GEOGRAPHIC MOBILITY OF TRAINEES LEAVING

VOCATIONAL AND TECHNICAL

EDUCATION PROGRAMS

IN OKLAHOMA

By

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CHAPTER I

THE PROBLEM

Introduction

Economic growth of Oklahoma is dependent upon effective utilization of its human resources. Due to continually increasing complexity of modern industrialization the demand for highly skilled and technical workers has substantially increased. Oklahoma, in order to meet the demand for skilled labor, must alter its educational emphasis accordingly.

To have an efficient training system, Oklahoma educators must establish training programs in such a way that skilled graduates will be available when and where they are needed. It would be of little benefit to train persons in skills for which no jobs were available. Similarly, it would be unwise to train persons who had little propensity to migrate, for the purpose of satisfying a need in a distant region of the state if measures were not being taken to inform them of those jobs available and to effectively increase their motivation.

Statement of the Problem

The problem with which this study was concerned was of geographic migration of Oklahoma's skilled manpower which ultimately affects the socioeconomic development of the state.

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Purpose of the Study

The primary purpose of this study was to describe post-training geographic mobility of recent graduates of Oklahoma's Vocational and Technical Education Programs. A secondary purpose was to present the information developed in this study in such a form that it might be useful to Oklahoma's education and manpower planners in recruiting, training, and thus effectively utilizing the state's human resources.

Research Questions

The objectives stated above can best be achieved by trying to answer the following research questions:

- 1. What is the rate of out-of-state migration of individuals trained in Oklahoma's Vocational and Technical Education programs?
- 2. Where do trainees tend to migrate within the state to obtain training-related jobs?
- 3. Is there a difference in the migration rates into and out of the individual counties in Oklahoma?
- 4. Do the various vocational education program divisions have the same rate and pattern of migration?
- 5. Are the eleven regions, established jointly by the state Department of Vocational and Technical Education, and the Oklahoma Employment Security Commission, of a homogeneous composition with respect to mobility?
- 6. If the eleven regions are not homogeneous, with respect to mobility, what form might an alternative regional pattern take?

Need for the Study

One of the major goals of Oklahoma is to increase its rate of industrial growth. To achieve this goal, the manpower policy of Oklahoma has included increased industrialization and a more efficient utilization of human resources. Involved in both of these goals is Vocational and Technical Education, which can provide a manpower pool attractive to industry by increasing the quantity and the quality of skills of Oklahoma's human resources.

In order to increase the effectiveness of the state's Vocational and Technical Education programs, there must exist a continuous system to measure education's contribution to the labor force, to analyze success and failure in meeting labor demands, and to provide the information feedback needed by Oklahoma's decision makers for planning more effective programs.

Knowledge of post-training behavior pattern is necessary in projecting labor supply data. Survey of literature pertaining to migration after training revealed a lack of information at the secondary and post-secondary levels of Vocational and Technical Education.

It would seem that a study which provides a description of recent mobility patterns of trainees of vocational and technical education programs would be helpful to those persons responsible for manpower training program planning.

Scope of the Study

 All data were limited to persons terminating Oklahoma public vocational and technical programs in May, 1969 and persons

terminating training in private school vocational and technical programs between July 15, 1968 and July 15, 1969.

2. All vocational and technical trainees included in the study were to have accepted full time employment in the field for which they were trained or in a field related to training received.

Definition of Terms

Follow-Up Study. A study of the experiences or status of former pupils. (12, p. 671)

<u>Gainful Employment</u>. Employment in a recognized occupation for which persons normally receive a wage, salary, fee, or profit. (12, p 672) <u>Geographic Mobility</u>. A movement from place to place. <u>Interstate Geographic Mobility</u>. A movement from state to state. <u>Intrastate Geographic Mobility</u>. A movement within the state. <u>Labor Mobility</u>. The willingness or propensity to move. (1, p. 240) <u>Manpower Policy</u>. The process embracing those principles and programs which aim to assist the individual to become fully employed in productive work of his choosing consonant with his aptitudes, talents, and interests under fair standards; to help sustain and rehabilitate the individual experiencing economic or personal hardship; and to help maintain the individual in as adaptable, flexable, and responsive a stance as possible to the changing requirements of the world of work.

(11, p. 121)

<u>Mobility</u>. A quality of flexibility, adjustability, and freedom of movement among labor markets. (13, p. 82)

<u>Out-Migration</u>. The voluntary movement of individuals beyond and outside their community of residence.

<u>Private Schools</u>. Any privately owned school offering training in business, trade, or technical skills. Not included are parochial or other non-public schools offering general educational curricula. <u>Public Schools</u>. Any school supported by local, state, or federal funds. <u>Trainee</u>. As used in this study, trainee refers to that individual who has either graduated from an occupational training program or has terminated training prior to scheduled completion, but with sufficient skill to be gainfully employed.

CHAPTER II

REVIEW OF LITERATURE

Sector States

Introduction

In the review of literature of labor mobility several significant points were observed: (1) the terms mobility and migration were used interchangeably (as well as geographic and residential mobility) when relating to the movement of labor; (2) studies of labor mobility indicated that there are various degrees of mobility, depending upon educational levels, age, and occupations; (3) in general, studies of mobility have been made by sociologists and economists.

Basically, mobility is a subjective concept concerning a person's willingness to make a change (2, p. 2). Geographic mobility is the movement of residence, and as concerns this study, a movement into a labor market (6, p. 24).

Geographic Mobility

In order to understand the complete migration picture involving occupational training, we must look at the total person involved. Examination of our manpower resources should, therefore, involve students of Psychology, Sociology, and Economics, as well as Education.

Gerald G. Sommers (7, p. 274) emphasizes this need:

The geographic mobility of labor presents a focus for manpower policy depressed-area programs, and analysis of the investment in human resources. Although it provides a suitable basis for

Multi-displinary study in each of these foci, the field has been largely the domain of economists, concerned primarily with measurement of the gains of mobility; and, to a smaller extent, of sociologists who have placed major stress on the noneconomic costs of mobility. A lack of information in the area of this study indicated a need

for research. Laure M. Sharp and Rebecca Krasnegor, supported by a grant from the U. S. Department of Health, Education and Welfare, found similar conditions in their study - <u>The Use of Follow-up Studies in the</u> <u>Evaluation of Vocational Education</u>. The purpose of their study was to evaluate the types of studies completed or in process which relate to vocational education and to indicate where there seemed to be a need for future studies. As a result of their evaluation, Sharp and Kresnegor (8, p. 18) implied the need for such a study when they stated:

The need for comprehensive geographic coverage is imperative, especially in order to obtain some baseline data on the results of vocational training . . . For the graduates themselves, we need to know more about long term career patterns as well as about the student's attitudes toward employment . . .

Need for mobility study was emphasized by Jack Ladinsky

(9, p. 475) when he stated:

There is a curious neglect in research on the geographic mobility of labor: Professional and technical manpower is the fastest growing segment of the U. S. labor force and probably has a greater portion of the job vacancies than any other occupation stratum. However, among both labor economists and sociologists the locus of mobility research has been in the industrial sector on movement among blue-collar workers, non-whites, and the unemployed. Little work has been done on the mobility of white collar workers, and close to no work at all has been carried out on the mobility of professional and technical workers.

Again Sharp and Kresnegor (8, p. v.) expressed support for such a study when they summarized:

Follow-up studies of vocational program graduates were demonstrated to be useful tools . . . and were recommended for future program assessment.

In Oklahoma during 1967, two major manpower studies were completed, one by Ling-Temco-Vought Systems Management Services (10) and another by Oklahoma State University (11). These studies were oriented toward identifying the actions and sequencing necessary for the establishment of flexible occupational training systems that could provide the state's present and future demands for skilled manpower. One of the major recommendations made was to establish a system to provide continuous detailed information for policy and operational decisions. Examples of the types of detailed information needed was given by Paul V. Braden in the study entitled <u>Manpower Requirements and Occupational Programs</u> in Oklahoma (12, p. 6).

Significant leaders within the state of Oklahoma are concerned with making its vocational training programs relevant to the needs of industry. Some of the problems related to these programs which caused this involvement are:

- ..., the heavy outmigration of Oklahoma's trained graduates to other states,
- the heavy migration from rural areas to urban centers,
- the increasing demand by industry for skilled and qualified people,

and

.... the urgent need for training programs that bridge the gap between cultural deprivation and career opportunities.

When Sharp and Kresnegor (8, pp. 15-16) reviewed what studies had been done in vocational education they became aware that the past research involved vocational education at the high school level. They stated:

We know practically nothing about the students or graduates of post-high school vocational education . . . In general, follow-up studies of junior college students have been concerned with transfer to higher educational institutions rather than occupational outcome though many students are enrolled in occupational rather than academic curriculum.

The inadequacy of statewide mobility data was pointed out in a warning given by Rupert N. Evans in a 1966 publication entitled <u>Occupational Data Requirements for Educational Planning</u> (16, p. 16), when he stated that:

. . Almost all curriculum decisions for vocational education are made locally. If these decisions are made on national data, they are likely not to get local support. If decisions are made on local data (which is usually the case), the result is parochialism.

The real need is for regional information. It would appear that the extent of the region should be determined in part by mobility.

Mobility data for vocational and technical education trainees in Oklahoma included a "Three Year Follow-Up" collection of unpublished data, for the years 1964-1966, gathered by the Oklahoma Research Coordinating Unit (13). This was the only extensive study that supplied statewide migration data on graduates of secondary education programs. This compilation included distance of employment from home, the size of the community in relation to the home community, and the general area of employment. This last category, general area of employment, was divided into the following area sub-categories: (a) home; (b) same area; (c) out of the area, but in the state; (d) adjoining state; (e) non-adjoining state; (f) no answer. Aggregate data of this type which is very beneficial in helping to understand the population completing training, is not, however, completely satisfactory for use in planning training programs serving small regions within the state. Results of this study indicated that 43 percent of all vocational and technical education graduates of public school programs remained at home; 12 percent remained in the same area; 12 percent moved out of the area, but remained in the state; 6 percent moved to an adjoining state; and 12 percent moved to a non-adjoining state; while 15 percent did not

answer.

A more specific study by Wilfred M. Bates, entitled "An Examination of the Relationship of Selected Variables to Interstate Geographic Mobility of Technician Graduates of the Associated Degree Programs in Oklahoma" (14), provided insight into variables affecting mobility of graduates.

Factors influencing mobility of trainees from private vocational and technical schools in Oklahoma were investigated in a paper (15) by the writer. It was concluded that the combined interstate and intrastate migration rates of technical trainees was nearly five times that of business program trainees. When the SMSA regions were compared with the non-SMSA regions, trainees from neither catagory were found to be the more mobile. There was no significant net migration into or from the SMSA regions, However, migration from the metrapolitan city into the surrounding SMSA region was statistically significant at the 0.005 level. This indicated that intrastate migration was primarily localized to a regional movement. No additional study of private school trainee migration was found.

Intrastate Regional Division

Various schemes of dividing Oklahoma into discrete areas were found. Local governments rely on county boundaries; The U.S. Post Office Department utilizes the familiar ZIP code and its associated areas.

To facilitate manpower planning in Oklahoma,11 regions(12,p.33),were selected jointly by the Oklahoma Employment Security Commission and the State Department of Vocational and Technical Education. These regions have been used extensively in gathering and reporting of manpower data. For the description and names of these regions, see Figure 2, page 19.

CHAPTER III

METHODOLOGY

Introduction

This study was conducted as a part of Oklahoma's Occupational Training Information System (OTIS) which was designed to provide a continuous and detailed system of improved data collection for the purpose of encouraging necessary changes in Oklahoma's State Plan for Vocational Education. Data on supply of and demand for trained manpower were collected. Analysis of results, based on interfacing of supply and demand figures in conjunction with data on program costs and effectiveness, provided a systematic tool to responsible decision makers for improving existing programs and for developing new programs. An overview of the system is depicted in Figure 1.

Instrumentation

To obtain information about the students and their respective programs, an instrument entitled OTIS Supply 2 (See Appendix A.) was administered to all the public schools during the fall of 1968. Public school instruments were distributed through the State Department of Vocational and Technical Education. Initial data on private school programs were provided by the State Accrediting Agency of the Veterans Administration. Only schools involved in training of

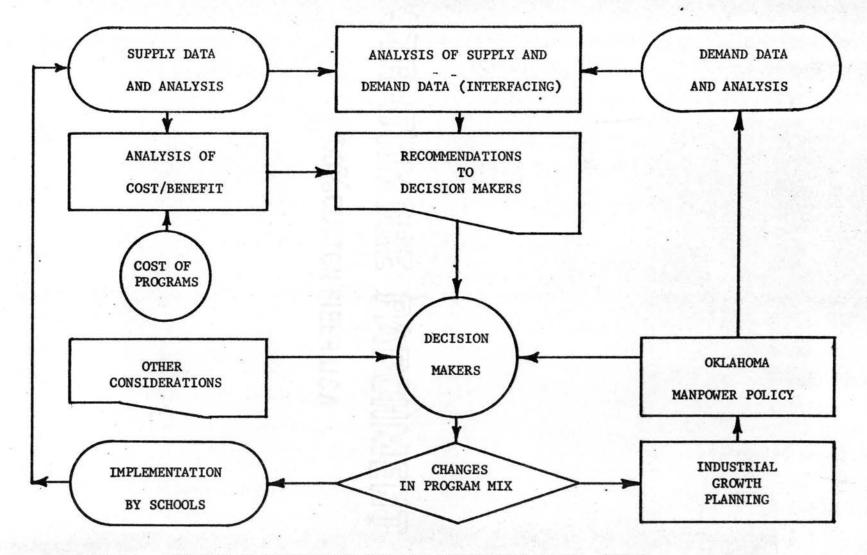


FIGURE 1. OVERVIEW OF OCCUPATIONAL TRAINING INFORMATION SYSTEM. (OTIS).

Veterans were included initially. The Oklahoma Association of Private Schools, organized in 1968, was later instrumental in updating the list of schools and soliciting cooperation of the school administrators.

Information pertaining to the individual student's status after termination of training, was obtained through use of a follow-up questionnaire. Public school students who indicated (OTIS Supply 2) that they would graduate in May, 1969, were followed up in the fall of 1969. No questionnaires were administered during the summer due to the unstable nature of summer jobs.

Names and addresses of students terminating training in private schools during the 1968-1969 school year were provided by administrators of the respective schools, who also sent a pre-letter (See Appendix B) introducing the OTIS project to each of the former students. These former students were then also followed up during the fall of 1969.

Follow-Up

In September 1969, the 13,775 former students from public schools and 3,313 from private schools to be followed up were mailed a questionnaire (See Appendix C) in the form of a reply-paid postcard sealed into an envelope. The card was imprinted with unique numbers by the computer during addressing procedure. The student's social security number was employed, in coded form, whenever available. The number of students included in each mailing and number of responses ultimately received are summarized in Table I.

	QUESTIONNAIRES	PERCENT RETURNED
FIRST MAILING	,	· · · · · · · · · · · · · · · · · · ·
PUBLIC	13,775	1 0. 0 %
PRIVATE	3,313	15.3 %
IRST REMINDER		
PUBLIC	12,397	10.0 %
PRIVATE	2,806	11.0 %
COND REMINDER		
PUBLIC	11.020	14.0 %
PRIVATE	2,442	18.5 %
INAL RESULTS	<u></u>	<u> </u>
PUBLIC		34.0 %
PRIVATE		44.8 %

SUMMARY OF FOLLOW-UP MAILING RETURNS

The initial response to this questionnaire consisted of a ten percent return from public school graduates and a 15.3 percent return from private school trainees. Four weeks after the initial questionnaire, a reminder (See Appendix D.) was mailed to all the non-respondents. This reminder, in the form of a manila colored reply-paid double postal card, yielded an additional ten percent return from private school graduates and an 11 percent return from private school graduates. A third and final questionnaire (See Appendix E.) was mailed eight weeks after the initial questionnaire. This also was on a reply-paid card, but with a more personalized introductory note bearing, handwritten, the student's first name and the **program** in which he was enrolled. The light green colored card was surprinted with the word "URGENT" in red half tone. This final reminder resulted in an additional 14 percent return from public school graduates and an 18.5 percent return from private school trainees.

Population

Statistical sampling methods were not used because of the OTIS interfacing requirement of supply and demand on a one-for-one basis. An attempt was made to utilize the entire population of Oklahoma's occupational trainees for the 1968-1969 school year. Table II enumerates the population both for public and private schools used for the OTIS follow-up, and the number of graduates and trainees used in this study as its population.

TABLE II

OTIS FOLLOW-UP POPULATION

	Pub1	.ic	Priv	vate	Total		
Number Followed-up Number of Useable Responses	13,775 4,758	100 %	3,313 1,264	100 %	17,088 6,022	100%	
Number who took Jobs	1,296	27 %	903	71 %	2,199	37%	
Number who took Jobs in related fields and reported Job Location	511	11 %	789	62 %	1,300	22%	

A bias check was made by the Occupational Training Information System (19, p. D-3) to determine if the responses to the questionnaire were representative of the total population.

A random sample of 100 names and addresses, stratified on the public school program service areas, was taken from the non-respondents to the follow-up questionnaire. Results are shown in Table III.

TABLE III

BIAS SAMPLE

Results	Numbers
No. of Responses	91
No. Deceased	2
No. Moved, leaving no forwarding address; changed name after marriage, and/or otherwise non-traceable	7
Total	100

Responses to Question II were combined into three categories: (a) Working full time; (b) Continuing full time in school; and (c) Other. Chi-square analysis of these three categories showed no statistical difference, at the 0.05 level of significance, between the bias sample and the questionnaires returned.

Further inferences, with reference to specific job status, job location, and individual program areas, should be made with caution, The sub-population used in this study included only those training programs where the primary purpose was to train for a gainful occupation. Consequently, Home Economics was omitted since by definition their objectives are not directly job related. Of the private school programs, commercial flight training was omitted because the inherent professional nature of the occupation placed it out of the vocational and technical education classification.

Only those respondents working full time in the occupation for which they were trained, or in an occupational field related to the training received met the stated limitations and were included in this study. The resulting sub-population can be seen in Table II on page 15.

CHAPTER IV

ANALYSIS OF DATA

Introduction

In analyzing the data in this chapter an attempt was made to structure the analysis around elements which provide a viable response to the research questions presented in Chapter I. In order to facilitate determination and description of mobility patterns, it was deemed necessary to consolidate postal ZIP code units of location into larger units or divisions of the state. The first zoning method was that of primary ZIP zones. These consisted of 17 areas; each containing all the post offices having the same first three digits (730 through 749) of the Oklahoma ZIP codes. These zone boundaries followed neither that of the counties used in local government planning, nor of any other regional division scheme devised for statewide manpower planning and were therefore not utilized past the preliminary stages of analysis.

The second method of sectioning the state utilized the 77 counties. This, while providing a more detailed examination of mobility, contained too many cells (5929) for the data units available. The third system used was that of the existing eleven regions established jointly by the State Department of Vocational and Technical Education, and the Oklahoma Employment and Security Commission. These regions are outlined in Figure 2.

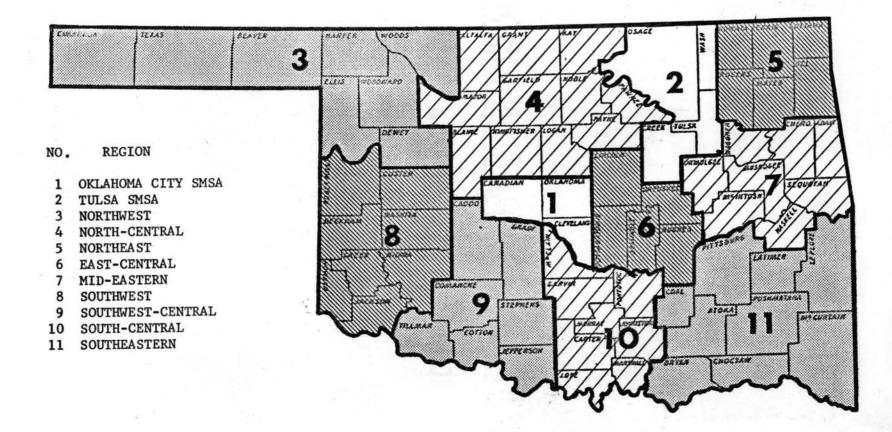


FIGURE 2. ELEVEN REGIONS IN OKLAHOMA USED FOR MANPOWER PLANNING

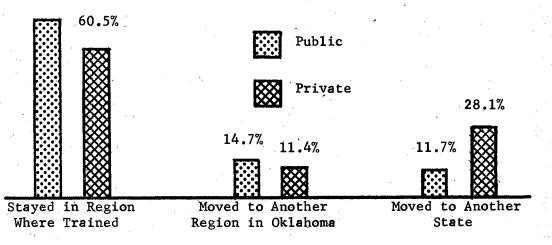
Out-Migration

The number of trainees leaving Oklahoma after terminating occupational training programs are shown in Figure 3. Of the graduates from the public schools, 11.7 percent accepted training-related jobs outside of Oklahoma. Out-migration of private school trainees was 2.4 times as high at 28.1 percent.

FIGURE 3

RATES OF POST-TRAINING MIGRATION FOR PUBLIC AND FOR PRIVATE SCHOOL OCCUPATIONAL TRAINING GRADUATES





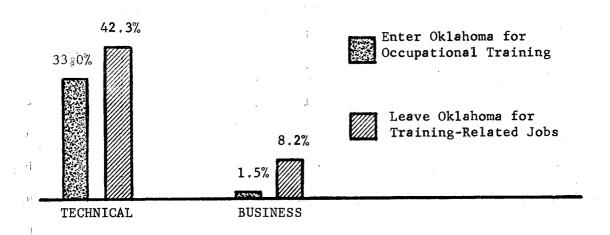
Twenty percent of private school enrollees were from out of state. This may have influenced the higher private school out-migration rate. The majority of the public school enrollees were at the secondary

education level and therefore lived in the school locale. Maturity level may have also been influential. Private schools involved students of a higher age, 20.9 as compared to 16.6 for the public school (17,p. 34). These more mature students, of which 62.7 percent were males, and 32.8 percent were married (17, pp. 34,35), would have more propensity to move or to return to their home state. Another reason which could have contributed to high out-migration rate in the case of private schools is that of higher salaries that trainees get in other states (18, p. 91).

Figure 4 shows that 33.0 percent of Technical enrollees and 1.5 percent of Business enrollees entered Oklahoma for Training. Net private school out-migration was 9.3 percent and 6.7 percent for the respective programs. This was comparable to the 11.7 percent out-migration for public school graduates.

FIGURE 4

INTERSTATE MOBILITY PATTERNS OF PRIVATE SCHOOL TRAINEES



Of the private school trainees leaving Oklahoma, 154 migrated to non-contiguous states, and 69 migrated to contiguous states (Table IV).

TABLE IV

Contiguous States	Trainees
Arkansas	7
Colorado	6
Kansas	7
Missouri	7
New Mexico	0
Texas	42
	Total 69
Non-Contiguous State	S
A11	Total 154

OUT-MIGRATION OF PRIVATE SCHOOLS

Out-migration by region for public schools was compared with the numbers expected to leave? (See Table V.) Regions 1 (Oklahoma City SMSA) and 2 (Tulsa SMSA) had significantly fewer than expected outmigrants. Region 5 (Northeast) and Region 7 (Mid-Eastern) had significantly more than expected out-migrants.

Examination of data on the county basis revealed that in Region 5 all the five out-migrants were from Ottawa county, home of Northeastern State Junior College; and in Region 7, all of the 24 out-migrants were from Okmulgee county, location of Oklahoma State Tech. Regions 1 and 2 are the two most highly industrialized areas in Oklahoma and therefore would have more variety and numbers of available jobs in the area of training.

Due to lack of independence between regions, caution should be exercised in interpretation of statistical significance.

TABLE V

OKLAHOMA OUT-MIGRATION BY REGIONS FOR PUBLIC SCHOOLS

Region	A STATE OF A	inees	Left	Expected *	Chi-square
	No.	%	Oklahoma	To Leave	1 Curlins
1	129	25.2	2	15	11.27 **
2	71	13.9	2	8	4.50 **
3	7	1.4	1	1	0.00
4	50	9.8	2	6	2.67
5	43	8.4	16	5	24.20 **
6	16	3.1	2	2	0.00
7	75	14.7	24	9	25.00 **
8	20	3.9	2	2	0.00
9	58	11.4	5	7	0.57
10	25	4.9	2	3	0.33
11	17	3.3	2	2	0.00
Total	511	100.0	60	60	68.54 **

Based on the total number of out-migrants (60), multiplied by * the region's percentage of total (511) trainees. **

Significant at 0.05 level.

Similar examination of private school data (See Table VI.) revealed at the 0.05 level of significance, that Region 1 had more outmigrants than expected and Region 2 had fewer than expected. The out-migration rate for Region 2 (Tulsa) was 1.5 times that of Region 1 (Oklahoma City). This difference may be explained by program differences in the two cities. The ratio of Technical to Business trainees was 1.6 times higher in Tulsa than in Oklahoma City. Data for the private school is given in Tables XVI through XVIII. Figure 4 shows that the Technical trainees had a rate of out-migration five times that of Business trainees. Also, 65.7 percent of Tulsa's Technical trainees were from highly specialized Aeromechanical programs which had a very high out-migration rate of 75.6 percent.

TABLE VI

Region	Tra No.	inees %	Left Oklahoma	Expected * To Leave	Chi-square
1	306	38.8	29	86	37.78 **
2	459	58.2	189	129	27.91 **
4	11	1.4	1	3	1,33
5	13	1.6	3	4	0.25
Total	789	100.0	222	222	67 .2 7**

OKLAHOMA OUT-MIGRATION BY REGIONS FOR PRIVATE SCHOOLS

* Based on the total number of out-migrants (222) multiplied by the region's percentage of total (789) trainees.

** Significant at 0.05 level.

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Intrastate Migration

The succeeding analysis refers to the eleven regions in Oklahoma by numerical symbols 1 through 11. The corresponding names of the regions are shown in Figure 2.on page 19.

Public Schools

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Intrastate migration patterns of vocational-technical graduates from public schools can be seen in Table VII. The migration matrix for all six public school program areas combined revealed that 83.4 percent of the graduates who did not out-migrate accepted jobs in the region in which they were trained. The remaining 16.8 percent were scattered over the 110 region-to-region migration cells. Similar patterns for intrastate migration of graduates were studied for each of the six program areas. The data can be seen in Table VIII for Agriculture, Table IX for Distributive Education, Table X for Health, Table XI for Office Education, Table XII for Technical and Table XIII for Trade and Industrial. It can be seen that the graduates in all these programs tend to stay near their homes and/or the place where they were trained. No significant migration out of the region was detected.

Only three regions had significant inter-regional public school migration at the .05 level of significance. (See Table XIV, page 33). An inspection of the related data found in Table VII, shows that Region 2 had an in/out migration ratio of 21/2 for a relatively high net gain on the inter-regional level. Region 7 had a ratio of 2/36 for a relatively high net loss of graduates. Region I had significantly less out-migration than was expected.

TABLE VII

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION TOTAL FOR 6 SERVICE AREAS

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	117	2	0	3	0	3	0	0	1	1	0	127	2	129	10
12	2	1	67	0	0	1	0	0	0	0	0	0	69	2	71	2
	3	0	0	4	2	0	0	0	0	0	0	0	6	1	7	2
	4	1	1	0	44	0	0	0	0	ľ	0	1	48	2	50	4
	5	1	5	0	1	17	0	2	0	0	1	0	27	. 16	43	10
FROM	6	3	0	0	0	0	11	0	0	0	0	0	14	2	16	3
	7	3	13	1	4	7	0	15	2	2	1	3	51	24	75	36
	8	0	0	0	0	0	0	0	17	1	0	0	18	2	20	1
	9	2	0	0	0	0	0	0	1	49	1	0	53	5	58	4
	10	1	0	0	0	0	0	0	0	1	21	0	23	2	25	2
	11	0	0	0	0	0	1	0	Q	0	0	14	15	· 2	17	1
COLUMN TOT	ALS	129	88	5	54	25	15	17	20	55	25	18	- 451	60	511	75
ENTER REGI	ONS	12	21	1	10	8	4	2	3	6	4	4	376 D	ID NOT	LEAVE REC	ION

TABLE VIII

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION VOCATIONAL AGRICULTURE

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	4	0	0	0	0	0	0	0	0	0	0	4	0	4	0
	2	0	2	0	0	0	0	0	0	0	0	0	2	0	2	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	6	0	0	0	0	0	0	0	6	0	6	· 0
	5	0	0	0	0	2	0	0	0	0	1	0	3	2	5	1
FROM	6	0	0	0	0	0	1	0	0	0	0	0	1	0	-1	0
	7	0	1	• 0	0	0	0	3	0	0	0	0	4	0	4	1
	8	0	0	0	0	0	0	0	5	0	0	0	5	0	5	0
	9	0	0	0	0	0	0	0	0	9	0	0	9	1	10	0
÷ .	10	1	0	0	0	0	0	0	0	0	6	0	7	0	7	1
	11	0	0	0	0	0	0	0	0	0	0	0	0	• 1	1	0
COLUMN TOT	ALS	5	3	0	6	2	·1	3	5	9	7	0	41	4	45	3
ENTER REGIONS 1 1 0 0 0 0 0 0 0 1 0 38 DID NOT LEA						LEAVE REG	ION									

TABLE IX

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION DISTRIBUTIVE_EDUCATION

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION	
	1	7	0	0	0	0	0	0	0	0	0	0	7	0	7	0	
	2	0	6	0	0	0	0	0	0	0	0	0	6	0	6	0	
	3	0	0	0	0	0	0	0	0	0	0		0	0	0	0	
	4	0	0	0	4	0	0	0	0	0	0	0	4	0	4	0	
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	
	7	0	0	0	0	0	0	2	0	0	0	0	2	0	2	0	
	8	0	0	0	0	0	0	0	3	0	0	0	3	0	3	0	
	9	0	0	0	0	0	0	0	0	10	0	0	10	1	11	0	
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	11	0	0	0	0	0	0	0	0	0	0	1	1	· 0	-1	0	
COLUMN TOTALS		.7	6	0	4	0	1	2	3	10	0	1	34	1	35	0	
ENTER REGIONS		0	0	0	0	0	0	0	0	0	0	0	34 D	DID NOT LEAVE REGION			

TABLE X

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION HEALTH EDUCATION

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION	
FROM	1	37	0	0	2	0	1	0	0	1	1	0	4 2	2	44	5	
	2	1	15	0	0	0	0	0	0	0	0	0	16	0	16	1	
	3	0	0	2	2	0	0	0	0	0	0	0	4	1	5	2	
	4	1	0	0	8	0	0	0	0	σ	0	0	9	0	9	1	
	5	Ō	0	0	0	4	0	2	0	0	0	0	6	1	7	2	
	6	2	0	0	0	0	7	0	0	0	0	0	9	0	9	2	
	7	0	0	0	0	0	.0	2	0	0	0	0	2	0	2	0	
	8	0	0	0	0	0	0	0	4	0	0	0	4	1	5	0	
	9	1	0	0	0	0	0	0	1	9	0	0	11	0	11	2	
	10	0	0	0	0	0	0	0	0	1	7	0	8	2	10	1	
	11	0	0	0	0	0	1	0	0	0	0	5	6	. 0	6	1	
COLUMN TOTALS		42	15	2	12	4	9	4	5	11	8	5	117	7	124	17	
ENTER REGIONS		5	о	о	4	0	2	2	1	2	1	0	100 D	DID NOT LEAVE REGION			

TABLE XI

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION OFFICE EDUCATION

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	30	0	0	0	0	1	0	0	0	0	0	31	0	31	1
	2	0	20	0	0	1	0	0	0	0	0	0	21	1	22	1
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	• 4	0	1	0	5	0	0	0	0	1	0	0	7	0	7	2
	5	0	. 1	0	0	3	0	0	0	0	0	0	4	7	11	1
FROM	6	1	0	0	0	0	0	0	0	0	0	0	1	1	2	1
	7	0	3	0	0	0	0	2	0	0	0	0	5	0	5	3
	8	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0
	9	1	0	0	0	0	0	0	0	8	0	0	9	2	11	1
	10	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0
	11	0	0	0	0	0	0	0	0	0	0	3	3	· 0	3	0
COLUMN TOT	ALS	32	25	0	5	4	1	2	1	9	1	3	83	11	94	10
ENTER REGI	ONS	2	5	0	0	1	1	0	٥	1	0	0	73 D	ID NOT I	LEAVE REG	ION

TABLE	XII

PUBLIC	SCHOOL	REGIONAL	GEOGRAPHIC	MIGRATION
	TEC	CHNICAL EI	DUCATION	

	×																	
				•	PI	UBLI(C SCI		REG		L GE	OGRAI ATIO		MIGRATIC	N	•		· ·
	REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION	,
- -		· 1	10	Ő	· 0	.1	. 0	0	. 0	<i>,</i> 0	0	. 0	0	11	0	11	11	
		2	0	1	0	0	- 0	0	0	• 0	. 0	0	0	1	1	2	0	
		3	. 0	0	- 0	0	0	0	0	-0	0	· 0	0	0	0	0	<u> </u>	
		4	0	0	-0	1	0	. 0	.0	. 0	.0	0	1	2	2	4	<u> </u>	
		5	1	2	0	., 0	3	0	. 0	0	. 0	-0	0	- 6	2	8	3	
	FROM	6	0	<i>,</i> 0	-0	. 0	·0	0	.0	. 0	· 0	0	0	0	0	. 0	0	
	·	7	1	4	0	0	3	0	1	0	0	0	1	10	3	13	9	
		8	0	0	. 0	- 0	<i>.</i> 0	0	:0	0	.0	0	0	0	0	0	0	. *
		9	0	0	0	.0	. 0	-0	0	-0	1	0	. 0	1	1	2	0	
	· .	10	0	. 0	· 0	0	0	. 0	-0	0	<i>•</i> 0	0	0	0	. 0	0	0	
		11	0	0	0	-0	0	0	0	-0	0	.0	0	0	. 0	0	0	
	COLUMN TOT	ALS	.12	7	о	2	6	0	1	.0	1	0	2	31	9	40	14	
	ENTER REGI	ONS	2	.6	0	,1	3	0	0	0	0	0	2	.17 E	DID NOT	LEAVE REC		ယ္
			······					E										

TABLE XIII

PUBLIC SCHOOL REGIONAL GEOGRAPHIC MIGRATION TRADE AND INDUSTRIAL

REGION:	TO	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	29	2	0	0	0	1	0	0	0	0	0	32	0	32	3
	2	0	23	0	0	0	0	0	0	0	0	0	23	0	23	0
	3	0	0	2	0	0	0	0	0	0	0	0	2	0	2	0
	4	0	0	0	20	0	0	0	ð	0	0	0	20	0	20	0
	5	0	2	0	1	5	0	0	0	0	0	0	8	4	12	3
FROM	6	0	0	0	0	0	2	0	0	0	0	0	2	1	3	0
	7	2	5	1	4	4	0	5	2	2	1	2	28	21	49	23
	8	0	0	0	0	0	0	0	4	1	0	0	5	1	6	1
	9	0	0	0	0	0	0	0	0	12	1	0	13	0	13	1
	10	0	0	0	0	0	0	0	0	0	7	0	7	0	7	0
and the second second	11	0	0	0	0	0	0	0	0	0	0	5	5	• 1	6	0
COLUMN TOT	ALS	31	32	3	25	9	3	5	6	15	9	7	145	28	173	31
ENTER REGI	ONS	2	9	1	5	-4	1	0	2	3	2	2	114 D	ID NOT	LEAVE REG	ION

TABLE XIV

PUBLIC SCHOOL REGIONAL IN/OUT-MIGRATION

REGION	1	2	3	4	5	6	7	8	9	10	11	TOTAL
TOTAL TRAINED IN REGION	129	71	7	50	43	16	75	20	- 58	25	17	511
EXPECTED TO ENTER/LEAVE **	19	10	1	7	6	2	11	3	9.	4	3	75
ENTER REGION Chi-Square Value	12 2.58	21 12.10 [*]	1 0.00	10 1.29	8 0.67	4 2.00	2 7.36 [*]	3 0.00	6 1.00	4 0.00	4 0.33	75 27.33 [*]
LEAVE REGION Chi-Square Value	10 4.26 [*]	2 6.40 [*]	2 1.00	4 1.29	10 2.67	3 0.50	36 56.82 [*]	1 1.33	4 2 . 78	2 1.00	1 1.33	75 79.38 [*]

* Significant at the 0.05 level

** Based on total number of regional migrants(75), multiplied by the region's percentage of total trained(511) in the state. As can be seen in Tables VII through XIII, migration of public school graduates between pairs of regions disclosed several cells which had considerably higher interaction than others. Twelve percent of the trainees in Region 5 moved to Region 2. Seventeen percent of trainees in Region 7 moved to Region 2 and nine percent to Region 5.

Inspection of county-to-county movement showed that the migration from Region 7 to Region 2 was significant, because eleven of the thirteen individuals involved moved from Okmulgee County, site of Oklahoma State Tech, to Tulsa County. The other interactions were apparently randomly scattered over the groups of counties. The relationship between Region 7 and Region 2 is recorded in Table XV.

TABLE XV

THE RELATIONSHIP BETWEEN REGION 7 AND REGION 2

Total no. of graduates in Region 7	75
No. of graduates who migrate from Region 7 to other regions	36
Total no. of graduates in Okmulgee County	65
No. of graduates in <u>Okmulgee</u> <u>County</u> who migrate to other regions	36
No. of graduates in <u>Okmulgee County</u> who migrate to Region 2	11

It can be seen that Okmulgee with its Technical Institute provides almost total migration from the region. Tulsa metropolitan area

(Region 2) accounts for eleven of those graduates who migrate from Okmulgee.

Private Schools

As the private schools are concentrated in Tulsa and Oklahoma City, the two metropolitan areas in Oklahoma, they tend to attract students from all over the state-- some of them from all over the country. After the completion of their training, these students tend to go back to their respective regions or states. This trend can be seen in Table XVI which shows data for all programs. Tables XVII and Table XVIII show similar analysis for Technical and Business programs respectively. It can be seen that 87.2 percent of the graduates accepted jobs in the region in which they were trained. The remaining 18.8 percent scattered over the other regions.

TABLE XVI

PRIVATE SCHOOL REGIONAL GEOGRAPHIC MIGRATION ALL PROGRAMS

REGION:	TO	1	2	3	4	5	6	7	. 8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	223	4	3	8	0	8	4	-9	11	6	1	277	29	306	54
	2	10	238	0	5	7	0	3	0	2	0	5	270	189	459	32
	3	0	0	0	0	0	0	0	0	0	0	0	<u> </u>	0	0	0 ′
	4	1	0	0	9	0	0	0	0	ď	0	0	10	1	11	1
	5	0	2	0	1	7	0	0	0	0	0	0	10	3	13	3
FROM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	-0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLUMN TOI	ALS	234	244	3	23	14	8	7	9	13	6	6	567	222	789	90
ENTER REGI	ONS	11	6	3	14	7	8	7	9	13	6	6	477 I	DID NOT 1	LEAVE REC	ION

TABLE XVII

PRIVATE SCHOOL REGIONAL GEOGRAPHIC MIGRATION TECHNICAL PROGRAMS

REGION:	TO	1	2	3	4	5	6	7	8	9	10	11	ROW TOTAL	LEAVE OKLA	TOTAL TRAINED	LEFT REGION
	1	90	2	2	5	0	5	3	6	5	3	1	122	22	144	32
	2	7	124	0	3	4	0	0	0	-2	0	4	144	173	317	20
:	. 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
· · ·	4	0	0	0	0	0	0	0	0	0	0	- 0	. 0	. 0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FROM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	• 0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	-0	0	0	0	0	0	0	0	-0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	- 0	0	0	0	.0	0	0	0	0	· 0	0	0
COLUMN TOT	ALS	.97	126	2	8	4	5	3	6	7	3	5	266	195	461	52
ENTER REGI	ONS	7	2	2	8	4	5	· 3	6	7	3	5	214 I	DID NOT 1	LEAVE REC	ION

۰...

TABLE XVIII

PRIVATE SCHOOL REGIONAL GEOGRAPHIC MIGRATION BUSINESS PROGRAMS

REGION:	то	1	2	3	4	5	6	7	8	9	10	11	ROW - TOTAL	LEAVE	TOTAL TRAINED	LEFT REGION
	1	133	2	1	. 3	Q	3	1	3	6	3	0	155	7	162	22
	2	3	114	0	2	3	0	3	0	0	0	1	126	16	142	12
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	1	0	0	9	0	0	0	0	0	0	0	10	1	11	1
	5	0	2	0	1	7	0	0	0	0	0	0	10	3	13	3
FROM	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
COLUMN TOT	ALS	137	118	1	15	10	3	4	3	6	3	1	301	27	328	38
ENTER REGI	ONS	4	4	1	6	3	3	4	3	6	3	1	263 E	DID NOT I	LEAVE REG	ION

CHAPTER V

SUMMARY AND CONCLUSIONS

Summary

The primary objective of this study was to describe post-training geographic mobility of recent graduates in vocational and technical training programs in Oklahoma. 13,775 graduates from public schools and 3,313 graduates from private schools were followed during the fall of 1969 to collect data on program effectiveness and mobility of graduates. Data, in respect to 1,300 graduates who found jobs in fields related to their training were used to study their mobility patterns after completing their respective programs.

Findings

The findings of this study can be most effectively reported by responding to the research questions posed in Chapter I. The following answers are based on the analysis of the preceding chapter.

Research Question 1

What is the rate of out-of-state migration of trained manpower from Oklahoma's Vocational and Technical Education programs? It was found that 11 percent of the graduates from public schools who were placed in an occupational field related to training migrated out of the state. Corresponding figures for private schools is 28.1 percent.

Research Question 2

Where does trained manpower tend to migrate within the state to obtain training-related jobs? It was found that those trainees who do not out-migrate from the state tend to remain near or in the same region in which they were trained. In the case of public school graduates 73.6 percent of all the graduates remained in the same region in which they were trained. The summary of this finding can be seen in Figure 5.

In the case of private school graduates, 60.4 percent found jobs in the region in which they were trained.

Research Question 3

Is there a difference in the migration rates into and out of the individual counties in Oklahoma? No particular pattern of intercounty mobility could be established as the data were not sufficient for such a detailed analysis. The results found, however, can be seen in Figure 6.

Research Question 4

Do the various vocational education program divisions have the same rate and pattern of migration? Individual training programs tend to follow the same pattern of graduate mobility as in the case of all graduates. See Figure 5 for the results found.

Research Question 5

Are the eleven regions, established jointly by the State Department of Vocational and Technical Education, and the Oklahoma Employment

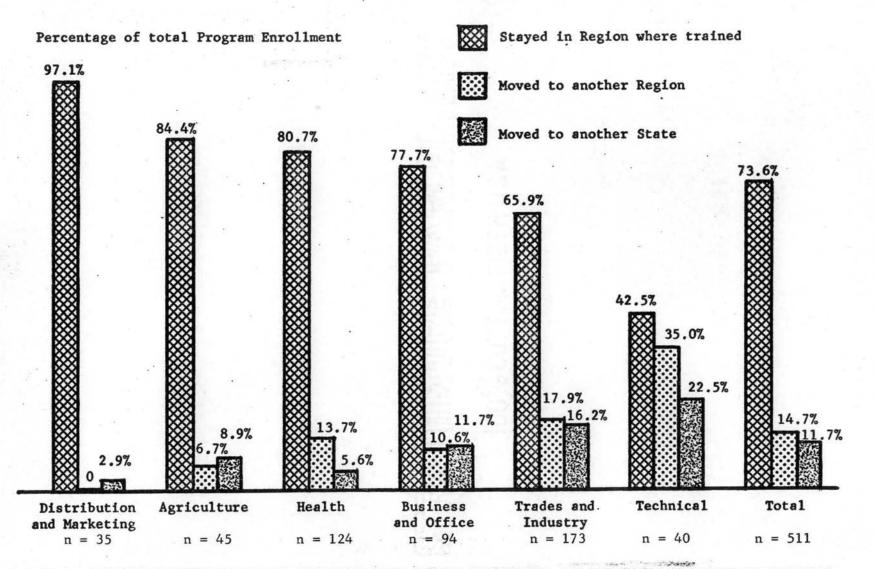


FIGURE 5. COMPARATIVE MIGRATION OF GRADUATES FROM PUBLIC VOCATIONAL AND TECHNICAL PROGRAMS IN OKLAHOMA.

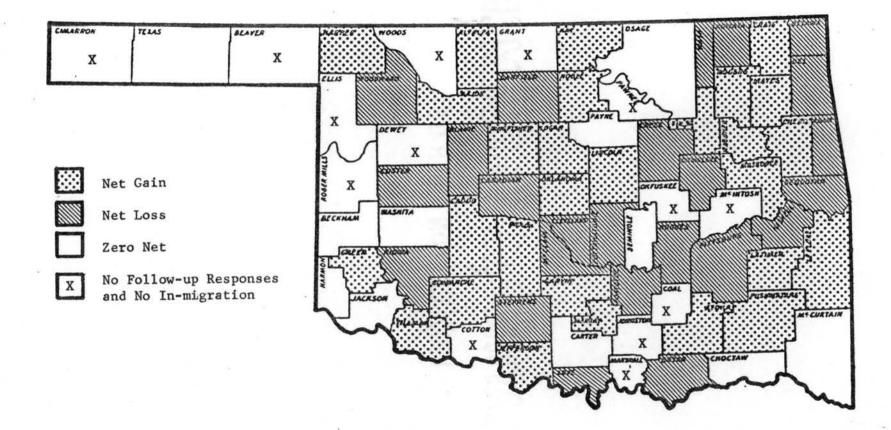


FIGURE 6. NET COUNTY MIGRATION OF GRADUATES FROM PUBLIC VOCATIONAL AND TECHNICAL PROGRAMS.

Security Commission, of a homogeneous composition with respect to mobility? On the basis of available data it was found that the regions hold their validity to a great extent. The only exception was found in the case of Tulsa SMSA and the Mid-Eastern regions.

Research Question 6

If the eleven regions are not homogeneous, with respect to mobility, what form might an alternative regional pattern take? On the basis of available data the only change that could be visualized was a transfer of Okmulgee County from Region 7 (Mid-Eastern) to Region 2 (Tulsa SMSA).

Recommendations

1. No viable patterns of mobility can be established on the basis of a single year's data. It is recommended that a longitudinal study of the subject be undertaken as an integral part of the Occupational Training Information System.

2. Out-migration of graduates might be reduced by making available to them greater job opportunities and/or information about the available job opportunities. The latter is recommended as a means which should be employed without any delay.

3. The validity of regions should be further studied in context with longitudinal mobility as well as other factors which affect manpower policy in the state.

4. Further study of those graduates who migrate out of the state is recommended in order to provide them with information about available and expanding job opportunities within the state. 5. Further study of those individuals who in-migrate from other states to attend vocational and technical programs ought to be conducted in order to retain those who might have critical skills and those who simply want to remain. One way, perhaps, to influence these individuals would be to provide them with up-to-date job information.

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APPENDIX A

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OTIS SUPPLY FORM 2

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OCCUPATIONAL TRAINING INFORMATION SYSTEM

4. ARE YOU MARKIED (CHECK ONE) THE NO 5. SOCIAL SECURITY HARBER (IP ANY)	1.	NAME	2. AGE 3. SEX (CHECK ONE) H 7
6. PERMANENT ACCESS (MEERE TO CAN BE MACRED ATTER CARCUNTION IN CONSULTION, PALENT'S HOR, ETC.) 1. MARE AND STREET CITY, TONN, COMPARITY STATE	4.		SOCIAL SECURITY NUMBER (IF ANY)
HARREN AND STREET CTFY, TONI, COMMUNITY FIRE E32 COM 7. ARE NOT THE HARD OF A MODERCLOP [6.		
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9. WHAT IS THE HAVE OF THE HIGH SCHOL YOU AR HAVE AVENUELHD OR LAFT ATTREDED? (IF ANT)			CITY, TOWN, COMMUNITY STATE ZIP CODE
10. LOCATION OF HIGH SCHOOL LAY ATTERED CTFV, NOW, OR COMMENTY STATE 11. MIRE FROMAN ARE NOT INTERATING (EXAMPLE) CTFV, NOW, OR COMMENTY STATE 12. MIRE OF SCHOOL OR INSTITUTION OFFERING THE PROGRAM	7.		
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14 INTEL NOTES YEAR 14 19 THIS FROGRAM, X AM NOW IN THE GENECK ONE) IF THIS FROGRAM, X AM NOW IN THE GENECK ONE) IF THIS FROGRAM, Y AMAN IN THE GENECK ONE) IF THIS FROGRAM, Y AMAN IN THE GENECK CONSTRUCTION IN THE FROGRAM I CONSTRUCTION IN THE FROM INT THE FROM IN THE FROM INTER INTE	12.		
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			BHPLOYER VOCATIONAL TRACHER WORDDY
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CARPENTERS, ELECTRICIANS, MACHINISTS, FTC.) CARPENTERS, ELECTRICIANS, MACHINISTS, FTC.) OPERATIVES AND KINDRED WORKERS (INCLUDES APPRENTICES ASSEMBLERS, TRUCK DRIVERS, DELIVERY MEN, WELDERS, ETC.) SERVICE WORKERS (INCLUDING PRIVATE HOUSEHOLD, JANITORS, GUARDS, ETC.) LABORER, (INCLUDING PRIVATE HOUSEHOLD, JANITORS, OTHER (SPECIFY) NO THER (SPECIFY) NO DON'T KNOW			
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OTHER (SPECIFY)			
20. IF ENFLOYMENT OPPORTUNITIES ARE EQUAL, DO YOU PLAN			LABORER, (INCLUDING FARM)
			OTHER (SPECIFY)
	20	TP EMPLOYMENT OPPOPTINITY PS ADD DVIAL DO WHI DFAN	

n.	I AN PRESENTLY (CHECK ONE)	A HIGH SCHOOL FRESHMAN IN POST HIGH SCHOOL FIRST YEAR
	CADULA-PREPARATORY MEANS PROGRAMS FOR ADULAS TO PRE-	A HIGH SCHOOL SOPHOMORE IN POST HIGH SCHOOL SECOND YEAR
	PARE THEN FOR GAINFUL EMPLOYMENT.	A HIGH SCHOOL JUNIOR IN ADULT-PREPARATORY TRAINING*
	GADULT-SUPPLEMENTARY MEANS PROGRAMS FOR ADULTS TO IMPROVE SKILLS OR TO ACQUIRE EXTRA SKILLS	A HIGH SCHOOL SERIOR IN ADULT-SUPPLEMENTARY TRAINING
22.	WHICH DESCRIBES YOU? (CHECK ONE)	INDIAN NEGRO NHITE MEXICAN AMERICAN
23.	IN WHAT SIZE COMMUNITY DID YOU LIVE MOST OF YOUR LIFE BEFORE AGE 14? (CHECK ONE) (IF YOU DON'T REMEMBER, MAKE AN APPROXIMATION)	LESS THAN 2,500 POPULATION 2,501 TO 10,000 POPULATION 10,001 TO 25,000 POPULATION 25,001 TO 50,000 POPULATION OVER 50,000 POPULATION 25,001 TO 50,000 POPULATION
24,	WHAT WAS YOUR FAMILY'S PRIMARY SOURCE OF INCOME MOST OF YOUR LIFE BEFORE YOU WERE 14? (CHECK ONE)	PARMING SELF EMPLOYED (NON AGRICULTURAL) WAGES OR SALARY WELFARE OTHER SAVINGS
25.	EDUCATION OF FATHER OR HEAD OF HOUSEHOLD WHEN YOU WERE GROWING UP. (CHECK HIGHEST LEVEL	4TH GRADE OR LESS GRADUATED FROM HIGH SCHOOL
	ATTAINED)	5TH OR 6TH GRADE SOME COLLEGE BUT NO DEGREE
		7TH OR 8TH GRADE ASSOCIATE DEGREE
		9TH OR 10TH GRADE BACCALAUREATE DEGREE
		117H OR 127H GRADE GRADUATE WORK OR PROFESSIONAL (NON-GRADUATE)
26.	OCCUPATION OF FATHER OR HEAD OF HOUSEHOLD WHEN YOU WERE GROWING UP? (CHECK ONE)	PROFESSIONAL OR KINDRED WORKERS (INCLUDES ACCOUNTANTS, ENGINEERS, PERSONNEL WORKERS, EYC.)
	TOO WERE GROWING OFF (CRECK ONE)	TECHNICIANS (DRAFTSMEN, ELECTRICAL TECHNICIANS, ETC.)
		MANAGERS, OFFICIALS, PROPRIETORS, FARM OWNERS, FARM MANAGERS
		CLERICAL OR KINDRED WORKERS (INCLUDES BOOKKEEPERS, CASHIERS, STORKKEEPERS, ETC.)
		SALES WORKEPS
		CRAFTSMEN, FOREMEN, AND KINDRED WORKERS (INCLUDES CARPENTERS, ELECTRICIANS, MACHINISTS, ETC.)
Π.	μ.	OPERATIVES AND KINDRED WORKERS (INCLUDES APPRENTICES ASSEMBLERS, TRUCK DRIVERS, DELIVERY MEN, WELDERS, ETC.)
		SERVICE WORKERS (INCLUDING PRIVATE HOUSEHOLD WORKERS, JANITORS, GUARDS, ETC.)
		LABORERS (INCLUDING FARM)
		OTHER (SPECIFY)
27.	WHAT WAS THE APPROXIMATE ANNUAL INCOME OF THE HOUSEHOLD IN WHICH YOU LIVED LAST YEAR?	UNDER \$3000.00 \$ 9000.00 TO \$11999.00
	(CHECK ONE)	\$3000.00 TO \$4999.00 \$12000.00 TO \$15000.00
		\$5000,00 TO \$6999.00 OVER \$15000.00
		\$7000.00 TO \$8999.00
28.		
	TO IN QUESTION NUMBER 27 ABOVE?	(NUMBER)

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APPENDIX B

PRE-LETTER BY PRIVATE SCHOOL ADMINISTRATORS

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Dear Alumnus:

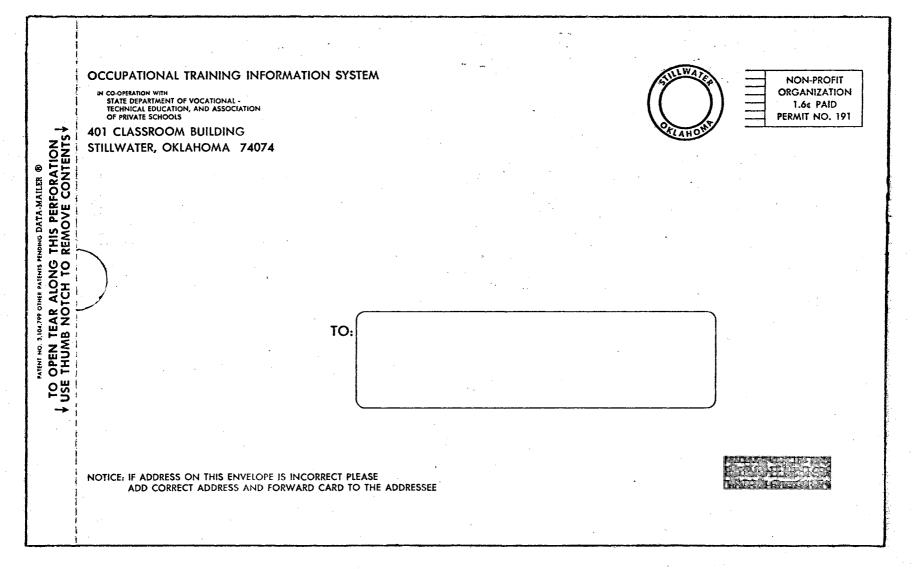
By the time you receive this letter, the United States may have landed the first men on the surface of the moon, 239,000 miles away. This feat has been made possible with the joint efforts of a large number of highly skilled people. Technical and other supporting skills, some like your own, are necessary for technical accomplishments of this magnitude. As such you are a part of the great endeavor which made this dream come true. We are justifiably proud of our training programs of which your success is a living testimony. We are now involved_in a project which will enable us to improve our programs still further. You can be of great service by providing the information on which to base these decisions to make the necessary improvements.

Within a few weeks, you will receive a convenient postage paid reply card from the Occupational Training Information System. Please complete and return the card without undue delay. The information received will be considered confidential and no personal identification will be required of you. In addition to improving our training programs, this information will aid in providing better job placements for you in the future, if needed.

If we can help you in any way, please do not hesitate to let us know. We thank you for your valuable assistance and wish you the best of luck in your endeavors. Sincerely,

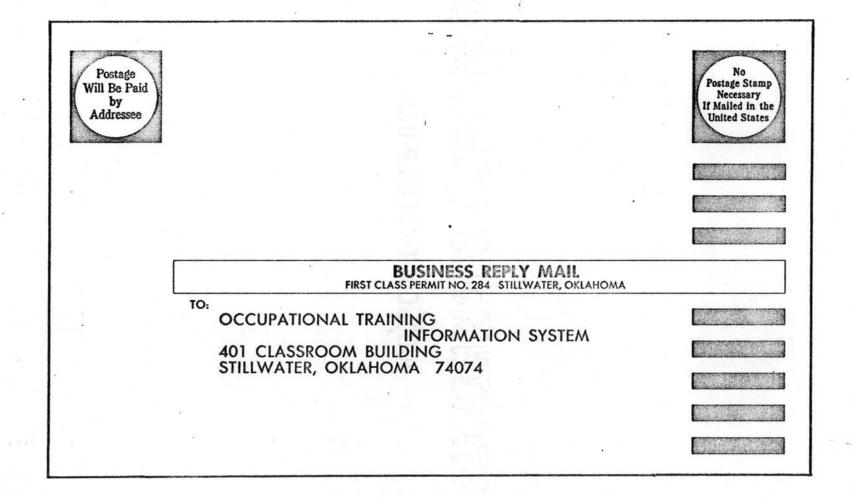
FOLLOW-UP QUESTIONNAIRE

APPENDIX C



с G

 DEAR FRIEND,				
US KNOW WHAT YOU ARE I TAKE NO MORE THAN A FEW	OF THE TRAINING YOU RECEIVED IN YOU DOING AT THIS TIME BY COMPLETING TH MINUTES OF YOUR TIME. WE NEED THIS II W HOW TO IMPROVE OUR PROGRAMS.	IE FIVE QUESTIONS	BELOW. THIS SHOULD HELP AID YOU IN LATER	
I. DID YOU COMPLETE THE OCCU WERE ENROLLED? (CHECK ONE	PATIONAL PROGRAM IN WHICH YOU) [] YES [2] NO	YEARLY	- THANK YOU! LOYED WHAT IS YOUR SALARY RANGE?	
OCCUPATIONAL TRAINING P WORKING FULL TIME IN OCC WORKING FULL TIME IN OCC CONTINUING FULL TIME IN S CONTINUING FULL TIME IN S ARMED SERVICES. EMPLOYED PART TIME, BUT N	CUPATION FOR WHICH YOU WERE TRAINED I PROGRAM. CUPATION RELATED TO TRAINING RECEIVED. CUPATION NOT RELATED TO TRAINING RECEI SCHOOL IN FIELD RELATED TO TRAINING. SCHOOL IN FIELD NOT RELATED TO TRAINING	IVED. G. V HOW V OCCUP	(1) UNDER \$3,000 (2) \$3,001 - 4,000 (3) \$4,001 - 5,000 (4) \$5,001 - 6,000 (5) \$6,001 - 7,000 (6) OVER \$7,000 VOULD YOU RATE YOUR ATIONAL PROGRAM IN OF EMPLOYMENT BENEFITS	s
UNEMPLOYED, SEEKING EMP UNEMPLOYED, NOT SEEKING UNEMPLOYED, NOT SEEKING UNEMPLOYED.		TO YOL	J? ONE) ① HIGH ② AVERAGE ③ LOW	
		TO YOU (CHECK	J? ONE) 11 HIGH 21 AVERAGE	
 INEMPLOYED, NOT SEEKING III. IF EMPLOYED: (a) WHAT IS YOUR JOB TITLE?	EMPLOYMENT.	TO YOU (CHECK	J? ONE) ① HIGH ② AVERAGE ③ LOW	:
 INEMPLOYED, NOT SEEKING III. IF EMPLOYED: (a) WHAT IS YOUR JOB TITLE? 	EMPLOYMENT.	TO YOU (CHECK	J? ONE) ① HIGH ② AVERAGE ③ LOW	



APPENDIX D

FIRST FOLLOW-UP REMINDER

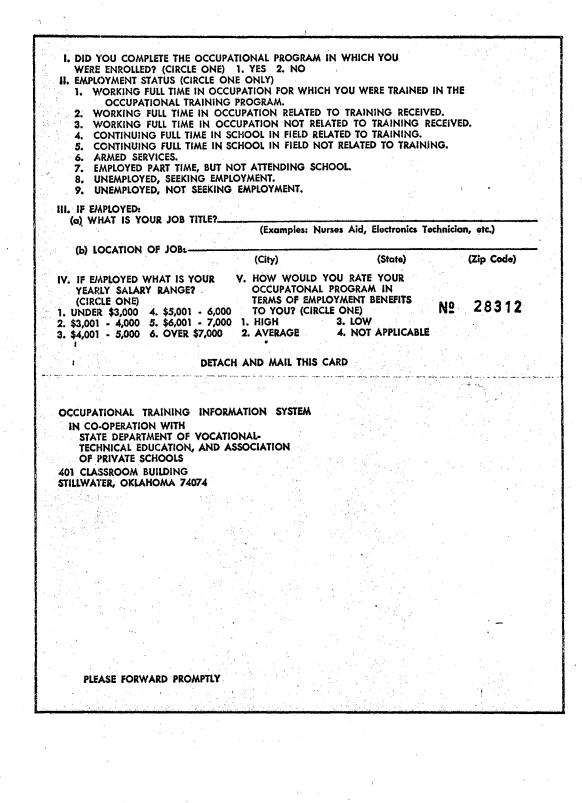
Dear Friend:

You recently received a request for some information about a Home Economics, Agriculture, Distributive Education, Business, or Technical Course or Program you took in an Oklahoma public or private school. Your reply is urgently needed in our effort to improve Oklahoma's occupational education programs.

Take an additional moment to tear off and complete the attached card. If, however; you have already mailed the questionnaire, please disregard this reminder.

THANK YOU!

1 FIRST CLASS Permit No. 284 Stillwater, Okla. BUSINESS REPLY MAIL 200.00 1000 GE NES MARY IF MAILED IN THE UNITED STATES \$22355 POSTAGE WILL BE PAID BY: OCCUPATIONAL TRAINING INFORMATION SYSTEM 401 CLASSROOM BUILDING S102000 STILLWATER, OKLAHOMA 74074 100.000



APPENDIX E

SECOND AND LAST FOLLOW-UP REMINDER

Sock it to me Jonna ! We just gotta know how you are doing and how you feel about the Office Educ program you were in. Please help us improve that program by completing the attached card and hot footing it out to the mail box. Do it now and fill my Christmas stocking! THANK YOU! Paul FIRST CLASS Permit No. 284 Stillwater, Okla. 22.25 BUSINESS REPLY MAIL NO POSTAGE NECESSARY IF MAILED IN THE UNITED STATES POSTAGE WILL BE PAID BY: OKLAHOMA STATE UNIVERSITY OCCUPATIONAL TRAINING INFORMATION SYSTEM 73X **401 CLASSROOM BUILDING** STILLWATER, OKLAHOMA 74074 911113 71119D 25009

1] 2] 3] 4] 5] 6] 7] 8]	I AM: (Check one) Working full time in occupation for which I Working full time in occupation related to t Working full time in occupation not related Continuing full time in school in field related to Continuing full time in school in field not related In armed services. Employed part time, but not attending scho Unemployed, seeking employment. Unemployed, not seeking employment.	training received. d to training received. to training. ted to training.
	IF EMPLOYED: My job title is:	
	(Examples:	Nurses Aid, Electronics Technician)
	(City)	(State) (Zip Code)
[1] [2] [3] [4] [5] [6]	\$3,000 - 4,000 \$4,000 - 5,000 \$5,000 - 6,000 \$6,000 - 7,000 Qver \$7,000	(Check ane) [1] High [2] Average [3] Low Nº 64090 [4] Not applicable
401	LAHOMA STATE UNIVERSITY CUPATIONAL TRAINING INFORMATION SYS N CO-OPERATION WITH STATE DEPARTMENT OF VOCATIONAL- TECHNICAL EDUCATION, AND ASSOCIATION OF PRIVATE SCHOOLS CLASSROOM BUILDING LWATER, OKLAHOMA 74074	
401	CUPATIONAL TRAINING INFORMATION SYS N CO-OPERATION WITH STATE DEPARTMENT OF VOCATIONAL- TECHNICAL EDUCATION, AND ASSOCIATION OF PRIVATE SCHOOLS CLASSROOM BUILDING	

VITA

K. Bryn Whatley

Candidate for the Degree of

Master of Science

Thesis: GEOGRAPHIC MOBILITY OF TRAINEES LEAVING VOCATIONAL AND TECHNICAL EDUCATION PROGRAMS IN OKLAHOMA

Major Field: Technical Education

Biographical:

- Personal Data: Born in Fowler, Kansas, October 13, 1934, the son of S. L. and Ruby Whatley.
- Education: Graduated from Classen High School, Oklahoma City, Oklahoma, in May 1953; received the Bachelor of Science degree from Oklahoma State University in 1967, with a major in Technical Education and minor in Electronics Technology; completed requirements for a Master of Science degree at Oklahoma State University in July 1970, as a Manpower Fellow with a major in Technical Education.
- Professional Experience: Television Serviceman, Fred's T. V., Stillwater, Oklahoma, 1956-58; Electronics Technician, Thompson's Radio and Television 1958-64; Quality Control Engineer in charge of Aerospace Flight-Unit Semi-conductors, Labko Scientific, Stillwater, Oklahoma, 1964-1966 full time, 1966-1970 as Consultant Engineer; Senior Electronics Instructor, Northwest Classen High School, Oklahoma City, Oklahoma, 1966-1968; Associate Programer Analyst, Occupational Training Information System, Oklahoma State University, Stillwater, Oklahoma, 1968-1970.

Professional Organizations: Phi Delta Kappa; Iota Lambda Sigma.