State of Iowa
Board for Vocational Education
Des Moines

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TECHNIQUE FOR A VOCATIONAL EDUCATION SURVEY OF A LOCAL COMMUNITY

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By

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Misc. Res.-1 Revised, December 1939

Foreword

This bulletin consists of a suggested technique for making a vocational education survey of a local community. It also contains a brief statement relative to the degree to which staff members of the state board may assist in conducting such a survey. This bulletin is issued by the state board for vocational education for use by local school officials who desire to study the occupational training needs of their community. It is the belief of the state board that the data to be secured in the use of this and similar surveys are essential in the development of well-planned vocational education programs.

This material was prepared by Mr. P. G. Frasier, research specialist of the state board for vocational education.

F. E. Moore, Director
Board for Vocational Education



Preface

If vocational education is to be basically sound, it must be founded on educational planning which takes into consideration the need for trained workers in a community and to what extent these vocational needs are already being met by existing agencies.

Vocational programs in the past have either been based on observation, personal opinion rather than facts, or facts brought out by a costly survey of the occupations and educational facilities in a community. Few communities, especially in a state where small cities and towns predominate, can financially afford this type of survey.

In developing this technique for a vocational survey attention has been given to the fact that the survey must be broad enough and go deep enough to uncover the essential data, but with the expenditure of a minimum amount of time and money. To that end, authentic published data are used extensively, augmented by facts collected by personal contact when supplementary data are necessary.

P. G. Frasier Research Specialist

Preface

(Revised Edition)

This revision of a "Technique for a Vocational Survey of Local Communities" has been undertaken in an attempt to make the technique more usable in local situations. To that end the technique has been expanded to include devices for compiling and tabulating as well as for collecting data. As an added feature an outline for the presentation of data in each chapter has also been included.

In presenting this revised edition of the technique it is hoped that sufficient instructions and devices have been included to enable teachers and directors of vocational education in local communities to initiate and carry out a complete survey of their local communities without the assistance of experts from outside the community.

Attention is called to the fact that although this technique was developed primarily for use in surveying cities which have had a population of 25,000 or more inhabitants for two census periods, it may be used very satisfactorily in smaller cities. In the smaller cities only a limited amount of published data are available and, consequently, emphasis will need to be placed on data collected in the local community.

P. G. Frasier Research Specialist

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A VOCATIONAL EDUCATION SURVEY

CHAPTER I.

Introduction

New Problems and Responsibilities of Education

During the present century the problems and responsibilities of public education have increased severalfold. In the past the school has been considered as a thing by itself in the community, an institution unaffected by other institutions or agencies. The emphasis in education was placed upon preparation for leisure, that is, for life's activities outside the domain of vocation. Thousands were prepared for a leisure they could not enjoy because of lack of proper vocational qualifications. The content of education was derived largely from the past and a foreign concept of the needs of men and women in an American democracy of the twentieth century.

The social institutions, especially the schools, have not kept pace with commercial and industrial development. Science and invention, the two main causes of most economic changes, have resulted in a neverending stream of new devices, tools, machines, precision instruments, methods, physical and chemical processes and materials, which are used in the production of old and new commodities. Technological progress has produced changes in transportation, trade, and in a wide variety of service occupations.

Technological progress is continually changing the character of jobs and occupations in most lines of employment. New occupations and processes arise to supplement old ones, corresponding changes take place in the degree of skill and knowledge demanded by the occupation. As a result the usable content of skill and knowledge is not only changing in character but increasing in amount and complexity. In all occupations except the unskilled, the technical knowledge content is increasing as compared with muscular strength and manual ability.

As a result of technological advancement very few occupations remain unchanged. Most of them have been split into process jobs, each of which has been erected into a vocation by itself. These changes in occupations have set limits on incidental discovery of requirements and possibilities of training. In the larger towns boys and girls grow up in total ignorance of the qualifications most occupations demand or the opportunities they offer.

A city includes hundreds of occupations, but the city youth in his daily life is shut off from any effectual experience of the greater number of them. Industries are closed to him in the most part as an observer, and still more so as a participator. He is kept out of the factory, the office, away from the construction job and the railroad yard-most of the sites of production activity. What he learns of the world of work and its workers is haphazard and exceedingly small.

The economic and sociological changes, coupled with an economic depression of unprecedented extent, have closed employment opportunities to youth and have caused many to remain in school. The average age of entrance into employment has been pushed upward. Increasing specialization in industrial processes and continually changing methods of production have created demands for specially trained workers. The schools have become the major social agency for preparing youth for entrance into gainful employment, but the deficiencies of the schools in their performance of this function are great.

Education must realize its proper place in the new scheme of things. No education is complete without adequate training for a vocation that will equip the boy or girl or adolescent to meet the requirements of the new dispensation. Education should enable the individual to choose wisely and with least waste the occupation in which he can serve most efficiently and happily. It should enable the individual to enter and pursue the chosen occupation with qualifications for fullest satisfaction to himself and service to the community.

The schools also have certain obligations to the community by which they are supported. The community has set the schools up to serve a certain social purpose. It is important to the community that the schools produce not only individuals capable of bearing their share of the economic load, but in the matter of occupational adjustment attention should be given to the relationship which exists between the kind of vocational abilities possessed by the individual in the community and the number and distribution of vocational opportunities in the community.

A school which gives major attention in its curriculum to the preparation of a large proportion of its youth for college and gives no attention to the demand for skilled workers in the community, cannot be said to be serving the needs of the community. From the standpoint of the community it is essential that workers be prepared to do the many and varied tasks which need to be done. From the standpoint of the individual the making of a livelihood is conditioned upon the ability of the individual to find opportunities for gainful employment in a worthy occupation.

Since in this age of economic interdependence the welfare of the community rests upon the maintenance of balance in the numbers in the different occupational groups, and since the schools are maintained in the interests of society, it would seem that the schools should be vitally concerned with the problem of effecting some kind of numerical adjustment between workers and jobs. Yet, on every hand are found evidences of serious and far-reaching maladjustments. There is reason for the increasing concern with the revamping of traditional educational and training patterns as a means of enhancing the human values of modern life.

Educational Planning

From the standpoint of the need for educational planning there is a significant difference between vocational and general education. General education schools and courses are designed to meet the needs of individuals in the community for academic education. The schools are open to any one who may desire to take advantage of the opportunities offered, the only restriction upon admission to classes and courses being found in the requirement that individuals shall have satisfactorily met certain academic prerequisites.

Although this policy may be considered entirely proper so far as general education is concerned, carried over into the field of vocational education, however, it introduces difficulties. Vocational education is primarily an economic service, and as such, responds to the law of supply and demand. If vocational courses are established in a community without attention being given to the needs for trained workers in the various occupational areas in the community, an undesirable economic situation will inevitably result.

If a program of vocational education in a community is to be basically sound it must be founded on educational planning which takes into consideration the occupational opportunities for gainful employment which are available in that community. This necessitates a very careful survey of the community preceding the organization of a program of vocational education or an expansion of the existing program.

Need for a Simple Technique for a Vocational Survey

Public school administrators are aware of the need for vocational surveys in their local communities, but are hesitant because of the fact that surveys which have been conducted in the past required an extensive financial outlaw and the employment of a staff of experts from sources outside the community. At the close of the survey when the official staff left the community, they took with them the most valuable information, that which was secured by personal contact with the various agencies of the community, and left only that which could be statistically treated and presented on paper. No persons were left in the community who were sufficiently familiar with the survey to carry out the recommendations which were based on findings.

In this period of economic depression and resulting curtailed school finances, few schools are able to expend the amount of money necessary to make a formal survey of their community to determine the need for vocational education. However, the presence of a large proportion of pupils in the secondary schools who do not intend to continue their education beyond the high school makes such educational planning necessary. To assist in solving this problem the technique presented in this bulletin has been prepared.

This technique was designed for the use of individuals in the local community, and its application does not require the services of experts. The technique includes all devices which are necessary for the collection, compilation and tabulation of data, and includes instructions for the use of these devices and for writing the narrative. Although an attempt has been made to include all studies which are required to show the need for vocational education in the local community, other studies may be added to meet local needs.

The Survey

Guiding Principles

In making available this technique for a vocational education survey of a local community attention has been given to the following guiding principles:

- 1. The technique should be complete and specific so that it can be administered by local school and community personnel without the aid of a staff of experts.
- 2. The survey should be broad enough and go deep enough to uncover all essential facts.
- 3. The survey should require a minimum expenditure of time and money.
- 4. Available, authentic, published data should be used to reduce the necessity of collecting data in the local community.
- 5. Available data should be supplemented by data collected in the local community where needed.
- 6. The survey should require the active participation of members of the local teaching staff and of the community, so that a corps of trained workers may be left in the community to carry out the findings of the survey and to organize the program of vocational education.

Purpose of the Survey

The purpose of a vocational survey is to provide a program of vocational education and prevocational instruction for a community, based on findings relative to the needs for vocational training and the extent to which present educational and training facilities are supplying these needs in the local community. The survey committee should be instructed to formulate a scheme of vocational courses, and to indicate specifically in what way the practical arts courses—agriculture, commerce, home economics and industrial arts—now being given in the schools, should be modified or expanded to give them value as prevocational training.

The purpose of the survey is to make recommendations concerning the following:

- 1. The vocational classes, courses or schools which are required to meet the training needs of boys and girls who are planning to enter gainful employment in the local community
- 2. The vocational courses or classes which are required to meet the needs of out-of-school youth in solving the problems of their occupational adjustment
- 3. The vocational courses or classes which are required for the extension training of men and women who are already engaged as gainful workers in the community
- 4. Necessary or desirable reorganization of the practical arts courses to meet the needs for prevocational training and vocational guidance

Studies Included in the Survey

In order to determine the need for a vocational program in a community it is necessary to deal with two types of data: (1) the facts that are needed to outline an efficient program of vocational education, and (2) facts concerning the extent, if at all, the vocational needs of the community are already being met by existing agencies. To secure these required data the survey should include the following studies:

- 1. A study of the composition and characteristics of the population
- 2. A study of the changing occupational pattern of the community
- 3. A study of the census distribution of gainful workers by industries, occupations and levels of employment
- 4. A study of specific occupational areas
- 5. An inventory of the schools
- 6. A study of the educational and occupational status of youth

Outline of the Survey

- I. A Study of the Population
 - A. The growth of the population
 - B. Composition of the population C. Age distribution of the population

II. A Study of the Occupations

A. Occupational trends

- 1. Changes in the industrial pattern of the commu-
- 2. Changes in the occupational pattern of the community
- 3. Changes in the social-economic pattern of the community
- 4. Workers in the population
- 5. Age and sex distribution of gainful workers

B. Occupational distribution

- 1. Industrial distribution of gainful workers
- 2. Occupational distribution of gainful workers
- 3. Distribution of gainful workers by socialeconomic levels
- 4. Selection of occupational areas to be studied
- 5. Analyses of selected occupational areas

C. Employers' occupational survey

- 1. Selection and classification of firms to be contacted
- 2. Personal contact survey of selected firms

a. Training program

- (1) Organized training program
- (2) Written plan
- (3) Manipulative and related training
- (4) Instructor
- (5) Pay roll jobs included

b. School cooperation

- (1) Can schools cooperate
- (2) Pay roll jobs included

c. Employment information

- (1) Levels of employment
 - (a) Age and sex
 - (b) Turnover
 - (c) Beginning jobs

- (2) Pay roll jobs
 - (a) Workers by sex
 - (b) Degree of skill
 - (c) Length of training period
 - (d) Number in training
 - (e) School cooperation

III. School Inventory

- A. Educational facilities in the community
- B. School population and attendance
- C. Enrollment trends
- D. Holding power of the schools
- E. Age-grade distribution
- F. Curriculum trends
 - 1. Academic curriculum
 - 2. Practical curriculum
 - a. Agriculture
 - b. Commerce
 - c. Home economics
 - d. Industrial arts

3. Vocational subjects

- a. Day school
 - (1) Agriculture
 - (2) Distributive
 - (3) Homemaking
 - (4) Trade and industrial

b. Extension classes

- (1) Agriculture
- (2) Distributive
- (3) Homemaking
- (4) Trade and industrial

IV. Youth Surveys

A. In-school

- 1. Identification information
- 2. Educational information
 - a. Grade in which enrolled
 - b. Educational plans

- c. Subject preference
- d. Attitude of secondary school pupils concerning attending a central vocational school

3. Occupational information

- a. Out-of-school job
- b. Place and type of work
- c. Occupational choice
- d. Fathers: occupation

B. Out-of-school youth survey

- 1. Identification information
- 2. Educational information
 - a. School grade or college year completed
 - b. Age at time of quitting school
 - c. Reason for quitting school
 - d. Vocational training since leaving school

3. Occupational information

- a. Occupation prepared for by vocational training
- b. Occupation prepared for by vocational experience
- c. Present occupation
- d. Type and place of employment
- e. Occupational choice
- f. Period of unemployment
- g. Number of positions or jobs held

V. Suggested Changes in the Present Program of Practical Education, which is Basic as Prevocational Training for Vocational Courses

VI. Recommended Program of Vocational Education

Procedure in Conducting the Survey

The following steps in the procedure of conducting the survey are recommended:

- 1. Draw up a working agreement between the school and the survey committee
- 2. Organize a general survey committee
- 3. Determine the studies to be included in the survey
- 4. Outline each study included in the survey

- 5. Appoint a special committee for each study
- 6. Collect the data
- 7. Compile the data
- 8. Tabulate the data
- 9. Present the data in written form
- 10. Summarize the data
- 11. Determine implications for vocational education
- 12. Draw conclusions based on the findings of all studies
- 13. Make recommendations for a program of vocational education
- 14. Submit recommendations to a committee of practical education and vocational education specialists for suggestions and criticisms
- 15. Submit recommendations to local school authorities for final approval
- 16. Set up a program to conform to recommendations

Method of Conducting the Survey

Under the plan adopted by the state board for vocational education, no survey is undertaken in a local community unless the initiative comes from the local community, and unless the work is carried on jointly by the local community and the state board. It is also a part of the plan to use, as far as possible, local teachers and school authorities in making the survey so that trained workers may be left in the community on the job after the survey has been completed.

Although the survey should be under the direction of a representative of the state board for vocational education, the responsibility for carrying out the work of the survey should be left in the hands of local survey committees appointed by the superintendent of schools or the board of education. The general survey committee should include in its membership men and women qualified to serve as subcommittee chairmen for the committees suggested in the following paragraphs.

Since the survey divides itself quite naturally into five studies, each of which deals with a different type of data, it is suggested that five subcommittees be appointed, each to be assigned to one of the five studies included in the survey: (1) population (2) occupations from published data (3) occupations by personal contact (4) the school inventory, and (5) the youth survey. The work of each subcommittee should be coordinated under the direct supervision of the general survey committee and the director of the survey.

For identification purposes the subcommittees may be assigned as follows:

Committee A. A study of population growth trends

Committee B. A study of occupational distribution and trends from published data

Committee C. A study of the occupations through the employers' occupational survey

Committee D. A study of the schools

Committee E. A study of the status of in-school and out-ofschool youth

Each committee should be charged with the responsibility for collecting, compiling, tabulating and presenting the data for their study, and for assisting the general survey committee in the compilation of the final report.

Organization of the Technique

In presenting this technique for a vocational survey attention is called to the plan of organization which is used. The technique is divided into six chapters, each of which, except Chapter I, deals with a specific phase of the study. This plan of organization was used so that a section or sections of this survey might be assigned to subcommittees, as indicated above, and contains all of the devices and instructions required by the subcommittees in performing the duties which have been assigned to them. Three types of devices are included in each chapter.

Devices for Collecting Data

The first type of device presented in each chapter was designed for the collection of data and is numbered serially through the entire technique. These devices are Forms 1-29. The source of data which are to be collected is indicated at the bottom of each form. In some cases, however, forms have been developed to serve a dual purpose—collection and compilation of data. This was done for the purpose of reducing the number of forms. In cases where dual purpose forms are used, columns which are used for the compilation of data only are marked with an asterisk (*).

Devices for Compiling Data

The second type of device, Work Sheets A to H, was developed for the compilation of data only, and is used in all cases where data are not collected and compiled on the same form.

Devices for Tabulating Data

The third type of form (Table) was developed for the tabulation of data preparatory to its presentation in the study. Tables are numbered according to the chapters in which they will appear in the final draft of the written report; thus all tables included in the Table V series will be presented in Chapter V of the report, etc. It is, of course, evident that all tables should be numbered serially in the final report.

Plan for Presenting Data

Included in each chapter are suggestions for the topical treatment of material in the written report. These topics should be considered as suggestive only, and should be varied to suit the specific study. It is further suggested that each chapter be summarized, and implications for vocational education be pointed out.

After all chapters have been prepared for presentation in written form, it then becomes the duty of the general survey committee in cooperation with an advisory committee, composed of teachers of practical and vocational subjects and specialists in vocational education, to study the report very carefully, draw conclusions and make recommendations. These recommendations should be submitted to school authorities for final approval before the report is published.

Adaptation of Technique

Although this technique was designed primarily for the purpose of conducting a vocational survey in a community which had maintained a population of 25,000 or more inhabitants for a period of at least two decennial periods, it may be used with success in smaller communities. In the smaller communities data are not available for tracing the changes in the occupational pattern and, therefore, the employers' occupational survey will need to be given greater emphasis.

So that specific references might be given to show the sources of data, references are made to census data which are now available. As future census data become available they should be used to replace the data to which reference is made in this technique. For example, as soon as 1940 census data are available they should be used to replace 1930 data, and in trend studies the span of years should be adjusted also.

Although references are made to Iowa data, data for other states will be found in tables carrying the same numbers. These tables will be found on different pages in the census report.

CHAPTER II.

Population

Collecting the Data

The data concerning composition, age distribution and growth of the population supply a very valuable background for the study of the needs for vocational education in a community. The composition of the population in many cases indicates the type of occupation which is prevalent in the local community; that is to say, a large proportion of negroes or of members of other racial groups, especially southern Europeans or Mexicans, would undoubtedly suggest an unskilled labor situation.

Knowledge of the age distribution of the population is of importance because this distribution indicates the present and potential supply of gainful workers in the community and the future enrollment in the various grades of the school.

The trends of population growth are important in educational planning. In a population which exhibits aggressive growth trends, a sufficient supply of trained workers is needed not only to make replacements but also to supply the need for trained workers due to industrial and commercial expansion. In a static population the need for trained workers is limited to replacement needs only, while in a regressive population the need for trained workers is usually diminishing and, consequently, fewer workers need be trained than are required for replacements.

In collecting data for this study of the survey only these three factors--composition, age distribution and growth of the population are given attention.

Collect the data requested in Form 1. Data are available in the census reports in the form in which they are to be reported.

Obtain the information requested on Form 2 from the various sources which are indicated on this form.

Record data in the manner requested on Form 3. Percentage figures are not available for column 2, "City"; consequently, figures must be entered in column 1 and percentages figured.

POPULATION

Form 1

Population Growth Trends.

	CS tor	Increase in Population									
Year City Populat	Population	Period	PROPERTY AND ADDRESS OF THE PERSONS ASSESSED.	Per Cent	Fer Cent	U. S. Per Cent					
		1860-1930									
1/ 1930 1920 1910 1900 1890 1880 1870 1860		1920-1930 1910-1920 1900-1910 1890-1900 1880-1890 1870-1880 1860-1870									

1/ Use 1940 census figures if available. Span of years will depend upon available data for city.

Source: United States Census of Repulation, Vol. I., 1930.
United States: Population - U. S. Summary, Table 2, p. 6.
Iowa: Iowa - Population, Table 1, p. 359.
City: Iowa - Population, Table 2, p. 360.

Note: If it is desired to make comparisons of population growth of the city being studied with other cities in the area, a similar form may also be used for collecting such data.

POPULATI ON

Form 2

Composition of the Population.

Year and Area	All	All Classes			Native Whites		n-born tes	Neg	Negroes	
	Total	Male	Female	Male	Female		Female	Male	Female	
United States 1930 1/ 1920										
1930 <u>1</u> / 1920										
li ty 1930 <u>1</u> / 1920										

1/ If 1940 census is available it is suggested that 1940 and 1930 census data be used.

Source: United States Census of Population

1930: Vol. III, Part 1.

United States: Population - U. S. Summary, Table 20, p. 14. Iowa: Population - Iowa, Table 3, p. 748. City: Population - Iowa, Table 12, pp. 765-66.

1920: United States and Iowa same as above.
City: Vol. III, Population - Iowa, Table 8, pp. 318-19.

POPULATI ON

Form 3

Age Distribution of the Population.

		1930			1920 <u>1</u> /			
Age Periods 2/	Ci		-	U.S.	Ci	ty	Iowa	U. S.
	Number	Per Cent*	Per Cent	Per	Number	Per Cent*	Per Cent	Per Cent
All Ages	3/	100.0	100.0	100.0	3/	100.0	100.0	100.0
Under 5 years		1	10 70					
5- 9 years 10-14 years					STORE S			
15-19 years	and the second				Lion to	DEO I		
20-24 years 25-34 years								
35-44 years			17 70				Allo-	
45-64 years 65-74 years				102				
75 years and over								

1/ If 1940 census is available when survey is made it is suggested that 1940 and 1930 data be used.

2/ Age periods will need to be varied to suit available data. Classifications were restricted prior to 1930.

3/ Percentage distribution not available for cities; the number in each age group should be entered and percentages figured.

Source: United States Census of Population

1930: Vol. III, Part 1.

United States: Population - U. S. Summary, Table 20, p. 14.

Iowa: Population - Iowa, Table 3, p. 748.

City: Population - Iowa, Table 12, pp. 765-66.

1920: United States and Iowa same as above.
City: Vol. III, Population - Iowa, Table 8, pp. 318-19.

POPULATION

Compiling and Tabulating Data

Data collected on Forms 1, 2 and 3 should be transferred to Tables II-A, B and C, and other data which are requested in these tables should be determined from the figures which are transferred.

Table II-A. Population Growth Trends -- Form 1

Data in Form 1 were collected in the form in which they will be tabulated. Therefore, simply reproduce Form 1 as Table II-A.

Table II-B. Composition of the Population -- Form 2

Data collected and presented in Form 2 were in numbers. Change this numerical distribution to percentage distribution by dividing the number in each horizontal line by the number representing the total population in the same line, and record the per cent in Table II-B. Attention should be called to the fact that these percentages will not necessarily account for 100 per cent of the population, because certain racial groups are not included in the figures.

Table II-C. Age Distribution of the Population -- Form 3

Determine the percentage distribution of gainful workers for the city. Transfer these percentages to Table II-C. Combine the figures in the age groups to form the distribution of the population in the larger age groups, and report as indicated in the bottom section of the table.

Presenting the Data

Growth of the Population

Composition of the Population

Age Distribution of the Population

Summary

Implications for Vocational Education

Table II-B. Composition of the Population.

(In per cent)											
Year and Area	All Classes		Nat:			gn-born ites	Neg	Negroes			
	Male	Female	Male	Female	Male	Female	Male	Female			
United States 1930 1920 Iowa 1930 1920	TRAFFI OF THE PARTY OF THE PART										
1930 1920											

^{1/} City in which survey is being conducted.

Source: Form 2.

Table II-C. Age Distribution of the Population.

A O		1930			1920	
Age Groups	1/	Iowa	U. S.	1/	Iowa	U. S.
All Ages Under 5 5-9 10-14 15-19 20-24 25-34 35-44 45-64 65 and over Unknown	100.0	100.0	100.0	100.0	100.0	100.0
Under 20 20-44 45-64 65 and over Unknown						

^{1/} City in which survey is being conducted.

Source: Form 3.

CHAPTER III.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Occupational Statistics

A study of the changes in the occupational pattern of a community is an essential part of a survey to determine the needs for vocational education in that community. Four types of data should be examined to determine the trends which have taken place during a period of one or more decennial periods. These data relate to:

- 1. The industrial distribution of gainful workers
- 2. The occupational distribution of gainful workers
- 3. The proportion of the population gainfully employed
- 4. The age distribution of gainful workers

In discussing these trends it is essential that the reader have a clear understanding of the difference between <u>industrial</u> and <u>occupational</u> classifications of gainful workers. In the <u>industrial</u> classification workers are grouped by industries. Each industry is treated as a separate unit and all workers in the industry are classified thereunder, irrespective of the occupation they pursue whether productive, commercial, technical, professional or clerical. These industries in turn are grouped under nine general classifications—agriculture, forestry and fishing, manufacturing, etc.

Where workers are classified by occupations, all workers in specific occupations are grouped together without regard to the different industries in which the occupations are pursued and each occupation, except clerical, is classified in that part of the industrial field in which the occupation is most commonly found.

For example, all electricians are grouped together and classified under "Manufacturing and Mechanical Pursuits", though electricians are employed in almost every industry. Clerical occupations, which can not be said to be more common in one part of the industrial field than another, are made a separate class.

From the foregoing it is quite evident that the number of workers in the respective general divisions in the <u>industrial</u> and <u>occupational</u> classifications will not be the same. Also, since the industrial figures in the census were compiled from a preliminary count some errors may be evident when the two classifications are compared.

Collecting the Data

To facilitate the collection of data in this study of occupational trends, the following instructions are given:

I. Industrial Trends--Form 4

- Step 1. Transfer the data concerning the number of gainful workers from the census report to the appropriate column in Form 4.
 - II. Industrial Distribution -- Form 5
 - Step 1. Collect the information requested in Form 5.
 - III. Occupational Trends -- Forms 6, 7 and 8
 - Step 1. Prepare three sets of this blank.
- Workers, Form 7--Male Gainful Workers, and Form 8--Female Gainful Workers.
- Attention should be called to the fact that occupations are classified in Forms 6, 7 and 8 by social-economic levels and occupational divisions, while data in the census reports are classified by occupations and census occupational divisions. Thus a reclassification of these data is necessary. In transferring these data select the occupation to be dealt with, secure the figures from the census report and enter them in the appropriate column in the form.
- Step 4. In 1910 census figures a surplus of skilled and semiskilled workers in manufacturing and mechanical pursuits was reported in certain reports. An explanation of this duplicate enumeration of workers will be found in the census report, Occupational Statistics, Vol. IV., p. 21, 1910. This excess should be removed from the study.
- Step 5. In presenting the data in Forms 6, 7 and 8 it is necessary to transfer certain occupations from one occupational division to another to make 1910 and 1930 census figures comparable. Special care should be taken in making these transfers to insure accuracy, and totals for the occupational divisions should be thoroughly checked.
 - IV. Gainful Workers in the Population -- Form 9
 - Step 1. Transfer data from census report to Form 9.
 - V. Age Distribution of Gainful Workers -- Form 10
 - Step 1. Transfer data from census report to Form 10.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Form 4

Industrial Work Sheet A

Industrial Trends.

NOTE: TO BE USED ONLY IF 1940 CENSUS DATA ARE AVAILABLE.

Industry Groups	191	40	19	30	1930 Per		2
	Number	Per Cent*	Number	Per Cent*	Gain Loss	- 1	Change 2/
All Industries		100.0		100.0			
Agriculture							
Forestry and fishing							
Coal mines Other extraction of minerals							
Building industry Chemical and allied industries Clay, glass and stone industries Clothing industries Bakeries Slaughter and packing houses Other food and allied industries Automobile factories and repair shops Blast furnaces and steel rolling mills Other iron and steel industries Metal industries, except iron and steel Lumber and furniture industries Electrical machinery and supply factories Independent hand trades Other manufacturing industries Paper, printing & allied industries Construction and maintenance of streets, etc.							
Garages, greasing stations, etc. Postal service Steam and street railroads Telegraph and telephone Other transportation & communication							

Industrial Work Sheet A (Continued)

	1		1					
Industry Groups	19	40	19	30	1930-1940 Per Cent*			
	Number	Per Cent*	Number	Per Cent*			Change 2	
Banking and brokerage Insurance and real estate Automobile agencies and filling stations Wholesale and retail trade, except automobiles Other trade industries								
Public service (not elsewhere classi- fied)								
Recreation and amusement Other professional and semiprofessional service								
Hotels, restaurants, boarding houses Laundries and cleaning and pressing shops								
Other domestic and personal service								
Industry not specified								

^{1/} Gain or loss in percentage of all gainfully occupied, 1930-1940.

Source: United States Census of Population, Vol. III, Part I., 1930, Table 20, pp. 789-96.

^{2/} Percentage rate of increase or decrease in numbers, 1930-1940.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Form 5

Industrial Work Sheet B

Industrial Distribution.

	To	tal	Mal	es	Fema	ales
Industry Groups	Number	Per Cent*	Number	Per Cent*	Number	Per Cent*
All Industries		100.0		100.0		100.0
Agriculture						
Forestry and fishing						
Coal mines Other extraction of minerals						
Building industry Chemical and allied industries Clay, glass and stone industries Clothing industries Bakeries Slaughter and packing houses Other food and allied industries Automobile factories & repair shops Blast furnaces and steel rolling mills Other iron and steel industries Metal industries, except iron and steel Lumber and furniture industries Paper, printing, and allied industries Electrical machinery and supply factories Independent hand trades Other manufacturing industries						
Construction and maintenance of streets, etc. Garages, greasing stations, etc. Postal service Steam and street railroads Telegraph and telephone						

Industrial Work Sheet B (Continued).

	Tot	al	Mal	es	Females	
Industry Groups	Number	Per Cent*	Number	Per Cent*	Number	Per Cent*
Banking and brokerage Insurance and real estate						
Automobile agencies and filling						17
stations						
Wholesale and retail trade, except automobiles						
Other trade industries				1		
Public service (not elsewhere		1				
classified)						
Recreation and amusement		1				105
Other professional and semiprofes-				13.		
sional service						3,
Hatala mastaumenta haandina hausaa						
Hotels, restaurants, boarding houses Laundries, cleaning and pressing					100	
shops						10
Other domestic and personal service						
Industry not specified						1

NOTE: USE DATA FROM LATEST CENSUS REPORT.

Source: United States Census of Population, Vol. III, Part I., 1930, Table 20, pp. 789-96.

Data concerning manufacturing which show the number of establishments, wage earners, wages, value of product and value added by manufacturing, can be found in the United States Census of Manufacturing, Vol. III, 1929, Table 2, Iowa, pp. 176-177.

(For counties and cities of more than 10,000 population).

OCCUPATIONAL DISTRIBUTION AND TRENDS

Forms 6, 7 and 8

Occupational Work Sheet C

Occupational Trends. Tota	1 Males Females					
Occupational Divisions	19	30	1.91	10	1910 to	
Occupational Divisions	Number	Per Cent*	Number	Per Cent*	Gain or Loss 1	Change 2
Population 10 years old and over						1
GAINFUL WORKERS						
All occupations	-	100.00		100.00		
Agriculture						
Proprietary Farmers (owners and tenants) includes gardeners; florists, fruit growers and nurserymen; stock raisers Manual workers Skilled Managers and foremen Unskilled Farm laborersincludes in 1910 and 1920 censuses, garden, greenhouse, orchard, etc., laborers; stock herders, drovers, feeders (1910); all "other agricultural pur- suits" Forestry and Fishing						
Forestry Proprietary Foresters, forest rangers and timber cruisers, owners and managers of log and timber camps White-collar workers Inspectors, scalers and surveyors at log and timber camps Manual workers Skilled Foremen of log and timber camps Unskilled Teamsters and haulers, "other lumbermen", raftsmen and wood-choppers						

Occupational Work Sheet C (Continued)

Total ____ Males ___ Females ____

Occupational Divisions	193	50	191	.0	1910 to 1930 Per Cent*		
	Number	Per Cent*	Number	Per Cent*	Gain or Loss 1/	THE RESERVE THE PERSON NAMED IN	
Fishing Manual workers Semiskilled Fishermen and oystermen							
Extraction of Minerals							
Proprietary Operators, managers and officials Manual workers Skilled Foremen, overseers and inspectors Unskilled Coal mine operatives and "other operatives							
Manufacturing and Mechanical Pursuits	-						
Proprietary Builders and building contractors Officials in manufacturing; manufacturers, managers and officials in manufacturing Manual workers Skilled Building and related trades Brick and stone masons Cabinetmakers Carpenters Electricians Painters, glaziers, varnishers, enamelers, etc. Paperhangers Plasterers and cement finishers Plumbers Roofers and slaters Sawyers Stonecutters Structural iron workers Tinsmiths and coppersmiths Machine and related trades Blacksmiths, forgemen and hammermen Boilermakers Engineers (stationary) Loom fixers Machinists, millwrights and toolmakers							

Total	Males	 Females	
and the same	THEATON	TOTICATON	

Occupational Divisiona	193	50	191	.0		to 1930 Cent*
Occupational Divisions	Number	Per Cent*	Number	Per Cent*	Gain or Loss 1/	and the second second
Mechanics (n.o.s.) Molders, founders and casters Pattern and model makers Rollers and roll hands Printing trades Compositors, linotypers and type-						
setters Electrotypers, stereotypers and						
lithographers Engravers Pressmen and plate printers						
Shoemakers and cobblers (not in factory) Tailors and tailoresses						
Other miscellaneous trades Coopers Glass blowers						
Jewelers, watchmakers, goldsmiths and silversmiths						
Millers (grain, flour, feed, etc.) Piano and organ tuners Upholsterers						
Skilled occupations (not else- where classified; butchers and dressers, slaughterhouse, 1910) Foremen and overseers						
Semiskilled Dressmakers (not in factory) Milliners						
Apprentices to dressmakers and milliners Factory operatives						
Dyers Filers, grinders, buffers and						
Operatives, building trades Operatives, factory Part in factory and part other						
Apprentices, building and hand trades Apprentices (n.o.s.)						
Bakers Oilers of machinery Unskilled						
Building & construction laborers (in 1910 designated as laborers, building and hand trades)						

		12.0	12.01	
Total	-	Males	 Females	

Occupational Divisions		30	1910		1910 to 193 Per Cent*	
occupational Divisions	Number	Per Cent*	Number	Per Cent*	Gain or	100
Factory						
Furnacemen, smelter men, heaters,					H-H-W	
puodlers, etc.						
Laborers (n.o.s.)						13-15 4
Firemen (not locomotive or fire department						
depar onerro						
ransportation and Communication						
Water Transportation						
Proprietary						
Captains, mates and pilots Manual workers						b 50
Semiskilled						
Boatmen, canalmen and lockkeepers						
Sailors and deck hands						
Unskilled				1		
Longshoremen and stevedores		5				
Laborers (water transportation),						
classified under "Other Trans-						
portation and Communication						
Pursuits"					1	
Road and Street Transportation	1					
Proprietary				4		
Garage owners, managers and offi-						
cials						
Owners and managers, truck, trans-						
fer and cab companies						
Livery stable keepers and managers						
Manual workers						
Skilled						
Bus conductors Foremen and inspectors of:						
Garages, greasing stations &						
automobile laundries						
Road and street building and						
repairing, classified under						
"Other Transportation and			1			1
Communication Pursuits"					9-11	
Livery and transfer companies						
Semiskilled						
Chauffeurs, truck and tractor drivers						
Draymen, teamsters and carriage						1
drivers						
Othersroad & street building &				THE		1
repairing, "other occupations"			1		1	

Occupational Work Sheet C (Continued)

Total --- Males --- Females ---

Occupational Divisions		30	193	0	1910 to	5 5	
	Number	Per Cent*	Number	Per Cent*	Gain or Loss 1	Change 2	
Unskilled Laborers, road and street Laborers, garage, transfer com- panies, etc. Hostlers and stable hands							
Railway, Steam and Street Proprietary Officials and superintendents Conductors on steam railroads White-collar workers Baggagemen and freight agents Ticket and station agents Agents, express companies Express messengers and railway mail clerks Manual workers Skilled Conductors on street railroads Foremen and overseers on railroads Locomotive engineers and firemen Inspectors, steam and street rail- roads Semiskilled Boiler washers and engine hostlers Brakemen, motormen and switchmen on steam and street railways Apprentices Other occupations, railways Unskilled Laborers, steam and street rail- roads Communication Agencies Proprietary Proprietors, managers and officials, telephone and telegraph companies, listed under "Other Transportation and Communication Pursuits"							
White-collar workers Mail carriers Telegraph messengers and operators Radio operators Telephone operators							

22 21 25		535 and 5			
Total		Males		Females	
TOUGL	-	Tates	-	remares	-

Occumetional Divisions		1930		.0	1910 to 1930 Per Cent*	
Occupational Divisions	Number	Per Cent*	Number	Per Cent*	Gain or Loss 17	
Manual workers Skilled Foremen and inspectors, telegraph and telephone, listed under "Other Transportation and Communication Pursuits" Semiskilled Telegraph and telephone linemen Apprentices Other occupations Unskilled Laborers (n.o.s.), telegraph and telephone Other Transportation and Communication Pursuits, including Air Transportation Proprietary Proprietors, managers and officials (n.o.s.), air transportation and "other transportation and communication pursuits" Manual workers Skilled Aviators (not classified separately for 1910) Foremen and inspectors, air transportation, water transportation, and "other transportation, and "other transportation pursuits" Semiskilled Apprentices Other occupations, "other transportation and communication pursuits" Unskilled		cent		Cent*	LOSS = /	
Laborers (n.o.s.), air transpor- tation, express companies, pipe lines and "other transportation and communication pursuits"						
Proprietary						
Bankers, brokers and money lenders Retail dealers Wholesale dealers, importers and exporters						

Occupational Divisions	193	60	191	.0	1910 to 1930 Per Cent*		
		Per Cent*	Number	Per Cent*	Gain or Loss 1/	Change 2/	
Undertakers Other proprietors and officials,							
Proprietary City and county officials and inspectors State and U. S. officials and inspectors (includes U. S. post- masters classified under transpor- tation and communication, 1930) Manual workers Skilled Firemen, fire department Policemen Sheriffs, marshals, detectives, truant officers, etc. Semiskilled Guards, watchmen and doorkeepers Others"other public service pur- suits"							

PT 1 7				
Total	Ma.	Les	- Female	S

Occupational Divisions	1930		1910		1910 to 1930 Per Cent*	
	Number	Per Cent*	Number	Per Cent*	Gain or Loss 17	Chang 2
Unskilled Laborers, public service Soldiers, sailors and marines (not classified as to social-economic level) ofessional Service						
Professional persons 1. Education College presidents and professors Librarians Teachers—includes school superintendents, supervisors, principals, instructors, Y.M.C.A., etc. Does not include art and music teachers 2. Health Chiropractors and healers Dentists Physicians, surgeons and osteopaths Trained nurses Veterinary surgeons 3. Art and recreation Actors and showmen Artists and teachers of art Authors, editors and reporters Musicians and teachers of music 4. Business Architects Designers, draftsmen and inventors Chemists, assayers and metallurgists Technical engineers—includes civil engineers and surveyors, electrical engineers, mechanical engineers Photography 5. Law Lawyers, judges and justices 6. Religion Clergymen						

Total	Males	Females
TOUGLE	WHICH	PENSIES

Occumentional District	1930		1910		1910 to 19		
Occupational Divisions	Number	Per Cent*	Number	Per Cent*	-	or	Change 2/
headings under "other professional pursuits" that are not classified elsewhere in the table; county agents, farm demonstrators, etc. Proprietary Billiard room, dance hall, etc. keepers (classified under domestic and personal service, 1910) Keepers of charitable and penal institutions Keepers of pleasure resorts, race tracks, etc. Theatrical owners, managers and officials Directors, managers and officials of motion picture production Radio announcers, directors, managers White-collar workers Abstracters, notaries and justices of the peace Officials of lodges, societies, etc. Others-apprentices to architects, designers and draftsmen, and to other professional persons; technicians and laboratory assistants; other professional attendants and helpers Manual workers Semiskilled "Other semiprofessional occupations attendants in pool rooms, bowling alleys, golf clubs, etc., helpers in motion picture production; theater ushers; turfmen, sportsmen, fortune tellers, etc. Unskilled Stage hands and circus helpers Laborers, professional service							

Matal	 11-7	Times 7	122/02/	
TOTAL	 Maies	 remai	es	

Occupational Divisions		1930		.0	1910 to 193	
		Per Cent*	Number	Per Cent*	Gain or Loss 1	1
Restaurant, cafe and lunch-room		00110		00110	1038 2/	-
keepers						
Saloon keepers					1,1930 4	1033
Cleaning, dyeing and pressing shop						
owners, proprietors, managers and		195			1 32 37	
officials						
Manual workers						
Skilled						
Foremen and overseers in cleaning,						
dyeing, pressing shops, and in laundries						
Cooks						
Semiskilled					4-11-1	
Personal service						
Janitors and sextons						
Servants						
Waiters or waitresses						
Others						
Barbers, hairdressers, manicur-						
ists, etc.						
Bartenders						
Boarding and lodging-house				10-137		
keepers					×	
Housekeepers and stewards						1
Deliverymen and "other operatives"						
in laundries and cleaning, dye- ing and pressing shops; reno-						
vators and cleaners					-	
Nurses (not trained)				-3-1		
Other pursuits (n.o.s.)				97-191		8
Unskilled						
Personal service			(FE) (FE)			
Bootblacks						
Charwomen and cleaners						
Elevator tenders						
Launderers or laundresses (not						
laundry operatives)						
Porters (except in stores)						
Laborers, domestic and personal						
service			4			
	1					
erical Occupations					1, -1 -	
White-collar workers		AIC SHEET OF STREET				
Agents, collectors and credit men		de la la de				
includes "advertising agents", who						
were classified under trade, 1930;						
nord drassified dilder trade, 17,00,	1					

Occupational	Work	Sheet	C	(Continued)
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Total .	Males	Females	
---------	-------	---------	--

Occupational Divisions	1930		1910		1910 to 1930 Per Cent*	
	Number	Per Cent*	Number	Per Cent*	Gain or Loss 1/	Change 2
agents (n.o.s.); and purchasing agents (except for railroads) Bookkeepers, cashiers, accountants and auditors Clerks (except "clerks" in stores) includes office appliance operators shipping clerks and weighers Messenger, errand and office boys and girls Stenographers and typists						

- 1/ Gain or loss in percentage of all gainfully occupied, 1910-1930.
- 2/ Percentage rate of increase or decrease in numbers, 1910-1930.
 (n.o.s.) Not otherwise specified.

Source: United States Census, Occupational Statistics, Vol. 17.

1930: Either Table 4, pp. 529-33 or Table 5, pp. 534-36 1910: Either Table 3, pp. 152-207 or Table 4, pp. 208-291

Note: If 1940 census is available, use 1940 and 1920 data.

Number forms as follows: Form 6--Distribution of All Gainful Workers, Form 7--Male Gainful Workers and Form 8--Female Gainful Workers.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Form 9

Gainful Workers in the Population.

		1930		1920				
Item			45 yrs.	A CONTRACTOR OF THE PARTY OF TH	20-44			
	Years	Years	& Over	Years	Years	& Over		
Total population 1/ Number of gainful workers			MALES					
Gainful workers per cent of popula- tion	*	*	*	*	*	*		
			FEMALES					
Total population 1/ Number of gainful workers		Hom		41.5				
Gainful workers per cent of popula-	*	*	*	*	*	*		

1/ Use data from Form 3.

Source: United States Census, Occupational Statistics

1930: Vol. IV., Population - Occupations - Iowa -Table 10, p. 539.

1920: Vol. IV., Population - Occupations -

Cities of 100,000 inhabitants or more, Males - Table 19, pp. 452-453, Females - Table 20, pp. 454-455.

Cities of 25,000 to 100,000 inhabitants, Males and Females - Table 23, pp. 466-472.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Form 10

Age Distribution of Gainful Workers.

Ama Cmarra	The state of	Nu	mber of	Worker	S	
Age Groups		1930			1920	-
	Total	Male	Female	Total	Male	Female
Total						
10-13 years 14-15 years 16-17 years 18-19 years 20-24 years 25-44 years 45-64 years Unknown						
	M	mber o	f Worker	s in Pe	er Cent	
Total	100.0*	100.0*	100.0*	100.0*	100.0*	100.0*
10-13 years 14-15 years 16-17 years 18-19 years 20-24 years 25-44 years 45-64 years Unknown						

Source: United States Census, Occupational Statistics

1930: Vol. IV., Table 10, p. 539.

1920: Vol. IV., Cities of 100,000 inhabitants or more,
Males - Table 19, pp. 452-453, Females Table 20, pp. 454-455.

Cities of 25,000 to 100,000 inhabitants, Males and Females - Table 23, pp. 466-472.

OCCUPATIONAL DISTRIBUTION AND TRENDS

Compiling the Data

The compilation of data relating to occupational trends is accomplished on the data collecting blank in the following manner:

- I. Industrial Trends. Industrial Work Sheet A (Form 4)
 - Step 1. Check the figures in the number column to see that they conform with totals.
 - Step 2. Use the total number of workers in each number column as the base figure in determining percentage distribution for that column.
 - Step 3. Determine the proportionate distribution of gainful workers in each number column by dividing the number of workers in each industrial group by the total number of workers. Carry the division to at least one decimal place.
 - Step 4. Check the figures in the per cent column to determine accuracy. Slight adjustment may be necessary in certain figures.
 - Step 5. Determine the difference between the figures in the per cent column of the two decennial periods for each industrial group, and report in column 5. This figure will be positive if the 1940 number is greater than the 1930 number, and negative if the opposite relationship is true.
 - Step 6. The total of all negative figures in this column should equal the total of all positive figures.
 - Step 7. To secure figures for column 6, use the figures from the 1930 column as the base figures. Determine the numerical difference between the figures in the 1940 and 1930 columns, and divide by the number in the 1930 column. If the number in the 1940 column exceeds the number in the 1930 column the result is positive; if the opposite is true the result is negative.
- II. Industrial Distribution. Industrial Work Sheet B (Form 5)
 - Step 1. Check the figures in the number column to see that they agree with totals.

- Step 2. Using the total number of workers at the head of the column as the base figure, determine the percentage distribution of gainful workers for each industrial group in the total column.
- Step 3. Repeat the above step for male and female workers.
- Step 4. Check the percentage columns to see that each equals 100 per cent.
- III. Occupational Trends. Occupational Work Sheet C (Forms 6, 7 and 8)
 - Step 1. Check the figures in the number columns for accuracy.
 - Step 2. Using the total number of workers in each column as the base number, determine the percentage of workers in each occupational division. Carry all calculations to at least two decimal places. The sum of these ten figures should be exactly 100 per cent. Make adjustments to secure proper totals where necessary.
 - Step 3. Select one occupational division and determine the percentage of the total number of workers in each occupational level--professional, proprietary, white-collar and manual workers. Check these figures against the total for the occupational division.
 - Step 4. When these figures have been determined, pass on to the next occupational division and repeat the process.
 - Step 5. In each occupational division determine the proportion of all gainful workers who are skilled, semiskilled and unskilled workers in that division. Check these figures against the total for all manual workers in this division.
 - Step 6. When these figures have been determined, pass on to the next occupational division and so on.
 - Step 7. Select one occupational level in an occupational division and determine the proportion of all gainful workers who are engaged in each occupation in that level. Check these figures against the total for that occupational level in that division.
 - Step 8. Proceed with the next social-economic level until all levels in all occupational divisions have been figured.

- Step 9. Recheck all figures. Check occupations against social-economic levels, social-economic levels against occupational divisions, and occupational divisions against 100 per cent. Also check totals for all social-economic levels against 100 per cent.
- Step 10. To secure figures for column 5 take the difference between figures in column 2 and column 4. If figures in column 4 are less than those in column 2 the resulting figure in column 5 is positive; if the opposite is true the figure is negative.
- Step 11. Check negative and positive figures in column 5 to insure accuracy.
- Step 12. To secure figures for column 6 determine the difference between figures in column 1 and column 3 and divide by the figure in column 3. If the figure in column 1 exceeds the figure in column 3 the resulting figure in column 6 will be positive; if the opposite is true the figure will be negative.
- IV. Trends in Proportion of Gainful Workers in the Population-Form 9.
 - Step 1. Divide the number of gainful workers reported in each age group by the total population in that age group, and record the resulting per cent.
- V. Trends in the Age Distribution of Gainful Workers -- Form 10
 - Step 1. From the figures presented in the upper half of the form determine the percentage distribution of gainful workers by age groups for each group of workers, and tabulate the resulting data in the lower part of the form.

OCCUPATIONAL TRENDS

Tabulating the Data

All occupational data have been treated collectively so far in the study. However, at this point occupational trends data should be separated from occupational distribution data, and each treated and presented separately in the study.

Although all of the data compiled in Forms 4, 6, 7 and 8 are essential to the survey, in that these forms carry the data which show the trends in gainful employment by specific industries and occupations, it is impossible to present and discuss all of these data in the body of the report without making the report too voluminous for ready use. Because of the importance of these data, however, it is suggested that they be presented in their original form in the appendix of the study.

Data concerning the changes in the industrial pattern of the community, compiled in Form 4, are reported in Table III-A. This table contains only the totals for the eight industrial groups and is compiled from figures presented in that form. To facilitate the analysis of trends by industrial groups it is suggested that the table contain totals for the production, distributive and service industries. These figures can be determined after other figures are entered in the table.

Data which show the changes in the occupational pattern of the community, compiled in Form 6, are reported in Table III-B. Only the totals for each occupational division are transferred to this table. Data are also grouped to show totals for production, distributive and service occupations groups.

Data which are presented in Table III-C are compiled from data in Form 6. To compile these data it will be necessary to total the figures for each level of employment in all occupational divisions for each decennial period. Attention should be called to the fact that figures presented in columns 5 and 6 cannot be transferred from Form 6 and, therefore, must be determined after all other figures are placed in this table.

Table III-D reports the data exactly as they were compiled in Form 9.

Transfer the data from Form 10 to Table III-E and determine the increases or decreases for each age group, and for each group of workers.

OUCUPATIONAL TRENDS

Table	III-A.	Changes	in	the	Indus	stri	ial	Pattern	of
-			-	,	1930	to	19	40.	

Industry Groups	19	+0	19	30	1930 to	The same of the same of
	Number	Per	Number	Per Cent	Gain or Loss	
All Industries		100.00		100.00		
Production Industries						
Agriculture and allied industries Extraction of minerals						
Manufacturing and mechanical industries						
Distributive Industries						
Transportation and communication Trade						
Service Industries						
Public service						
Professional service Domestic and personal service	1 1 1 1 1				1	
Industry Not Classified		and the			30.0-1	

NOTE: THIS TABLE CANNOT BE USED UNLESS 1940 CENSUS DATA ARE AVAILABLE.

Source: Form 4.

OCCUPATIONAL TRENDS

Table	III-B.	Changes	in	the	Occupati	onal	Pattern	of
					, Iowa,	1910-	-30.	

Occupational Divisions	19	30	19:	ro	1910 to	70.7
	Number	Per Cent	Number	Per Cent	Gain or Loss	Change
All Occupations		100.00		100.00		
Production Occupations						
Agriculture and allied occupations Extraction of minerals Manufacturing and mechanical pur- suits						
Distributive Occupations						
Transportation and communication Trade						
Service Occupations						
Public service Professional service Domestic and personal service Clerical service						

Source: Form 6.

Table III-C. Changes in the Occupational Pattern of

________, Iowa, by Social-Economic Levels, 1910-30.

Contal Descript Town	19	30	19	10	1910 to	
Social-Economic Levels	Number	Per Cent	Number	Per Cent	Gain or Loss	Change
All Levels		100.00		100.00		
Professional persons Proprietary persons White-collar workers Manual workers Skilled Semiskilled Unskilled Soldiers, sailors and marines						

Source: Form 6.

Table III-E. Age Distribution of Gainful Workers in ______, Iowa, 1920 and 1930.

		Total		Numl	ber of V	Vorkers				
Age Grouns		Tudat	Trans	-	Males	7-		Females		
-15 years -17 years -19 years -24 years -34 years -64 years years and over known All Ages	1930	1920	Increase or Decrease	1930	1920	Increase or Decrease	1930	1920	lncreas or Decreas	
All Ages 10-13 years 14-15 years 16-17 years 18-19 years 20-24 years 25-34 years 35-64 years 65 years and over Unknown										
			Pe	rcenta	ge Dist	ribution				
10-13 years	100.0	100.0		100.0	100.0		100.0	100.0		
14-15 years 16-17 years 18-19 years 20-24 years 25-34 years 35-64 years 65 and over Unknown										

Source: Form 10

OCCUPATIONAL TRENDS

Presenting the Data

Industrial and Occupational Classifications Defined

Changes in the Industrial Pattern of the Community (Table III-A)

Production Industries
Distributive Industries
Service Industries

Changes in the Occupational Pattern of the Community (Table III-B)

Production Occupations
Distributive Occupations
Service Occupations

Occupational Trends by Social-Economic Levels (Table III-C)

Professional Persons
Proprietary Persons
White-Collar Workers
Manual Workers
Skilled and Foremen
Semiskilled
Unskilled

Trends in the Proportion of the Population Who Are Gainful Workers (Table III-D)

Trends in the Age Distribution of Gainful Workers (Table 111-E)

Summary

Implications for Vocational Education

Tabulating the Data

Data concerning the occupational distribution of gainful workers which have been made available in the appendix as source material for vocational guidance are presented in the body of the study for the purpose of locating potential training areas for further study. Tables which have been prepared for presenting these data will be found in the following pages.

Table IV-A. Data presented in this table are taken from Form 5 exactly as tabulated in that form. Therefore, repeat the form and change the number.

Table IV-B. This table shows the occupational distribution of gainful workers over ten years of age by sex, and is compiled from data in Forms 6, 7 and 8. Transfer the figures which show the percentage distribution of gainful workers in each occupational division, and determine the totals for the three industrial groups--production occupations, distributive occupations and service occupations.

Table IV-C. This table shows the distribution of workers by sex and social-economic levels, and data are taken from Forms 6, 7 and 8. Compile the data from these forms, transfer the data to the table and determine the percentage distribution of gainful workers in each level of employment by sex and total.

Table IV-D. This table was developed primarily for the purpose of locating potential training areas which should be given further study. The data should be compiled from Forms 7 and 8 and transferred to this table. After the data are recorded in this table a careful study should be made of each area, that is, of each group of figures presented for each occupational division and social-economic level.

The rejection of areas for further study is determined by the level of employment and number of workers. For example, all professional workers may be eliminated because this level is not included in a vocational education program as defined in this study. Unskilled workers as a class may be eliminated because few occupations at this level have training content.

Other areas such as forestry and fishing, extraction of minerals, and in most urban areas, agriculture, may be eliminated because too few workers are engaged at a given level of employment to make a vocational training program possible. Areas in other occupational divisions and social-economic levels may be eliminated for the same reason. A line should be drawn under the entries in the columns which have not been eliminated, and these areas should be further analyzed.

Table	IV-B.	000	cup	ation	nal	Distribution	of	Gainful	Workers	Ten	Years	of
Age	and	Over	ру	Sex	for				, Iowa	a, 19	930.	

Occupational Divisions	Total	Per Cent	Male	Per Cent	Female	Per Cent
Total		100.00		100.00		100.00
Production Occupations						
Agriculture and allied occupations						
Extraction of minerals						
Manufacturing & mechanical pursuits						
Distributive Occupations						
Transportation and communication Trade						
Service Occupations						
Public service						
Professional service						
Domestic and personal service						
Clerical service						

Source: Forms 6, 7 and 8.

Table IV-C. Distribution of Workers by Sex and Social-Economic

Levels for _______, Iowa, 1930.

Social-Economic Levels	Total	Per	Male	Per Cent	Female	Per Cent
All Levels		100.00		100.00		100.00
Professional persons Proprietary persons White-collar workers Manual workers Skilled Semiskilled Unskilled Soldiers, sailors and marines						

Source: Forms 6, 7 and 8.

Table IV-D. Distribution of Workers by Occupational Divisions and Social-Economic Levels, _______, Iowa, 1930.

The second secon	Profes	sional	Propr	ietary	ietary White-Collar				fanual	Workers		
Occupational Divisions	Pers	ons	Per	sons	Work	ers	Ski	lled		killed	Unski	lled
munication rade	Male	Female	Male	Female	Male	Female	Male	Female				Femal
	1	man we	Time!	12 1 2 2 2	P. Kent		11. 12.				7 7 7	
Total		1	. 1									
Acri and ture										-	1	
								18 8				
					2 1							
								15.19				
Transportation and com-												
Trade												
Public service*												
Professional service												
Domestic and personal service												
Clerical service												

^{*}Does not include soldiers, sailors and marines who are not classified as to any social-economic level.

Note: Underline figures to indicate occupational groups selected for further study.

Source: Forms 7 and 8.

The remaining tables in this chapter will depend upon the areas selected for further study. A table should be used to present the data for each selected area. To illustrate, if male skilled workers in manufacturing and mechanical pursuits are selected for further study, a table should be presented which will show the distribution of male skilled workers in that area as follows:

Table IV-E. Distribution of Male Skille	d Workers	in
Manufacturing and Mechanical Pursuits,	,	Iowa, 1930
Occupation	Number	Per Cent
All Skilled Workers 1/		
Manufacturing and Mechanical Pursuits Building and related trades Brick and stone masons Carpenters Etc.		

1/ Use data from Table IV-C.

Source: Form 7.

In cases where male and female workers in the same socialeconomic level of the same occupational division are selected for further study, data should be presented in the following manner:

Table IV-F. Distribution of White-Collar Workers in Trade Occupations, _______, Iowa, 1930.

Occupation	Male	Per	Female	Per Cent
All White-Collar Workers 1/ Trade Occupations				
Clerks (in stores) Commercial travelers Etc.				

1/ Use data from Table IV-C.

Source: Forms 7 and 8.

Data concerning other selected areas should be presented in similar tables.

Presenting the Data

Industrial Distribution of Gainful Workers (Table IV-A)

Production Industries
Distributive Industries
Service Industries

Occupational Distribution of Gainful Workers (Table IV-B)

Production Occupations
Distributive Occupations
Service Occupations

Occupational Distribution by Levels of Employment (Table IV-C)

Professional Persons
Proprietary Persons
White-Collar Workers
Manual Workers
Skilled and Foremen
Semiskilled
Unskilled

Occupational Opportunities for Gainful Employment

Locating Potential Training Areas (Table IV-D)

Analyses of Potential Training Areas (Tables IV-E, F, etc.)

(Exact heading will depend upon selected areas)

Proprietary Persons
Agriculture
Manufacturing and Mechanical Pursuits
Transportation and Communication
Trade

White-Collar Workers
Transportation and Communication
Trade

Clerical Service

Skilled Workers

Manufacturing and Mechanical Pursuits
Building and Related Trades
Machine and Related Trades
Printing Trades
Miscellaneous Hand Trades
Foremen and Overseers

Transportation and Communication
Public Service
Semiskilled Workers
Manufacturing and Mechanical Pursuits
Transportation and Communication
Public Service
Domestic and Personal Service

Summary

Implications for Vocational Education

CHAPTER IV.

Employers' Occupational Survey

Need for Additional Occupational Data

So far in this study attention has been given to data taken from authentic published reports which relate to occupational trends and occupational distribution of gainful workers in the community. Two very important limitations are placed on these data. First, available published data were collected and reported some years ago, and although they supply a very valuable background they do not necessarily represent the present situation. Second, census data are limited to a restricted classification of occupations, and no data are available concerning several points which are valuable in a study of this kind.

To supplement these data it is necessary to include in this survey a study of the employment and training situation as it actually exists today. To secure these data it is necessary to go directly to the employers in the local community. This chapter of the survey, therefore, is given to a personal contact study of employment in the many industrial, commercial and service establishments in the community. Instructions and devices for making such a study are included in the following pages of this chapter.

Collecting the Data

- Step 1. Arrange for a meeting with the chamber of commerce bureau heads, committee chairmen and local school administrators. Present the plan for the survey and secure their cooperation.
- Step 2. Prepare a contact list of local commercial, industrial and service establishments (see Form 11).
- Step 3. Eliminate from the list establishments which employ only a few workers.
- Step 4. Transfer information from contact list to 3 x 5 file cards with blank spaces provided for the following data:

Section_	II - A-5 (&co	Code a)	Phone 4-1032
Firm Name	Noe Food	market	
Address_3	207 main	Street	
Line of Bu	siness bi	icery Str	re
	fficial John		Title manager
Parameter 1985	USI	The second second second	To the state of th
	led 2/7/39	Blank Retur	ned 2/24/39
Phone Call	2/17/37	Personal Ca	11 2/24/39
Remarks:	and on the last		

- Step 5. Arrange the cards alphabetically by firm name, classified according to industrial groups and types of establishments (see classification of establishments, Code A).
- Step 6. Prepare employers' occupational survey blanks (Forms 12, 12a and 12b) and letter of transmittal. It is suggested that for best results these forms should be printed.
- Step 7. Mail blanks to employers including a letter of transmittal and self-addressed stamped envelope.
 - Step 8. Record date of transmittal and return on file card.
- Step 9. One week after mailing first letter send a follow-up letter to all establishments which have not returned blanks.
- Step 10. At the end of the second week after mailing the first letter, get in touch with the firm by personal contact and secure data if possible.
- Step 11. Segregate the returns according to industrial groups and types of establishments, and retain the segregation while tabulating the data (see classification of establishments, Code A).
- Step 12. Collect the data requested on Forms 13, 14 and 15 from the United States Census of Business, 1935, or later report if available.

Form 11

NOTE: Use a separate sheet for wood manufacture, metal manufacture, building trades, retail distribution, wholesale distribution, service occupations, etc. Contact List. Industrial Group									
Name of Firm	Contact		Type of Business	Approx. No. of Employees					
	Later Land								
		-							
the Annual Court Living Co.				Sect of pres					
				The Parks					
THE RESERVE OF THE PARTY OF THE									
The little desired to the second				THE PARTY PROPERTY					
No. of Contract Property of Contract Co									
the Process of the Parish and the Pa									
The Device in Land in Land Shape in	CONTROL OF	and the same		and the second					
Se this Manual Land of Street Lands									
		3. 19							
THE RESERVE AND ADDRESS OF		Lo Druge							
Service and retainers		1-1-		Control of the last					
S- Chart-Tool Miles				distribute :					
THE CONTROL OF PERSONS AND PROPERTY.		a Dine							
The later than the second of the later than the lat				And the state of					
THE RESERVE AND ADDRESS OF THE PARTY OF THE									
The Department of the latest o									
The Name of Street, St									
		11.60 84		Ann Street					
In the state of th									
S. March of Control of				Towns or the last of the last					

Classification of Establishments by Industry Groups and Types of Establishments

Code A

I. MANUFACTURING

- A. Building industries
- B. Chemical and allied industries
- C. Clay, glass and stone industries
- D. Clothing industries
- E. Bakeries
- F. Slaughter and packing houses
- G. Other food and allied industries
- H. Automobile factories
- I. Iron and steel industries
- J. Other metal industries
- K. Leather industries
- L. Wood and furniture industries
- M. Machinery & equipment industries
- N. Electrical machinery and supplies
- O. Railroad repair shops
- P. Paper, printing and allied industries
- Q. Independent hand trades
- R. Other industries

II. RETAIL DISTRIBUTION

- A. Food Stores
 - 1. Candy & confectionery stores
 - 2. Dairy products stores and milk dealers
 - 3. Delicatessen stores
 - 4. Fruit stores and vegetable markets
 - 5. Grocery stores (without meats)
 - 6. Combination stores (groceries and meats)
 - 7. Meat markets (including seafood) I. Drug Stores
 - 8. Bakeries and caterers ...
 - 9. Other food stores
- B. General Merchandise Group
 - 1. Dry goods and general merchandise stores
 - 2. Department stores
 - 3. Variety, five and ten, to-adollar stores
- C. Apparel Group
 - 1. Men's furnishings stores
 - 2. Men's clothing--furnishings stores
 - 3. Family clothing stores

- 4. Women's ready-to-wear stores
- 5. Furriers and fur shops
- 6. Millinery stores
- 7. Custom tailors
- 8. Accessories -- other apparel stores
- 9. Shoe stores
- D. Automotive Group
 - 1. Motor-vehicle dealers (new)
 - 2. Used-car dealers
 - 3. Auto accessories-tire dealers
 - 4. Garages
 - 5. Other automotive
- E. Filling Stations
- F. Furniture-Household Group
 - 1. Furniture stores
 - 2. Floorcoverings -- drapery stores
 - 3. Household appliance -- radio stores
 - 4. Radio dealers
 - 5. Other home furnishings stores
- G. Lumber-Building-Hardware Group
 - 1. Lumber and building -- material
 - 2. Hardware stores
 - 3. Hardware and farm implements
 - 4. Heating and plumbing equipment
 - 5. Paint, glass, wall-paper stores
 - 6. Electrical supply stores
- H. Eating and Drinking Places
 - 1. Restaurants--cafeterias--lunch rooms
 - 2. Lunch counters, refreshment stands
 - 3. Drinking places
- - 1. Drug stores with fountain
 - 2. Drug stores without fountain
- J. Other Retail Stores
 - 1. Cigar stores and cigar stands
 - 2. Florists
 - 3. Fuel and ice dealers
 - 4. Hay, grain and feed stores
 - 5. Farm and garden supply stores
 - 6. Jewelry stores
 - 7. News dealers
 - 8. Beer & liquor stores (packaged)
 - 9. Other classifications
- K. Second-Hand Stores

Code A (Continued)

III. WHOLESALE DISTRIBUTION

- A. Amusement and sporting goods
- B. Automotive
- C. Beers, wines and liquors
- D. Chemicals and paints
- E. Coal and coke
- F. Electrical goods
- G. Farm products consumer goods
- H. Farm supplies
- I. Groceries (full line)
- J. Groceries (specialty lines)
- K. Machinery, equipment and supplies
- L. Petroleum and its products
- M. Waste materials
- N. All other

IV. SERVICE DISTRIBUTION

- A. Personal Services
 - 1. Barber shops
 - 2. Beauty parlors
 - Cleaning, dyeing, pressing, alteration and repair shops
 - 4. Funeral directors, embalmers and crematories
 - 5. Laundries (not including power laundries)
 - 6. Photographic studies
 - 7. Shoe repair shops and shoe shine parlors (including hat cleaning)
 - 8. Other personal services
- B. Business Services
 - 1. Adjustment and credit bureaus.
 and collection agencies
 - 2. Sign painting shops
 - 3. Window cleaning service
 - 4. Other business services
- C. Repair Services and Custom
 - Industries
 - Automotive repairs and services (excluding general repair garages)
 - a. Automobile radiator shops
 - b. Automobile storage garages
 - c. Automobile top and body repair shops

- d. Parking lots
- e. Tire repair shops
- f. Other automotive repairs
- Other repair services (except apparel and shoes)
 - a. Blacksmith shops
 - b. Electrical appliance repair shops
 - c. Locksmith and gunsmith shops
 - d. Radio repair shops
 - e. Upholsterv and furniture repair shops
 - f. Watch, clock and jewelry repair shops
 - g. Other repair services
- 3. Custom industries
 - a. Printing and publishing shops
 - b. Tinsmith shops
 - c. Other industries
- D. Miscellaneous Services

V. OTHER INDUSTRIES

- A. Banks and investment companies
- B. Real estate and insurance companies
- C. Hotels and restaurants
- D. Hospitals
- E. Doctors', dentists' and lawyers' offices
- F. Public service offices
 - 1. Federal offices
 - 2. County offices
 - 3. City offices
 - 4. Police department
 - 5. Fire department
- G. Public utilities
- H. Theaters
- I. Transportation and communication
- J. Other industries

Form 12

Name	of	FirmAddress
Kind	of	Business
Name	of	Person ReportingTitle
ı.		INING PROGRAM: Do you have an <u>organized training program</u> in your establishment? Yes No
	a. b.	YOU HAVE AN ORGANIZED TRAINING PROGRAM: Does it include a written plan of instruction? Yes No Does training cover manipulative and related subjects, manipulative only, related only? Who trains the workers? Instructor, foreman, others (specify) What pay roll jobs are included in the training program?
	a.	LIC SCHOOL COOPERATION IN VOCATIONAL TRAINING: In your opinion, can the public schools cooperate with business and industry in the vocational training of workers? Yes No
	a.	LOYMENT INFORMATION: Please report on the first blank approximate information concerning the distribution of employees in your establishment by type or level of employment. Please report on the second form the distribution of workers in your establishment by pay roll jobs.

V. REMARKS:

Form 12a

Description	of	business
	_	

(Retail general merchandise, wholesale grocers, manufacturing wood products, radio service, automobile sales, service and repair, etc.)

NOTE: Please report number of workers normally employed at each level.

In all cases when in doubt as to classification, report in blanks at bottom of form. "M" and "F" refer to males and females.

		Number of Employees								nover	Jo	Beginning Jobs	
Occupational	Under 25 years of age		25-55 vears of age		Over 55 years of age		Total employees all ages		Labor turnover last 12 nonths		Beginning jobs fill- ed last 12 months		
Executive and salaried officials Office and clerical workers	M	F	M	F	M	F	M	F	M	F	M	F	
Selling employees													
Waiters and Waitresses													
Operative employees													
Warehouse and stockroom													
Foremen and overseers									i				
Skilled workers									1				
Semiskilled workers													
Apprentices													
Helpers													
Laborers								1					
		1	1 1										

Remarks:

Form 12b

Kind	of	Business-
------	----	-----------

(Retail general merchandise, wholesale grocers, metal manufacturing, auto sales and service, etc.)

NOTE: Exclude executives and salaried officials, professional workers and unskilled laborers. Include only pay roll jobs which require a definite training or learning period.

	Numbe		th th
Pay Roll Job	Male	Female	Is job high, medium or low skilled? Length of training or learning period Number of apprentices or learners in training for this pay roll job? cooperate with industry in training workers for this pay

Form 13

Retail Trade.

Kinds of Business	Number of Stores	Sales	Pro- prietors	Em- ployees*	Total Pay Roll* (add 000)
Total					
Food stores	1				
Candy and confectionery stores Dairy products stores and milk dealers Delicatessen stores Fruit stores and vegetable markets Grocery stores (without meats) Combination stores (groceries and meats) Meat markets (including seafood) Bakeries and caterers Other food stores					
General stores (with food)					
Dry goods and general merchandise stores Department stores Variety, five and ten, to-a-dollar stores Apparel group					
Men's furnishings stores Men's clothingfurnishings stores Family clothing stores Women's ready-to-wear stores Furriers and fur shops Millinery stores Custom tailors Accessoriesother apparel stores Shoe stores					
Automotive group Motor-vehicle dealers (new) Used-car dealers Auto accessories - tire dealers Garages Other automotive					

Form 13 (Continued)

Kinds of Business	Number of Stores	Sales (add 000)	Pro- prietors	Em- ployees*	Total Pay Roll* (add 000)
Filling stations			FREE		W 2011
Furniture-household group					
Furniture stores Floorcoveringsdrapery stores					
Household applianceradio stores Radio dealers					
Other home furnishings stores					
Lumber-building-hardware group Lumber and buildingmaterial Hardware stores					
Hardware and farm implements Heating and plumbing equipment Paint, glass, wall-paper stores Electrical supply stores					
Eating and drinking places					
Restaurantscafeteriaslunch rooms Lunch counters, refreshment stands					
Drinking places					
Drug Stores					
Drug stores with fountain Drug stores without fountain					
Other retail stores Cigar stores and cigar stands					
Florists Fuel and ice dealers					
Hay, grain and feed stores Farm and garden supply stores					
Jewelry stores News dealers					
Beer and liquor stores (packaged) Other classifications					
Second-hand stores					

^{*}Pay roll includes no compensation for proprietors of unincorporated businesses. Number of employees includes full-time and part-time.

Note: Use latest available census figures.

Source: U. S. Census of Business, Retail Distribution, Vol. II., 1935.
Cities of more than 50,000 population, pp. 114-179.
Cities of 10,000 to 50,000 population, pp. 180-234.

Form 14

Wholesale Trade.

Kinds of Business	Istab- lish- ments	Net Sales (add 000)	Em- ployees	Pay Roll' (add 000)
Total				, , , , , , , , , , , , , , , , , , , ,
Full-Service and Limited-Function Wholesalers				
Amusement and sporting goods Automotive				
Chemicals and paints Coal and coke Electrical goods Farm products - consumer goods Farm supplies Groceries (full line) Groceries (specialty lines) Machinery, equipment and supplies Waste materials All other				
Manufacturers' Sales Branches with Stocks)				
Automotive Groceries (specialty lines) Machinery, equipment and supplies All other Manufacturers' Sales Offices				
(without Stocks)				has were to
Bulk Tank Stations				i and the
Petroleum and its products Agents and Brokers				
Groceries (specialty lines) All other				

^{*}Includes no compensation for proprietors and firm members of unincorporated businesses.

Source: U. S. Census of Business, Wholesale Distribution, Vol. III., 1935.
Cities of more than 50,000 population, pp. 3-78.
Cities of 20,000 to 50,000 population, pp. 81-98.
Counties and cities of more than 5,000 population, pp. 101-151.

Note: Use latest available figures.

Form 15

Service Establishments.

				and the same of th	
Kinds of Business	Estab- lish- ments	Receipts (add 000)	Pro- prietors	Em- ployees*	Total Pay Roll* (add 000)
Total					
Personal Services					
Barber shops Beauty parlors Cleaning, dyeing, pressing, alteration and repair shops Funeral directors, embalmers and crematories Laundries (not including power laundries) Photographic studios Shoe repair shops and shoe shine parlors (including hat cleaning) Other personal services					
Business Services					
Adjustment and credit bureaus and collection agencies Sign painting shops Window cleaning service Other business services Repair Services and Custom Industries					
Automotive repairs and services (excluding general repair garages) Automobile radiator shops Automobile storage garages Automobile top and body repair shops Parking lots Tire repair shops Other automotive repairs Other repair services (except apparel and shoes) Blacksmith shops Electrical appliance repair shops					

Form 15 (Continued)

Kinds of Business	Estab- lish- ments	Receipts (add 000)	Pro- prietors	Em-	Total Pay Roll (add 000
Locksmith and gunsmith shops Radio repair shops Upholstery and furniture repair shops Watch, clock and jewelry repair shops Other repair services Cuatom industries Printing and publishing shops Tinsmith shops Other industries iscellaneous Services					

*Pay roll includes no compensation for proprietors and firm members of unincorporated businesses. Number of employees includes both full-time and part-time employees (average for the year).

Source: U. S. Census of Business, Service Establishments, Vol. II., 1935.
Cities of 25,000 or more population, Iowa, pp. 144-45.
Counties and cities of 2500 or more population, lowa (Totals),
pp. 72-73.

Note: Use latest available figures.

Compiling the Data

Step 1. When the survey blanks are returned by employers they should be segregated into four industrial groups according to Code A, classification of establishments: (1) manufacturing (2) trade--retail and wholesale (3) service establishments, and (4) other establishments. Classification of blanks should then be made by types of establishments under each of the four heads.

Step 2. Prepare work sheets D, E and F for tabulating data.

Step 3. Select one of the four industrial groups and proceed with the tabulation of data from Form 12. If the manufacturing group has been selected, write the word "Manufacturing" at the top of work sheet D. The first type of establishment encountered in the manufacturing group is the Building Industries. Write the word "Building Industries" at the left of the form just under the heading and record the data from the first and subsequent building trades blanks. When the data for all building industries have been entered, draw a line and total the columns.

Next, enter the name of the second type of establishment and proceed as before. When all data on manufacturing establishments have been entered, draw a double line and strike a total for the entire industrial group. Data for the other three industrial groups should be recorded in the same manner.

In recording data relative to the training program, include only those firms which reported having an <u>organized program of training</u>. This applies to all questions answered in Section II, Form 12. Since no space is provided for reporting the pay roll jobs included in organized training programs, it is suggested that you make a list of all the different pay roll jobs.

Step 4. Tabulate the data from Form 12a on work sheet E. Select the industrial group to be tabulated; write the name of the industrial group, the type of establishment and the level of employment in the blanks provided at the top of the sheet, and proceed with entering the data from the various blanks in this type of establishment in the spaces provided for such data.

When the data from all blanks have been entered, total the column and proceed with the second level of employment. When all levels of employment in each type of establishment have been recorded for this industrial group, clip the summation sheets together and proceed with the remaining industrial groups in the same manner.

Step 5. Record data from Form 12b on work sheet F. Select the industrial group and type of establishment to be tabulated. After a careful study of these blanks set up an alphabetic list of the pay roll jobs in this type of establishment which were reported on the survey blanks. This list may be further improved by segregating office and clerical workers and manual workers and realphabetizing.

Enter the name of the industrial group and the type of establishment in the spaces provided at the top of the sheet. Under pay roll job enter the name of the first pay roll job. Next, transfer the data concerning this pay roll job from each of the survey blanks for the selected establishment. When data concerning this pay roll job have been tabulated, total the figures in each column. Do the same for each pay roll job in the alphabetic list. When all pay roll jobs in this type of establishment have been compiled, draw a double line and determine totals for all pay roll jobs in this type of establishment.

In the same manner tabulate the data on pay roll jobs for other types of establishments in this industrial group, and then for establishments in other industrial groups.

EMPLOYERS' OCCUPATIONAL SURVEY

Work Sheet D

	Indu	stri	al G	roup																-
								(M	fg.,	tra	de,	serv	ice	or o	ther)				
of o.	Can	Sch		Or	gani	zed					Orga	ni ze	d Tr	ainii	ng P	rogra	am	=8150		
No. of Estab.	in	pera [rai	ning	Pr	aini ogra	m	-	Pla	ten n		Trai Incl	ning udes			I	nstm	cted	l by		
MM	Yes	No	NA	Yes	No	IVA	Yes	No	NA	Man	Rel	M&R	NA	1	F	1&F	E	M	0	NA

Source: Form 12. NA--not ascertainable; Man--manipulative, Rel--related, M&R--manipulative and related; I--instructor, F--foreman, 1&F--instructor and foreman, E--employer, M--manager and O--other.

EMPLOYERS' OCCUPATIONAL SURVEY

Work Sheet E

Merca of Wat 171		Nı	umbe	r of	Emp	love	es		Tu	rn- er	Beg	
Type of Establishment and Level of Employment	Total	Cases	Under	of age	25-55	years	Over	Years	Last	Mos.		
	M	F	M	F	M	F	M	F	M	F	M	F
			1						- 1		H	

Source: Form 12a.

Work Sheet F

Industrial G	roup					
	late site pater i	(Mfg.,	trade, s	ervice and oth	her)	
Type of Esta	blishment					
	(Bldg.	industry,	general	merchandise, estate)	repair serv	ice, real

D 5-33 T-3	Em ploy			ree kill		Pe	gth riod	in	Mont	ing	Traini	ng
Pay Roll Job	M	F	•	uire	d	12 or Less	12 to 24	24 to 36	to	Over 48	Number in Training	Schoo Coop M F
						LOSS)0	70		traiming	101 F
					371		9		4	The state of		1. 1
DISTRIBUTE OF THE PARTY OF THE									8 91			
				-						4 12		
		1	2 10							195 1	THE PERSON	
THE THE PERSON NAMED IN		-								9		
tellal making in ton	624		j ah								THE PART OF	
									0 00	N I I	EF II	
AND DESCRIPTION OF												
TERMINAL SERVICE	-											
CONTRACTOR OF THE PARTY OF THE									X.		or habit	
THE PERSON IN COLUMN											nel color	
THE PARTY LANCE											24 72 "	
the South Laboratory										100	JE CONTRACT	
										1		
			100	1						-	Day Street	
										1	AMPER ST	4
		- 1									Dec 2 Co.	
THE REAL PROPERTY.							Tal				1 1000	
									1			
	1					1 3					1	
											11 40 -	
											The same of	9.
	4	1			1			1				

EMPLOYERS' OCCUPATIONAL SURVEY

Tabulating the Data

After all data from the employers' occupational survey have been compiled on work sheets D, E and F, the next step in the procedure is the tabulation of data in preparation for presenting same in the narrative of the study. A series of tables have been developed for this purpose and are presented in the following pages.

The first table in this series, Table V, summarizes the data from the employers' survey blank, Form 12, concerning organized training and school cooperation, which were compiled on work sheet D. Only the totals for work sheet D are reported in Table V, as indicated by the headings included in the left-hand column of this table. The exact headings will, of course, depend upon the industrial groups and types of establishments which are included in each survey.

The second type of table, consisting of a group of five tables (Tables V-A-1, 2, 3, 4 and 5), is presented primarily to bring into the study information from the United States Census reports which show the total number of workers in each of the industrial groups—manufacturing, trade, service and other industries—which are treated separately in the study. A comparison of these figures with figures collected in the employers' survey will give some idea of the proportion of the total field which was covered in the employers survey.

The third type of table, consisting of a group of four tables (Tables V-B-1, 2, 3 and 4) shows the occupational distribution of gainful workers in establishments included in the employers' occupational survey. These data were compiled from Form 12a in work sheet E, by industrial groups and types of establishments, and should be so presented in the four tables.

The headings at the top of this table indicate the substitute headings for the several tables, and will depend upon the different types of establishments included in the survey. These tabulations show the distribution of gainful workers by age, the extent of turnover, and the beginning jobs filled by types of establishments in each of the four industrial groups.

The fourth group of tables (Tables V-C-1, 2, 3 and 4) shows the distribution of gainful workers by levels of employment as to age, turnover, and beginning jobs filled in the four industrial groups, each in a separate table. These data are taken from Form 12a as compiled in work sheet E.

The fifth group of tables (Tables V-D-1, 2, 3 and 4) shows the distribution of gainful workers by types of establishments in each industrial group as to degree of skill required, length of the training period, number in training, and the attitude of employers concerning the cooperation of the school with business and industry in the training of workers for each type of establishment. These data, which are presented in a table for each industrial group, are compiled in work sheet F. In this table report only the totals for each type of establishment in each industrial group.

The sixth type of table (Tables V-E:M-1, 2, etc.), consisting of one table for each type of establishment included in the survey, shows the distribution of workers in each type of establishment by pay roll jobs according to sex, degree of skill required, length of the training period, number in training, and the attitude of employers concerning the cooperation of the school in training workers for employment in these pay roll jobs.

Since the V-E types of tables are to be presented in the appendix it is suggested that this identification be dropped and that a series of table numbers be adopted for each group of tables. For example, all tables which have to do with manufacturing should be identified by the letter "M", and the number following this letter should refer to the type of establishment in that group. Thus, tables which contain data concerning the distribution of workers by pay roll jobs in the building trades would be numbered M-1, chemical and allied industries M-2, and so on. The trade group would be identified by the letter "T", service by the letter "S" and other industries by the letter "O", and in every case each type of establishment should be identified by a number after the letter.

EMPLOYERS' OCCUPATIONAL SURVEY

Table V. Summary Concerning Organized Training and School Cooperation.

Type of	No.	100000000000000000000000000000000000000	Sch	ools	Fi - 250-1	gani aini		W	ritt	en	0:		ized inin		inin	g Pr	ogra	n			
Establishment*	of ab.		-	ning	4	ogra		-	Pla				lude	200		In	stru	cted	Ъу		
	. 13	Yes	No	NA	Yes	No	NA	Yes	No	NA	Man	Rel	M&R	NA	I	F	I&F	E	M	0	NA
Total				-												1					
lanufacturing																					
!rade																1					
Retail		1														1					
Wholesale			1																		
ervice		1		1																	
ther Industries							1								1				10		
Banks & investment	7	1																			
Real estate & ins. Hotels & restau-								-													1
rants																-					
Hospitals																					
Prof. offices							1		-										14-		
Public service Public utilities	1			1																	
Theaters														4							1
Trans. & comm.		1	1	1		77.1		-				-	7	4-	-						
Other industries		15										1	in								
	4 -				1 3 - 3											4				+	1
		1	-			T. VEV	-				AL STREET			-	-						

^{*}The list under this heading depends on establishments included in the survey.

NA--not ascertainable; Man--manipulative, Rel--related, M&R--manipulative and related; I--instructor, F--foreman, I&F--instructor and foreman, E--employer, M--manager or department head, O--other,

Source: Work Sheet D.

Table	V-A-1.	Distribution	of	Gainful	Worke	rs	in	the	Product	ion
	Industri	.es,				Iot	va.	1930).	

Total number of industrial establishments in _____ = ____

Trong of Indust	-	tal	Mai	les	Fema	ales
Type of Industry	Number	Per 1/ Cent	Number	Per 2/ Cent	Number	Per 3/ Cent
Total	-					
Building industries Chemical and allied industries Clay, glass and stone industries Clothing industries Bakeries Slaughter and packing houses Other food and allied industries Auto factories and repair shops Blast furnaces and steel mills Iron and steel industries Metal industries, except iron and steel Lumber and furniture industries Paper and printing industries Electrical machinery and supply industries Independent hand trades Other manufacturing industries						

1/ Per cent of all gainful workers. 2/ Per cent of all male gainful workers. 3/ Per cent of all female gainful workers.

Source: Form 5.

Table V-A-2: Reproduce Form 13.

Table V-A-3: Reproduce Form 14.

Table V-A-4. Reproduce Form 15.

Table V-A-5. Distribution of Gainful Workers in Selected Industries, 1930.

	To	tal	Mai	les	Fema	ales
Type of Establishment	Number	Per 1/ Cent	Number	Per 2/ Cent	Number	Per 3/ Cent
Total	-					
Banks and investment companies Real estate and insurance com- panies						
Hotels and restaurants Other professional and recreational						
Public service Transportation & communication						

^{1/} Per cent of all gainful workers.

^{2/} Per cent of all male gainful workers.
3/ Per cent of all female gainful workers.

Source: Compiled from Form 5.

Table V-B. Distribution of Gainful Workers by Types of

Establishments, and by Sex and Age.

- 1. Manufacturing
- 2. Retail and Wholesale
 Food
 General merchandise
 Apparel
 Automotive
 Filling stations
 Furniture-household
 Lumber-bldg.-hardware
 Eating and drinking
 Drug stores
 Other stores
- J. Service

 Personal

 Business

 Repair

 Custom ind.

 Misc. services
- 4. Other Industries
 Banks and investments
 Insurance & real estate
 Hotels and restaurants
 Hospitals
 Professional offices
 Public service
 Public utilities
 Theaters
 Transportation and
 communication
 Others

NOTE: Summarize data in four tables by industrial groups. Types of business to be used in left-hand column shown above.

		Nu	mber	of I	Empl	oyees	3	· je	Tui		Begi	
Type of Establishment	Total	Ages	Under	of age	25-55	of age	16 1	of age	Last	Mos.	Filled	Mos.
	M	F	M	F	M	F	M	F	M	F	М	F
Total										- 1		
Building industry Chemical, clay, glass and stone Clothing industries Bakeries Packing houses Other food & allied industries Iron and steel industries Other metal industries Wood and furniture industries Paper, printing & allied industries Electrical machinery and supplies												
Railroad repair shops Independent hand trades Other industries												

Source: Work Sheet E.

Table	∇-C.	Di	stri	but	ion	of	Gainful	Workers	p,v	Occupational	Levels,
	Sex	and	Age	in.			200	27 12%	E	stablishments	

- 1. Manufacturing
 - 2. Retail and Wholesale Trade
 - 3. Service Establishments
 - 4. Other Establishments

NOTE: Summarize data in four tables by industrial groups as indicated above. In each table omit occupational levels which are not found in the industrial group being tabulated.

		Nur	nber	of I	Implo	yees			Tur		Begi Job	
Occupational Levels	Total	Ages	Under	of age	25-55	of age	Over	of age	Last	Mos.	Filled	Mos.
	M	F	M	F	M	F	M	F	M	F	M	F
Executive & salaried officials Office and clerical workers Selling employees Waiters and waitresses Operative employees Warehouse & stockroom employees Foremen and overseers Skilled workers Semiskilled workers Apprentices Helpers Laborers Others												

Source: Work Sheet E.

Table V-D. Sex, Training and Degree of Skill Required in

, Establishments.

1. Manufacturing

2. Retail and Wholesale

3. Service Establishments

4. Other Establishments

NOTE: Summarize data in four tables by industrial groups. Classify by establishments as in Tables V-A-1, 2, 3 and 4.

Type of	- Carrier	n- rees		gree Skill				of Tr in M			Trai	ning	50
Establishment*	M	F	Red H	M	L	Under 12	12 to 24	24 to 36	36 to 48	Over 48	No. in Train- ing	1	op.
Retail and Wholesale													
Food General merchandise Apparel Automotive Filling stations Furniture and household goods Lumber, building and hardware Eating and drinking Drugs Others													

^{*}This list will depend on establishments included in the survey.

H--high, M--medium, and L--low.

Source: Work Sheet E.

Table V-E. Pay Roll Jobs

(Mfg., trade, service, other)

(Bldg. ind., food, personal, banks and investments)

M--Manufacturing

M-1. Building industries

M-2. Chemical and allied industries

M-3. Clothing industries

M-4. Bakeries
And so on

S--Service

S-1. Personal services

S-2. Business services
And so on

T -- Trade, Retail and Wholesale

T-1. Food

T-2. General merchandise

T-3. Apparel T-4. Automotive

And so on

O--Other Industries

0-1. Banks and investments

0-2. Real estate and insurance And so on

NOTE: Prepare a table of distribution of workers by pay roll jobs for each type of establishment. These tables should be presented in the Appendix.

Desc D-11 T-1	Employ		De	gree Skil			ngth eriod	of I	rair Mont	ning hs	Trair	ning	
Pay Roll Job	M	F	H H	M	ed_ L	Under 12	12 to 24	24 to 36	76	Over	No. in Train-	Coop	
							24	20	40		ing	Yes	No
						- 1		1					

H--high, M--medium, and L--low.

Source: Work Sheet F.

EMPLOYERS' OCCUPATIONAL SURVEY

Presenting the Data

In presenting the data from the employers' occupational survey it is suggested that the tables be organized so that all data relating to the same industrial group will be presented simultaneously; that is to say, all tables referring to manufacturing should be presented and treated as one group, followed by tables relating to trade, then service and finally the group which includes all other industries.

Because of the large number of tables which are necessary in presenting the findings of the employers' survey it is suggested that all tables relative to the occupational distribution of gainful workers by pay roll jobs (Tables V-E: M-1-2, etc.) be presented in the Appendix. The following outline for the presentation of material in this chapter should be considered tentative only, and should be varied to bring out the findings which are considered most important in each individual survey.

Plan for Presenting the Data

Purpose of the Survey

Scope of the Survey

Plan Used in Conducting the Survey

Survey Returns

Survey Findings

Training Program

Establishments which Have an Organized Training Program (Table V)

Training Conducted According to Written Plan (Table V)
Type of Training Program (Table V)
Who Instructs Trainees (Table V)

Pay Roll Jobs Included in Organized Training Programs

School Cooperation in Vocational Training
Employers' Attitude Concerning School Cooperation (Table V)
Pay Roll Jobs which Should Be Included in a Training Program
Remarks of Employers Concerning Vocational Training

Occupational Findings

Manufacturing Industries

Census Distribution of Gainful Workers by Sex and Types of Establishments (Table V-A-1)

Employers' Survey Findings

Distribution of Gainful Workers by Types of Industries, Age and Sex (Table V-B-1) Labor Turnover and Beginning Jobs Filled Last Twelve Months by Types of Establishments and Sex (Table V-B-1)

Distribution of Gainful Workers by Levels of Employment, Age and Sex (Table V-C-1)

Labor Turnover and Beginning Jobs Filled Last Twelve
Months by Levels of Employment and Sex
(Table V-C-1)

Distribution of Workers by Pay Roll Jobs, Sex and Types of Establishments (Table V-D-1)

Training and Degree of Skill Required by Types of Establishments and Sex (Table V-D-1)

Number of Workers in Training Program by Types of Establishments and Sex (Table V-D-1)

Attitude of Employers Concerning School Cooperation in Training Program (Table V-D-1)

To Be Placed in Appendix

Distribution of Workers by Pay Roll Jobs (Tables V-E: M-1, 2, 3, etc.)

Trade Industries

Census of Business

Retail Distribution--Number of Establishments, Sales, Personnel and Pay Roll (Table V-A-2)

Wholesale Distribution--Number of Establishments, Net Sales, Personnel and Pay Roll (Table V-A-3)

Employers' Survey Findings

Distribution of Gainful Workers by Types of Establishments, Age and Sex (Table V-B-2)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Types of Establishments and Sex (Table V-B-2)

Distribution of Gainful Workers by Levels of Employment, Age and Sex (Table V-C-2)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Levels of Employment and Sex (Table V-C-2)

Distribution of Workers by Pay Roll Jobs, Sex and Types of Establishments (Table V-D-2)

Training and Degree of Skill Required by Types of Establishments and Sex (Table V-D-2)

Number of Workers in Training Program by Types of Establishments and Sex (Table V-D-2)

Attitude of Employers Concerning School Cooperation in Training Program (Table V-D-2)

To Be Placed in Appendix

Distribution of Workers by Pay Roll Jobs (Tables V-E: T-1, 2, 3, etc.)

Service Industries

Census of Business

Service Establishments -- Number of Establishments, Receipts, Personnel and Pay Roll (Table V-A-4) Employers' Survey Findings

Distribution of Gainful Workers by Types of Establishments, Age and Sex (Table V-B-3)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Types of Establishments and Sex (Table V-B-3)

Distribution of Gainful Workers by Levels of Employment, Age and Sex (Table V-U-3)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Levels of Employment and Sex (Table V-C-3)

Distribution of Workers by Pay Roll Jobs, Sex and Types of Establishments (Table V-D-3)

Training and Degree of Skill Required by Types of Establishments and Sex (Table V-D-3)

Number of Workers in Training Program by Types of Establishments and Sex (Table V-D-3)

Attitude of Employers Concerning School Cooperation in Training Program (Table V-D-3)

To Be Presented in Appendix

Distribution of Workers by Pay Roll Jobs (Tables V-E: S-1, 2, 3, etc.)

Other Industries

Census Distribution of Gainful Workers by Sex and Types of Industries (Table V-A-5)

Employers' Survey Findings

Distribution of Gainful Workers by Types of Industries, Age and Sex (Table V-B-4)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Types of Establishments and Sex (Table V-B-4)

Distribution of Gainful Workers by Levels of Employment, Age and Sex (Table V-C-4)

Labor Turnover and Beginning Jobs Filled Last Twelve Months by Levels of Employment and Sex (Table V-C-4)

Distribution of Workers by Pay Roll Jobs, Sex and Types of Establishments (Table V-D-4)

Training and Degree of Skill Required by Types of Establishments and Sex (Table V-D-4)

Number of Workers in Training Program by Types of Establishments and Sex (Table V-D-4)

Attitude of Employers Concerning School Cooperation in Training Program (Table V-D-4)

To Be Presented in Appendix

Distribution of Workers by Pay Roll Jobs (Tables V-E: 0-1, 2, 3, etc.)

Summary

CHAPTER V.

SCHOOL INVENTORY

Collecting the Data

In the survey of a community to determine the needs for vocational education it is necessary to have a rather clear picture of the educational facilities in the community, and the extent to which these facilities are contributing to the training of workers who are needed in the community. In collecting data for this study attention should also be given to the trends in school enrollment, holding power of the school, the age-grade distribution of pupils, curriculum trends, the practical subject offerings which are indicative of occupational areas, and the present program of vocational education in the schools.

Forms 16-27, inclusive, have been prepared for collecting data which are needed to give the essential information for this study. Data requested in Forms 16 to 20, 26 and 27 are self-explanatory. In entering data on Forms 21 to 25 attention is called to the fact that only subjects for which credit toward graduation is offered should be included. Class hours of enrollment should be reported rather than class enrollment or clock hours. This will make possible an accurate count of enrollment in classes which meet for a period of more or less than one class hour each day.

For example, 1000 pupils are enrolled in classes in a high school which has a six-period day. The maximum total enrollment in such a school would be 6000 class hours of enrollment. If 500 pupils were enrolled in English classes which met for one class hour each day, the number 500 should be written in the proper year column after the word "English". Also, if 300 pupils were enrolled in Civics which met for a class period every other day, 150 rather than 300 should be entered in the form. But if 300 pupils were enrolled in shop classes which met for a double period each day, the number 600 should be entered in the proper space on the form.

Form 16

Educational Facilities.

Kind of Schools	Number of Schools	Grades Included	Approx. Enrollmen
PUBLIC SCHOOLS			
Elementary schools			
Junior high schools	-3-1700		14 0-150
Senior high schools		1 5 3 3 4	A STATE OF THE STA
Junior college		100000	
Other schools or classes			
Vocational school			
All-day			
Part-time			
Evening			
Special schools			1
			1
RIVATE AND CHURCH SCHOOLS			1
		F 1	
USINESS SCHOOLS AND COLLEGES		1	
The same of the sa	and the late of the party	I want to	
		1	
CARR CAMPORE	10 000 or novi	Photosta	OIL.
RADE SCHOOLS			
THER SCHOOLS AND COLLEGES			

Note: Schools may be located in city directory or telephone directory.

Source: Secure data from schools.

Form 17

Population and School Attendance.

		1930			1910-1930		
Age Groups	Total Pop.	School Attend.	Per Cent*	Total Pop.	School Attend.	Per Cent*	Per Cent Gain*
Total							
7-13 years							
14-15 years							
16-17 years							
18-20 years							

Source: United States Census, Population.

1930: Vol. III., Part 1, Cities of 10,000 population or more, Table 15, pp. 781-782.

1920: Vol. III., Cities of 10,000 or more population, Table 10, pp. 329-330.

Form 18

School Enrollment, Grades 1 to 12 Inclusive, School Years 19___ to 19___. School Years Grades 1/ Total First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Graduates Eighth Twelfth

1/ Current year.

Note: Span of 12 years including current school year.

Date_____School____

Source: Records in the office of the superintendent of schools.

Form 19

Tuition Pupils.

Junior High	Senior High
the same of the sa	Louis III gii

Source: Data available in the superindendent's office.

Form 20

Age-Grade Distribution of Pupils, Grades 1 to 12 Inclusive (Current School Year).

	1						113. 7	Ag	e in 1	Years						May my Com		
Grades	Under 5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	0ve
Total																		
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth																		

	Source:	Records	in th	e office	of	the	superintendent of) ±	of schools.
Date					-	100	School		ii

Form 21

Trends in Subject Enrollment.

Department		Enroll	lment		19 -		Department		Enrol:	lment		19 -
and Subject	1 1 Don Don Don Cont		and Subject	19_1/	Per Cent*	19	Per Cent*	Per Cen Change				
Total Hours of Enrollment		100.0		100.0	EEB	11	Canial Caires					
ACADEMIC AND MISCEL- LANEOUS 1. Languages a. English b. French c. German d. Latin e. Spanish 2. Science a. Chemistry b. Physics c. Biology d. Botany e. Zoology f. 3. Mathematics a. Arithmetic b. Algebra c. Geometry d. Trigonometry e. f.						5. PRACT 1. 2. 3. 4.	Social Science a. History b. Civics c. Economics d. Sociology e. f. Miscellaneous a. b. c. d. CICAL SUBJECTS Agriculture Commercial Home Economics Industrial Arts CIONAL SUBJECTS Agriculture Distributive Homemaking Trade & Industrial					

^{1/} Current year. NOTE: Supply data for present school year and include a span of 10 years. Include only subjects for which credit toward graduation is given.

Source: Office of high school principal.

Form 22

Enrollment in Commercial Courses in the Senior High Schools.

19_	1/	Per Cent*	19_2/	Per Cent*	Per Cen Change
-					
1					
				-	
				13-1-01	

7/	Gurre	ent	schoot hear	r .			
2/	Span	of	ten years.				
3/	Same	as	commercial	enrollment	in	Form	21.

NOTE: Record enrollment in regular credit subjects only.

Source: High school principal's office.

School	City
--------	------

Form 23

Enrollment in Home Economics Subjects

			Enrol:	lment			19 -
Home Economics Subjects	19	1/	Per Cent*	19_	2/	Per Cent*	Per Cer Change
Total Hours of Enrollment 3/	-						
Dietetics							
Food							
Home Management Household Sewing							
Other Subjects							

1/	Current	school year.
2/	Span of	ten years.

Note: Record enrollment in regular credit subjects only.

Source: High school principal's office.

School	City	

^{3/} Same as home economics enrollment in Form 21.

Form 24

Enrollment in Industrial Arts Classes in the Senior High Schools.

Industrial Arts Classes	-	Enrollment					19 -	
	19_	1/	Per Cent*	19	2/	Per Cent*	Per Cen Change	
Total Hours of Enrollment 3/	-							
WOODWORK								
Cabinetmaking								
Carpentry								
Patternmaking								
METAL WORK								
Cold metal								
Forge								
Foundry								
Machine shop								
Acetylene welding						100		
Arc welding Sheet Metal								
MECHANICAL DRAFTING						11		
Machine drafting								
Architectural drafting								
PRINTING								
ELECTRICITY								
OMITTO ADTECTE								
OTHER COURSES								
	1							

1/ Current school year. 2/ Span of ten years. 3/ Same as industrial arts enrollment in Form 21.	
Note: Record enrollment in regular credit subjects only	
Source: High school principal's office.	

School

City____

Form 25

Enrollment in Day Vocational Courses in the Senior High School.

77	-	Enrollment						
Vocational Courses	19_	1/	Per Cent*	19	2/	Per Cent*	Per Cent Change*	
Total Hours of Enrollment 3/	-							
Agriculture								
Distributive Retail Selling Office Practice								
Homemaking								
Trade and Industrial								

1/	Current	school	year.
-1	200	244	

NOTE: Report on regularly organized day vocational courses in which school pupils are enrolled.

Source: Office of the high school principal or vocational director.

School	Ci ty

^{2/} Span of ten years.

^{3/} Same as vocational enrollment in Form 21.

Form 26

Enrollment	in	Vocational	Extension	Courses	for	Out-of-School	Youth
			and Adul	Lts.			

Vocational		Enrol:	Lment	
Extension Courses	19	1/	19	2
Agriculture				
This was been a few and the same and the sam				
Distributive				
Homemaking				
Trade and Industrial				

NOTE: Do not include any day school vocational classes.

Source: Office of the superintendent of schools or vocational director.

School	City
OCHOOL	01 0,4

^{1/} Current school year. 2/ Span of ten years.

Form 27

Program of Practical Studies in Secondary Schools.

Grade	Commercial	Home Economics	Industrial Arts
		JUNIOR HIGH SCHOOL	
7B	THE PERSON NAMED IN		
7A	Obj. to proper the Mar.		
8B			
8A			
9B			
9A	Charles Transport to the first		
10B		SENIOR HIGH SCHOOL	
10A			
11B	Story St. Treberraling Street		
11A			
12B			
12A			

Source:	Course of	study, high	school	principal's	office.
School			XO FEEE	Ci ty	

Compiling the Data

Data collected in Forms 16, 18, 19, 20, 26 and 27 are in the form in which they are to be presented and, therefore, need not be compiled.

In Form 17 determine the proportion of the population in each group who are attending school by dividing the number attending school by the total population in that age group.

Data collected on Forms 21, 22, 23, 24 and 25 will be compiled in the following manner:

- Step 1. Check the figures in each form to determine accuracy.
- Step 2. Use the total hours of enrollment in all school subjects as the base figure in determining percentage distribution in all forms (21 to 25, inclusive).
- Step 3. Divide the enrollment figures for each subject and subject group by the total hours of enrollment to determine the percentage distribution of enrollment in all forms and columns.
- Step 4. Check totals for specific subjects against subject groups and subject groups against 100 per cent.
- Step 5. Determine the change in subject enrollment by finding the difference between figures in column 2 and column 4. The change is positive if figures in column 2 exceed figures in column 4, and negative if the opposite is true.

Data from Form 18 are also used to show the trends in school enrollment over a period of twelve years preceding the current school year. Transfer data from the first and last columns of Form 18 to the number columns in the following form, which for identification purposes will be called Table VI-C.

When the figures have been entered in Table VI-C, determine the percentage distribution of enrollment for each grade and year. Report the increase or decrease in enrollment in numbers in column 5, and in per cent in column 6. The percentage in column 6 will be

Table VI-C. Trends in School Enrollment.

Grade	Public 19	School 1/	19 -19 Change			
	Number	Per	Number	Per Cent	Number	Per Cent
Total		100.00		100.00		
Elementary	Test at	ME TH				
First Second Third Fourth Fifth Sixth						
Junior High						
Seventh Eighth Ninth						
Senior High						
Tenth Eleventh Twelfth						

1/ Current year.

Source: Form 18.

secured by finding the difference between figures in columns 2 and 4, and will be positive if the number in the column representing the enrollment in the current year exceeds that of twelve years ago, and negative if the opposite is true.

Tabulating the Data

Since all data collected in this study are to be tabulated on the forms in which they were collected, attention need be given only to the numbering of tables.

- Table VI-A. Educational Facilities in the Community (Form 16)
- Table VI-B. Population and School Attendance (Form 17)
- Table VI-C. Trends in School Enrollment (Table VI-C)
- Table VI-D. Holding Power of the School (Form 18)
- Table VI-E. Age-Grade Distribution of Pupils (Form 20)
- Table VI-F. Trends in School Subject Enrollment (Form 21)
- Table VI-G. Trends in Enrollment in Commercial Subjects (Form 22)
- Table VI-H. Trends in Enrollment in Home Economics Subjects (Form 23)
- Table VI-I. Trends in Enrollment in Industrial Arts Subjects (Form 24)
- Table VI-J. Trends in Enrollment in Day Vocational Classes (Form 25)
- Table VI-K. Enrollment in Vocational Extension Classes (Form 26)
- Table VI-L. Program of Practical Studies in the Secondary Schools (Form 27)

Presenting the Data

Educational Facilities in the Community (Table VI-A)

Public Schools

Elementary Schools Secondary Schools

Special Schools and Classes

Vocational Classes

Day Classes

Extension Classes

Private and Parochial Schools
Business Schools and Colleges
Trade Schools

Other Schools and Colleges

School Population and Attendance (Table VI-B)

Enrollment Trends (Table VI-C)

Holding Power of the Schools (Table VI-D)

Age-Grade Distribution of Pupils (Table VI-E)

Curriculum Trends (Table VI-F, G, H, I, J, K and L)

Academic Subjects

Practical Subjects

Agriculture

Commerce

Home Economics

Industrial Arts

Vocational Subjects

Day School

Agriculture Distributive Homemaking

Trade and Industrial

Extension Classes

Agriculture

Distributive

Homemaking

Trade and Industrial

Provisions for Practical Education in the School Program

Summary

Implications for Vocational Education

CHAPTER VI.

YOUTH SURVEYS

Collecting the Data

In any survey of a community to determine the needs for vocational education it is essential that a study be made of the status of youth in that community. Two groups of youth are given attention in this study—the youth who are still enrolled in the secondary school, and the youth included in the age group 16 to 24 years inclusive, who have discontinued their education. Since the type of information which is needed concerning these two groups of youth is somewhat different, two survey schedules have been developed and are presented in this study. These survey schedules have been used repeatedly and have proven very successful in collecting the information which is needed.

Administration of the Schedule

Experience with past surveys indicates that a satisfactory method of administering the youth surveys, both in-school and out-of-school, is through the homerooms of the secondary schools. The procedure used in collecting these data is as follows:

In-School Youth Survey

- Step 1. Call a meeting of all homeroom teachers in the secondary schools.
- Step 2. Explain the purpose of the survey and secure the cooperation of all teachers.
 - Step 3. Present in detail the plan for conducting the survey.
- Step 4. Place a blank in the hands of each teacher; discuss the questions, point by point, and explain how questions are to be answered.
 - Step 5. Set a definite date for administering the survey.
- Step 6. Secure a list showing the enrollment in each homeroom in all secondary schools.
- Step 7. Count out the blanks required by each homeroom, number bundles according to the number of the homerooms, and see that the blanks are delivered in ample time for use.
 - Step 8. Collect the blanks and hold for tabulation.
 - NOTE: To avoid confusion the in-school youth survey should be completed before the out-of-school survey is administered.

YOUTH SURVEY (IN-SCHOOL)

Form 28

On the following pages two types of questions are found. One type is answered by inserting the information requested in the space provided. The other is answered by encircling the ONE code number to the side of the item which best represents the individual's response to a question asked, e.g., in Code No. 3, (1) Male. In no case should more than one item be checked.

Use preferably a soft pencil. Draw the circle neatly around the ONE code number representing the correct response.

Your cooperation in securing accurate information will be greatly appreciated.

All information noted on this schedule will be treated as confidential and used for statistical purposes only. Name_____(Last) (First) (Middle) Community______(City, town or village) (County) Date School TO BE FILLED OUT BY ALL JUNIOR AND SENIOR HIGH SCHOOL PUPILS. 1- 2. PRESENT AGE IN YEARS 3. SEX. 6. SCHOOL GRADE IN WHICH YOU ARE AT PRESENT ENROLLED? 1 Male 2 Female 1 Seventh 2 Eighth 4. RACE OR COLOR. 3 Ninth 4 Tenth 1 White 5 Eleventh 2 Negro 6 Twelfth 3 Other 7 Post graduate 9 Not ascertainable 7. DO YOU INTEND TO FINISH HIGH SCHOOL? 5. PLACE OF RESIDENCE l Yes 1 Open country farm (three acres 2 No or more) 2 Open country nonfarm (less than 3 Undecided three acres)

3 Village, town or city

8.	8. DO YOU INTEND TO GO TO COLLEGE?		17-19.	WHAT KIND OF WORK DO YOU DO DURING OUT-OF-SCHOOL HOURS?
	1 Yes			1 Specify
	2 No 3 Undecided			2 No work
	WILL ALL ONTO CALLOOT OFFI		20.	IS THIS WORK PRIMARILY?
9-16.	9-16. WHICH ONE SCHOOL SUBJECT YOU HAVE TAKEN DO YOU LIKE BEST? LIKE LEAST?			2 44 1
				1 At home with pay 2 At home without pay
				3 Away from home with pay
		Like least		4 Away from home without pay
	Academic			5 Other
1	Languages	1		6 No work
2	Mathematics	2		
3	Science	3	21-23.	WHAT OCCUPATION WOULD YOU LIKE
4	Social Studies	-4		MOST TO FOLLOW?
	D 11-2021			(Give first choice only)
	Practical Subjects			
1	Agriculture	1		1 Specify
2	Commercial	2		2 No choice
5	Home Economics	5	0): 05	MELLIN TO THE COLUMN AND ONE OUT TO OTTO
4	Industrial Arts	4	24-26.	WHAT IS THE OCCUPATION OF YOUR FATHER?
	Vocational Subject	S		
1	Agriculture	1		1 Specify
2	Retail Selling and Office Practice	2		2 No occupation
3	Homemaking	3		IN WHAT BUSINESS OR INDUSTRY IS
4	Trade and Industria	11 4		THIS OCCUPATION?
98	No choice	98		Specify
OF	PORTUNITIES FOR ADVANC	ED VOCATIONAL	TRAININ	ABLISHED IN THE CITY OFFERING G FOR TRADES, INDUSTRIES, OSE TO ATTEND SUCH A SCHOOL?
	1 Yes	2 No_		3 Uncertain

(Note: A question might be asked at this point concerning the occupation for which vocational training is desired.)

Out-of-School Youth Survey

A method of reaching a fairly good cross section of out-of-school youth for the purpose of filling out the schedules is to administer the survey through the homerooms of the secondary schools. This method proves effective where the school assumes responsibility for the survey. By the use of this means the need for interviews and house-to-house canvassing is obviated. This method assumes a complete sampling of youth.

The plan follows:

- Step 1. Each child in the in-school youth survey will be asked to report the names of each older brother or sister 16 to 24 years old, regardless of whether they are single or married, employed or not employed, living at home or in another part of the community, except that no card will be filled out for a brother or sister who is enrolled in the schools of the community.
- Step 2. Each pupil who has suggested a name will be asked to carry a schedule to his out-of-school brother or sister. These schedules will be filled out at home and returned by the child.
- Step 3. Each child included in the in-school youth survey will be asked to suggest the names of friends in the community who are of ages 16 to 24 years, inclusive. These friends should be only those to whose homes these children are accustomed to go, and should exclude as far as practicable those in the older brother and sister group.
- Step 4. Request each child to carry a schedule to the friend whose name he supplied, ordinarily using the relative or older child where two children suggest the same name. The schedule, when filled out, will be returned by the child.
- Step 5. Determine the number of blanks needed by each homeroom, count out the blanks and deliver them to the proper homeroom.
 - Step 6. Collect the blanks from the various homerooms.
 - Step 7. Assemble alphabetically and remove duplicates.
 - Step 8. Collect the blanks and hold for tabulation.

NOTE: An attempt should be made to include as large a sampling of out-of-school youth as possible.

Form 29

On the following pages two types of questions are found. One type is answered by inserting the information requested in the space provided. The other type is answered by encircling the ONE code number to the side of the item which best represents the individual's response to a question asked, e.g., in Code No. 47, (1) Male. In no case should more than one item be checked.

Use preferably a soft pencil. Draw the circle neatly around the ONE code number representing the correct response.

Your cooperation in securing accurate information will be greatly appreciated.

All information noted on this schedule will be treated as confidential and used for statistical purposes only.

Name		CALLY .	
	(Last) (First)	(Middle)
Commun	i ty		
	(City, town or vil	lage)	(County)
TO B	E FILLED OUT ONLY BY YOUTH I	N THE AGE GROUP 16-24 Y	EARS, INCLUSIVE.
45-46.	PRESENT AGE IN YEARS		
21	SEX.	51-52. WHAT IS THE GRADE OR CO	HIGHEST SCHOOL LLEGE YEAR YOU MPLETED?
	1 Male 2 Female	School Grade	College Year
48.	COLOR OR RACE.	l First	
	1 White 2 Negro 3 Other 9 Not ascertainable	2 Second 3 Third 4 Fourth 5 Fifth	14 First 15 Second 16 Third
49.	MARITAL STATUS.	6 Sixth 7 Seventh 8 Eighth	17 Fourth 18 Fifth 19 Sixth or
	1 Married 2 Single 3 Separated, divorced, etc.	9 Ninth 10 Tenth	more 20 No school-
50.	PLACE OF RUSIDENCE.	12 Twelfth 13 Postgraduate	ing
	1 Open country farm (three acres or more) 2 Open country nonfarm (les than three acres)	53-54. HOW OLD WER	
	3 Village, city or town	55. WHY DID YOU	QUIT SCHOOL?

56-57.	HOW MANY YEARS HAVE YOU BEEN OUT OF SCHOOL?	69-73. FOR WHAT OCCUPATION ARE YOU
Ed	WHAT ORGANIZED VOCATIONAL	PREPARED BY EXPERIENCE?
90.	TRAINING HAVE YOU HAD SINCE	
	LEAVING SCHOOL OR COLLEGE?	1 Specify
		2 No occupation
	1 Correspondence or extension courses	Length of experiencemonths
	2 Evening school	74-76. WHAT OCCUPATION WOULD YOU LIKE
	3 Business school	MOST TO FOLLOW? (First choice
	4 Part-time classes with apprenticeship	only).
	5 Specialized school other	1 Specify
	than the above	2 No choice
	6 No organized training	Z NO CHOICE
	THE PERSON NAMED IN COLUMN	77-78. HOW MANY MONTHS HAVE YOU BEEN
59.	ARE YOU EMPLOYED?	UNEMPLOYED? (Answer under
		either "a" or "b").
	1 Full time	0101101 0 01 0 / 1
	2 Part time	a. Since last regular job of one month
	3 Occasionally	or more duration:
	4 Not at all	
60.	IS YOUR EMPLOYMENT PRIMARILY?	l Less than five months 2 Five to eight months
	1 At home with pay	3 Nine to twelve months
	2 At home without pay	4 One to two years
	3 Away from home with pay	5 More than two years
	4 Away from home without pay	
	5 Other	b. Since leaving school or college (if
	6 Not employed	you have never been regularly
	o woo emproyed	employed):
61-63	WHAT IS YOUR PRESENT OUCUPATION?	
01-0).	WILLI TO TOOK TIMOLINE OCCUPATION.	6 Less than five months
	1 Specify	7 Five to eight months
	2 No occupation	8 Nine to twelve months
		9 One to two years
	IN WHAT BUSINESS OR INDUSTRY IS THIS OCCUPATION?	10 More than two years
		98 Question does not apply
		99 Not ascertainable
611 60	FOR WHAT OCCUPATION ARE YOU	
04-00.	SPECIFICALLY PREPARED BY	79-80. HOW MANY JOBS OR POSITIONS
	VOCATIONAL TRAINING? (Do	HAVE YOU HELD SINCE LEAVING
	not include nonvocational	SCHOOL OR COLLEGE? (Count
	agriculture, industrial	only those of more than one
	arts, home economics, etc.)	month's duration).
	arus, nome coonomico, coo,	
	1 Specify	1 Specify
	2 No occupation	2 No regular employment
	- u o i i montha	
	Length of training months	

YOUTH SURVEYS

Compiling the Data

When all youth survey schedules have been returned to the survey director, the next step is to transfer the data from each of the survey schedules to the work sheets prepared for that purpose. Two work sheets have been prepared—work sheet G for compiling the data from in-school schedules and work sheet H for out-of-school schedules.

It is evident that the two surveys should be kept segregated at all times, and should be dealt with separately. Although all out-of-school survey schedules should be compiled as one group, in-school youth survey schedules may be classified by schools or grades if there is a specific reason for doing so. For the general purposes of this survey all data from the secondary schools should be treated as one group.

The procedure to be followed in compiling the data for both surveys is outlined in the following steps:

- Step 1. Edit each survey blank to check on completeness and consistency of information.
- Step 2. Keep the in-school and the out-of-school blanks segregated at all times.
- Step 3. Segregate the survey schedules in each survey as to sex.

 (If sex is not indicated and cannot be determined by the first name of the case, eliminate the schedule).
- Step 4. Arrange the schedules in ascending order by age in each sex group.
- Step 5. Number the schedules serially by sex, starting with the youngest age group.
- Step 6. Code the schedules. Place a code number beside each answer which was not precoded when the schedule was printed. No matter how carefully the schedules have been prepared, there are always a few questions which cannot be precoded.

Code the schedules in accordance with the youth survey code, in-school Code B, out-of-school Code C, and the occupational code, Code D.

The occupational code is used to identify specific occupations and occupational divisions in the in-school youth survey, questions 21-23 and 24-26; in the out-of-school survey, questions 61-63, 64-66, 69-71 and 74-75. Although specific occupations

tions may be identified and carried in this study, to avoid a too voluminous report it is suggested that occupations be classified by occupational divisions, and that the specific occupations included in the code be used for identification purposes only.

Step 7. Prepare a sufficient supply of in-school work sheet G and out-of-school work sheet H for use in compiling data from the schedules. The number at the head of columns in the work sheets refers to the questions in the survey schedules. Since this work is arranged for machine as well as hand tabulation, the numbers at the head of each column indicate the number of columns on the sorting machine which will be needed to handle the maximum figure in the column.

For example, the age of youth, which is coded in the actual number of years, requires two columns on the sorting machine and, consequently, two columns are allowed on the blank. Also, since occupations are coded in hundreds, three spaces are allowed on the blank for tabulating occupations. Another factor of importance as far as machine tabulation is concerned is that the two surveys are numbered serially so that the data from both surveys may be recorded on an eighty-space machine card, thus reducing the cost of machine tabulation.

Step 8. Compile the data on the work sheets. Select the group to be compiled and start with questionnaire No. 1 in that group. If the male group in the in-school survey is selected, place the number of the schedule in the column headed "schedule number", at the left side of work sheet G. In column 1-2, place the actual age of the individual. If the actual age is not recorded and it cannot be secured from other data in the schedule, place the number 99, not ascertainable, in the column. The remaining data from this schedule should be transferred to the work sheet in like manner.

Next, proceed with schedule No. 2 in this group, and so on until all data from this group of schedules have been transferred to work sheet G. Follow the same procedure in transferring data from the schedules filled out by in-school females, and record the data on a second series of work sheets.

The data for the out-of-school schedules should be compiled on work sheet H in like manner.

Sex

Ci ty

	CO.	
	chedule Number	
1-2	Age	
3	Sex	
 14	Race or Cold	or
5	Residence	
 6	School Grade	9
 7	H. S. Intention	
 8	College Intent	-
9	Academic	1
 10	Practical	W .
	11001001	Sub
11-	Vocational	Subjects
13	Academic	
14	Practical	Ti ko
	110001001	ked
15-	Vocational	t
17-19	Out of School	Kind of
20	Type	1
21-23	First Choice	Occupation
24-26	Father's Occupation	ation
27	Attend Voc. Sc	hool

	Schedule	
45-	Age	
47	Sex	
48	Race or Color	
49	Marital Status	5
50	Community	-
51- 52	Grade or College Year Completed	
53- 54	Age at Time of Leaving School	
55	Reasons Lv. Sch	1.
56- 57	Years Out of School	
58	Voc. Training	
59	Employed?	
60	Type Employment	,
61- 63	Present Occupation	
64- 66	Occupation Prepared for by Training	The same of the sa
67- 68	Number of Months	
69- 71	Occupation Prepared for by Experience	Competio
72- 73	Number of Months	
74- 76	Occupational Choice	
77- 78	Months Unemployed	
79- 80	Number of Jobs Held	

Work Sheet H

Ci ty

Sex

YOUTH SURVEY CODE

In-School

Code B

Code Line		Code No.	Code Line	Code No.
1- 2.	PRESENT AGE IN YEARS Not ascertainable	Years 99		
3.	Male	1 2	9-12. SCHOOL SUBJECT LIKED BEST 9. Academic Languages Mathematics Science Social Science 10. Practical Subjects	
4.	RACE OR COLOR White	1 2 3 9	Agriculture Commercial Home Economics Industrial Arts 11-12. Vocational Subjects Agriculture	1 2 3 4
5.	PLACE OF RESIDENCE Country farm Country nonfarm Urban Not ascertainable	1 2 3 9	Retail Selling and Office Practice Homemaking Trade and Industrial No choice Not ascertainable	3
6.	School GRADE Seventh Eighth Ninth Tenth Tenth Twelfth Postgraduate Not ascertainable	1 2 3 4 5 6 7 9	13-16. SCHOOL SUBJECT LIKED LEAST 13. Academic Languages Mathematics Science Social Science 14. Practical Subjects Agriculture Commercial Home Economics	3 4 1 2
7.	FINISH HIGH SCHOOL Yes No Undecided Not ascertainable	1 2 3 9	Industrial Arts 15-16. Vocational Subjects Agriculture Retail Selling and Office Practice Homemaking	1 2 3
8.	ATTEND COLLEGE Yes	1 2 3 9	Trade and Industrial No choice Not ascertainable	98 99

YOUTH SURVEY CODE (Continued)

In-School

Code B

Code Line		Code No.	Code Line	Code No.
17-19.	OUT-OF-SCHOOL JOB Occupation (see occupational code numbers). Help at home	94 95 96 98 99	27. ATTEND VOCATIONAL SCHOOL Yes No Undecided Not ascertainable	2
20.	At home with pay At home without pay Away from home with pay Away from home without pay Other No work Not ascertainable	1 2 3 4 5 98 99	28-31. QUESTIONNAIRE NUMBER Number questionnaires serially as instructed. 32. SCHOOL NUMBER 33-37. DATE 33-34. Month 35-36. Day 37. Year	
21-23.	OCCUPATIONAL CHOICE Occupation (see occupational code numbers). No choice Not ascertainable	98 99	1938	0 1 2 3 4 5
24-26.	OCCUPATION OF FATHER Occupation (see occupational code numbers). Relief, W.P.A., etc No father No occupation Not ascertainable	96 97 98 99	1944	6789

YOUTH SURVEY CODE

Out-of-School

Code C

Code Line	Code	Code	Code
HI IIO	No.	Line	No.
33-37. DATE		50-52. SCHOOL GRADE OR COLLEGE	
33-34. Month		YEAR COMPLETED	
35-36. Day		THATE OOM INTER	
37. Year		School Grade	
1938	0	First	1
1939	1	Second	2
1940	2	Third	3
1941	3	Fourth	14
1942	4	Fifth	5
1943	5	Sixth	6
1944	6	Seventh	7
1945	7	Eighth	8
1946		Ninth	9
1947	9	Tenth	10
38-39. CITY NUMBER		Eleventh	11
Jo Jo. OLLI HOMBELLE		Twelfth	12
40-44. QUESTIONNAIRE NUMBER		Postgraduate	13
Number questionnaires		First	14
serially as per in-		Se cond	15
structions.		Third	16
		Fourth	17
45-46. PRESENT AGE	Years	Fifth	18
Not ascertainable	99	Sixth or more	19
47. SEX		No schooling	98
Male	1	Not ascertainable	99
Female	2		200 2 22
(Discard all blanks	-	53-54. AGE AT TIME OF QUITTING S	
where sex is not ascer-		Age	
tainable)		Not ascertainable	99
1		55. REASON FOR QUITTING SCHOOL)L
48. RACE OR COLOR		Reason (see occupations	
White	1	code)	
Negro	7	Not ascertainable	0
Other	2		
Not ascertainable	9	56-57. YEARS OUT OF SCHOOL	
49. MARITAL STATUS		Years	Years
Married	1	Not ascertainable	99
Single	_		
Separated, divorced,	Hontza	58. ORGANIZED VOCATIONAL TRAI	NING
etc	3	SINCE LEAVING SCHOOL	
Not ascertainable	9	correspondence or extension courses	
		Evening school	2

YOUTH SURVEY CODE (Continued)

Out-of-School

Code C

Code Line	Code No.	Code	Code No.
	and the state of	TITLE.	140.
Business school			
Apprenticeship Other specialized		69-73. OCCUPATIONAL EXPERIENCE 69-71. Occupation (see occupa-	
school No organized trai		tional code numbers)	
Not ascertainable		No occupational experi- ence	98
59. ARE YOU EMPLOYED		Not ascertainable	99
Full-time	1	72-73. Length of experience Not ascertainable	Months 99
Part-time		NOU ascertallecte	22
Occasionally	3	74-76. OCCUPATIONAL CHOICE	
Not at all		Occupation (see occupa-	
Not ascertainable	• • • • • 9	tional code numbers)	2.4
60. IS EMPLOYMENT PRIMA	CITY	No choice	98
At home with pay.		Not ascertainable	99
At home without p		77-78. PERIOD OF UNEMPLOYMENT	
Away from home wi		a. Since Last Regular Job	
Away from home wi		Less than 5 months	1
pay	1	5-8 months	2
Other		9-12 months	3
Not employed		One to two years	74
Not ascertainable	••••• 9	More than two years	5
61 67 DOWNER ON THE ART ON		b. Since Leaving School (if	
61-63. PRESENT OUCUPATION		never regularly employed)	-
Occupation (see oc	cuna-	Less than 5 months	7
tional code numb	7.0	5-8 months	8
Help at home	A	One to two years	9
Odd jobs		More than two years	10
N.Y.A., C.C.C., W.	21	Question does not apply	98
No occupation	150-24	Not ascertainable	99
Not ascertainable.	99		
64-68. VOCATIONAL TRAINING		79-80. NUMBER OF JOBS OR POSITION HELD	ns
64-66. Occupation (see oc	cupa-	Number of jobs	Number
tional code numb		No regular employment.	98
No occupation	272	Not ascertainable	99
Not ascertainable.			22
67-68. Length of training			
Not ascertainable.	The state of the s		

YOUTH SURVEY

Occupational Code

Code D

Question No. 55--WHY DID YOU QUIT SCHOOL?

	O. Not ascertainable		5 Mondad at home
	1. Graduated		5. Needed at home
	2. Financial		6. Trouble in school
			7. Disliked school
	3. To go to work 4. Illness		8. To get married
	T. IIIIess		9. Other
100.	AGRICULTURE AND ALLIED OCCUPATIONS	307.	Buildons and building contract
101.	Farmers (owners and tenants)	201.	Builders and building contrac-
102.	The same and the s	700	tors
103.	AND THE PARTY OF T	308.	Cabinetmakers
104.		309.	Carpenters
	A STATE OF THE PARTY OF THE PAR	310.	Compositors, linotypers and
105.	Foresters, forest rangers and	range of the	typesetters
	timber cruisers	311.	Coopers
106.	Owners and managers of log and	312.	Dressmakers and seamstresses
	timber camps		(not in factory)
107.	Lumbermen, raftsmen and wood-	313.	Dyers
	choppers	314.	Electricians
108.	Gardners and florists	315.	Electrotypers, stereotypers
			and lithographers
200.	EXTRACTION OF MINERALS	316.	Engineers (stationary),
201.	Operators, managers and offi-	2-0.	cranemen, hoistmen, etc.
	cials	717	
202.	Foremen, overseers and inspec-	317.	Engravers
CUC.		318.	Filers, grinders, buffers
207	tors		and polishers (metal)
203.		319.	Firemen (except locomotive and
204.	Other operatives in extraction		fire department)
	of minerals	320.	Foremen and overseers (manu-
			facturing)
300.	MANUFACTURING AND MECHANICAL	321.	Furnacemen, smelter men,
	PURSUITS		heaters, puddlers, etc.
301.	Apprentices building and hand	322.	Glass blowers
,	trades	323.	Goldsmiths and silversmiths
302.	Apprentices (except to building	324.	Jewelers and lapidaries
200.		221.	(factory)
707	and hand trades)	705	
303.	Bakers	325.	Jewelers and watchmakers (not
304.	Blacksmiths, forgemen and ham-	700	in factory)
	mermen	326.	Machinists, millwrights and
305.	Boilermakers		toolmakers
306.	Brick and stone masons and tile	327.	Managers and officials (manu-
	layers		facturing)
		328.	Millers (grain, flour, feed,
			etc.)
		329.	Mechanics

Code D

330.	Milliners and millinery dealers		
331.	Molders, founders and casters	406.	Road and street transportation
	(metal)	400.	
332.	Oilers of machinery	407.	Drawmen teemstens and con
333.	Painters, glaziers and var-	707.	
	nishers (building)	408.	riage drivers
334.	Painters, glaziers and var-	409.	Control of the Contro
	nishers (factory)	409.	Garage owners, managers and officials
335.	Paperhangers	410.	Control of the Contro
336.	Pattern and model makers	411.	Hostlers and stable hands
337.	Piano and organ tuners	412.	
338.	Plasterers and cement finishers	11.	cab companies
339.	Plumbers and gas and steam	413.	Laborers, road and street
	fitters	414.	Others
340.	Pressmen and plate printers	415.	
	(printing)		transfer and cab companies
341.	Rollers and roll hands (metal)		oransici and cab companies
342.	Roofers and slaters	F	Railroad transportation
343.	Sawyers	416.	Apprenticessteam railroad
344.	Shoemakers and cobblers (not	417.	
	in factory)	418.	307 No. 100
345.	Skilled occupations (not else-		hostlers
	where classified)	419.	Brakemen, steam railroad
346.	Stonecutters	420.	Conductors, steam railroad
347.	Structural ironworkers (building)	421.	Conductors, street railroad
348.	Tailors and tailoresses	422.	THE RESIDENCE OF THE PROPERTY
349.	Tinsmiths and coppersmiths		railroad
350.	Upholsterers	423.	Foremen and overseers, street
351.	Operatives building industry		railroad
352.	Operatives	424.	Inspectors, steam railroad
353.	Laborers building, general and	425.	Inspectors, street railroad
	not specified laborers	426.	
354.	Laborers manufacturing and		(includes construction
3.5	mechanical industries		laborers)
355.	Air conditioning	427.	Laborers, street railroad
356.	Refrigeration		(includes construction
The state of the s	Radiotician		laborers)
	Welder	428.	Locomotive engineers
		429.	Locomotive firemen
400. T	RANSPORTATION AND COMMUNICATION	430.	Motormen, steam railroad
		431.	Motormen, street railroad
Wa	ter Transportation	432.	Officials and superintendents,
401.	Boatmen, canal men and lock-		steam railroad
	keepers	433.	Officials and superintendents,
402.	Captains, masters, mates and		street railroad
	pilots	434.	Others, steam railroad
403.	Longshoremen and stevedores	435.	Others, street railroad
404.	Laborers	436.	Switchmen and flagmen, steam
405.	Sailors and deck hands	7667	railroad
Marie Marie			

Code D

437.	Switchmen and flagmen, street railroad	500.	TRADE
438.	Ticket and station agents	501.	
439.	Yardmen, steam railroad	500	retail trade
.)) .	ration, broam ratificat	502.	
1	Express, post, radio, telegraph	EO7	lenders
4	and telephone	503.	
440.	Apprentices, telegraph and	504.	
	telephone	505.	The contract of the contract o
441.	Agents, express companies	E06	window dressers
442.	Express messengers and railway	506.	- And Committee
	mail clerks	507.	The state of the s
443.	Foremen and overseers, tele-	508.	overseers
-	graph and telephone	500.	Inspectors, gaugers and
444.	Inspectorstelegraph and	509.	Inquirence
	telephone		9
445.	Laborerstelegraph and tele-	510.	
11.2.	phone and express companies	511	Cials
446.	Mail carriers	511.	Laborers in coal and lumber
447.	Proprietors, managers and offi-	512.	yards, warehouses, etc.
	cials, telegraph and telephone	DIE.	Laborers, porters and helpers in stores
448.	Radio operators	57.7	
449.	Telegraph and telephone linemen	513.	
450.	Telegraph messengers	DIT.	Proprietors, managers and officials
451.	Telegraph operators	515.	
452.	Telephone operators	516.	
.,	rerebisers obergoots	210.	officials
(Other transportation and communica-	517.	
1000	tion pursuits	518.	
453.	Apprentices, other transportation	519.	
	and communication	520.	
454.	Aviators	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and exporters
455.	Foremen and overseers, air trans-	521.	Other pursuits in trade
	portation	2	STATE OF THE STATE OF STREET
456.	Foremen and overseers, other	600.	PUBLIC SERVICE
- 2000	transportation & communication	-	Firemen, fire department
457.	Inspectors, other transportation	602.	Guards, watchmen and door-
	and communication		keepers
458.	Laborers, air transportation	603.	*
459.	Laborers, pipe lines	604.	
460.	Laborers, other transportation		ives, etc.
	and communication	605.	The state of the s
461.	Air hostess		(city and county)
462.	Proprietors, managers and offi-	606.	Officials and inspectors
1222010	cials, other transportation		(State and United States)
	and communication	607.	The state of the s
463.	Others, other transportation	608.	
,	and communication	609.	
464.	Proprietors, managers and offi-	610.	
(domain press)	cials, air transportation		

Code D

700.	PROFESSIONAL SERVICE	735.	Religious workers
701.	Actors and showmen	736.	Technicians and laboratory
702.	Architects	4130.	assistants
703.	Artists, sculptors and teachers	737.	Theatrical owners, managers
	of art	121:	and officials
704.	Authors, editors and reporters	738.	Other occupations
705.	Chemists, assayers and metal-	739.	Attendants, pool rooms, bowl-
	lurgists	122.	ing alleys, golf clubs, etc.
706.	Clergymen	740.	Dentists' assistants and
707.	College presidents and profes-	1.0.	attendants
	sors	741.	Helpers, motion picture pro-
708.	Dentists	1	duction
709.	Designers, draftsmen and	742.	Laborers, professional service
, -	inventors	743.	Laborers, recreation and amuse-
710.	Lawyers, judges and justices	1.2.	ment
711.	Musicians and teachers of music	744.	Librarians' assistants and
712.	Osteopaths		attendants
713.	Photographers	745.	Physicians' and surgeons'
714.	Physicians and surgeons	1.5.	attendants
715.	Teachers	746.	Stage hands and circus helpers
716.	Civil engineers	747.	Theater ushers
717.	Electrical engineers	748.	Other attendants and helpers
718.	Mechanical engineers	749.	Dieticians
719.	Mining engineers	750.	Technical engineers
720.	Trained nurses	751.	Projectionists
721.	Veterinary surgeons	752.	Other professional pursuits
722.	County agents, farm demonstra-	172.	outer professional parsards
	tors, etc.	800. T	DOMESTIC AND PERSONAL SERVICE
723.	Librarians	801.	Barbers, hairdressers and
724.	Social and welfare workers		manicurists
725.	Abstracters, notaries and	802.	Bartenders
1-2-	justices of the peace	803.	Boarding and lodging-house
726.	Architects', designers' and	00).	keepers
,	draftsmen's apprentices	804.	Bootblacks
727.	Apprentices to other profes-	805.	Charwomen and cleaners
1 1	sional persons		Leaning, dyeing and pressing
728.	Billiard room, dance hall, skat-		shop workers
	ing rink, etc., keepers	806.	Owners and proprietors
729.	Chiropractors	807.	Managers and officials
730.	Healers (not elsewhere classi-	808.	Foremen and overseers
1,500	fied)	809.	Laborers
731.		810.	Other operatives
17-	Reeners of chart table and benai		CONTRACTOR OF CONTRACTOR OF THE PARTY OF THE
	Keepers of charitable and penal		
732	institutions	811.	Elevator tenders
732.	institutions Keepers of pleasure resorts,	811.	Elevator tenders Hotel keepers and managers
	institutions Keepers of pleasure resorts, race tracks, etc.	811. 812. 813.	Elevator tenders Hotel keepers and managers Housekeepers and stewards
732. 733.	institutions Keepers of pleasure resorts, race tracks, etc. Officials of lodges, societies,	811. 812. 813. 814.	Elevator tenders Hotel keepers and managers Housekeepers and stewards Janitors and sextons
	institutions Keepers of pleasure resorts, race tracks, etc.	811. 812. 813.	Elevator tenders Hotel keepers and managers Housekeepers and stewards

Code D

816.	Launderers and laundresses		
	(not in laundry)		
817.	Laundry owners, managers and		
	officials		
	undry operatives	900.	CLERICAL OCCUPATIONS
818.	Delivery men	901.	Advertising agents
819.	Foremen and overseers	902.	Agents, collectors and credit
820.	Laborers	,,,,,	men
821.	Other operatives	903.	Accountants and auditors
822.	Midwives and nurses (not trained)	904.	
Po	rters (except in stores)	905.	
823.	Domestic and personal service	202.	stores)
854.	Professional service	906.	Messenger, errand and office
825.	Steam railroad		boys and girls
826.	Other porters (except in stores)	907.	Stenographers and typists
827.	Restaurant, cafe and lunch-room	908.	
	keepers	909.	General office work
828.	Cooks		Business machine operator
829.	Other servants	,,,,,,	addition machine operator
830.	Waiters or waitresses		
831.	Cemetery keepers		
832.	Hunters, trappers and guides		
	Other occupations		
833. 834.	Housewife or housework		Cyling the section of delaying
			C WHOLL BEE PRETERN IN CO.

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YOUTH SURVEYS

Tabulation of Data

A series of tables to be made from the data procured in the youth survey schedules are presented in the following pages. It is evident that to secure all information from the schedule data by cross tabulation would require the use of an extremely large number of tables, and would necessitate a very extensive report.

Since these youth surveys are but a part of the total survey an attempt has been made to select only those relationships which bring out essential data which relate directly to the problem of vocational education in the community. If it is desired to emphasize any other factor which the data will permit, other tables may be added to those which are presented in this technique.

Two methods of procedure may be followed in the tabulation of data from the work sheets—the data may be hand tabulated, or if finances are available a great deal of work may be obviated by machine tabulation. If the data are to be machine tabulated, the work sheets and the blank tables should be turned over to a statistical bureau. In some cases data may be machine tabulated directly from the coded youth survey schedules at additional cost.

The tabulation of data by hand simply becomes a job of counting the number of cases in each classification as indicated by the various tables. To assist survey workers in identifying the source of data for each table, the column numbers from the work sheet are carried in each table.

Attention is called to the need for extreme accuracy in handling the data. A report which is not consistent in its totals or in items which appear in more than one table is of little statistical value.

To secure accuracy it is suggested that totals for major groups be entered on all tables in which these data appear as soon as they are determined for the first table in which they appear. Itemized data in the tables can then be checked against the totals as soon as entered. All tables should be checked both vertically and horizontally to prove the entries.

YOUTH SURVEYS

Presenting the Data

In-School Youth Survey

The Survey

Identification Information

Age and Sex Distribution of Cases (Table VII-A)
Race and Color of Pupils (Table VII-B)
Place of Residence (Table VII-C)

Educational Findings

Age-Grade Distribution of Pupils (Table VII-D)
Subjects Liked and Disliked (Table VII-E)
Future Educational Plans (Table VII-F)
Attitude of Secondary School Pupils Concerning Attending a Central Vocational School (Table VII-G)

Occupational Findings

Place of Employment (Table VII-H)
Out-of-School Jobs (Table VII-I)
Occupational Choice (Table VII-J)
Occupational Comparison (Table VII-K)

Summary

Implications for Vocational Education

Table VII-A.

Distribution of Cases by Sex and Age.

Age in Years	Sex	(No. 3)	Total
(Nos. 1-2)	Male	Female	10001
12 or less			
15 16 17 18			
19 20 21			
Not ascertainable			
Total			

Table VII-B.

Race or Color by Sex.

Race or Color (No. 4) Thite	Sex (1	No. 3)	Total		
(NO. 4)	Male	Female	10001		
Whi te					
Negro			LIFE H. T.		
Other					
Not ascertainable		THUS !			
	7				
Total					

YOUTH SURVEYS (IN-SCHOOL)

Table VII-C.

Place of Residence by Sex.

Place of Residence	Sex (1	No. 3)	Total	
(No. 5)	Male	Female	10001	
Open country farm (three acres or more)				
Open country nonfarm (less than three acres)				
Village, town or city				
Not ascertainable			1 11	
	1-1-2-1-			
Total				

Table VII-D.

Present School Grade by Sex and Age.

Age in Years (Nos. 1-2)			P	reser		1001 (Grade			Total
	71	h	8th	9th	10th	llth	12th	F.G.	N.A.	
					Ma	ALE				
12 or less 13 14 15 16 17 18 19 20 21 Not ascertainable										
Subto	tal				100					
					FEM.	ALE		1000	7	
12 or less 13 14 15 16 17 18 19 20 21 Not ascertainable Subte	otal									
								-	-	
Total						1		1		

Table VII-E.

Subjects Liked and Disliked.

Subject	Liked (Nos. 9-12) Dislik	of Subjects ed(Nos. 13-16) Difference Female Total
ACADEMI C		
Languages Mathematics		
Science		
Social science		
PRACTICAL SUBJECTS		
Agri culture		
Commercial		
Home economics Industrial arts		
Industrial arts		
VOCATIONAL SUBJECTS		
Agriculture		
Retail selling and		
office practice		
Home economics		
Trade and industrial		
No choice		

Table VII-F.

Future Educational Plans.

7-8 9-10 11-12 P.G. N.A. Total 7-8 9-10 11-12 P.G. N.A. Total TO FINISH HIGH SCHOOL (No. 7) Yes No Undecided Not ascertainable Total TO GO TO COLLEGE (No. 8) Yes No	NAME AND ADDRESS OF TAXABLE PARTY OF TAXABLE PARTY.		Present Grade (No. 6)											
7-8 9-10 11-12 P.G. N.A. Total 7-8 9-10 11-12 P.G. N.A. Total TO FINISH HIGH SCHOOL (No. 7) Yes No Undecided Not ascertainable Total TO GO TO COLLEGE (No. 8) Yes No	Educational Plans	1		Mal	Le			1	Female					
Yes No Undecided Not ascertainable Total TO GO TO COLLEGE (No. 8) Yes No		7-8	9-10			N.A.	Total	7-8	9-10	11-12	P.G.	N.A.	Total	
No Undecided Not ascertainable Total FO GO TO COLLEGE (No. 8) Yes No	O FINISH HIGH SCHOOL (No. 7)													
Total PO GO TO COLLEGE (No. 8) Yes No	No Undecided													
Yes No														
Not ascertainable	Yes No Undecided													

Table VII-G.

Attitude of Secondary School Pupils Concerning Attending a Central Vocational School.

Item (No. 27)		Fini	Pres	ent Sci	1000	rade	#D				Total
(10. 21)	7th	8th	9th	10th	llth	12th	P.	G.	N.	A.	
Yes No Uncertain Not ascertain- able				MA	LE						
Yes No Uncertain Not ascertain- able Subtotal				FEM	ALE						
Total						-	-			-	

Table VII-H.

Place of Employment.

Place of Employment				Pres	ent Age		ars				Grand Total
(No. 20)			Male					Female			
	12-14	15-17	18-20	N. A.	Total	12-14	15-17	18-20	N. A.	Total	
S EMPLOYMENT PRIMARILY:											
At home with pay At home without pay Away from home with pay											
Away from home without pay Other Not employed											
Not employed Not ascertainable											
Total											

Table VII-I.

Out-of-School Jobs.

Occupational Code Numbers		Present School Grade (No. 6)										
		Male			Female						Total	
(Nos. 17-19)	7-8 9-10	7-8 9-10 11-12 P.G. N.A. Total 7-8 9-10 11-12							N.A.	Total		
100 200 300 400												
500 600 700 800 900												
94 95 96 98 99												
Total						H	1-1-1-					

Note: In presenting data, occupational divisions should be inserted in place of code numbers.

Table VII-J.

Occupational Choice.

Occupational Code Numbers		Present School Grade (No. 6)											
(Nos. 21-23)		Mal	е			Female					Grand		
(1.00. C1 2)/	7-8 9-	0 11-12	P. G.	N.A.	Total	7-8	9-10	11-12	P.G.	N.A.	Total		
100 200										15			
300													
400													
500													
600													
700 800					i								
900													
98													
99													
Total													

Table VII-K.

Occupational Comparison.

100 200 300 400 500	Numbers		Female	(Nos. 24-26)	. 17-19) Female Total	S. 21-23 Female	
200 300 400							
		100					
600 700 800 900							
94 95 96 97 98 99							

Note: Entries in this table should be based upon percentage of the total in each group.

^{1/} Occupational distribution of all gainful workers by sex, Table IV-B.

YOUTH SURVEYS

Presenting the Data

Out-of-School Youth Survey

The Survey

Identification Information

Age and Sex of Cases (Table VIII-A)
Marital Status and Race or Color (Table VIII-B)
Place of Residence (Table VIII-C)

Educational Findings

Age and Grade at Time of Quitting School (Table VIII-D)
Reasons for Quitting School (Table VIII-E)
Organized Vocational Training Since Leaving School
(Table VIII-F)

Occupational Status of Youth

Occupations Prepared for by Vocational Training (Table VIII-G)
Occupations Prepared for by Work Experience (Table VIII-H)
Occupational Choice (Table VIII-I)
Occupations of Youth (Table VIII-J)
Occupational Comparison (Table VIII-K)

Employment Status of Youth

Type of Employment (Tables VIII-L and VIII-M)
Place of Employment (Table VIII-N)
Number of Jobs or Positions Held (Tables VIII-O and VIII-P)
Period of Unemployment (Tables VIII-Q and VIII-R)

Summary

Implications for Vocational Education

Table VIII-A.

Distribution of Cases by Sex and Age.

Sex (No. 47)	Age in Years (Nos. 45-46)									mot-1	
	16	17	18	19	20	21	1 22	23	1 24	N. A.	Total
Male											
Female					,						
Total				1	-	-	-	-	+	 	

YOUTH SURVEYS (OUT-OF-SCHOOL)

Table VIII-B.

Marital Status and Race or Color.

Marital Status and Race	Sex (N	10, 47)	Total
	Male	Female	Total
MARITAL STATUS (No. 49)			
Single Married Separated, divorced, etc. Not ascertainable			
Total			
RACE OR COLOR (No. 48)			
White Negro Other Not ascertainable			
Total			

Table VIII-C.

Place of Residence.

Place of Residence	Sex (N	0. 47)	Total
(No. 50)	Male	Female	10021
Open country farm (three acres or more)			
Open country nonfarm (less than three acres)			
Village, town or city			
Not ascertainable			
Total			

Table VIII-D.

Grade or College Year Completed by Sex and Age at Time of Quitting School.

Age at Time of	Schoo	ol Gra	de o	r Col	l o mo	Voor	*omml	1) 50 + 02 (7	Ton I	51-52)
Leaving School (Nos. 53-54)	6 or less	7	8	9	10	11	1.2	Over		Total
MALES										
13 14 15 16 17 18 19 20 21 Not ascertainable										
Subtotal							-			
FEMALES										
13 14 15 16 17 18 19 20 21 Not ascertainable Subtotal										
Total										

Table VIII-E.

Reason for Quitting School and Grade at Time of Quitting.

	Hi	ighest	Grade	or Yea	r Comp	leted		
Reason	Cal	7	(Nos	51-5		Grand		
(No. 55)	6 or	ool Gr	ade	_Col	lege Y	© NOSEDNASOS PERMADANTE		Total
	less	7-9	10-12	1-2	3-4	Over	N. A.	
Graduated Financial To go to work Illness Needed at home Trouble in school Dislike for school To get married Other Not ascertainable	1022		MA	E				
Subtotal			FEM.	ALE				
Graduated Financial To go to work Illness Needed at home Trouble in school Dislike for school To get married Other Not ascertainable								
Subtotal								
Total								
10001					-			

Table VIII-F.

Organized Training Since Leaving School or College.

Type of Training	-			College 51-52		Compl	eted	Cmand
(No. 58)		ool G	rade	Co	llege	Year		Grand Total
	b or less	7-9	10-12	1-2	3-4	Over 4	N. A.	1008.1
Correspondence or extension courses Evening school Business training Apprenticeship (part-time class) Other specialized school No organized training			MAI	LE				
Not ascertainable Subtotal						-	-	
			FEMA	ALE				1 -
Correspondence or extension courses Evening school Business training Apprenticeship (part-time class) Other specialized school No organized training Not ascertainable Subtotal								
Total						1		

Table VIII-G.

Occupation Prepared for by Vocational Training and Length of Training Period.

Occupational Code Numbers	1			(NTOG	67 65	ining in Mo		mat.
(Nos. 64-66)	1-6	7-12	13-18	19-24	25 to 36	More than 3 years	Not ascer- tainable	Tota:
100 200 300 400 500 600 700 800 900 98 99				MAI	LE			
Subtotal 100 200 300 400 500 600 700 800 900 98 99				FEI	MALE			
Subtotal								
Total								

Table VIII-H.

Occupation Prepared for by Work Experience and Length of Work Experience.

Occupa Code N			Length	of Wo	rk Exp	perience 72-73	ce in Month	ıs	Total
(Nos.		1-6	7-12	13-18	19-24	25 to	More than 3 years	Not ascer- tainable	Toval
100 200 300 400 500 600 700 800 900 98 99	Subtatal				MAI	-10			
100 200 300 400 500 600 700 800 900 98 99	Subtotal				FE	MALE			
Total	-7					-			

Note: In presenting data, occupational divisions should be inserted in place of code numbers.

Table VIII-1.

Occupational Choice by Sex and Grade Completed.

Occur	ational	Hi	ghest	Grade	or Co	llege	Year	r	
	Numbers	Scho	ool Gr	leted (lege 1			Total
	74-76)	6 or less		10-12	1-2	3-4	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	N.A.	Toval
100 200 300 400 500 600 700 800 900 98 99	Subtotal			MAI FEM.					
100 200 300 400 500 600 700 800 900 98 99	Subtotal								
To	otal								

Table VIII-J.

Occupation by Sex and Grade Completed.

Occupational	1	Com	t Grade	or Co	11ege	e Year	r	
Code Numbers (Nos. 61-63)	5 or less	7 - 9	10-12	1-2	3-4	O	N.A.	Total
			MA	LE				
100 200 300 400 500 600 700 800 900 94 95 96 98								
38 Subtotal								
100 200 300 400 500 600 700 800			FEM	ALE				
900 94 95 96 98 99								
Subtotal								
Total				1				

Table VIII-K.

Comparison of Present Occupation, Vocational Training, Occupational Experience and Occupational Choice.

(In per cent)

		Ma	le le			77	- 7 -	
Occupational Code Numbers	Occupa- tion (61-63)		Experi-	Choice (74-76)	Occupa- tion (61-63)	Female Train- ing (64-66)	Experi- ence	Choice (74-76)
100 200 300 400 500								
600 700 800 900								
94 95 96 98 99								
Total								

Table VIII-L.

Employment Status by Sex and Highest School Grade or College Year Completed.

Employment Status		Year	School Complete	ed (No:	s. 51-	52)	1	
(No. 59)	6 or	7-9	10-12	1-2	3-4	Over 4	N.A.	Tota
ARE YOU EMPLOYED:			MA	LE 				
Full-time Part-time Occasionally Not at all Not ascertainable								
Subtotal								1
ARE YOU EMPLOYED:			FEM	ALE				
Full-time Part-time Occasionally Not at all Not ascertainable								
Subtotal								
Total								

Table VIII-M.

Employment Status by Sex and Years Out of School.

Employment Status (No. 59)		Years Out of School (Nos. 56-57)													
			Ma	le					Fem	ale			Grand Total		
	3 or less	4-6	7-9	10 or more	N. A.	Total	3 or less	4-6	7-9	10 or more	N. A.	Total			
Full-time Part-time Occasionally Not at all Not ascertainable															
Total															

Table VIII-N.

Type of Employment by Sex and Years Out of School.

Employment Status (No. 60)		Years Out of School (Nos. 56-57)													
			Ma	ile					Fem	ale			Total		
	3 or less	4-6	7-9	10 or more	N. A.	Total	3 or less	4-6	7-9	10 or more	N. A.	Total			
At home with pay At home without pay Away from home with pay Away from home without pay Other Not employed Not ascertainable															
Total				-											

Table VIII-0.

Number of Jobs or Positions Held Since Leaving School by Sex and Grade Completed.

Number of Jobs	Highest School Grade or College Year Completed (Nos. 51-52)													
or Positions			Mal	Le				Fema	ale					
(Nos. 79-80)	6 or less	7-9	10-12	Over	N. A.	Total	6 or less	7-9	10-12	Over 12	N.	. A.	Tota	
None One Two Three Four Five Six Seven Eight Nine Ten or more Not regularly employed Not ascertainable														
Total														

Table VIII-P.

Number of Jobs or Positions Held Since Leaving School by Sex and Years Out of School.

Number of Jobs or Positions (Nos. 79-80)	Years Out of School (Nos. 56-57)													
			M	ale					Fem	ale			Grand Total	
	3 or less	4-6	7-9	10 or	N. A.	Total	3 or- less	4-6	7-9	10 or more	N. A.	Total		
ne !wo										-				
hree									-					
our										1				
'i ve														
ix											1			
Seven														
light														
line														
en or more														
Not regularly employed														
Not ascertainable														
											1			
Total	-				-						-			

Table VIII-Q.

Months of Unemployment by Sex and Grade Completed.

Months of Unemployment		Grade Completed (Nos. 51-52)											
(Nos. 77-78)				Mal	e	-	Female						
		8 or less	9-12	Over	N.A.	Total	8 or less	9-12	Over 12	N.A.	Total	Gran	
INCE LAST REGULAR JCB OF ONE MORE DURATION: Less than five months Five to eight months Nine to 12 months	MONTH OR												
13 to 24 months Two years or more													
	Subtotal										-	-	
INCE LEAVING SCHOOL OR COLLEGE have never been regularly en Less than five months Five to eight months Nine to 12 months	E (If you mployed):												
13 to 24 years Two years or more													
	Subtotal	-										-	
uestion does not apply ot ascertainable													

Table VIII-R.

Unemployment by Sex and Years Out of School.

	Years Out of School (Nos. 56-57)														Grand
Months of Unemployment				Male							Female				Total
(Nos. 77-78)	l or less	2-4	5-7	8-10	Over 10	N.A.	Total	l or less	5-74	5-7	8-10	Over 10	N.A.	Total	
SINCE LAST REGULAR JOB OF ONE MONTH OR MORE DURATION:															
Less than five months Five to eight months Nine to 12 months 13 to 24 months Two years or more															
Subtotal															
SINCE LEAVING SCHOOL OR COL- LEGE (if you have never been regularly employed):															
Less than five months Five to eight months Nine to 12 months 13 to 24 months Two years or more															
Subtotal															
Question does not apply Not ascertainable															
Total	-														

