broad training in agriculture
- \_\_\_\_\_3. Specialized training in major field
- \_\_\_\_\_4. Both Broad and specialized training

\_\_\_\_\_ 5. Other (Specify)\_\_\_\_\_

B. Rank in 1, 2, 3, order the aptitudes and abilities you feel most important in securing employment and in advancing in your occupation.

\_\_\_\_\_ 1. Getting along with other people

\_\_\_\_\_ 2. Technical knowledge and skill

\_\_\_\_\_ 3. Getting things accomplished

\_\_\_\_\_ 4. Moral and professional integrity

\_\_\_\_\_ 5. Ability to speak and write

\_\_\_\_\_ 6. Hard work

\_\_\_\_\_ 7. Scholastic record

\_\_\_\_\_ 8. Participation in community affairs

\_\_\_\_\_ 9. Other (Specify)\_\_\_\_\_

C. What emphasis (more, less, same) would you place on these courses in preparing you for teaching vocational agriculture?

	More	Less	Same
Agricultural Economics	_____	_____	_____
Agricultural Engineering	_____	_____	_____
Animal Husbandry	_____	_____	_____
Dairying	_____	_____	_____
Entomology	_____	_____	_____
Field Crops	_____	_____	_____
Horticulture	_____	_____	_____
Poultry	_____	_____	_____
Soils	_____	_____	_____

## APPENDIX C

## FOLLOW-UP POSTAL CARD

Dear Aggie:

Some weeks ago we mailed to you a questionnaire concerning graduates of the College of Agriculture at Oklahoma State University. As yet, we have not received your copy of the questionnaire. We would appreciate very much your filling it out and returning it at your earliest convenience in order that the survey may be completed.

Thanks very much for your help.

Sincerely yours,

s/Randall J. Jones  
Randall J. Jones, Dean  
Resident Instruction



VITA

Billy Gene Powers

Candidate for the Degree of

Master of Science

Thesis: FORMER STUDENTS' OPINIONS CONCERNING THE RELATION OF THEIR  
COLLEGE TRAINING TO THEIR CAREERS

Major Field: Agricultural Education

Biographical:

Personal data: Born near Coweta, Oklahoma, March 29, 1930,  
the son of Fred E. and Grace Elizabeth Powers.

Education: Attended grade school at Coweta, Oklahoma; gradu-  
ated from Coweta High School in 1948; received the Bache-  
lor of Science degree from the Oklahoma State University in  
1953, with a major in Agricultural Education; completed the  
requirements for the Master of Science degree in August,  
1958.

Experiences: Taught vocational agriculture in the Mountain Park  
Schools, Mountain Park, Oklahoma, 1953-1955; Assistant  
Director of Short Course Department of the Oklahoma State  
University, 1955-1958.

Honors: Phi Delta Kappa, Alpha Zeta.

Date of Final Examination: July, 1958