DEVELOPMENT AND APPLICATION OF A VOCATIONAL-

TECHNICAL PROFESSIONAL PERSONNEL

INFORMATION SYSTEM

By

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iii -

TABLE OF CONTENTS

۰.

| Chapter | | Page |
|---------------|--|----------------|
| I. ' | THE PROBLEM | 1 |
| | Introduction | 3 4 4 |
| II. | SURVEY OF THE LITERATURE | , 7 |
| | Studies of Teacher Characteristics | 13 |
| III. 1 | METHODOLOGY AND DESIGN | 16 |
| | Introduction | 16 17 |
| IV. | PRESENTATION AND ANALYSIS OF THE DATA | 31 |
| | Introduction | 31 32 |
| v . | SUMMARY, CONCLUSIONS AND RECOMMENDATIONS | 46 |
| | Summary of the Study | 46 47 49 |
| SELECTE | D BIBLIOGRAPHY | 51 |
| APPENDI | ΧΑ | 54 |
| APPENDI | КВ | 57 |
| APPENDI | x C | 62 |

| Chapter | | | Page |
|------------|---|-----|------|
| APPENDIX D | • • • • • • • • • • • • • • • • • • • | | 64 |
| APPENDIX E | | ••• | 72 |
| APPENDIX F | • | | 75 |

LIST OF TABLES

| Table | | Page |
|-------|--|------|
| I. | Distribution of Race and Sex of Oklahoma Public School Vocational and Technical Teachers Spring, 1971 | . 19 |
| II. | Distribution of Salary of Oklahoma Public School Vocational and Technical Personnel Spring, 1971 | 20 |
| 111. | Distribution of College Attended by Oklahoma Public School Vocational and Technical Education Personnel Spring, 1971 | 21 |
| IV. | Distribution of Degrees Held by Oklahoma Public School Vocational and Technical Personnel Spring, 1971 | . 22 |
| ν. | Years Teaching Experience in the School District of Oklahoma Public School Vocational and Technical Personnel Spring, 1971 | 23 |
| VI. | Total Years of Teaching Experience of Oklahoma Public School Vocational and Technical Personnel Spring, 1971 . | . 24 |
| VII. | Years Teaching Experience Out of State of Oklahoma Public School Vocational and Technical Personnel Spring, 1971 | . 25 |
| VIII. | Business and Office Teacher Mobility as It Relates to Degrees | . 33 |
| IX, | Business and Office Teacher Mobility as It Relates to Degrees (1 to 5 Years Experience) | . 34 |
| Χ. | Business and Office Teacher Mobility as It Relates to Degrees (6 to 10 Years Experience) | , 34 |
| XI. | Business and Office Teacher Mobility as It Relates to Age | . 36 |
| XII. | Business and Office Teacher Mobility as It Relates to Age (1 to 5 Years Experience) | . 37 |
| XIII. | Business and Office Teacher Mobility as It Relates to Age (6 to 10 Years Experience) | . 38 |

Table

| Page | |
|------|--|
| | |

| XIV. | Business and Office Teacher Mobility as It Relates to Institution | <u>4</u> 0 |
|--------|---|------------|
| XV. | Business and Office Teacher Mobility as It Relates to Institution (1 to 5 Years Experience) | 40 |
| XVI. | Business and Office Teacher Mobility as It Relates to Institution (6 to 10 Years Experience) | 41 |
| XVII. | Teachers in Age Categories by Type of Institution | 42 |
| XVIII. | Years of Vocational Teaching Experience by Type of Institution | 44 |
| XIX. | Business and Office Teachers Years of Occupational Experience by Institution | 45 |

* ...

LIST OF FIGURES

| Figu | re | 2age |
|------|---|------|
| 1. | A Model for a Vocational-Technical Professional | |
| | Personnel Information System | 27 |

CHAPTER I

THE PROBLEM

Introduction

The Education Professions Development Act (1) demonstrates that both the Congress and the President have given educational manpower and training needs a high priority. The Act recognizes that the training and retraining of teachers is central to any new curriculum or innovation in school organization and that without the active involvement of teachers, new programs will stand little chance of success. Additionally, it pays heed to the idea that the responsibility of the training of teachers lies not only with the teacher training institution but also with the local school and the community it serves--a concept that also implies the active participation of the state.

Vocational and technical education in Oklahoma is now serving 65,045 secondary students; 4,747 post-secondary students; and 35,226 adults. There are approximately 1,799 vocational teachers, including 191 local vocational administrators, presently receiving supervision and financial aid from the State Board of Vocational and Technical Education (2).

The growth of the area vocational-technical schools in Oklahoma emphasizes the need for training and retraining of vocational educators. Twenty-five percent of Oklahoma's high schools and 75 percent of Oklahoma's students are now in school districts served by area vocationaltechnical schools. One study projects the need for a total of 26 area school districts served by 34 schools if every person in the state is to have access to an area school (3).

Qualified personnel to fill administrative and teaching positions in the area vocational-technical schools, local high schools, junior colleges, teacher training institutions, and the State Department of Vocational and Technical Education have not been and are not now available. Vocational teachers have always been in short supply, and they in turn become the primary supply from which vocational teacher trainers and administrators are drawn.

As programs and need for teachers have developed, teacher education programs have developed to supply the demand. Oklahoma is fortunate to have several teacher colleges; and in most instances, they have done outstanding work in the production of classroom teachers for vocational and technical education. In some cases, however, there has been a time lag of serveral years between the need for teachers of emerging occupations and the development of a teacher education program. In some areas of teacher education, the supply of new teachers far exceed the demand, while in others the supply falls short. <u>The Demand for and Supply of Vocational and Technical Teachers in Oklahoma: 1972-1976</u> indicates a surplus of 47 business and office teachers and a demand for 188 additional health education teachers (4).

In addition to the supply of teachers trained for certain divisions, there are other needs in the training of personnel. Much work needs to be done in the area of in-service training of teachers, many of whom are teaching with little formal education beyond high school. Other vocational-technical teachers need help in removing deficiencies in

their technical knowledge. Still others have lost contact with the working world as their occupational experience becomes outdated. Vocational administrators, industrial coordinators, vocational counselors and curriculum specialists, teachers of special programs, and some other critical shortage teaching areas are presently being ignored in our personnel training program. Newly designed programs, shifting of administrative and operational procedures and new directions of emphasis within our teacher training institutions must be achieved if we are to meet the new and expanding needs of vocational and technical education.

Records accumulate in the filing cabinets of the State Department of Vocational and Technical Education with the expectation that they will aid in planning alternatives to the problems mentioned above. However, in order for these records to become useful information and aid in the planning process, they must be easily retrieved and manipulated to produce meaningful reports. "A requisite for effective management is the availability of complete, accurate, and up-to-date information and data. Decisions are only as good as the information upon which the decisions are based (5)."

"An index to all personnel in a company is of extreme importance to an overall information center (5)." Not only should personnel data supply information on education, experience, turnover, and other personnel data, but "it should enable a company to find the best person for a given job and to find the best person to answer a given technical question (5)."

Statement of the Problem

The problem with which this study is concerned is the lack of a sufficient data base relating to Oklahoma vocational-technical personnel

from which the information necessary for statewide planning may be extracted.

The development of a sufficient data base relating to Oklahoma vocational-technical personnel that would make available the information necessary for planning professional personnel development activities includes not only the gathering of information but also a systematic process by which the data is gathered and periodically updated. Such a data base would probably include information concerning personal characteristics, education, work experience, teaching experience, certification and mobility. (7), in a study of in-service education, concluded that planners of in-service education should be cognizant of the personal experiences of the teachers and the effect of these experiences on the in-service program.

Purpose of the Study

The purpose of this study is to develop and test a systematic process of establishing and maintaining a vocational and technical professional personnel information system and to show how the information might be presented to aid administrative planning.

Need for the Study

The need for the study is generated by the necessity of coordinating pre-service and in-service vocational-technical teacher education on a statewide basis in an effort to better meet the needs of present and future teachers. A systematic approach to the collection, retention, and evaluation of professional personnel information is necessary groundwork for the establishment of a master plan. George Ferns, Professor at Michigan State University, declared that a comprehensive inventory of personnel is not only highly desirable, but in fact necessary, for sound planning. He further stated that personnel counts are insufficient in themselves, since knowledge of professional qualities or characteristics is at least as important (6).

In addition, the generation of reports required by the U. S. Office of Education, as well as data necessary for completion of the Oklahoma State Plan for Vocational and Technical Education could be greatly facilitated by such an information system.

Examples of Use of the Data

Many areas of interest could be investigated if a teacher information file is available, whether the file is on computer magnetic tape or in the file cabinets of the division supervisors. The purpose of the study, however, is the development of a system that can make current, reliable information available for planning purposes. Consequently, the following representative relationships will be examined:

- The relationships between mobility and (a) degree, (b) age, and
 (c) type of institution.
- 2. The age distributions within the division and within the type of institution.
- 3. The relationships between teaching experience, occupational experience, and type of institution.

Definition of Terms

Data Bank--The accumulation of data items making up individual records within an information file and available for future processing.

Data Base--Same as data bank.

<u>Division</u>--The administrative unit within the State Department of Vocational and Technical Education that is responsible for educational areas; i.e., Health Occupations, Technical Education, Home Economics Education, etc.

<u>Division Supervisors</u>-State department administrators who have the responsibility for supervising the subject matter areas; such as the State Supervisors for Trade and Industrial Education, for Business and Office Education, for Agricultural Education, etc.

<u>Debug</u>--To detect, locate, and remove all malfunction from a computer routine.

<u>Keypunch</u>--The process of using a keypunch machine to transcribe information into a machine readable card.

<u>Magnetic Tape--An information storage ribbon capable of storing</u> large amounts of machine readable information.

<u>Occupational Experience</u>-Experience in a job that is related to the subject matter being taught by the teacher.

<u>Punch Card</u>--A stiff paper card capable of storing 80 characters of information in the form of holes in the card.

<u>State Conference</u>--An annual conference held each August for Oklahoma vocational and technical education teachers.

CHAPTER II

SURVEY OF THE LITERATURE

Studies of Teacher Characteristics

The collection of data related to teacher characteristics falls into three categories: (1) the description or profile of the teachers, (2) the use of background characteristics for evaluation, and (3) the identification of problems in areas such as mobility and pre-service and in-service education.

Teacher Description

The objectives of a national survey by the National Center for Educational Statistics entitled <u>Vocational Education: Characteristics</u> <u>of Teachers and Students 1969</u> (8) were to gather information on backgrounds and teaching loads of vocational education teachers, to gather information on the personal characteristics and future plans of vocational education students, and to develop a technique for surveying teachers and students that could later be applied in greater depth at state and local levels. The procedure involved mailing a questionnaire to 2,574 teachers. Fifty-eight percent of the teachers on the original mailing list responded.

Fern (6) expended "much time and effort" assembling "a comprehensive inventory of personnel in Michigan," but the best that could be done under the circumstances was to locate existing data, attempt to cover certain works with original research, and to integrate the findings for presentation." He recommended that "a centralized, computerized vocational-technical personnel data bank should be established, covering all types of in-service personnel."

Several descriptive inventories of the California trade and technical teachers have been conducted: two by Melvin Barlow and Gail Moore (9, 10) covering the period 1945-1950 and a third by David Allen (11) covering the period 1955-1962.

Phair (12), in a study of new faculty of California community colleges, collected information on teaching experience, educational level, subject areas, and institutions attended.

Barlow and Reinhart (13) conducted a descriptive study of the votech teacher in California entitled <u>Profiles of Trade and Technical</u> <u>Teachers</u> which is probably the most significant study in this area at the present time. Its primary use was to supply basic information necessary for policy-making and decision-making, as well as the enhancement of the status of trade and technical teachers. They proceeded on the comprehensive profile study as follows.

An up-to-date list of full-time trade and technical teachers in California was not in existence. The population of the study was limited to trade and technical teachers with full-time credentials who were not primarily in supervision or administration.

In order to identify the population, a basic description questionnaire was sent out and eventually resulted in the selection of 2,238 teachers.

Fourteen group interviews were conducted throughout the state. Three hundred ten teachers from these counties were selected randomly to attend the interviews. One hundred eighty-five teachers attended the sessions. The interviews attempted to identify teacher perceptions and suggestions through the use of self-perception questionnaires.

The group sessions were followed up by a prescription-description questionnaire. A random sample of 510 teachers was drawn from the population. One-half the teachers were sent a prescription questionnaire (how things should be done), and one half were sent a description questionnaire (how things are done). Interpretation of the data was based on an 80 percent return.

The results in terms of tables, graphs, and charts attempted to answer the following questions:

1. What do teachers teach?

2. How old are trade and technical teachers?

3. What is the sex and marital status of teachers?

4. Where do teachers teach?

5. How many credentials do teachers hold clear?

6. What do teachers with full-time credentials do?

7. How much formal education do teachers have?

8. Do new teachers have more education?

9. Do teachers work for degrees while teaching?

10. Do teachers plan more education?

11. How much work experience do teachers have?

12. How much teaching experience do teachers have?

13. What is unique about trade and technical teacher careers?

14. Are there any institutional differences?

15. How much do public school teachers earn?

16. What is appreciated most in pre-service training?

17. What do teachers suggest for in-service training?

18. How do teachers perceive a good school environment?

19. Do teachers join organizations?

20. What organizations do teachers join?

21. What characterizes their organizational affiliations?

22. What is the county distribution of teachers?

Barlow and Reinhart (14) published a comprehensive study of trade and technical leaders in California utilizing the same general type of personal characteristics but with an emphasis on their leadership responsibilities.

A study of Minnesota day school trade and industrial teachers in area vocational schools was made by Ernest (15). Questionnaires returned by 203 certified trade and industrial instructors provided descriptive information for the Minnesota State Department of Education and teacher training programs. The results included information relating to age, sex, pre-service and in-service education, industrial experience, certification, professional organizations, and salary.

Elouise Johnson (16) conducted a descriptive survey of teachers of private trade and technical schools associated with the national association of trade and technical schools. With a 40 percent questionnaire return, Elouise Johnson determined the typical teacher was male, 36 to 55 years old, was directly recruited from industry, had eight years work experience, was active in curriculum and test development, and used a variety of visual aids. He had two classes of 30 students each. Twothirds taught full-time, 32 hours a week, and spent seven hours of personal time in preparation. High school was completed by 99 percent, while 62 percent had one or more years of college. One-fourth were taking trade or teaching methods courses. Thirty teachers reported more than 20 years teaching experience; 123, more than 10 years; 78, one year. Pre-service teacher training was usually obtained through supervised teaching.

A study similar to Barlow and Reinhart's (13) was conducted in Wisconsin by Gibbs (17). Basic differences included the testing of several hypotheses by Gibbs such as "Mobility will vary according to curriculum area and the year the teacher entered the system." Gibbs's data was gathered entirely by a questionnaire mailed out over the signiature of the state director.

An attempt to identify the specific characteristics typical of vocational agriculture teachers in the state of North Carolina (18) revealed, among other things, the fact that most of the teachers were educated within the state and were involved in continuous programs of education.

Teacher Characteristics Related to Evaluation

In a study of technical teachers of post high school programs, Storm (19) identified a national population of 304 teachers and sought to evaluate the differences between high- and low-success teachers on the basis of background characteristics. Kurth and Gianini (20), on the other hand, tried to determine the professional competency of teachers of technical education in Florida based on similar characteristics.

Personal characteristics and situational perceptions of junior college instructors as related to innovativeness was studied by Wygal (21). With the exception of age, all personal and background characteristics studied appeared to have little value in the prediction of innovativeness. Allen and Meyers (22) evaluated a new method of certification two years after it was put into effect by examining the industrial arts and trade and technical teachers according to subject area, work experience, teaching experience, and level of education attainment.

Hemp (23) and Brantner (7) examined the effectiveness of in-service education by studying past participation and teacher opinion.

Teacher Characteristics Related to Problem Areas

Teacher background experiences concerning education, industrial experience, teacher load, and attitudes were related to problem areas by Holman (24) and Turner (25). Problem areas identified were (1) inadequate preparation time, (2) teaching experience, (3) educational preparation, (4) in-service training, and (5) materials and facilities.

The problem of teacher certification was examined in detail by the Massachusetts Advisory Council on Education (26). The value of available and current information on teachers for certifying purposes was felt to be necessary.

Orlich and Craven (27) approached the problem of teacher mobility through the development of an information system for teacher turnover in public schools. Tom Edgar (28) studied the problem of teacher mobility by collecting data on personal characteristics evidenced by turnover teachers such as sex, age, marital status, number of dependents, degree held, and teaching certificate held.

Keefe (29) developed a computer information system for the complete 750-man staff of the Pennsbury, Pennsylvania, school system. He reports that the data bank has uncovered a range of previously unknown skills. In addition to providing the usual payroll and other financial reports, the data is used in developing cost figures for the budget. It is particularly useful in filling openings on the staff and allows administrators to know the progress of teachers as they continue their education.

Information Systems

It is impossible to specify all the information needs prior to system implementation according to Lewis (30). In fact, he states that one of the most important capabilities required in a formal information system is that of satisfying unexpected demands in a reasonable time and at a reasonable cost. Further, an information system should have established data standards that would allow an interrelation between data files.

An information system is a tool for monitoring a constantly changing environment. The fact that the information verifies that the variables are within tolerance does not nullify the value of the system. Andrew and Moir (31) report that knowledge which signals the need or lack of need for a decision is one form of information; whereas, knowledge of details relating to a problem area that suggests available alternatives is another form of information.

Dyke (5), a nationally recognized authority on information handling and management, says an index to all personnel in a company is of extreme importance to an overall information center. Not only should an index to personnel data supply data on recruitment, training, turnover studies, salary and fringe benefit statistics, and other personnel data, but it should enable a company to find the best person for a given job and to find the best person to answer a given technical question.

The listing below was identified by Krauss (32) as key needs that

- 1. Render faster decisions
 - a. Detect and authenticate opportunity
 - b. Identify and isolate problems
 - c. Define and analyze situations
 - d. Evaluate and appraise alternative courses of action
- 2. Accomplish more in available time
 - a. Think more deeply about the situation
 - b. Ponder other variables
 - c. Gauge and contemplate ramifications
 - d. Investigate more alternatives

3. Make more thorough analysis

- a. Review more meaningful information
- b. Obtain a better collection of relevant viewpoints
- c. Use advanced management techniques; that is, methods of industrial operations research
- d. Simulate more conditions
- e. Ask and examine more questions, particularly the "what if" type

Summary

The total description of the vocational-technical teacher and the use of the information for planning purposes, evaluation, and the identification of problem areas has been greatly neglected by most states.

Probably more studies have been made of the California teachers than the teachers of any other state. In addition, the Barlow-Reinhart (13) study is, no doubt, the most outstanding research in this area.

By far the most popular method of collecting data on teacher characteristics is by mailed questionnaire. The type of teacher characteristics commonly studied are mobility, certification, personal characteristics (age, sex, marital status, etc.), pre-service education, in-service education, teaching duties, and occupational experience.

Two very important needs become obvious from the search of the literature. The first is the need for studies similar to Barlow's (13) and Gibbs's (17) for all states. Not only would information be available for decision makers at the teacher institutions and state offices, but comparisons could be made between the states, allowing comparative analysis. The second is a need for an information system which would allow the data to be collected systematically each year and would be available in a multitude of combinations for planning purposes.

CHAPTER III

METHODOLOGY AND DESIGN

Introduction

Practically all studies of teacher personnel involve the accumulation of data by use of a questionnaire sent out to the individual teachers. The data collected has the obvious disadvantages of being incomplete; i.e., some questionnaires not returned and inaccurate, questions misunderstood, omitted, or incorrectly answered. Teachers are constantly being bombarded by questionnaires from state departments, teacher institutions, and graduate students doing research. Invariably they ask for their name, age, address, sex, marital status, position, salary, and so on, ad infinitum. It is no wonder that teachers become disgruntled, answering the same questions over and over with very little feedback concerning the results and findings. This study does not propose to eliminate the questionnaire, but it does propose to limit it to requests for information of a new or changing nature.

Design Rationale

A large body of information has already been collected on each teacher within the state. However, the information is not available at any one place or in any standardized form. For instance, the Finance Department has payroll and reimbursement information, the teacher retirement office has age and social security number, the Teacher Certification

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Department has information on teacher certification, and the division supervisors have a variety of personal and educational information. A study of the information available indicates the lack of feasibility of attempting to compile a personnel records system based on available data due to the lack of standardization between files, the absence of some necessary information, and the varying degrees of currency existing between individual personnel records.

Tables I through VII contain the results of the initial study of existing records contained in files belonging to the Oklahoma State Department of Education and the Finance Division of the State Department of Vocational and Technical Education. The information presented in the tables is valuable and several conclusions could be based upon the information as presented. However, the obvious limitations of not including post secondary instructors and broad descriptive categories such as other High School Vocational and Area Vocational School Teachers severely limits the value in statewide planning for professional personnel development.

Design

A professional personnel information system should include information on all teachers and administrators who are employed in public secondary and post secondary occupational education within the state. This study, however, is limited to the development of a perpetual teacher information inventory. As a result, only teachers who are full time, reimbursed, business and office teachers are included in testing the system and determining planning applications.

The system is divided into four distinct phases. Phase one is the

establishment of a single personnel file for all Oklahoma vocational and technical business and office teachers presently employed. Information was collected for the majority of the personnel at the Annual Vocational-Technical August Conference. Those teachers not present will be contacted by mail, by phone, and by personal contact until the file is complete. The information gathered is shown in Appendix A, Professional Personnel Information Survey.

Phase II is the addition of new personnel records and the deletion of records of personnel leaving the system. New personnel will complete an application for employment form (see Appendix B) that is standardized for all divisions and follows the same basic format as the Information Survey form referred to previously. Upon employment, the division supervisor will forward a copy of the application form to the person responsible for maintenance of the system. The necessary information will be extracted from the application form and entered in the information file.

When a teacher terminates employment, a termination of employment card (see Appendix C) will be completed by the division supervisor which will result in the employee record being transferred to an inactive personnel file. Phase III involves file purification, updating, and accumulation of new information. Once each year portions of each personnel record will be printed out and mailed to the employee for verification and updating. Changes made by the employee will be added to the personnel files. At this time, or at the Annual August Conference, additional information may be collected and added to the data bank of information.

The final phase is the generation of information in the form of lists and tables that could be used for administrative planning.

TABLE I

| | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|--------------|-------------|---------|----------------|---------|--------------------------|---------|-------------------|---------|
| Group | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| White Male | 379 | 98 | 3 | 1 | 281 | 68 | 64 | 80 |
| White Female | | | 347 | 96 | 97 | 24 | 15 | 19 |
| Black Male | 6 | 2 | | | 19 | 5 | | |
| Black Female | | | 11 | 3 | 14 | 3 | 1 | 1 |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 |

DISTRIBUTION OF RACE AND SEX OF OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL TEACHERS SPRING, 1971

Total Population--1,237 teachers and administrators

100

Source: Oklahoma State Department of Education.

TABLE II

DISTRIBUTION OF SALARY OF OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL PERSONNEL SPRING, 1971

| | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|-------------------|-------------|---------|----------------|---------|--------------------------|-----------|---------------------------------------|---------|
| Salary | Number | Percent | Number | Percent | Number | # Percent | Number | Percent |
| Less than 6,500 | | | 2 | 1 | 5 | 1 | · · · · · · · · · · · · · · · · · · · | |
| 6,500 - 6,999 | | | 3 | 1 | 5 | 1 | | |
| 7,000 - 7,499 | 1 | 0 | 111 | 31 | 51 | 15 | | |
| 7,500 - 7,999 | 5 | 1 | 62 | 17 | 70 | 17 | 10 | 13 |
| 8,000 - 8,499 | 98 | 25 | 88 | 24 | 81 | 21 | 13 | 16 |
| 8,500 - 8,999 | 57 | 15 | 58 | 16 | 67 | 16 | 10 | 13 |
| 9,000 - 9,499 | 99 | 26 | 25 | 7 | 49 | 12 | 17 | 21 |
| 9,500 - 9,999 | 87 | 23 | 9 . | 2 | 3 2 | 8 | 10 | 13 |
| 10,000 - 10,499 | 28 | 7 | 3 | 1 | 19 | 5 | 3 | 4 |
| 10,500 - 10,999 | 9 | 2 | | | 7 | 2 | 7 | 9 |
| 11,000 - 11,499 | 1 | 0 | | | 10 | 2 | 10 | 13 |
| 11,500 - 11,999 | | | | | 2 | -0 | | |
| 12,000 - 12,499 | | | | | | | | |
| 12,500 or Greater | | | | | 3 | 1 | | |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 |

Source: Oklahoma State Department of Vocational and Technical Education.

TABLE III

DISTRIBUTION OF COLLEGE ATTENDED BY OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL EDUCATION PERSONNEL SPRING, 1971

| | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | | |
|--------------|--------------------------------|---------|----------------|------------------|-------------------------------|----------------|-------------------|--------|---------|
| College | Number | Percent | Number Percent | Number Percent N | Number Percent Number Percent | Number Percent | | Number | Percent |
| | - · H · - | | 53 | 15 | 33 | 8 | 3 | 4 | |
| OSU | 371 | 96 | 179 | 50 | 155 | 38 | 38 | 47 | |
| CSU | 1 | 0 | 5 | 1 | 26 | 6 | 7 | 9 | |
| ECSC | 1 | 0 | 3 | 1 | 25 | 6 | 4 | 5 | |
| NWSC | | | 1 | 0 | 13 | 3 | | | |
| NESC | 1 | 0 | 8 | 1 | 26 | 6 | 4 | . 5 | |
| SESC | 2 | 1 | 9 | 2 | 17 | 4 | 3 | 4 | |
| SWSC | 3 | 1 | 6 | 2 | 12 | 3 | 2 | 3 | |
| Panhandle | | | | | 2 | 0 | | | |
| OCLA | | | 57 | 16 | 2 | 0 | 2 | 3 | |
| Langston | 1 | 0 | 3 | 1 | 6 | 1 | 1 | 1 | |
| Bene. Hts. | | | | | | | | | |
| Bethany | | | 1 | 0, | | | | | |
| OBU | | | | | | | | | |
| OCU | - < | | | | 6 | 1 | 1 | 1 | |
| Phillips | 1 | 0 | 1 | 0 | 3 | 1 | 3 | 4 | |
| Tulsa | | | | | 1 | 0 | 2 | 3 | |
| OCC | | | | | | | | | |
| Oral Roberts | | | | | | | | | |
| Out of State | 4 | 1 | 35 | 10 | 84 | 20 | 10 | 13 | |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 | |

Source: Oklahoma State Department of Education.

TABLE IV

| | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|--------------------------------------|-------------|---------|----------------|---------|--------------------------|---------|-------------------|---------|
| Degree | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| 70 Hrs. & Under | | | | · | 125 | 30 | 7 | 9 |
| Over 70 Hrs. & Under a Bachelor's | | | | | 18 | 4 | 4 | 5 |
| Bachelor Degree | 273 | 71 | 272 | 75 | 137 | 33 | 30 | 38 |
| Master's Degree | 112 | 29 | 89 | 25 | 131 | 32 | 38 | 48 |
| Doctorate | | | | | | | 1 | . 1 |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 8 0 | 100 |

DISTRIBUTION OF DEGREES HELD BY OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL PERSONNEL SPRING, 1971

Source: Oklahoma State Department of Education.

TABLE V

| | Agrić | ulture | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|------------------|--------|---------|----------------|---------|--------------------------|---------|-------------------|---------|
| Years Experience | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| 099 | 57 | 15 | 72 | 20 | 98 | 24 | 11 | 14 |
| 1 - 1.99 | 46 | 12 | 54 | 15 | 39 | 9 | 5 | 6 |
| 2 - 2.99 | 42 | 11 | 31 | 9 | 44 | 11 | 6 | 8 |
| 3 - 3.99 | 23 | 6 | 26 | 7 | 61 | 15 | 22 | 27 |
| 4 - 4.99 | 25 | 6 | 20 | 6 | 20 | 5 | 10 | 13 |
| 5 - 5.99 | 25 | 6 | 18 | 5 | 22 | 5 | 7 | 9 |
| 6 - 6.99 | 16 | 4 | 17 | 5 | 9 | 2 | 2 | 3 |
| 7 - 7.99 | 14 | 4 | . 9 | 2 | 6 | 1 | 3 | 4 |
| 8 - 8.99 | 5 | 1 | 20 | 6 | 10 | 2 | 1 | 1 |
| 9 - 9.99 | 9 | 2 | 10 | 3 | 10 | 2 | | |
| 10 - 14.99 | 45 | 12 | 27 | 7 | 36 | 9 | 4 | 5 |
| 15 - 19.99 | 28 | 7 | 30 | 8 | 19 | 5 | 7 | 9 |
| 20 - 24.99 | 36 | 9 | 15 | 4 | 19 | 5 | 1 | 1 |
| 25 - 29.99 | 11 | 3 | 8 | 2 | 11 | 3 | 1 | 1 |
| 30 - 34.99 | 2 | 1 | 3 | 1 | 3 | 1 | | |
| 35 - 39.99 | 2 | 1 | 1 | 0 | 4 | 1 | | |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 |

YEARS TEACHING EXPERIENCE IN THE SCHOOL DISTRICT OF OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL PERSONNEL SPRING, 1971

Source: Oklahoma State Department of Education

TABLE VI

| | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|------------------|-------------|---------|----------------|---------|--------------------------|---------|-------------------|---------|
| Years Experience | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| 099 | 19 | 5 | 39 | 11 | 70 | 17 | 8 | 10 |
| 1 - 1.99 | 28 | 7 | 44 | 12 | 31 | 8 | 6 | 8 |
| 2 - 2.99 | 23 | 6 | 19 | 5 | 44 | 11 | 3 | 4 |
| 3 - 3.99 | 21 | 5 | 23 | 6 | 53 | 13 | 17 | 21 |
| 4 - 4.99 | 22 | 6 | 20 | 6 | 9 | 2 | 3 | 4 |
| 5 - 5.99 | 20 | 5 | 14 | 4 | 15 | 4 | 5 | 6 |
| 6 - 6.99 | 14 | 4 | 11 | 3 | 10 | 2 | 2 | 3 |
| 7 - 7.99 | 9 | 2 | 11 | 3 | 7 | 2 | 3 | 4 |
| 8 - 8.99 | 9 | 2 | 9 | 2 | 18 | 4 | 2 | 3 |
| 9 - 9.99 | 14 | 4 | 9 | 2 | 7 | 2 | 2 | 3 |
| 10 - 14.99 | 45 | 12 | 44 | 12 | 40 | 10 | 7 | 9 |
| 15 - 19.99 | 26 | 7 | 38 | 11 | 34 | 8 | 7 | 9 |
| 20 - 24.99 | 80 | 21 | 35 | 10 | 31 | 8 | 10 | 13 |
| 25 - 29.99 | 38 | 10 | 23 | 6 | 18 | 4 | 1 | 1 |
| 30 - 34.99 | 11 | 3 | 15 | 4 | 14 | 3 | 4 | 5 |
| 35 - 39.99 | 6 | 2 | 7 | 2 | 10 | 2 | | |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 |

TOTAL YEARS OF TEACHING EXPERIENCE OF OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL PERSONNEL SPRING, 1971

Source: Oklahoma State Department of Education.

TABLE VII

| Years Experience | Agriculture | | Home Economics | | Other H.S. Vocational | | Area Voc. Schools | |
|------------------|-------------|---------|----------------|---------|--------------------------|---------|-------------------|---------|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| 099 | 312 | 81 | 288 | 80 | 362 | 88 | 64 | 80 |
| 1 - 1.99 | 23 | 6. | 25 | 7 | 16 | 4 | 5 | 6 |
| 2 - 2.99 | 15 | 4 | 20 | 6 | 10 | 2 | 5 | 6 |
| 3 - 3.99 | 12 | 3 | 6 | 2 | 6 | 1 | 3 | 4 |
| 4 – 4.99 | 9 | 2 | 8 | 2 | | | | |
| 5 - 5.99 | 5 | 1 | 5 | 1 | 7 | 2 | | |
| 6 - 6.99 | 3 | 1 | 5 3 1 | 1 | 3 | 1 | | |
| 7 - 7.99 | 1 | 0 | 1 | 0 | 1 | 0 | 2 | 3 |
| 8 - 8.99 | 1 | 0 | | | | | | |
| 9 - 9.99 | 1 | 0 | | | | | | |
| 10 - 14.99 | 3 | 1 | 4 | 1 | 6 | 1 | | |
| 15 - 19.99 | | | 1 | 0 | | | | |
| 20 - 24.99 | | | | | | | | |
| 25 - 29.99 | | | | | | | | |
| 30 - 34.99 | | | | | | | | |
| 35 - 39.99 | | | | | | | | |
| Total | 385 | 100 | 361 | 100 | 411 | 100 | 80 | 100 |

YEARS TEACHING EXPERIENCE OUT OF STATE OF OKLAHOMA PUBLIC SCHOOL VOCATIONAL AND TECHNICAL PERSONNEL SPRING, 1971

Source: Oklahoma State Department of Education.

The result is a centralized information system from which data would be available for research and planning. In addition, updated and accurate personnel records will be available to division supervisors and local administrators as a source of information for administrative decisions. Figure 1 indicates a flow diagram of a model for the information system.

Procedure

Phase I: Establishment of the Data Base

In order to determine the basic data desired by the State Department educational services, a study was made of the application for employment forms being used by the divisions. A rough synthesis of the application for employment forms was constructed. Suggestions and criticism of the new form was encouraged in individual conferences with the division supervisors. The final draft of a standardized Application for Employment Form (Appendix B) was accepted by the State Department supervisors and the Assistant State Director. A Professional Personnel Information Survey Form (Appendix A) was developed to correspond with the application form and was used to collect data on teachers presently employed.

Information was collected on approximately 93 percent of the business and office teachers in Oklahoma at the 1971 August Conference. The forms were manually coded using the Occupational Training Information System (33) school code and the U. S. Office of Education occupational objective code that most nearly described the teaching position.

The information contained on the Professional Personnel Information Survey Form was then transcribed onto computer punch card and subsequently transferred to magnetic computer tape.

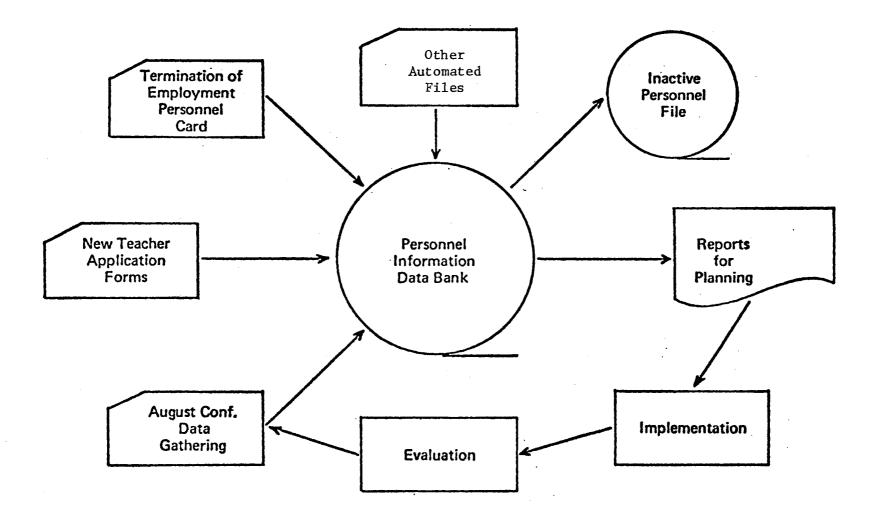


Figure 1: A Model for a Vocational-Technical Professional Personnel Information System

Phase II: Changes to the Personnel Data Base

Once the basic data base of information was established, it became necessary to provide a means of keeping it current. Teachers are hired and fired. They quit and transfer to new positions within the state. Therefore, there are three basic changes that need to be considered.

The first change is the addition of a new teacher. When a new teacher is employed, the division supervisor will forward a copy of the Application for Employment Form (Appendix B) to the person responsible for system maintenance. He will see that the information is keypunched on computer punch card and added to the magnetic tape teacher information file.

When teachers terminate their employment as a vocational-technical teacher or transfer to a new position and/or school, a Transfer or Termination of Employment Form (Appendix C) will be completed by the division supervisor and forwarded to the person responsible for keypunching and processing. The punched card is checked by computer to determine if it is a transfer card or a termination card. If it is a transfer card, the new position or school will be entered on the magnetic tape file. If it is a termination card, the record is deleted from the teacher personnel tape file and the record is transferred to an inactive file.

The input for Phase II, then, is a Termination or Transfer Card or a two-card record for a new teacher. The output for Phase II is an updated record for the transferring teacher, the addition of a record for the new teacher, and the transfer of record to an inactive file for the terminating teacher. Phase III: File Purification, Updating and Accumulation of New Information

A list of the business and office teachers was printed by the computer from the data file. The list was arranged alphabetically by name and by school to aid the division in the identification of teachers not on the list. A copy of the list is contained in Appendix D. Other information, such as degree, college hours, and years of occupational experience, was also included as a service to the supervisor. Those seven teachers in the business and office division whose records were not a part of the file were contacted and Professional Personnel Information Survey Forms were completed on them. The records were keypunched and added to the data file in the same manner that new teacher records would be added to the file.

Normal operating procedures would include such a listing to be forwarded to division supervisors at least semi-annually. A basic update of the personnel file would be made at that time by asking for transfer, termination, or application forms for each teacher falling into these categories.

A portion of the personnel records of the business and office teacher was printed by computer, folded, and inserted in a window envelope along with a form letter written by the State Supervisor for Business and Office Education. (See Appendix E.) The printed record that was mailed to the teacher contained much information subject to change; i.e., degree, college hours, home phone, etc. The teacher was asked to return the record to the division after correcting changed or inaccurate data and certifying the unchanged data as being correct. An 83 percent return was received on the first mailing. A 97 percent return was finally achieved as a result of subsequent contacts. The changed information was keypunched and the personnel file was updated.

A verification and updating mailing would probably be made annually and at different times for the different divisions. By spreading the operation over several months, returns would accumulate and be processed periodically, reducing the possibility of a work overload at the data center. At the time of mailing, questionnaires could be included that would allow the collection of information for research, planning of inservice education, or provide an addition to the basic data base.

Phase IV: Reports Available for Planning

No attempt was made to generate all of the various ways of putting the information in the personnel file together to form charts. Several tables were generated, however, in an effort to demonstrate how the information might be presented.

CHAPTER IV

PRESENTATION AND ANALYSIS OF THE DATA

Introduction

The primary purpose of the study was to develop and test a systematic process of maintaining a current vocational-technical teacher information system and to show how the data might be manipulated and tables generated to aid administrative planning. The development and testing of the system was explained in Chapter III. In order to show application, the following objectives were specified:

- 1. To examine the relationships between mobility and (a) degree,
 - (b) age, and (c) type of institution.
- 2. To examine the age distribution within the division and within the type of institution.
- 3. To examine the relationships between teaching experience, occupational experience, and type of institution.

Computer programs were written and used to generate the tables included in this chapter. In this particular instance, the information could probably have been manually tabulated in less time since it took several weeks to write, test, and debug the programs. However, future reports of the same type for each of the other divisions can now be generated periodically in a matter of minutes.

21

Findings of the Study

Mobility

Mobility is described by Webster as the capability of moving or being moved. In examining the mobility of teachers, Edgar (27) studied the characteristics of teachers who had recently changed positions, whereas Orlich and Craven (26) developed an information system for keeping records of teachers and their position change patterns.

The information gathered for this study requested the teacher to report past mobility data, such as the number of schools in which they have taught and/or administered vocational courses, the total number of years of teaching experience, and the number of years of vocational teaching experience. This information allows the immediate compilation and analysis of teacher mobility. The system also provides for accumulation of mobility and turnover data as it occurs, which in the future should be invaluable in determining teacher demand information.

The fact that teachers have made "x" number of moves has little meaning without relating it to the number of years of experience. Consequently, a mobility factor was calculated for each teacher.

Mobility = Number of years of vocational education experience Number of schools

Where, the number of years of vocational education experience is the sum of the years of vocational teaching experience and the years of vocational administration experience. The number of schools is equal to the sum of the number of schools in which they taught vocational education and administered vocational education courses.

Mobility vs. Degrees

Table VIII indicates a relationship between mobility and degrees. Sixty percent of the high mobility teachers (1 to 2 years/move) have bachelor degrees, whereas 82 percent and 76 percent of the lower mobility teachers (those having 3 to 4 and 5 to 6 years per move, respectively) have master's degrees. It might be assumed that the mobility difference is primarily a difference in the number of years of experience. Combining information from Tables VIII, IX, and X indicates that 88 percent of the teachers with bachelor degrees have 1 to 5 years experience and 70 percent of those with master's degrees have from 6 to 10 years experience, thus adding weight to the previously mentioned assumption.

TABLE VIII

| | Mobility (Yrs/Move) | | | | | | | | | | | | |
|------------|---------------------|-----|------------|--------|-----|--------|-----|-----|----------|-----|--|--|--|
| | 1 to 2 | | 3 to | 3 to 4 | | 5 to 6 | | 8 | 9 and Up | | | | |
| Degree | No. | % | No. | % | No. | % | No. | % | No. | % | | | |
| None | 0 | 0 | .0 | 0 | 3 | 7 | .0 | 0 | Q | | | | |
| Bachelor | 23 | 60 | 6 | 17 | 5 | 15 | 1 | 100 | 0 | C | | | |
| Master | 15 | 39 | 25 | 82 | 27 | . 76 | 0 | 0 | 1 | 100 | | | |
| Specialist | 0 | 0 | Q - | 0 | 0 | 0 | 0 | 0 | 0 | (| | | |
| Doctor | 0 | .0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C | | | |
| Total | 38 | 100 | 31 | 100 | 35 | 100 | 1 | 100 | 1 | 100 | | | |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO DEGREES

| | | | Mob | oility | (Yrs/Mov | e) | | |
|------------|------|------------|------|------------|----------|------------|------|----|
| | 1 to | 2 | 3 to | 5 4 | 5 t | o 6 | Tota | a1 |
| Degree | No. | % | No. | % | No. | % | No. | % |
| None | 0 | 0 | 0 | 0 | 1 | 8 | 1 | 1 |
| Bachelor | 22 | 5 9 | 5 | 2 0 | 4 | 25 | 31 | 39 |
| Master | 15 | 40 | 22 | 80 | 11 | 6 6 | 48 | 60 |
| Specialist | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Doctor | 0 | Ò | 0 | 0 | 0 | 0 | 0 | 0 |

27

100

16

100

80

100

Total

37

100

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO DEGREES (1 TO 5 YEARS EXPERIENCE)

TABLE IX

TABLE X

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO DEGREES (6 TO 10 YEARS EXPERIENCE)

| | Mobility (Yrs/Move) | | | | | | | | | | | | |
|---------------------|---------------------|----------|------|-----|------|-----|-------------|----------|-----|-----|--|--|--|
| | 1 to | <u>2</u> | 3 to | o 4 | 5 to | o 6 | 7 to | 8 | Tot | tal | | | |
| Degree | No. | % | No. | % | No. | % | No. | % | No. | % | | | |
| None | 0 | 0 | 0 | 0 | 1 | 7:: | 0 | 0 | 1 | 4 | | | |
| Bachelor | 1 | 100 | 0 | 0 | 1` | 7 | - 1 | 100 | 3 | 13 | | | |
| Master | 0 | 0 | 4 | 100 | 15 | 85 | 15 0 | 0 | 19 | 79 | | | |
| Spec ialis t | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | C | | | |
| Doctor | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C | | | |
| Total | 1 | 100 | 4 | 100 | 17 | 100 | 1 | 100 | 23 | 100 | | | |

Table IX relates mobility to degrees for those teachers having from one to five years experience. The table indicates that 59 percent of the bachelor degree teachers are in the one to two years per move category. Eighty percent and 66 percent of teachers in the three to four and five to six years per move categories, respectively, are composed of masters degree teachers. The conclusion that bachelor degree teachers are more mobile is verified by calculating the percent of bachelors degree teachers in the one to two year per move bracket (70 percent). Fortysix percent of the masters degree teachers are in the three to four year per move category.

Table X shows 85 percent of the low mobility, six to ten year per move teachers, have master's degrees. Further calculations indicate 63 percent of all business and office teacher with six to ten years experience have master's degrees and a five to six year per move mobility factor.

Mobility vs. Age

One would normally suspect that younger people are more mobile than older people. It is believed that this is borne out by Tables XI, XII, and XIII. Table XI does show, however, that 76 percent of the teachers that have changed positions every one to two years of their vocational teaching experience are 36 years of age and older.

It is interesting to note in Table XII something that bears out the assumption that younger people are more mobile. That is that 92 percent of the people in the five to six year mobility category are 36 years of age or older. These people would necessarily have five years experience and have not changed positions. Likewise, further manipulation of the

35

TABLE XI

| | Mobility (Yrs/Move) | | | | | | | | | | | |
|---------|---------------------|--------|-----|--------|-----|-----|------|-----|----------|-----|--|--|
| | 1 to | 1 to 2 | | 3 to 4 | | o 6 | 7 to | o 8 | 9 and Up | | | |
| Age | No. | % | No. | % | No. | % | No. | % | No. | % | | |
| 20 - 25 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 26 - 30 | 8 | 21 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 31 - 35 | 0 | 0 | 4 | 13 | 2 | 7 | 0 | 0 | 0 | 0 | | |
| 36 - 40 | 9 | 25 | 8 | 26 | 7 | 19 | 0 | 0 | 0 | 0 | | |
| 41 - 45 | 6 | 1,7 | 7 | 21 | 8 | 23 | 0 | 0 | 0 | 0 | | |
| 46 - 50 | 3 | 7 | 7 | 21 | 9 | 26 | 0 | 0 | 0 | 0 | | |
| 51 - 55 | 8 | 21 | 4 | 13 | 5 | 15 | 0 | 0 | 1 | 100 | | |
| 56 - 60 | 1 | 3 | 0 | 0 | 1 | 3 | 1 | 100 | 0 | 0 | | |
| 61 - 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | 36 | 100 | 31 | 100 | 33 | 100 | 1 | 100 | 1 | 100 | | |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO AGE

TABLE XII

| | - 1944 | 'n | Mobility | (Yrs/Move) | | |
|---------|---------|-----|----------|------------|------|-----|
| | 1 t | o 2 | 3 to | 5 4 | 5 to | 5 6 |
| Age | No. | % | No. | z | No. | % |
| 20 - 25 | 1 | 3 | 0 | 0 | 0 | 0 |
| 26 - 30 | 8 | 22 | 1 | 5 | 0 | 0 |
| 31 - 35 | 0 | 0 | 4 | 15 | 1 | 8 |
| 36 - 40 | 9 | 25 | 5 | 20 | 3 | 16 |
| 41 - 45 | 6 | 18 | 7 | 25 | 3 | 16 |
| 46 - 50 | . 1 | 3 | 5 | 20 | 4 | 25 |
| 51 - 55 | . 8 | 22 | 4 | 15 | 4 | 25 |
| 56 - 60 | 1 | 3 | 0 | 0 | 1 | 8 |
| 61 - 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66 - Up | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 34 | 100 | 26 | 100 | 16 | 100 |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO AGE (1 TO 5 YEARS EXPERIENCE)

TABLE XIII

| | Mobility (Yrs/Move) | | | | | | | | | | | | |
|-----------------|---------------------|--------|-----|--------|-----|------|--------|-----|--|--|--|--|--|
| | 1 | 1 to 2 | | 3 to 4 | | to 6 | 7 to 8 | | | | | | |
| Age | No. | % | No. | % | No. | % | No. | % | | | | | |
| 20 - 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 26 - 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 31 - 35 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | | | | | |
| 36 - 40 | 0 | 0 | 2 | 50 | 4 | 21 | 0 | 0 | | | | | |
| 41 - 45 | 0 | 0 | 1 | 25 | 5 | 28 | 0 | 0 | | | | | |
| 4 6 – 50 | 1 | 100 | 1 | 25 | 5 | 28 | 0 | 0 | | | | | |
| 51 - 55 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | | | | | |
| 56 - 60 | 0 | 0 | 0 | 0 | Ò | 0 | 1 | 100 | | | | | |
| 61 - 65 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 0 | | | | | |
| 66 - Up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Total | 1 | 100 | 4 | 100 | 17 | 100 | 1 | 100 | | | | | |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO AGE (6 TO 10 YEARS EXPERIENCE)

data in Table XIII indicates 68 percent of all the teachers with six to ten years experience average five to six years at each position and are 36 years of age and older.

Mobility vs. Institution

Tables XIV, XV, and XVI relate mobility to the type of institution. As shown in Table XIV, area vocational school personnel make up the highest percentage of the high mobility (one to two years per move) group and high school personnel compose 68 percent of the less mobile (five to six years per move group). Further calculations of the data presented in Tables XV and XVI show: (1) 42 percent of high school teachers with one to five years experience have changed schools every three to four years, (2) 65 percent of the area vocational school teachers with one to five years experience have changed schools every one to two years, and (3) 62 percent of all teachers with six to ten years experience have a mobility factor of five to six years per move and are high school teachers.

Age Distribution Within Division and by Type of Institution

Table XVII indicates an even distribution of ages throughout the business and office teachers. Approximately 50 percent of the teachers are age 40 and below in the total division in the high school and in the area vocational school. The high school teachers have 60 percent in the age range 36 to 50 with the percentages trailing off at higher and lower ages. The area vocational schools, however, show a higher percentage of teachers 30 and below and above 50 years of age than the high school teachers.

TABLE XIV

| | | Mobility (Yrs/Move) | | | | | | | | | | | |
|-------------------|------|---------------------|------|-----|-----|------------|-----|-----|-----|-------|--|--|--|
| | 1 to | o 2 | 3 to | o 4 | 5 t | o <u>6</u> | 7 t | o 8 | 9 a | nd Up | | | |
| Institution | No. | % | No. | % | No. | % | No. | % | No. | % | | | |
| High School | 16 | 43 | 19 | 61 | 23 | 68 | 1 | 100 | 1 | 100 | | | |
| Area School | 17 | 46 | 7 | 22 | 7 | 20 | 0 | 0 | 0 | 0 | | | |
| Junior College | 4 | 11 | 5 | 17 | 4 | 12 | 0 | 0 | 0 | 0 | | | |
| Total | 37 | 100 | 31 | 100 | 34 | 100 | 1 | 100 | 1 | 100 | | | |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO INSTITUTION

TABLE XV

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BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO INSTITUTION (1 TO 5 YEARS EXPERIENCE)

| | | Mobility (Yrs/Move) | | | | | | | | | | | |
|-------------------|-----|---------------------|-----|--------|-----|-----|-------|-----|--|--|--|--|--|
| | 1 t | 1 to 2 | | 3 to 4 | | 06 | Total | | | | | | |
| Institution | No. | % | No. | % | No. | % | No. | % | | | | | |
| High School | 16 | 43 | 18 | 65 | 8 | 55 | 42 | 53 | | | | | |
| Area School | 17 | 46 | 5 | 20 | 4 | 27 | 26 | 33 | | | | | |
| Junior College | 4 | 11 | 4 | 15 | 3 | 18 | 11 | 14 | | | | | |
| Total | 37 | 100 | 27 | 100 | 15 | 100 | 79 | 100 | | | | | |

| | | | | Мор | ility | (Yrs/M | ove) | | | |
|---------------------|-----|-----|------|-----|-------|--------|------|-----|------|-------|
| | 1 t | o 2 | 3 to | 5_4 | 5 t | o 6 | 7 to | o 8 | 9 ai | nd Up |
| Institution | No. | % | No. | % | No. | % | No. | % | No. | % |
| High School | 0 | 0 | 1 | 33 | 15 | 79 | 1 | 100 | 1 | 100 |
| A rea School | 0 | 0 | 1 | 33 | 3 | 14 | 0 | 0 | 0 | 0 |
| Junior College | 0 | 0 | 1 | 33 | 1 | 7 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 3 | 100 | 19 | 100 | 1 | 100 | 1 | 100 |

BUSINESS AND OFFICE TEACHER MOBILITY AS IT RELATES TO INSTITUTION (6 TO 10 YEARS EXPERIENCE)

TABLE XVI

TABLE XVII

TEACHERS IN AGE CATEGORIES BY TYPE OF INSTITUTION

| | High School | | Area Tech S | | Juni Coll | | Tot | al |
|--------------------|----------------|-----|----------------|-----|--------------|-----|-----|-----|
| Age | No. | % | No. | % | No. | % | No. | % |
| 21 - 25 | 2 | 4 | 3 | 9 | 2 | 11 | 7 · | 7 |
| 26 - 30 | 4 | 7 | 6 | 19 | 1 | 6 | 11 | 10 |
| 31 - 35 | 8 | 15 | 2 | 6 | 4 | 22 | 14 | 13 |
| 36 - 40 | °11 | 20 | 4 | 13 | 5 | 28 | 20 | 19 |
| 41 - 45 | 11 | 20 | 5 | 19 | 1 | 6. | 17 | 16 |
| 46 - 50 | 11 | 20 | 2 | 6 | 4 | 22 | 17 | 16 |
| 51 - 55 | 5 | 9 | 8 | 25 | 2 | 6 | 14 | 13 |
| 56 - 6 0 | 2 | 4 | 2 | 6 | 0 | 0 | 4 | 4 |
| 61 - 65 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 |
| 66 - Up | 0 | 0 | 0 | 0 | 0 | 0 | 0 | C |
| Total | 55 | 100 | 32 | 100 | 18 | 100 | 105 | 100 |
| Mean Age | 41 | .6 | 40 | .8 | 40 | .9 | 41 | .2 |

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Experience

Vocational and technical teachers must, of necessity, have two areas of competency. The first is occupational and the second teaching or professional. There are many factors involved in evaluating these experiences and certainly the depth, level, and variety of the experiences are as important as the time factor. Most of these characteristics are very difficult to measure and, as a result, years are often equated with quality. The limitations are recognized, but it is also realized that most, if not all, vocational certification requires a minimum number of years of occupations experience. Also, most school systems base salary scales on number of years of teaching experience. Consequently, Tables XVIII and XIX equate experience with number of years.

Table XVIII indicates 67 percent of high school business and office teachers have four years of teaching experience or more. Sixty-eight percent of the area vocational school teachers, on the other hand, have three years teaching experience or less.

Thirty-eight percent of the teachers have two years or less of occupational experience as shown in Table XIX. Thirty-one percent of high school teachers and 48 percent of the area vocational school teachers fall in this category.

TABLE XVIII

| | | .gh 1001 | Area Tech S | | Juni Coll | | Total | |
|----------------------|-----|-------------|----------------|-----|--------------|-----|-------|-----|
| Years | No. | % | No. | % | No. | % | No. | % |
| 1 | 5 | 9 | 11 | 35 | 3 | 18 | 19 | 18 |
| 2 | 5 | 9 | 3 | 9 | 1 | 9 | 9 | 9 |
| 3 | 8 | 13 | 7 | 22 | 4 | 27 | 19 | 18 |
| 4 | 11 | 18 | 3 | 9 | 1 | 9 | 14 | 13 |
| 5 | 11 | 18 | 4 | 13 | 3 | 18 | 18 | 17 |
| 6 - 10 | 17 | 29 | 4 | 13 | 3 | 18 | 25 | 24 |
| 11 - 15 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 |
| Total | 58 | 100 | 32 | 100 | 15 | 100 | 105 | 100 |
| Mean No. of Years | 5. | 0 | 3. | 2 | 4. | 0 | 4. | 3 |

YEARS OF VOCATIONAL TEACHING EXPERIENCE BY TYPE OF INSTITUTION

TABLE XIX

BUSINESS AND OFFICE TEACHERS' YEARS OF OCCUPATIONAL EXPERIENCE BY INSTITUTION

| | | .gh 1001 | Area Tech S | | Juni Coll | | Tot | al |
|----------------------|-----|-------------|----------------|-----|--------------|-----|-----|-----|
| Years | No. | % | No. | % | No. | % | No. | % |
| 0 | 5 | 9 | 4 | 12 | 3 | 18 | 12 | 11 |
| 1 | 6 | 11 | 3 | 9 | 2 | 12 | 11 | 10 |
| 2 | 7 | 13 | 9 | 27 | 2 | 12 | 18 | 17 |
| 3 | 6 | 11 | 6 | 18 | 4 | 24 | 16 | 15 |
| 4 | 5 | 9 | 1 | 3 | 1 | 6 | 7 | 6 |
| .5 | 10 | 18 | 4 | 12 | 0 | 0 | 14 | 13 |
| 6 - 10 | 12 | 21 | 1 | 3 | 1 | 6 | 14 | 13 |
| 1 - 15 | 3 | 5 | 1 | 3 | 3 | 18 | 7 | 6 |
| 6 - 20 | 1 | 2 | 2 | 6 | 1 | 6 | 5 | 5 |
| 1 - 25 | 1 | 2 | 1 | 3 | 0 | 0 | 3 | 3 |
| .6 - 30 | 0 | 0 | 1 | 3 | 0 | 0 | 1 | 1 |
| Tot al | 56 | 100 | 33 | 100 | 17 | 100 | 106 | 100 |
| Mean No. of Years | 5. | 1 | 5. | 2 | 5. | 1 | 5. | 1 |

CHAPTER V

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Summary of the Study

The problem attacked by this study was the lack of a sufficient data base of vocational-technical personnel information necessary for planning purposes. The purpose of the study was to develop a data base, provide a systematic means of updating the information, and test the system. A secondary objective was to show how the data might be presented as an aid to planning situations.

An initial study of available information was done in order to determine the feasibility of collecting information from currently available sources. While some valuable information was available, problems involving its collection, currency, and reliability made further study necessary.

The information study did reveal that the primary source of teacher information was the application for employment forms. Therefore, the application for employment form was revised and standardized for all vocational-technical education divisions. An information survey form was designed to collect information on employed teachers that in the future would be collected on the application form.

The teachers of business and office education were selected as a test group. These teachers completed the information survey form at the 1971 State Conference held in August. The information was coded and

1.1

put on computer tape. A listing of teachers in the file was made available to the division supervisor in order to assure that all teacher personnel were included. In May of 1972, a computerized printout of basic data was mailed to the teachers with instructions asking them to verify the data and make appropriate changes. These changes were incorporated in the original data file.

Provision was made to add new teachers to the file and to maintain a record of transferring and terminating teachers.

Findings and Conclusions

Specific findings regarding the investigation of representative administrative planning data are limited to the teachers of business and office education and are as follows:

- Teachers holding master's degrees move less than teachers with bachelor's degrees.
- 2. Younger teachers move more than older teachers.
- Area vocational school teachers move more than high school teachers.
- The teachers are fairly evenly distributed through the ages
 26 to 55 and this age group comprises 88 percent of the business and office teachers.
- 5. A higher percentage of area vocational school teachers are younger than 30 and older than 50 years of age than are high school teachers.
- 6. High school teachers have more teaching experience and occupational experience than area vocational school teachers.

Conclusions

The primary conclusion drawn from this study is that an information system involving all vocational-technical personnel can be implemented on a statewide basis utilizing a small investment for personnel and equipment. Such a system would be invaluable as an information source for planning and administrative decision-making.

A few of the possible uses of such a system are as follows:

- In-service teacher training could be greatly enhanced by identifying those teachers who are lacking in occupational experience, certification requirements, and recent professional coursework.
- 2. Information for reports, such as those required for the State Plan, could be made available. These reports require such information as the number of teachers in each division, subdivided by secondary, post-secondary, and adult teachers, as well as their in-service education participation.
- 3. Provide a means of following up teachers who have dropped out of the state system through utilization of the inactive teacher file, which contains the date of termination and a permanent home address. A computerized letter similar to the one mailed to present teachers could be mailed periodically to teachers on the inactive file, thereby updating the information contained in the file.
- 4. The inactive file could be a source of experienced teachers when a vacancy opened as well as a source of teachers for evening adult program.

5. A longitudinal study of mobility and teacher characteristics may provide valuable information in hiring better and more stable teachers. A present, five-year study, evaluating vocational programs, coordinated with a study of characteristics of the teachers of those programs, may provide some guidance in the continued quest for educational excellence.

The greatest advantage of the information system developed in this study is not necessarily the actual data presently in the file. The fact that the file is on magnetic tape and the record length expandable allows additional information to be added and to be available in a variety of cross-references with other information. The additional information can be easily collected and added to the record when the teacher record is sent out for verification. At the same time, questions relating to pre-service education, in-service education, or other areas of interest may be solicited for research or planning purposes even though the information is not to be included in the teacher record.

Recommendations

It is recommended:

- That the information system developed in this study be expanded to include the teachers of each occupational division.
- 2. That the system be explained to local administrators, teacher educators, and members of the state staff in order to make them aware of the information that could be made available to them for planning purposes.
- 3. That a member of the Oklahoma State Department of Vocational and Technical Education be assigned the responsibility and

49

authority for maintenance and further development of the system.

Further Study

It is recommended that the system be expanded to include vocational administrators, adult teachers, vocational education personnel, and staff of the Oklahoma State Department of Vocational and Technical Education. The person responsible for the system should continue to work with the vocational and technical education administrators in order to determine what data items should be added to the personnel records. Also, the feasibility of establishing similar automated record systems for all graduates of vocational and technical teacher education programs in Oklahoma should be examined.

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APPENDIX A

PROFESSIONAL PERSONNEL INFORMATION SURVEY FORM

EXPLANATION SHEET FOR THE PROFESSIONAL PERSONNEL INFORMATION SURVEY

POSITION - Be Specific. EXAMPLE: Teacher; Agricultural Mechanics.

- PLACE OF EMPLOYMENT Completely identify the school. EXAMPLE: Star-Spencer High School, Oklahoma City.
- ITEMS 7 and 9 refer to subjects or areas that you (or your spouse) are approved to teach as shown on your teacher's certificate.
- ITEMS 12 and 13 are mutually exclusive (a year is counted as either teaching or administering). Count a year administrative if onehalf or more of the time was spent in administration.
- ITEM 15 refers to occupational experience that is either directly or indirectly related to the subjects you teach.

PROFESSIONAL PERSONNEL INFORMATION SURVEY

STATE DEPARTMENT OF VOCATIONAL AND TECHNICAL EDUCATION 1515 West Sixth Avenue, Stillwater, Oklahoma 74074 <u>Please Print Clearly</u>

| | | | | Social Securi (1-9) | ity Number | | | |
|-----------|--------------------|------------------------|-------------------|-------------------------|--------------|---------------------|---------|--------------|
| | | | | Position | | | | |
| | | | . • | (10-18) Place of Emr | lovment | | | |
| | | | | (19-24) | Joyment | | | |
| 1. | Name | | | Date of | Birth | | Sex | |
| 2 | (25-38) Present | Last AddressSt. No. | First Initial | | | Mon-Day-Yr State | | 1-F |
| ~. | 1 Jescher | | | Ony | | | Zip | |
| 3. | Permane | ent Address-St. No. | | City | | State | Zip | |
| | Lloma D | (46-59) | | (60-65) | | (66-67) | (68-72) | |
| 4, | Home P (73-79 | | | | 1: res | N |) | |
| 5. | (11-Y | -N) | | Date: Fro | | | | |
| 6. | 112 | | | Divorced | | | | |
| 7. | Does yo | ur spouse have a tea | cher's certifica | te? Yes No | In v | vhat field? | 116 161 | |
| | | | | Provisional | | | | |
| | | (17) | . Temperary_ | | | | | |
| 9. | | approval | , , | | | <u></u> | | |
| 10. | Total nu | mber of schools in | which you have | e taught vo-tech course | es | (24-25) | | |
| | adr | ninistered vo-tech c | ourses | (26-27) | - | (24-25) | | |
| 11. | Total nu | mber of years expe | rience as an edu | icator | | | | |
| | • | ` | | (28-29) | | | | |
| 12. | Number | of years of vo-tech | teaching exper | ience(30-31) | | | | |
| 13. | Number | of years of vo-tech | administrative | ovorionce | | | | |
| | | | | | 32-33) | | | |
| 14. | Number | of years taught out | side Oklahoma | (34-35) | | | | |
| 15. | How ma | ny years of related | occupational ex | perience do you have | 7 | | | |
| | | , , , | | | (3 | 6-37) | • | |
| | | ties, Colleges, Tech | nical Institutes, | Technical Colleges, M | ilitary Scho | ols Attended | | |
| Yrs. From | Attended 1 To | N | ame and Address o | of Institution | Major | Degrees R | ecd. | Late |
| ***** | | | | | | | | |
| | | | | | | | | _ |
| | | | | | | | | |
| • | | | | | | | | |
| | 9) (48-49) | | (40-41) | | (42-46) | (47) | | |
| Tota | al numbe | r of college hours co | mpleted | | | | | |
| Muri | abor of t | aver al aver bast at a | · | (50-52) | | | | |
| NUT | IDSL OT U | ours above bachelor | s degree | (53-55) | | | | |
| | | | | | | | | |

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APPENDIX B

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APPLICATION FOR EMPLOYMENT FORM

| | (Optional) | | App | Dication for I Please Print | Employment Clearly | |
|--|--|---|---|---|--|-----------------|
| | | For Position | n of | | | |
| | <u></u> | | | | Date of Application | n |
| | | | | | Soc. Sec. Number | |
| | Name | | | Date of Bir | th | Sav |
| | (25-38) Last | First Initial | Middle Initial | (39-44) | Mon-Day-Yr | (45) M·F |
| <u>}.</u> | Present Address-St. No | • | Cit | Y | State | Zip |
| 3. | Permanent AddressSt. N | 0 | Cit | Y | State (66-67) | Zip |
| | (40-33 | <i></i> | (60- | | Yes1 | |
| | · (73-79) | | | (10) | | |
| 5. | Military Service: Branch_ (11-Y-N) | | Da | te: From | То | |
| | Marital Status: Single | Marriad | | araad | Constant | Widow |
| 5. | (12) | | | | | |
| _ | (12) | | | | | |
| 6. 7. 8. | (12) | eacher's certifica | ate? Yes | _No | In what field? | (14-16) |
| 7. 8. | (12) Does your spouse have a t What certificate do you he | eacher's certifica | ate? Yes | _No | In what field? | (14-16) |
| 7. B. 9. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools i | eacher's certifica old? Temporary n which you hav | e taught vo-tec | No nalSta | _ In what field? | (14-16) None |
| 7. B. 9. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools i administered vo-tech | eacher's certifica old? Temporary n which you hav courses | e taught vo-tec | _No nalSta | _ In what field? | (14-16) None |
| 7. 3. 9. 0. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools i administered vo-tech Total number of years exp | eacher's certifica old? Temporary n which you hav courses perience as an ed | etaught vo-teo (26-27) | _No nalSta | _ In what field? | (14-16) None |
| 7. B. 9. 0. | (12) Does your spouse have a t What certificate do you ha (17) Areas of approval (18-23) Total number of schools i administered vo-tech Total number of years exp Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen | e taught vo-tec (26-27) hucator | No [13] nalSta th courses (28-29) (30-31) | _ In what field? | (14-16) None |
| 7. 3. 9. 0. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools i administered vo-tech Total number of years exp | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen | e taught vo-tec (26-27) hucator | No nalSta th courses (28-29) (30-31) | _ In what field? | (14-16) None |
| 7. 3. 9. 0. | (12) Does your spouse have a t What certificate do you have (17) Areas of approval (18-23) Total number of schools in administered vo-tech Total number of years exp Number of years of vo-tech Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative | e taught vo-tec (26-27) ucator rience | No [13] nalSta th courses (28-29) (30-31) (32-33) | _ In what field? | (14-16) None |
| 7. B. 9. 0. 1. 2. 3. 4. | (12) Does your spouse have a t What certificate do you have (17) Areas of approval (18-23) Total number of schools in administered vo-tech Total number of years exp Number of years of vo-tech Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative utside Oklahoma | e taught vo-tec (26-27) lucator rience experience (34-34 | No nalSta th courses (28-29) (30-31) (32-33) 5) | _ In what field? | (14-16) None |
| 7. 3. 9. 9. 1. 2. 3. 4. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools in administered vo-tech Total number of years exp Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative utside Oklahoma d occupational e | e taught vo-tec (26-27) lucator rience experience (34-34 | No nalSta th courses (28-29) (30-31) (32-33) 5) | _ In what field? | (14-16) None |
| 7. 3. 9. 0. 1. 2. 3. 4. | (12) Does your spouse have a t What certificate do you have (17) Areas of approval (18-23) Total number of schools in administered vo-tech Total number of years exp Number of years of vo-tech Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative utside Oklahoma d occupational e | e taught vo-tec (26-27) lucator rience experience (34-34 | No nalSta th courses (28-29) (30-31) (32-33) 5) | _ In what field? andardLife (24-25 | (14-16) None |
| 7. 3. 9. 9. 1. 2. 3. 4. 5. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools in administered vo-tech Total number of years exp Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech Number of years of vo-tech | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative utside Oklahoma d occupational e | e taught vo-tec (26-27) lucator rience experience (34-34 | No nalSta th courses (28-29) (30-31) (32-33) 5) | _ In what field? andardLife (24-25 | (14-16) None |
| 7. B. 9. 0. 1. 2. 3. 4. 5. | (12) Does your spouse have a t What certificate do you he (17) Areas of approval (18-23) Total number of schools i administered vo-tech Total number of years exp Number of years of vo-tec Number of years of vo-tec Number of years of vo-tec Number of years of vo-tec Number of years of vo-tec Dumber of years taught of How many years of related | eacher's certifica old? Temporary n which you hav o courses perience as an ed ch teaching expen- ch administrative utside Oklahoma d occupational e ment | e taught vo-tec (26-27) lucator rience experience (34-34 | No nalSta h courses (28-29) (30-31) (32-33) 5) rou have? | _ In what field? andardLife (24-25 | (14-16) None |

NOTE: This application must be accompanied by a transcript of all college work.

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FOR USE BY STATE STAFF ' (Applicant, please do not write on this page.)

APPLICATION SUBMITTED BY

| Representative of Local School Board | |
|--------------------------------------|---------|
| | Date |
| | Remarks |
| TO BE EMPLOYED BY | |

| School | (19-24) |
|----------------------|----------|
| School Address | Zip |
| Date Duties Begin | , 19 |
| Salary Reimb | ursement |
| Position | (10-18) |
| Contract Dates: From | To |

APPLICATION REVIEWED

| Date | , 19 |
|---|----------|
| Applicant Approved Condition of Approval | Rejected |
| | ····· |

Notified Name of Applicant 19

PERSONNEL RECORD REVIEWED AND UPDATED

.

| Date | Initials |
|------|----------|
| | |
| . • | |
| | |
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| | |
| | |

State Supervisor

Reasons for Disapproval

Signature

IN-SERVICE TEACHER TRAINING RECORD

| Date | College or University | Subject | Number of Hours |
|------|-----------------------|----------|-----------------|
| | | | |
| | | | |
| | | | |
| | | <u> </u> | |
| | | I | |

RECENT OCCUPATIONAL EXPERIENCE

| Date | | · · · · · · · · · · · · · · · · · · · | Full- or | |
|--------|--|---------------------------------------|-----------|--|
| rom To | Name and Address of Employer | Type of Work | Part-Time | |
| · | | | | |
| | | | | |
| | | | | |
| | ***** | | | |
| | ······································ | | | |
| | · · · · · · · · · · · · · · · · · · · | | | |

THIS SPACE AVAILABLE FOR INDIVIDUAL DIVISION INFORMATION

.

Universities, Colleges, Technical Institutes, Technical Colleges, Military Schools Attended

| Yrs. Att From | tended To | Name and Address of Institution | Major | Degrees Recd. | Date |
|------------------|--------------|---------------------------------|---------|---------------|------|
| | | | 1 | | 1 |
| | | | | | 1 |
| | • | | 1 | | 1 |
| | | | | | |
| | | | | | · |
| 38-39) | (48-49) | (40-41) | (42-46) | (47) | |

(50-52)

Total number of college hours completed____

.

Number of hours above bachelor's degree (53-55)

18. TEACHING EXPERIENCE (Begin with most recent experience and work back.)

| From | To | Name and Address of School | Subjects Taught |
|------|----|----------------------------|-----------------|
| | | | |
| | | | |
| | | • | |
| | | | |
| | | | |

19. OCCUPATIONAL EXPERIENCE (Begin with most recent experience and work back.)

| From | То | Name and Address of Employer | Type of Experience |
|-------------|----|------------------------------|--------------------|
| ····· | | | |
| | | | |
| | | | |
| | | | |
| | | · · · · · | 1 |

20. Description of work experience and special training not previously listed:

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21. Give the name and complete mailing address of three persons (not related) qualified to speak concerning your occupational experience:

| Name | Address | Occupation |
|--|---------|------------|
| | | |
| ······································ | | |
| | | |
| | | |

APPENDIX C

TRANSFER OR TERMINATION OF EMPLOYMENT FORM

TRANSFER OR TERMINATION OF EMPLOYMENT

| 1. | Division | 7 | | | |
|----|------------------------------|--------------|---------------------------------------|---------|---------|
| | Social Security Number(1-9) | | | | |
| 3. | Name(Last Name | Initials) | | (10-24) | |
| 4. | Termination or Transfer Data | (Month | Day | Year) | (25-30) |
| 5. | Terminate (31-T) | Transfer | (31-X) | | |
| | If Transfer | | | | |
| 6. | New Position | (32-46) | | Code _ | (47-52) |
| 7. | New School | (53-67) | inc | Code _ | (68-76) |
| 8. | Reason for Termination | | | | |
| | | | | | |
| | | | | | |
| | | | • • • • • • • • • • • • • • • • • • • | | |

APPENDIX D

BUSINESS AND OFFICE TEACHERS (COMPUTER LISTING)

| DI | v 55# | NAME | SCHODI. | POSITION | PHONE | DEGREE | COLLEGE HRS VP | S DCCUP EXP | |
|----|--------------------|-------------|-----------------|-----------------|----------|--------|----------------|-------------|--|
| 14 | 446367820 | GREEN F A | | FILE, DEE MACH | 37 29413 | MASTEP | 185 | 05 | |
| 14 | 447383223 | RAY 5 T | | FILE, OFF MACH | 00 00000 | MASTER | | 05 | |
| 14 | 440308654 | WILSON B W | ATOKA HS | FILE, OFF MACH | 88 93180 | MASTER | 174 | 15 | |
| 14 | 4414 25 845 | JONES C J | BRD ARROW HS | FILE, NEF MACH | 25 19145 | BACHER | 144 | 04 | |
| 14 | 441449729 | LEWIS 8 I | BRO ARROW HS | FILE, DFF MACH | 25 18307 | BACHLR | 158 | 03 | |
| 14 | 443367441 | LOVE N J | BVILLE COL HS | FILE, DFF MACH | 33 34557 | MASTER | 177 | Q5 | |
| 14 | 444500500 | TEEPLES D A | BVILLE COL HS | ACCT & COMPUT | 33 62459 | BACHLR | 127 | 00 | |
| 14 | 448140979 | COALE J L | BVILLE SDONER | FILE, OFF MACH | 33 32231 | MASTER | 175 | 03 | |
| 14 | 446221687 | FIELDS I M | CAN VAL AS-ELRN | FILE, OFF MACH | 22 46238 | MASTER | 200 | 02 | |
| 14 | 4464 26 021 | MORGAN V D | CENTRAL DK-AS | BUS DP SYS | 22 54806 | BACHLR | 165 | 02 | |
| 14 | 447486152 | STILES N J | CENTRAL OK-AS | FILE, DEE MACH | 22 55404 | BACHLR | 133 | 02 | |
| 14 | 447486152 | STILES N J | CENTRAL OK-AS | FILE, OFF MACH | 22 50174 | BACHLR | 133 | 02 | |
| 14 | 448408754 | VANATTA B F | CENTRAL OK-AS | INFO COMM UCCUP | 22 47285 | BACHLR | 12 i | 03 | |
| 14 | 44434 5 442 | STIMSON 5 A | CLARMORE HS | FILE, OFF MACH | 34 12876 | BACHLR | 128 | 07 | |
| 14 | 431561006 | ALLEN R L | COLCORD HS | FILE, OFF MACH | 32 64365 | MASTER | 169 | 05 | |
| 14 | 505643688 | SANNER R I | COMANCHE HS | FILE, QFF MACH | 43 92422 | BACHLR | 13 | 00 | |
| | | | | | | | | | |

| DIV | 5 S # | NAME | SCHOOL | POSITION | PHONE | DEGREE CO | DELEGT HRS YRS O | CCUP EXP |
|-----|--------------------|--------------|-----------------|----------------|----------|-----------|------------------|----------|
| 14 | 444260516 | DOUGLAS H D | DUNCAN AREA SH | FILE, DFF MACH | 25 53554 | BACHLR | 154 | 04 |
| 14 | 446036885 | SMITH V L | DUNCAN AREA SH | BUS DP SYS | 25 52074 | MASTER | 246 | 02 |
| 14 | 524180406 | TURPEN M W | DUNCAN AREA SH | FILE, OFF MACH | 25 52047 | MASTER | 180 | 03 |
| 14 | 446343631 | WEDER S Á | DURANT HS | FILE, OFF MACH | 92 42571 | MASTER | 180 | 05 |
| 14 | 445220158 | WALKER M I | EASTERN OSC | ACCT & COMPUT | 46 53387 | MASTER | 280 | 03 |
| 14 | 305123510 | BARTON W | EL REND HS | FILE, DFF MACH | 15 20715 | MASTER | 211 | 04 |
| 14 | 447141620 | WOGMON M L | ELK CITY HS | FILE, OFF MACH | 22 51416 | MASTER | 183 | 01 |
| 14 | 443 320 258 | BARNES 8 M | G COOPER AS | FILE, DFF MACH | 27 51326 | MASTER | 124 | 05 |
| 14 | 447162634 | GOWDER W L | G COOPER AS | BUS DP SYS | 27 50344 | BACHLR | 140 | 02 |
| 14 | 447122877 | KELTNER P L | G COOPER AS | FILE, DFF MACH | 27 50898 | BACHLR | 131 | 01 |
| 14 | 559386638 | HARP C A | GREAT PLAINS AS | BUS DP SYS | 24 82740 | BACHLR | 136 | 00 |
| 14 | 445365948 | GRIMMETT R A | GROVE HS | FILE, NFF MACH | 78 62068 | BACHI R | 152 | 01 |
| 14 | 442206997 | SMITH F F | GUTHRIE HS | FILE, OFF MACH | 28 23413 | BACHLP | 144 - | í u |
| 14 | 447200183 | COOK I L | HOLDENVILLE HS | FILE, DFF MACH | 37 92446 | | 17.) | |
| 14 | 441404356 | WUMACK C M | IDABEL HS | FILE, DEF MACH | 28 65967 | BACHLE | 136 | 02 |
| 14 | 7 2 1019189 | LOWREY E P | INDIAN CAP AS | FILE, OFF MACH | 48 65545 | MASTER | 167 | 03 |
| | | | | | | | | |

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| DIV | \$\$ # | NAME | SCHOOL | POSITION | PHONE | DEGREE | COLLEGE HRS YRS | OCCUP EXP |
|-----|--------------------|----------------|-----------------|----------------|------------------|--------|------------------------|-----------|
| 14 | 445140857 | CARLTUN C M | KANSAS | FILE, OFF MACH | 86 82466 | MASTER | 200 | 01 |
| 14 | 446303261 | CLUCK C J | KIAMICHI AS-HU | FILE, OFF MACH | 32 65367 | MASTER | 180 | 05 |
| 14 | 447052667 | PEAD A L | KIANICHI AS-MC | FILE, DFF MACH | 42 60953 | BACHER | 136 | 20 |
| 14 | 441485728 | DEHART M | KIAMICHI AS-PD | FILE, OFF MACH | 00 00000 | BACHLR | 144 | 02 |
| 14 | 446428000 | KELLER M R | KINGFISHER HS | FILE, DEE MACH | 37 53657 | MASTER | 176 | 05 |
| 14 | 4 45287 030 | GREEAR J C | LAWTON HS | FILE, DEE MACH | 35 34633 | MASTER | | 14 |
| 14 | 443409136 | MINTON F M | LINDSAY HS | FILE, OFF MACH | 75 62929 | MASTER | 178 | 01 |
| 14 | 000000000 | BURCH L M | MIAMI HS | FILE, DEE MACH | 25 74547 | MASTER | 18 0 | Q 1 |
| 14 | 446307142 | HOOS E L | MIAMI HS | FILE, DFF MACH | 54 29229 | MASTER | 178 | 04 |
| 14 | 443443982 | HARRIS C F | MID-AMERICA AS | FILE, DFF MACH | 75 92695 | BACHLR | 168 | 05 |
| 14 | 448467477 | MCGDWEN J S | MID-AMERICA AS | BUS DP SYS | 46 94391 | MASTER | 20 ð | 02 |
| 14 | 4481 80 056 | HARRISON D P | MIDWEST CITY HS | FILE, DEE MACH | 73 23272 | MASTER | 211 | 17 |
| 14 | 44360 543 1 | ROBERTS A J | MIDWEST CITY HS | FILE, OFF MACH | 69. 74378 | MASTER | 16 (<i>j</i>) | 17 |
| 14 | 447344605 | TIREY M A | MDORE HS | FILE, DEE MACH | 94 39003 | MASTER | 157 | Ç6 |
| 14 | 445077982 | MCPHEETERS J G | MWC DEL CITY HS | FILE, DEE MACH | 52 56934 | MASTER | 173 | 24 |
| 14 | 444144358 | ΜΔΩΝ Λ Μ | MWC DEL CITY HS | FILE, OFF MACH | 73 258 52 | MASTER | 176 | 02 |
| | | | | | | | | |

| DIV | S5₩ | NAME | SCHOOL | POSITION | PHONE | DEGREE | COLLEGE HRS YRS U | ICCUP EXP |
|-----|--------------------|--------------|-----------------|----------------|------------------|--------|-------------------|-----------|
| 14 | 444422457 | HICKS M A | NORMAN HS | FILE, DEF MACH | 32 96203 | MASTER | 195 | Ç2 |
| 14 | 336441694 | MCKINNEY M J | NORMAN HS | FILE, OFF MACH | 32 98847 | MASTER | 157 | 08 |
| 14 | 442322429 | CHOPP C M | NURTH OKLA COL | ACCT & COMPUT | 62 82296 | MASTER | 180 | 06 |
| 14 | 441426106 | WILLIAMS M C | NK CAPITAL HILL | FILE, DEF MACH | 27 38668 | MASTER | 173 | ¢3 |
| 14 | 441161886 | LEE F R | OKC ADULT INST | FILE, OFF MACH | 94 23040 | BACHLR | 12 / | 15 |
| 14 | 450483072 | RIGGS L J | OKC CLASSEN HS | FILE, DFF MACH | 59 3 <u>1381</u> | MASTER | 124 | 02 |
| 14 | 430323055 | CONDREN A W | UKC GRANT HS | FILE, DFF MACH | 68 56545 | MASTER | 164 | 06 |
| 14 | 44234 8 796 | FULLER A C | DKC GRANT HS | FILE, OFF MACH | 68 59449 | BACHLR | 150 | 02 |
| 14 | 303280883 | HILL L A | NKC MARSHALL HS | FILE, DEE MACH | 84 25395 | MASTER | 188 | 05 |
| 14 | 443242951 | TUCKER D M | OKC NORTHEAST | FILE, OFF MACH | 42 73615 | MASTER | 206 | |
| 14 | 443264545 | KERN S A | OKC NW CLASSEN | FILE, OFF MACH | 84 33663 | MASTER | 156 | Ç5 |
| 14 | 442 387 618 | LUNDY H D | OKC SOUTHEAST | FILE, DFF MACH | 26 45808 | MASTER | 172 | 05 |
| 14 | 443402268 | BUTLER P R | OKLA ST TECH | MED SECRETARY | 75 60214 | BACHLR | 125 | 63 |
| 14 | 448307808 | COYLE R J | OKLA ST TECH | BUS DP SYS | 00 00000 | BACHLR | 15ບ | Q4 |
| 14 | 525582190 | DAVIS C B | OKLA ST TECH | ACCT & COMPUT | 75 63922 | MASTER | 163 | 15 |
| 14 | 246286562 | LECKIE R G | OKLA ST TECH | | 75 60600 | | 11-3 | 20 |
| | | | | | | | - | |

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| DIV | 55# | NAME | SCHOOL | POSITION | PHONE | DEGREE | COLLEGE HRS YRS | UCCUP EXP |
|-----|--------------------|--------------|-----------------|-----------------------|----------|--------|-----------------|-----------|
| 14 | 342140466 | ANDERSON G R | NSCARROSE JR CL | ACCT & COMPUT | 73 72990 | MASTER | 189 | 02 |
| 14 | 464680532 | BEDNAR A L | DSCARROSE JR CL | АССТ & СОМРИТ | 32 97922 | MASTER | | 01 |
| 14 | 44422 5 929 | GOSSWJ. | OSCARROSE JR CL | ACCT & COMPUT | 63 40747 | MASTER | 170 | 12 |
| 14 | 203381602 | LOFTIS G L | DSCARROSE JR CL | ACCT & COMPUT | 52 50024 | MASTER | 171 | C1 |
| 14 | 443301706 | MARSHALL C S | OSCARROSE JR CL | ACCT & COMPUT | 73 78513 | MASTER | | 03 |
| 14 | 442304277 | RUPP J A | DSCARROSE JR CL | ТЦЧМ ОЈ 3 ТООА | 73 28880 | MASTER | 238 | 03 |
| 14 | 447402843 | SMITH C S | DSCARROSE JR CL | ACCT & COMPUT | 67 24371 | MASTER | 164 | 02 |
| 14 | 443426564 | BUNCH S K | NT AUTRY AS | FILE, DEF MACH | 23 46214 | BACHLR | 129 | 06 |
| 14 | 441032084 | LYNCH C W | OT AUTRY AS | BLIS DP SYS | 23 70799 | BACHLR | 182 | 27 |
| 14 | 512424552 | SANDERS L F | 24 ΥΠΤυΑ ΤΩ | SEC., STEND | 23 71698 | BACHLR | | |
| 14 | 446185206 | SEMKE M L | OT AUTRY AS | FILE, DFF MACH | 23 70934 | BACHLR | 150 | |
| 14 | 440245900 | HARRIS N F | PRYOR HS | FILE, DFF MACH | 82 50786 | MASTER | 158 | 04 |
| 14 | 448384635 | TALLEY N L | PUTNAM C WEST | FILE, ĤFF MACH | 69 35016 | BACHER | 13 6 | 10 |
| 14 | 443288978 | PHERIGO B S | PUTNAM CITY HS | FILE, OFF MACH | 72 12300 | MASTER | 130 | 10 |
| 14 | 448106052 | WALKER A M | SAND SPG PAGE | FILE, OFF MACH | 24 54881 | BACHUR | 154 | 25 |
| 14 | 444263997 | CRUSON W B | SOUTH OKLA AS | FILE, DFF MACH | 22 39639 | MASTER | 164 | Cí |
| | | | | | | | | |

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| DIV | 55# | NAME | SCHOOL | POSITION | PHONE | DEGREE | COLLEGE HRS YRS O | CCUP EXP |
|-----|--------------------|--------------|---------------|-----------------|-------------------|---------|-------------------|----------|
| 14 | 442462204 | LANGLEY L K | STILWELL HS | FILE, OFF MACH | 77 42680 | BACHLR | 138 | 01 |
| 14 | 444468686 | DUTTON J K | TECUMSEH GIRL | BUS DP SYS | 59 82 743 | BACHLR | 138 | |
| 14 | 440241994 | BRANT M B | TRI-COUNTY AS | FILE, DFF MACH | 27 33408 | BACHLR | 146 | 03 |
| 14 | 429624347 | PORTER S L | TRI-COUNTY AS | BUS DP SYS | 53 42684 | MASTER | 188 | 0? |
| 14 | 453462844 | THOMPSON J G | TRI-COUNTY AS | FILE, OFF MACH | 33 30010 | ΒΔϹΗΙ Κ | 124 | |
| 14 | 440541414 | BLACK B J | TULSA AUTS | FILE, DFF MACH | 93 92893 | MASTER | 158 | ¢1 |
| 14 | 00000000 | HOLLAND D E | TULSA AUTS | FILE, DFF MACH | 62 76131 | MASTER | | 03 |
| 14 | 441206110 | LUCAS M T | TULSA AUTS | INFO COMM OCCUP | 58 24890 | MASTER | | 24 |
| 14 | 430620046 | MARKS V D | TULSA AUTS | FILE, DFF MACH | 66 35 308 | MASTER | 228 | 03 |
| 14 | 441169446 | NHARA L A | TULSA AUTS | BUS DP SYS | 83 83272 | BACHI R | 157 | 1? |
| 14 | 4451 26 560 | BELL F L | TULSA CENTRAL | FILE, DFF MACH | 99 76556 | MASTER | 195 | 07 |
| 14 | 445184056 | MCGOWAN E E | TULSA HALE HS | FILE, OFF MACH | 74 20045 | MASTER | 18 Y | 05 |
| 14 | 441209620 | LACOUR R A | TULSA JR COLL | ACCT & COMPUT | 58 43216 | MASTER | | |
| 14 | 444360319 | MARTIN T D | TULSA JR CULL | FILE, OFF MACH | 99 38362 | BACHLR | | |
| 14 | 464 580 823 | SENDEJO C J | TULSA JR COLL | АССТ & СОМРИТ | 66 30564 | BACHLR | 164 | |
| 14 | 443220263 | JAMES J P | TULSA MCCLAIN | FILE, ∏FF MACH | 74 7 7 022 | BACHER | 141 | 06 |

PAGE 06

| DIV | 5 S M | NAME | SCHODL | POSITION | PHONE | DEGREE | COLLEGE HRS YRS O | CCUP EXP |
|-----|--------------------|---------------|----------------|----------------|----------|--------|-------------------|----------|
| 14 | 447300210 | ARCHER B C | TULSA ROGERS | FILE, OFF MACH | 93 66104 | MASTER | 212 | 06 |
| 14 | 432648472 | FRY B C | TULSA ROGERS | FILE, OFF MACH | 74 30723 | MASTER | 180 | 03 |
| 14 | 442324859 | PATTERSON V A | TULSA WASHINGT | FILE, OFF MACH | 42 53848 | MASTER | 172 | 12 |
| 14 | 447202801 | WHETSTINE G B | TULSA WEBSTER | FILE, OFF MACH | 74 26062 | MOSTER | 191 | 04 |
| 14 | 447268834 | ALLEN P A | VELMA-ALMA HS | FILE, OFF MACH | 44 43485 | BACHLR | 146 | Q3 |
| 14 | 456462312 | BROWN L D | W DELA AVIS | FILE, OFF MACH | 77 22295 | BACHUR | 050 | 18 |
| 14 | 446 36 4817 | MALDY L A | W DKLA AVTS | FILE, OFF MACH | 32 33238 | BACHUR | 133 | 05 |
| 14 | 430804794 | ņlney r J | WAGONER HS | FILE, DEE MACH | 48 52748 | BACHLR | 135 | 02 |
| 14 | 442227963 | LEGAKO M A | WATONGA HS | FILE, DFF MACH | 62 35751 | MASTER | 214 | 03 |
| 14 | 442263097 | HALL J M | WESTVILLE HS | FILE, OFF MACH | 77 42867 | BACHLR | 145 | 10 |
| | | | | | | | | |

NR. OF TEACHERS 106

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PAGE 07

APPENDIX E

COMPUTER UPDATE FORM AND ACCOMPANYING LETTER



MEMORANDUM

DATE May 17, 1972

Business & Office Education Teachers

FROM Victor Van Hook

SUBJECT

TO

Updating of Data Sheet

Enclosed is the pertinent data which we show on your records. Will you please check each item to determine if it is correct. Any items which are incorrect should be corrected with an ink notation alongside the incorrect information. If the information is correct, write "O.K." on the form.

After correcting or "O.K."ing, please return this information sheet immediately in the enclosed self-addressed, stamped envelope. This material is needed for a special study which must be completed very soon.

VVH:dap

Enclosures

OKLAHOMA STATE DEPARTMENT OF VOCATIONAL-TECHNICAL EDUCATION PERSONNEL DATA VERIFICATION

CHOPP C M 409 ELM PERRY OK 73077

SOCIAL SECURITY NO. 442 32 2429 POSITION ACCT & COMPUT SCHOOL NORTH OKLA COL DATE OF BIRTH 07 23 34 HOME PHONE 62 82296 ND. OF SCHOOLS TAUGHT VO-TECH COURSES 01 NO. OF SCHOOLS ADMIN. VO-TECH COURSES ND. OF YEARS EXPERIENCE AS AN EDUCATOR 08 NO. OF YEARS OF VO-TECH TEACHING EXPERIENCE 03 NO. OF YEARS OF VO-TECH ADMINISTRATIVE EXPERIENCE NO. OF YEARS OF OCCUPATIONAL EXPERIENCE 06 HIGHEST DEGREE MASTER YEAR OF HIGHEST DEGREE 1964 YEAR OF LAST COLLEGE ATTENDANCE 1970 TOTAL NO. OF COLLEGE HOURS COMPLETED . 180 NO. OF HOURS ABOVE BACHELOR DEGREE 054

APPENDIX F

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS Table of Contents

.

| System Code: <u>F 50100</u> | Page <u>1</u> of <u>21</u> |
|---|---|
| Programmer: <u>T. P. Spradley</u> Date: <u>Date</u> | May 20, 1972 |
| Program Code: TPSLTR | |
| | Page |
| 1. System Narrative | 2 |
| 2. Program Narrative | 3 |
| 3. Flow Chart, General | 4 |
| 4. Program Job Control | 5 |
| 5. File Characteristics | 6 |
| Card-File Card Format Tape-File Tape Record New-Tape-File New Tape Record Print-File Print Record Sort-File Sort Record Working Storage | 6 7 9 10 13 14 15 16 17 18 19 |
| 6. Operations Information | 20 |
| 7. Deck Set-Up | 21 |

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EDUCATION & VOCATIONAL EDUCATION DATA CENTERS System Narrative

| System Code: | F5Ø1ØØ | | Page | _2 | of | 21 |
|---------------|----------------|-------|-------|----|----|----|
| Programmer: | T. P. Spradley | Date: | 5/20/ | 72 | | |
| Program Code: | TPSLTR | | | | | |

The Professional Personnel Information System includes a personnel record for each full time, public, secondary and post-secondary occupational education teacher. It provides for (1) the addition of new teachers to the file, (2) information purification, updating, and accumulation of new data, (3) maintenance of an inactive file for personnel leaving the system, and (4) several types of planning reports.

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EDUCATION & VOCATIONAL EDUCATION DATA CENTERS <u>Program Narrative</u>

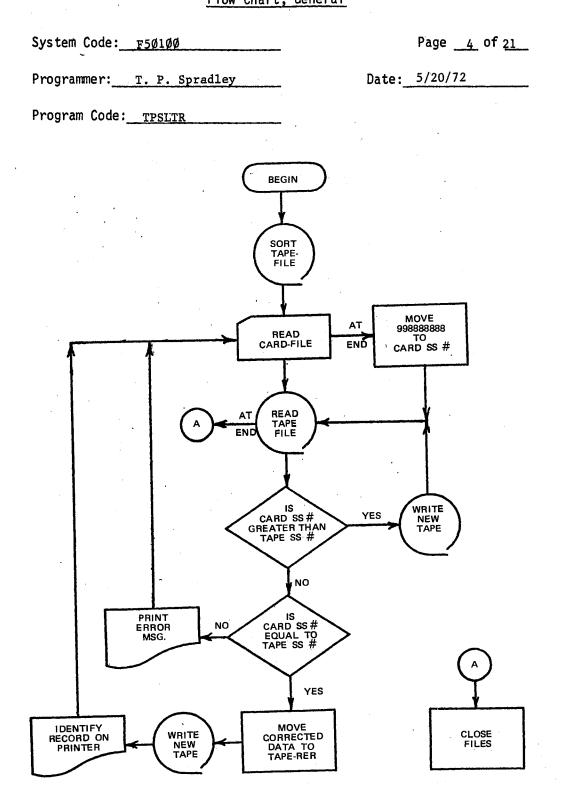
| System Code: | Page $\frac{3}{2}$ of $\frac{21}{2}$ |
|-----------------------------------|--------------------------------------|
| Programmer: <u>T. P. Spradley</u> | Date: <u>5/20/72</u> |
| Program Code:_ TPSLTR | |

A portion of existing teacher records have been printed and mailed to the teachers for verification. The returned forms are keypunched and the resulting card file is sorted by social security number.

The program, TPSLTR, sorts this personnel file "Tape-File" by social security number. It then reads a card from the "Card-File" which has previously been sorted by social security number. The card file records are matched with records in the personnel file, the records are updated, and a new personnel file is generated.

Each card is identified on a computer listing as either used to update a record or as having a social security number that is not contained in the personnel file.

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS Flow Chart, General



EDUCATION & VOCATIONAL EDUCATION DATA CENTERS Program Job Control

| System Code: <u>F5Ø1ØØ</u> | Page <u>5</u> of <u>21</u> |
|--|----------------------------|
| Programmer: <u>T. P. Spradley</u> | Date:5/20/72 |
| Program Code: <u>TPSLTR</u> | |
| LIST BELOW, IN ORDER, ALL JCL CARDS | NEEDED FOR THIS PROGRAM. |
| // JOB TPSLTR | ι. |
| <pre>// Option Nosym, Inipt, Maint // Exec Cobol, TPSLTR, Err=S1 // Option Param // Exec Lnkedt // Param Noclear, Deletc // Phase TPSLTR,* // Include TPSLTR // End TPSLTR // Option Param</pre> | |

.

// Exec Maint

// End

// Deletr TPSLTR01 // Deletr TPSLTR

// Option Dummer

// Option Dummer // Assgn SYS007, SYS026 // Assgn SYS008, SYS026 // VDC Work2,, SYSWK2, SYS001 // VDC Work1,, SYSWK1, SYS000 // Exec TPSLTR // Mand

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS <u>File Characteristics</u>

| System Code: | Page <u>6</u> of $\frac{21}{21}$ |
|---|----------------------------------|
| Programmer: T. P. Spradley | Date:5/20/72 |
| Program Code: <u>TPSLTR</u> | FILE NAME: <u>Card-File</u> |
| CHARACTERISTICS: | • • |
| Is this File labeled? <u>No</u> | Recording Mode:F |
| Records per Block:1 | Characters per Record: <u>80</u> |
| Organization of File: <u>Seq by</u> SS# | Alternate Device: <u>No</u> |
| SYS Number: Sysipt | Data Record: Card-Rec |

KEY INFORMATION (For random access devices only):

What is the Symbolic Key?_____NA_____

What is the Record Key?_____NA_____

What is the Actual Key? ______NA_____

How is the Actual Key calculated?

JOB CONTROL:

List below, in card image, all JCL cards needed for this file.

NA

 System Code:
 F50100
 Page 7 of 21

 Programmer:
 T. P. Spradley
 Date:
 5/20/72

..

Program Code: TPSLTR

.

CARD NAME: Card-Rec

| NAME | OLD NEW SS # SS # | DANNA BIRTH HOWE HOWE | # OF SCH ADM. YRS. EXP. YRS. VO X ADM. OCCUP. X OCCUP. X OCCUP. X OCCUP. X COL. HRS. COL. HRS. GRAD HR. GRAD HR. |
|---|--|--|--|
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| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 1 | i 16 17 18 19 20 21 22 23 24 25 28 37 28 28 30 31 32 3 | 13 34 35 36 37 38 39 40 41 42 43 44 45 | 3 46 47 48 49 50 51 52 51 54 51 66 57 50 66 57 50 80 80 81 82 83 84 80 86 87 50 81 72 73 74 75 70 77 78 79 10 |
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| 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 5 | 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | i 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
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| 1 2 3 4 5 4 7 8 8 19 11 12 13 14 5 8 00 5081 | i 16 17 18 19 20 21 22 23 24 25 78 7 ⁷ 28 29 30 31 32 | 33 34 35 36 37 36 38 40 41 42 43 44 45 | \$466 47 P1 - 366 51 52 53 54 55 56 57 50 50 00 E1 62 63 64 65 66 67 68 60 70 71 72 73 74 75 71 77 74 71 71 |

| Card | Name: | Card-Rec |
|------|-------|----------|
| | | |

Page <u>8</u> of <u>21</u>

| Post rom | tion Thru | SIZE | TYPE | CONTENTS | ASSOCIATED DATA NAME |
|-----------------|-----------------|------|------|---|-------------------------|
| 1 | 14 | 14 | x | Teacher Name | NAM |
| 15 | 23 | 9 | 9 | Old Social Security Number | SSN |
| 24 | 32 | 9 | 9 | New Social Security Number | NEW-SSN |
| 24 | 32 | 9 | x | Redefines New-SSN | NW-SSN |
| 33 | 38 | 6 | x | Birthdate | BRTH |
| 39 | 45 | 7 | x | Home Phone | FONE |
| 46 | 47 | 2 | x | No. of Schools Taught Vo-Tech Courses | NO-TAUT |
| 48 | 49 | 2 | x | No. of Schools Administered Vo-Tech Courses | NO-ADM |
| 50 | 51 | 2 | x | No. of Years Experience as an Educator | YR-EDU |
| 52 | 53 | 2 | x | No. of Years Vo-Tech Teacing Experience | YR-V-TAU |
| 54 | 55 | 2 | x | No. of Years Vo-Tech Admin. Exp. | YR-V-ADM |
| 56 | 57 | 2 | x | No. of Years of Occupational Exp. | OCC-EX |
| 58 | 58 | 1 | x | Highest Degree | DEGRE |
| 59 | 60 | 2 | x | Year of Highest Degree | YR-DEG |
| 61 | 62 | 2 | x | Last Year in College | LYC |
| 63 | 65 | 3 | x | Total Number of College Hours | CO-HRS |
| 66 | 68 [·] | 3 | x | Number of Graduate Hours | GRAD-HRS |
| [.] 69 | 80 | 12 | x | Filler | |
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| <u>-</u> | | 1. | | | |

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS File Characteristics

| System Code: | Page <u>9</u> of <u>21</u> |
|---|-----------------------------|
| Programmer: <u>T. P. Spradley</u> | Date: 5/20/72 |
| Program Code: <u>TPSLTR</u> | File Name: <u>Tape-File</u> |
| CHARACTERISTICS: | |
| Is this File labeled? <u>No</u> | Recording Mode: |
| Records per Block: <u>3</u> | Characters per Record: 160 |
| Organization of File: <u>Sequential</u> | Alternate Device:No |
| SYS Number: <u>sysø2ø</u> | Data Record: Tape-Rec |

KEY INFORMATION (For random access devices only):

| What | is | the | Symbolic Key? | NA |
|------|------|-----|----------------|---------------|
| What | is . | the | Record Key? | NA |
| What | is | the | Actual Key? | NA |
| • | How | is | the Actual Key | / calculated? |

JOB CONTROL:

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List below, in card image, all JCL cards needed for this file.

NA

.

| System Code: | F50100 | · • | Page 10_ of _21 |
|----------------|----------------|--------|-----------------|
| Programmer: | T. P. Spradley | Date:_ | 5/20/72 |
| Program Code: | TPSLTR | · | |
| * Record Name: | Tape-Rec | | , |

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| POSIT1 FROM | ON THRU | SIZE | ТҮРЕ | CONTENTS | DATA NAME |
|----------------|------------|------|------|------------------------|-----------|
| 1 | 9 | 9 | 9 | Social Security Number | SS |
| | | 9 | x | Redefine SS | SO |
| 10 | 11 | 2 | x | Division Number | DIVIS |
| 12 | 15 | 4 | x | Position Code | FILLER |
| 16 | 21 | 6 | x | District No. | DISTRICT |
| 22 | 24 | 3 | 9 | Type of School | TYP-SCH |
| | | 3 | x | Redefine Typ-Sch | TYP |
| 25 | 38 | 14 | x | Name | NAME |
| 39 | 40 | 2 | 9 | Birth Month | MON |
| | | 2 | x | Redefines Mon | MONT |
| 41 | 42 | · 2 | x | Birth Day | DAY |
| 43• | 44 | 2 | 9 | Birth Year | YR |
| • | | 2 | x | Redefines Yr | YER |
| 45 | 45 | 1 | x | Sex | Sex |
| 46 | 59 | 14 | x | Address: Street | STREET |
| 60 | 65 | 6 | x | City | CITY |
| 66 | 67 | 2 | x | State | STATE |
| 68 | 72 | 5 | x | Zip | ZIP |

• If defining Working Storage enter 'Working Storage' in space provided for Record Name.

| System Code: <u>F50100</u> | Page <u>11</u> of <u>21</u> |
|-----------------------------------|-----------------------------|
| Programmer: <u>T. P. Spradley</u> | Date: 5/20/72 |
| Program Code: <u>TPSLTR</u> | |
| * Record Name: | |

| POSITI FROM | ON THRU | SIZE | түре | CONTENTS | DATA NAME |
|----------------|------------|------|------------|--------------------------|-------------|
| 73 | 79 | 7 | x | Home Phone | PHONE |
| 80 | 80 | 1 | x | Blank | BLNK |
| 81 | 81 | 1 | X. | Citizenship | CITIZEN |
| 82 | 82 | 1 | x | Military Experience | MILITARY |
| 83 | 83 | 1 | x | Marital Status | MARITAL |
| 84 | 84 | 1 | x | Spouse: Certification | CERT |
| _85 | 87 | 3 | x | Area | AREA |
| 88 | 88 | Ľ | x | Certification | CERTIF |
| 89 | 94 | 6 | x | Certification Area | CERTIF-AREA |
| 95 | 96 | 2 | 9 | No. of Schls Taught Voc. | VOC-TEA |
| | | · 2 | x | Redefines Voc-Tea | VOT |
| 97 | 98 | 2 | 9 | No. of Schls Admin. Voc. | VOC-ADM |
| | | 2 | X . | Redefines Voc-Adm | VOA . |
| 99 | 100 | 2 | x | Years Educational Exp. | ED-EXP |
| 101 | 102 | 2 | 9 | Yrs Voc. Teaching Exp. | YR-VOC-TEA |
| | | 2 | x | Redefines Yr-Voc-Tea | YVT |
| 103 | 104 | 2 | 9 | Yrs. Voc. Admin. Exp. | YR-VOC-ADM |
| | | 2 | x | Redefines Yr-Voc-Adm | YVA |

* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

System Code: F5Ø1ØØ

Page <u>12</u> of <u>21</u>

Programmer: T. P. Spradley

Date: 5/20/72

Program Code: TPSLTR

* Record Name: Tape-Rec

| POSITI FROM | ON THRU | SIZE | TYPE | CONTENTS | DATA NAME |
|----------------|------------|------|------|---------------------------|---------------------------------------|
| 105 | 106 | 2 | x | Yrs. of Out of State Exp. | YRS-O-ST |
| 107 | 108 | 2 | x | Yrs. of Occup. Exp. | YRS-OC-EX |
| | | 2 | x | Redefines Yrs-Oc-Ex | YOE |
| 109 | 110 | 2 | x | Year of Last Degree | YR-LST-DEG |
| 111 | 112 | 2 | x | Insti. Granting Lst Deg | INSTI |
| 113 | 117 | 5 | x | Last Degree Major | MAJOR |
| 118 | 118 | 1 | x | Last Degree | DEGREE |
| 119 | 120 | 2 | x | Yr. of Lst College Atten. | YR-LST-COL |
| 121 | 123 | 3 | x | No. of College Hours | COL-HOURS |
| 124 | 126 | 3 | x | No. of Grad. Hours | NO-GRAD-HRS |
| 127 | 129 | · 3 | x | Blank | FILLER |
| 130 | 144 | 15 | x | School Name | SCH-NAME |
| 145 | 159 | 15 | Х, | Position Name | POS-NAME |
| 160 | 160 | 1 | X | Blank | FILLER |
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* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS <u>File Characteristics</u>

| System Code: | Page <u>13</u> of <u>21</u> |
|--|----------------------------------|
| Programmer: <u>T. P. Spradley</u> | Date:5-20-72 |
| Program Code: TPSLTR | File Name: <u>New-Tape-File</u> |
| CHARACTERISTICS: | |
| Is this File labeled? <u>No</u> | Recording Mode: Fixed |
| Records per Block:3 | Characters per Record: 160 |
| Organization of File: <u>Sequent</u> ial | Alternate Device: <u>No</u> |
| SYS Number: <u>sysø24</u> | Data Record: <u>New-Tape-Rec</u> |

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KEY INFORMATION (For random access devices only):

| What is the | Symbolic Key? | NA |
|-------------|----------------|-------------|
| What is the | Record Key? | NA |
| What is the | Actual Key? | NA |
| How is | the Actual Key | calculated? |

JOB CONTROL:

List below, in card image, all JCL cards needed for this file.

NA

| S ys tem | Code: | F5Ø1ØØ | | |
|-----------------|-------|--------|------|--|
| | | | | |

Page <u>14</u> of <u>21</u>

Programmer: T. P. Spradley

Date: 5/20/72

Program Code: TPSLTR

* Record Name: <u>New-Tape-Rec</u>

| POSITI FROM | ON THRU | SIZE | ТҮРЕ | CONTENTS | DATA NAME |
|----------------|------------|------|-----------|--|--------------|
| 1 | 160 | 160 | x | New-Tape-Rec | NEW-TAPE-REC |
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* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS <u>File Characteristics</u>

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| System Code: F50100 | Page <u>15</u> of <u>21</u> |
|-----------------------------|------------------------------|
| Programmer: T. P. Spradley | Date: 5/20/72 |
| Program Code: <u>TPSLTR</u> | File Name: <u>Print-File</u> |
| CHARACTERISTICS: | |
| Is this File labeled? | Recording Mode: |
| Records per Block:1 | Characters per Record: 133 |
| Organization of File: | Alternate Device:No |
| SYS Number: <u>SYSLST</u> | Data Record: Print-Rec |

KEY INFORMATION (For random access devices only):

| What | is | the | Symbol: | ic Key? | | NA |
|------|----|-----|---------|---------|-----|----|
| What | is | the | Record | Key? | | NA |
| What | is | the | Actual | Key? | . · | NA |

How is the Actual Key calculated?

JOB CONTROL:

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List below, in card image, all JCL cards needed for this file.

NA

| System Code: | F5Ø1ØØ | | Page <u>16</u> of <u>21</u> |
|---------------|----------------|--------|-----------------------------|
| Programmer: | T. P. Spradley | Date:_ | 5/20/72 |
| Program Code: | TPSLTR | | |

* Record Name: _____Print-Rec_____

| POSITI FROM | ON THRU | SIZE | TYPE | CONTENTS | DATA NAME |
|----------------|------------|------|------|---------------------|-----------|
| 1 | 10 | 10 | x | Blank | FILLER |
| 11 | 21 | 11 | 9 | Social Security No. | SO-SEC |
| 22 | 31 | 10 | x | Blank | FILLER |
| 32 | 41 | 10 | x | Error Card Notation | BD-CD |
| 42 | 56 | 15 | X | Position Name | POSI |
| 57 | -66 | 10 | х | Blank | FILLER |
| 67 | 81 | 15 | x | School Name | SCHOOL |
| 82 | 91 | 10 | x | Blank | FILLER |
| 92 | 97 | 6 | x | Division Code | DIV |
| 98 | 133 | 36 | x | Blank | FILLER |
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* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS File Characteristics

| System Code: F50100 | Page <u>17</u> of <u>21</u> |
|--|-----------------------------|
| Programmer: T. P. Spredley | Date: 5/20/72 |
| Program Code: <u>TPSLTR</u> | File Name: SOR-1 |
| CHARACTERISTICS: | . • |
| Is this File labeled? <u>No</u> | Recording Mode: Fixed |
| Records per Block:NA | Characters per Record: |
| Organization of File: <u>NA</u> | Alternate Device: <u>No</u> |
| SYS Number: Disk | Data Record: SO-RT |
| KEY INFORMATION (For random access devices | only): |

What is the Symbolic Key?_____NA

What is the Record Key?_____NA_____

What is the Actual Key?_____NA

How is the Actual Key calculated?

JOB CONTROL:

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List below, in card image, all JCL cards needed for this file.

92

NA

| System Code: | F5Ø1ØØ | | Page8 of | - |
|----------------|----------------|--------|----------|---|
| Programmer: | T. P. Spradley | Date:_ | 5/20/72 | - |
| Program Code:_ | TPSLTR | | | |
| * Record Name: | SO-RT | | | |

| POSITI | SITION SIZE TYPE CONTENTS DATA NAME | | | | |
|--------|-------------------------------------|------|------|--------------------------|--------|
| FROM | | 5125 | TTPE | CONTENTS | |
| 1 | 9 | 9 | x | Soc. Sec. No. (Sort Key) | S-S |
| 10 | 160 | 151 | х | Blank | FILLER |
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* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

System Code: F5Ø1ØØ

Programmer: T.P. Spradley

Program Code: TPSLTR

* Record Name: Working-Storage

| POSITION | IRU | SIZE | түре | CONTENTS | DATA NAME |
|----------|-----|------|------|-----------------------|-----------|
| 77 | | 9 | 9 | Social Security No. | SOC-SEC |
| 01 | | 133 | x | Heading for Print Rec | HED 1 |
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* If defining Working Storage enter 'Working Storage' in space provided for Record Name.

Page 19 of 21

Date:___5/20/72

EDUCATION & VOCATIONAL EDUCATION DATA CENTERS Operations Information

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Page $\frac{20}{20}$ of $\frac{21}{21}$

| System Code: | F5Ø1ØØ | | Page 20 of 21 |
|------------------|----------------|--------|---------------|
| Programmer: | T. P. Spradley | Date:_ | 5/20/72 |
| Program Code: | TPSLTR | • | |
| Total Bytes Requ | lired: 1688 | | |
| Estimated Run Ti | me: 4 minutes | | |

.

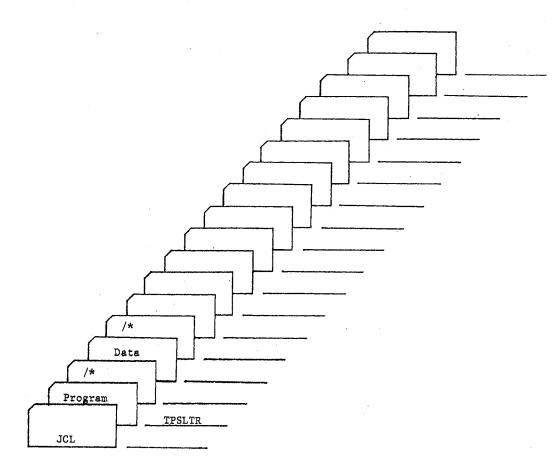
| SYS NUMBER | DEVICE | IN OR OUT | DESCRIPTION | FORM TYPE |
|---|---------|-----------------|---------------------------------------|--------------|
| 020 | TAPE | IN | OLD MASTER FILE | |
| 024 | TAPE | OUT | NEW MASTER FILE | |
| LST | PRINTER | OUT | LIST UPDATED RECORDS | STANDARD |
| LPT | READER | IN | RECORDS TO BE UPDATED | CARDS |
| | | | IN SOC. SEC. NO. | |
| | | | ORDER | |
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EDUCATION & VOCATIONAL EDUCATION DATA CENTERS Deck Set-Up Instructions

 System Code:
 F5Ø1ØØ
 Page 21 of 21

 Programmer:
 T.P. Spradley
 Date: 5/20/72

Program Code: TPSLTR



COMMENTS:

VITĄ

Terry P. Spradley

Candidate for the Degree of

Doctor of Education

Thesis: DEVELOPMENT AND APPLICATION OF A VOCATIONAL-TECHNICAL INFORMATION SYSTEM

Major Field: Higher Education

Biographical:

- Personal Data: Born at Dallas, Texas, January 25, 1935, the son of Terry D. and Jacquetta P. Spradley.
- Education: Graduated from Capitol Hill High School in 1953; received the Bachelor of Arts degree in Psychology from Oklahoma City University in August, 1961; received the Master of Science degree in Technical Education in July, 1968, OSU; completed requirements for the Doctor of Education degree in July, 1972, at Oklahoma State University.
- Professional Experience: Teacher of Technical Electronics, Star-Spencer High School, Oklahoma City, Oklahoma, 1963-1965; Assistant Professor, Data Processing, Cameron State College, Lawton, Oklahoma, 1966-1972.
- Professional Organizations: American Vocational Association, Oklahoma Vocational Association, Oklahoma Technical Society, Oklahoma Data Processing Instructors Association, Oklahoma Education Association, and Phi Delta Kappa.