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ABSTRACT

In response to problems encountered by the National Advisory Council on Vocational Education, this report makes major sources of statistics and information in the field of vocational education more readily available to scholars and researchers. Twelve major information sources within the current vocational education area are reviewed, including the cost and directions for acquisitioning. A second type of data source provides information on the location and use of data on the expenditures and receipts of Federal funds for vocational education. A third source cites a survey report of 1,200 private vocational schools. The last source describes 10 projects which may provide future educational data sources by revealing areas in which useable comprehensive data does not yet exist and which give direction for future data collection and formats. (RR)



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INFORMATION AND DATA SOURCES

FOR

RESEARCH AND PLANNING

IN

VOCATIONAL EDUCATION

National Advisory Council on Vocational Education U. S. Department of Health, Education and Welfare

Office of Education

January 1971

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I. INTRODUCTION

The purpose of this report is to make readily available to scholars and researchers the major sources of statistics and information in the field of vocational education and to indicate methods for using these sources. The directory is being developed in response to problems encountered by the National Advisory Council in its efforts to explore problems and trends in the field.

A major problem for research and development in vocational education continues to be the locating, storing, and organizing of basic data and information reports. Researchers must often struggle through reports and computer print-outs only to find that necessary information is unobtainable. On the other hand, much duplication occurs because of a lack of communication among researchers and data collection agencies.

Within the past few years, nationwide data collection efforts have begun within the areas important for research and planning in the vocational education field. These efforts, however, have not always been related to problem-solving and program-planning. Researchers can now find numerous and varied sources of data which require analyses and application to specific questions. The challenge for organizing and developing this body of information will require considerable attention before some of these sources are useful for vocational educators.



II. MAJOR CURRENT VOCATIONAL EDUCATION DATA SOURCES

This section of the report describes standard data and information sources within the vocational education area. Documents are listed because of the quality of the data collection, the scope of the information, and the presumed usefulness to vocational education researchers. The information contained in these sources covers a broad spectrum since no attempt was made to define the field by limiting the available information.

A. Vocational and Technical Education Annual Report

The Bureau of Adult, Vocational, and Technical Education in the Office of Education in HEW publishes a Vocational and Technical Education Annual Report for each fiscal year. This report describes the continuing effects of Federal assistance to vocational education. Information given covers growth and development, manpower trends and changing program requirements, people served (enrollment and trends), ancillary services, administration and unmet needs and goals. Numerous statistical tables provide information on teachers and enrollments by state for each occupational program in secondary, post-secondary and adult vocational education. Additionally, expenditures are given not only on the Federal level but also on state and local levels.

To obtain copies, write the Government Printing Office and request document OE 8008 by fiscal year (available back through 1950). Make check for \$1.50 per copy payable to the Superintendent of Documents.

B. Digest of Educational Statistics

Each year the National Center for Educational Statistics* publishes a new edition of the <u>Digest of Educational</u>

Statistics. The purpose of this digest is to provide abstracts of statistical information on all levels of U.S. education from kindergarten to graduate school. Statistical surveys and estimates of the Office of Education and other government and non-government agencies are presented. Areas of focus include: numbers of schools, enrollments, teachers, educational attainment, finances, Federal funds, libraries, and research and development. Specific categories of statistics pertaining to vocational education include: enrollment, expenditures, Federal funds for, and teachers of.

To obtain copies of the digest, write to the U.S. Government Printing Office and make the check for \$1.50 per copy payable to the Superintendent of Documents. The document number is FS 5210 10024-69 (or -67, -68, etc., depending upon which year's edition you are requesting).

^{*}NCES, The National Center for Educational Statistics, is an office within the Office of Education, HEW, which collects data on the conditions and progress of U.S. Education.



C. <u>Inventory of Vocational Education Statistics Available</u> in Federal Agencies.

This statistical inventory, published in May 1970, contains 49 pages of report forms which give names and dimensions of subjects relevant to vocational education, and the names and addresses of the people to contact to obtain information. This publication is a guide to sources of statistics on vocational education.

Copies may be purchased for \$.65 from the Superintendent of Documents, U. S. Government Printing Office (Catalogue No. HE5.280:80069).

D. The Process and Product of T & I High School Level Vocational

Education in the United States (Volume I, The Product; Volume II,

The Process Variables).

This report, prepared in 2 parts, was prepared by Max U. Eninger. Volume I. The Product, was published in September, 1965.* The objectives were: (1) to describe the occupational, education and related experiences of trade and industrial graduates of 1953, 1958 and 1962; and (2) to compare the experiences fo vocational and academic graduates of the same classes and schools. Data were collected by questionnaires from 5,327 vocational graduates and 1,780 academic graduates who attended 100 high schools in eight geographic regions of the U.S. The data were analyzed and presented in terms of: (1) general versus vocational education; (2) vocational versus comprehensive schools; and (3) small versus large schools. A 5 percent corrective sample was selected for intensive follow-up of non-respondents, and a similar sample with unknown addresses was pursued. Derived measure intercorrelations for 45 occupational measures, 28 non-occupational measures, and 80 occupational non-occupational measures were obtained by the Pearson Product Moment Correlation

From the findings, Eninger concluded among other things that reasons for not getting jobs were not significantly different for vocational and comprehensive graduates. Help in finding the first job was obtained from a friend or relative 38 percent of the time and from a counselor 5 percent of the time. Graduates of medium sized schools felt less need for additional training in basic skills. There was no significant difference in the number of full-time jobs held by academic and vocational graduates or in their job satisfaction. Other salient findings



^{*} Copies of Volume I, The Product, may be obtained from the ERIC Document Reproduction Service. (ED 612 315 MF-\$.63 HC - \$17.80) For explanation of ERIC and ordering instructions, see appendix.

of the study included the following: (a) academic course graduates required, on the average, one month longer to find their first full time job than vocational graduates; (b) when equated for college education, the vocational graduates had significantly greater employment security than academic graduates (employment security was expressed as the percentage of time spent in full time employment); (c) vocational graduates had significantly greater employment stability than academic graduates (employment stability was expressed as the average duration in months of employment per job held); (d) vocational graduates did not do as much moving from employers to employers; (e) when graduates without college education were compared, there was no significant difference in first job starting hourly earnings between academic and vocational graduates; (f) vocational graduates working in the trades studied in high school tended to earn more than those working in trades that differed from their high school study; and (g) when graduates with no college education were compared, vocational graduates had higher earnings two and six years after graduation than academic graduates, but the academic graduates' earnings after eleven years out of school were equal to the vocational graduates' earnings.

Volume II, The Process Variables, was published in April, 1968.* The primary objective of this study was to provide a description of the process variables of trade and industrial education, such as curriculum, facilities, guidance and placement services, teachers and instructional methods, advisory committees and community relations, and administration. Data were collected from a stratified random sample of 100 vocational and comprehensive high schools that offered three or more trade and industrial education courses. Graduates from these schools in 1953, 1958 and 1962 totalled 10,805, and follow-up information was collected from 5,327 of these.

E. Project TALENT

Project TALENT, begun in 1959, consists of a large scale, longitudinal survey based mainly on a stratified random sampling of over 400,000 students in grades 9 through 12 in approximately 4.5 per cent of all United States secondary



^{*} Copies of Volume II, The Process Variables, may be obtained from ERIC Document Reproduction Service. (Ed.024 797 MR - \$2.25 HC-\$32.80)

schools. American Institutes for Research (AIR) in Palo Alto, California, which has maintained the TALENT Data Branch since its incpetion, chose the following stratification variables: (1) type of school - private, public, parochial; (2) geographical area; (3) for public schools only, size of senior class; and (4) retention ratio.

To obtain student data, in 1960, TALENT researchers administered tests and took inventories with the following: information tests, aptitude and achievement tests, student activities inventory, interest inventory, and student information blank.

In addition to the original testing, AIR in conjunction with the Office of Education, planned a series of follow-up studies for one, five, ten and twenty years after each of the classes in the sample graudated from high school. At this time, AIR has completed the one-year and five-year follow-up studies on the members of the 1960 sample. AIR has not added new individuals to the sample and does not plan to do so.

The One-Year Follow-Up Questionnaire included 56 questions concerning income, career plans, present job, family plans, education after high school (work experience, military service, health, etc.). In 1966, the School of Education at the University of Pittsburgh published the report, One Year Follow-Up Studies, by J. C. Flanagan, etc.

To obtain data from the TALENT Data Bank in Palo Alto, it is necessary to provide a relatively long lead time for sorts of more than a very limited number of variables at a time. However, AIR will provide information on available TALENT publications. For further information, write:

American Institutes for Research P. O. Box 1113 Palo Alto, California 94302

F. A Study of Benefits and Costs (A Case Study of Worcester, Massachusetts).*

A.J. Corazzini's 1966 study of the school system in Worcester, Massachusetts, was undertaken with a view toward presenting an overall economic evaluation of the vocational schools within the system. The study attempted to assess the economic benefits off the vocational schools to the individual and to the local community, and to compare the economic benefits with direct, indirect, and opportunity costs of maintaining the school. The community's regular high schools were compared with its vocational high schools with particular attention paid to the relative costs of the two programs. Comparisons were also made between graduates of high school vocational programs and graduates of post-high school vocational programs.

Corazzini (1966) reported that public per pupil costs of vocational education for males, whether at the high school or post high school level, were 2.3 times greater than the public per pupil costs for regular high school programs. The per pupil costs for vocational education for females was 1.8 times that of regular high school programs for females. When private direct costs were added, vocational education was 2.15 and 1.75 times that of regular high school programs for males and females, respectively. When private opportunity costs in the form of foregone earnings were added to public and private costs, the cost ratios were reduced such that vocational education for males was 1.40 times as expensive as regular high school education and vocational education for females was 1.25 times as expensive as regular high school education.

The benefit index used in the study was starting wages. A comparison of the starting wages of vocational school graduates with the starting wages of graduates of the regular high school programs revealed that initially vocational graduates earned slightly higher wages than untrained regular high school graduates. This finding was the case when vocational school graduates employed in jobs in the trade areas for which they were trained were compared with regular high school graduates who were employed in these same trade areas.

^{*}A.J. Corazzini, Vocational Education, A Study of Benefits and Costs (A Case Study of Worcester Massachusetts) (Princeton, New Jersey: Industrial Relations Section, Princeton University, 1966), 126 pp. Copies may be obtained from the ERIC Document Reproduction Service. (ED 010 296 MF - \$.75 HC - \$6.75)



The size of the premiums paid the vocational school graduate relative to the regular high school graduate varied inversely with the size of the firm in which the graduates were employed.

Corazzini argued that the starting pay differentials between vocational graduates and regular high school graduates would very likely decrease over time. He suggested a time period of five years stating that within the period of time regular high school graduates would have acquired at least as much on-the-job training as the vocational graduate, hence the initial advantage enjoyed by the vocational graduate would be lost. Given the initial wage differentials, all calculations allowing these differentials to decrease which also required that the present values of the extra costs and benefits be equated by the time the differentials became zero, resulted in a number of years which prohibited the recovery of the extra costs of vocational education. Starting salaries for posthigh school vocational technical graduates were, on the average, only slightly higher than the high school vocational graduates. The wage premiums paid post-high school vocational technical graduates were not found to be large enough to justify investing in post-high school vocational education.

Corazzini's conclusions include the following: (a) given the cost of vocational education, it appears that alternative programs for publicly subsidized on-the-job training should be considered and (b) when vocational education is considered as a dropout prevention measure, excessive costs are still encountered with the consequence that direct income benefits resulting from graduating from high school rather than dropping out are not enough to justify expensive vocational programs. Corazzini stated that vocational education in the school system studied was an expensive terminal training program. He concluded the report by questioning the economic value of the vocational education program. Corazzini (1967) qualified some of his conclusions in a later presentation.*

^{*} A. J. Corazzini, "When Should Vocational Education Begin?" In Cathleen Quirk and Carol Sheehan (Ed.), Research in Vocational and Technical Education (Madison, Wisconsin: Center for Studies in Vocational Technical Education, University of Wisconsin, 1967), pp. 193-201. Microfiche copies may be obtained from the ERIC Document Reproduction Service (ED 021 976 MF - \$1.25). Hard copies may be purchased for \$6.00 from the Center for Studies in Vocational & Technical Education, Social Science Building, University of Wisconsin, 1180 Observatory Drive, Madison, Wisconsin.

G. Vocational Education: The Bridge Between Man and His Work.

Under the provisions of the Vocational Education Act of 1963, the Advisory Council on Vocational Education was directed to review the administration and status of vocational education programs conducted under the Vocational Education Act of 1963 and other acts and to make recommendations for improvement of vocational education. The Council's first report is entitled "Vocational Education: The Bridge Between Man and His Work" (publication 2). "General Report of the Advisory Council on Vocational Education, 1968."

In order to bring vocational education prominently to the attention of a larger segment of the American public, the Council prepared Publication 1, a special report of highlights and recommendations, which presents succinctly the issues and problems of vocational education within the context of changing social, educational, and economic conditions.* The recommendations cited in this special report are condensed versions of those cited in the report required by the Act of 1963, which was identified as Publication 2.

In Publication 1, Section I describes the changing social and economic environment which has elevated formal preparation for employment to a critical level in public policy. Section II reviews the background and objectives of the 1963 Act and evaluates the accomplishments and shortcomings in pursuit of those objectives. Section III describes the current status of vocational education. Based on the environmental developments and experiences under the 1963 and previous acts, section IV sets forth some basic concepts for career development education under current and emerging conditions, and section V describes a "unified" system of education for employment based on those concepts. Section VI contains our recommendations for improvement in the 1963 act and for administration of new and changing concepts of education for employment.



^{*} Advisory Council on Vocational Education. Vocational Education:
The Bridge Between Man and His Work. Publication 1. In Notes and
Working Papers Concerning the Administration of Programs Authorized
Under Vocational Education Act of 1963 Public Law 88-210, as amended.
Subcommittee on Education, Committee on Labor and Public Welfare,
United States Senate (90th Congress, 2nd Session, March 1968). To
obtain copies, write the Government Printing Office and request document
OE 80052. Make check for \$2.25 payable to Superintendent of Documents.

H. The Role of the Secondary Schools in the Preparation of Youth for Employment.

In 1967, Jacob J. Kaufman, Carl J. Schaefer, Morgan V. Lewis, David W. Stevens, and Elaine W. House conducted a study involving interviews with over 5,000 high school graduates who had completed either a vocational, general, or academic curriculum. They reported that comparisons among the three groups on various measures of job experiences revealed that graduates of all three curricula tended to earn about the same amount of money, to remain on jobs for about the same length of time, to leave jobs for much the same reasons, and to have about the same levels of job satisfaction. They concluded that a clear case could not be made that vocational education has a direct payoff in the occupational experiences of its graduates. This study, prepared at the Institute for Research on Human Resources, University Park, Pennsylvania, is available through ERIC (ED 011 060 MF - \$.75 HC - \$17.92).

I. A Cost Effectiveness Study of Vocational Education. Final Report.*

This study was concerned with the optimum allocation of public resources in education and involved a comparison between vocational-technical education and an alternative curriculum for non-college attending students. Major steps in this study were: (1) identification of costs and benefits; (2) collection of representative data; (3) determination of appropriate criteria for investment decisions; (4) statistical analysis; (5) calculation of the return to the investment; (6) consideration of limitations and related issues.

Data were collected in 3 cities. The dependent variables were the average monthly earnings before and after taxes one and six years after graduation, and the percent of time employed one and six years after graduation. The independent variables were: (1) city of graduation; (2) type of curriculum; (3) sex; (4) I.Q.; (5) race; (60) marital status; (7) father's education. Other non-monetary and non-economic benefits and performance



^{*}Teh-wei Hu; Ernst W. Stromsdorfer; et al, A Cost Effectiveness Study of Vocational Education. Final Report. University Park, Pennsylvania: Institute for Research on Human Resources. October, 1968. To obtain copies, write ERIC Document Reproduction Service. (ED 029 093 MF-\$1.25 HC-\$15.95)

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characteristics such as voting behavior and economic aspirations were examined. Detailed discussion of conceptual, statistical and methodological considerations were included in addition to a discussion of specific findings. The general finding was that cost-benefit ratios derived on the basis of marginal costs being incurred and the benfits accrued to the graduates indicated positive returns for the costs being incurred for graduates of vocational education programs.

J. Public School "universe" Survey

The Public School "Universe" Survey contains basic data for the school year 1969-1970 on every elementary and secondary public school in the United States and its territories (except for Puerto Rico, which has not returned the reporting forms). Mr. Roy Nehrt serves as Project Manager of the Public School "Universe" Survey, under the auspices of the Elementary and Secondary Surveys Branch, Division of Survey Planning and Analysis, NCES OE, HEW.

The input form for the "Universe" Survey provides for filling in the name of the school, its address, zip code, school district, county, State, and enrollment by grade level. Useful vocational education-oriented questions on the input form include whether the school has a vocational/ technical education program and whether it qualifies as an area vocational school. Mr. Nehrt's office does not have plans at this time to exercise this mammoth data base to obtain vocational education information. However, Mr. Nehrt does have the data tape available in useable form, and an authorized researcher may get information most readily by obtaining a copy of the tape and writing special purpose programs for the print outs needed. Mrs. Carol J. Hobson, Chief, Elementary and Secondary Surveys Branch, Division of Survey Planning and Analysis, NCES, must provide authorization for release of the tape.

Included on the following pages are the input form and the tape for the Public School "Universe" Survey data base. Mr. William Dixon at the HEW Data Management Center has possession of the tape. If the user should decide to use the HEW Data Management Center to obtain the needed information from the Public School "Universe" tape, he would need



to reference the tape number in his programming instructions. The HEW Data Management Center has an IBM 360/65, and charges \$1200 per hour for in-house time)

A potential user should note that the tape contains 34,000,000 characters, a factor to be considered when arranging for a computer system to perform sorting operations on this data base.

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K. Elementary and Secondary School General Information Survey ELSEGIS.*

Begun in 1967, the ELSEGIS program has produced three published documents dealing with financial, geographic and other statistical data on the school district level, with the most current published material covering the school year 1967-1968. Mr Gerald Kahn has worked with ELSEGIS since its inception in 1967 with the pilot survey for the Elementary and Secondary Surveys Branch, Division of Survey and Planning and Analysis, NCES.

Based on a sample of approximately 1400 school districts, ELSEGIS documents contain detailed information on all school districts in the United States with student populations of 25,000 or more. For five groups of smaller districts, Mr. Kahn has included a systematic random sampling of districts arranged by categories of student populations of diminishing sizes (i.e., he had sata on a few of the total districts with 10,000 to 24,999 students, with similar groups for four smaller-sized districts, with the smallest group containing information on districts with 300 or fewer students.)

For vocational education study purposes, ELSEGIS has limited usefullness. It lists receipts of funds by school districts, itemized for Federal, State and local levels, and includes vocational education dollars received from Federal sources; however, it contains only total district student populations, frequently including students from the pre-kindergarten level through 12th grade. This poses problems in analysis for the researcher. For example, for a district such as Los Angeles Unified School District, which had a student population of kindergarten children to 12th graders exceeding 650,000 in the fall term 1968,**it becomes impossible to assess the impact of the \$1,154,400 given to that school district by the Federal government for vocational education for the school year 1967-1968 without knowing

^{*}For tapes and print-outs of ELSEGIS data, contact Mr. A. Simms, Assistant Division Director, Division of Survey Planning and Analysis, Room 2177, Office of Education, Washington, D.C. (Phone 962-7574).

^{**}Gerald Kahn and Warren A. Hughes, Elementary and Secondary Surveys Branch, U.S. Department of Health, Education, and Welfare, Office of Education. National Center for Educational Statistics, Statistics of

the number of vocational education students nominally served. Further, the metropolitan area served by the Los Angeles Unified School District includes such diverse locales as Beverly Hills, which has a high concentration of very wealthy families, and Watts, which has a high concentration of poor Black residents.

L. U.S. Department of Commerce, Bureau of the Census, County Business Patterns, 1969.

During a recent analysis effort in which the Council participated, researchers hoped to find information in the Bureau of the Census document, <u>County Business Patterns</u>, that would mesh with information contained in the ELSEGIS data base to produce meaningful correlations between county vocational employment and vocational education programs in the public schools. This proved impossible.

The Data Base for County Business Patterns, 1969* came from Treasury (tax) Form 941, Schedule A, containing information about county businesses for a single time-point, mid-March 1969. A special survey of multi-unit companies supplemented the information. County Business Patterns excludes information about government activities for which, in some locales, a significant proportion of the residents are employed. This document, released in a separate volume for each State, contains the following general types of information for each county in the United States, for mid-March 1969:

- ·Kinds of businesses (excluding government) conducting operations in the county.
- ·Taxable payroll. (Note that for a large company items contributing to the average could include the salary of the company president, a clerk-typist, and unknown echelons in between.)
- Number of business units reporting by number of employees, in eight employment-site classes beginning with groups of from 1 to 3 employees and ending with the class of from 500 or more employees.

^{*}U. S. Department of Commerce, Bureau of the Census, <u>County</u>
<u>Business Patterns</u>, <u>1969</u>. <u>U.S. Summary</u>, is available from the U.S.
Government Printing Office for \$2,25 (Cat. No. C3.204:69-1). Volumes for each state are available also, but have difference prices and catalogue numbers.



III. EXPENDITURES AND RECEIPTS OF FEDERAL FUNDS FOR VOCATIONAL EDUCATION

Although data on expenditures and receipts are important for research and evaluation studies, this information has proved difficult to collect and report. The absence of standard definitions, and different interpretations of the same term, are particularly significant in the field of vocational education. For example, the term "disadvantaged," corresponds to the "special needs" description in vocational education fundings. While the Federal Government allocated \$6 million to the States in Fiscal Year 1968, ascertaining its use is complicated by the lack of legislative definition for this term. NCES has recently let a contract to develop standard definitions which will obviate these problems.

^{*} To Systems Sciences, Inc. through the Adult and Vocational Surveys Branch, Division of Survey Planning and Analysis, NCES.

Other specific problems in gathering statistics on expenditures are related to (a) State and local receipts and expenditures of Federal vocational education funds; (b) Federal funding to junior colleges providing post-secondary vocational training; and (c) interoretation of statistical tables in Offices of Education documents.

A. State and Local receipts and expenditures.

The National Advisory Council found that obtaining information on State and local expenditures of vocational education funds can be difficult. Itemized information on Federal funding to State and local educational programs is summarized in the NCES publication Digest of Educational Statistics,* but State expenditures are reported in the Vocational and Technical Education Annual Reports.** Local expenditures are not reported at the Federal level and must be compiled from State agency reports.

Comparing vocational and non-vocational secondary education with expenditures at the State level is not possible. Although total expenditures for secondary-level vocational education are included in the Annual Reports, there are 170 reports which separate the Federal funding of elementary from secondary general (or non-vocational)



^{*} See page 3 for detailed information on <u>Digest of Educational</u>
<u>Statistics.</u>

^{**}See page 2 for detailed information on <u>Vocational and Technical</u> <u>Education Annual Reports</u>.

education.* These funds are treated as a single category in State reports. Considerable research would be required to derive the bases for this comparison.

B. Federal Funding for Post-Secondary Vocational Education

Determining the Federal funding to junior or community colleges for vocational education is difficult. In many areas, junior or community colleges serve the dual functions of providing the freshman and sophomore years of college and also providing non-degree vocational training, usually of two years or less duration. Surveys such as the Higher Education General Information Survey (HEGIS), contain information on junior colleges but do not separate the vocational education programs.** Reporting is difficult because each State implements Federal post-secondary vocational education programs differently. Among other locations, training may be administered by junior colleges, high schools, part-time or night schools, factory or on-the-job training programs, and regional vocational centers.

C. Interpretation of Statistical Tables in Office of Education

Researchers should exercise care when interpretating statistical

data reported in Office of Education documents. The Digest of

Educational Statistics and the Vocational and Technical Education

Annual Reports contain statistics on Federal vocational funding which



^{*} Information on the <u>Annual Reports</u> may be obtained from Mr. Albert Munse, Specialist on Federal Funds for Education, the Reference, Estimates, and Projections Branch, Division of Statistical Information and Studies, NCES

^{**} HEGIS is coordinated by Mr. T. Drews, Higher Education Surveys Branch, Division of Survey Planning and Analysis, NCES.

appear to contradict each other, as indicated by the following tables which report Federal expenditures on vocational education for Fiscal Year 1966. Total expenditures in Table 18 from the <u>Annual Report</u> are reported to be \$233,793,671. Table 39, in the <u>Digest</u>, reports that total expenditures are \$138,326,000 for this same year.

In the 1966 Annual Report, Table 18 gives "Total Expenditures for Vocational - Technical Education from Federal and Matching Funds for Fiscal Year 1966." The total amount of Federal money (\$233,793,671) represents the actual amount of money spent by the States on vocational education programs operated during that fiscal year. Since State vocational education programs are partially funded by the Federal Government on a reimbursement basis, some of the payments for the State programs are made to the States after the end of the fiscal year. Even though some of this money is reimbursed after June 30, the amount are still reported by the States as expenditures for Fiscal Year 1966. Understanding the reporting system is necessary and important when an attempt to interpret seemingly similar figures is reported in the Digest of Educational Statistics.

In the 1969 <u>Digest</u>, Table 139 reports "Office of Education expenditures by legislative program: Fiscal Years 1960 to 1970."

Under the legislative program, Vocation1 Education, the total Federal money expended for Fiscal Year is \$138,326,000 (which is often erroneously compared with the <u>Annual Report</u> figure \$233,793,671).



The <u>Digest</u> is reporting Federal outlays to the States during Fiscal Year 1966 for their expenditures on vocational education programs.

The money could have been spent by the State during the Fiscal Year 1965, but since it is being paid by the Treasury Department in Fiscal Year 1966, it is considered in the table as a Fiscal Year 1966 expenditure. If this sum were being accounted for in an <u>Annual Report</u>, some of it would have been identified as a Fiscal Year 1965 expenditure.

Problems in attempting to collect meaningful data on Federal, State and local expenditures include a lack of precise definitions of program categories, comprehensive data on specific program formats such as junior college involvement in post-secondary vocational education, and different and incompatible systems of reporting and interpreting statistical tables. Other data must be obtained from State (and/or local) sources, and common formats in these areas are not available. By exercising care and caution, however, the researcher can discover considerable baseline data within an area of concern.

TOTAL EXPENDITURES FOR VOCATIONAL-TECHNICAL EDUCATION-FROM FIDERAL AND MATCHING FUNDS FISCAL YEAR 1966

State	Grand	Federal 1/	S	tate and Local	
	Total		Total	State	Local
(1)	(2)	(3)	· (4)	(5)	(0)
Total	\$ 799,894,562	\$ 203,793,671	\$ 500, 100, 888	\$ 216,582,611	\$319,518,2
Alabama	18,064,457	4,357,068	13,707,389	6,364,139	7,343,2
Alaska	669,602	298,176.	371,126	187,455	183,9
Arizona	6,171,756	1,974,460	4,200,296	1,905,638	2,291,6
Arkinsas	9,157,514	3,286,088	5,871,426	3,162,371	2,709,0
California	61,067,992	16,598,470	44,469,522	913,647	13,655,8
Colorado	6,194,046	2,285,067	3,908,979	434,674	3,474,3
Connecticut	9,539,918	2,387,591	7,152,326	6,316,481	835,8
Delavare	.2,444,590	616,047	1,828,543	1,633,720	194,8
Florida;	30,865,945	6,865,121	24,000,824	5,561,352	18,439,4
Georgia:	19,720,627	6,735,082	12,985,545	5, 267, 122	7,718,4
lawa11	2,701,817	981,337	1,720,480	1,720,480	, , , , ,
daho	2,938,527	1,108,562	1,827,964	681,536	1,146,1
Illinois	25,461,226	9,850,609	15,610,617	4,719,807	10,890,8
Indiana	. 16,041,025	5,587,019	10,454,806	1,754,664 723 628	8,700,1 4,150,2
owa	8,276,643	3,402,756	4,873,892	723,628	4,130,2
ansas	7,960,435	2,866,961	5,093,474	909,263	4,184,2
entucky	13,587,458	5,265,644	8,321,814	6,528,113	1,793,7
ouisiana ·	14,403,915	5,133,643	9,270,272	644,073	8,626,1
laine	2,658,676	1,079,630	1,579,046	1,103,453	475,5
aryland	14,604,852	3,397,093	11,207,759	5,531,651	5,670,1
assachuse tts	26,436,835	5,138,397	21,298,438	7,835,149	13,463,2
lchigan	32,320,855	9,580,194	23,240,662	3,062,570	20,178,6
innesota	16,768,678	4,709,329	12,059,349	4,105,497	7,953,8
lississippi Issouri	11,222,472 17,595,860	4,326,586 5,463,983	6,896,886 12,131,877	2.714,491 1,188,694	4.182,3 10,943,1
lontana				220 249	1,167,3
lebraska	2,437,814 4,389,810	971,109 1,944,232	1,465,705 2,445,578	229,348 495,095	1,950,4
avada	1,763,229	580,825	4,182,404	336,960	3,845,4
lew Hampshire	3,939,962	848,715	3,091,247	736,065	2,355,1
ew Jersey	19,566,298	6,190,533	13,375,766	5,731,221	7,614,5
ew Mexico	3,949,576	1,497,711	2,451,865	222,938	2,223,9
ew York	77,888,793	17,136,323	60,752,470	29,551,895	31,200,5
oren Carolina	29,676,238	8,363,181	21,313,057	14,185,665	7,127,3
orth Dakota	3,404,278	1,250,842	2,153,436	910,187	1,243,2
hio	33,122,610	11,000,475	22,122,135	9,945,520	12,175,6
klahoma	13,056,422	3,733,447	9,322,975	1,100,000	8,222,9
regon	8,046,195	2,297,684	5,748,511	2,501,451	3,247,0
ennaylvania	42,076,214	12,558 131	29,508,082	8,867,144	20,640,9
hodo Island outh Carolina	4,044,023 12,877,211	1,151,665 4,397,849	2,892,358 8,479,362	2,312,673 4,696,278	579,5 3,783,0
outh Dakota					
cnnessee	2,873,488 16,981,048	1,079,740 6,147,642	1,798,748 10,833,406	249,887 5,423,469	1,548,8 5,409,9
exas	54.406,382	14,008,845	40,397,537	28,469,906	11,927,6
tah	5,989,616	1,425,757	4,563,859	178,753	4,385,10
ermont	2,108,453	628,811	1,479,642	012,677	506,09
irginia	19,437,087	5,655,911	13,781,176	5,396,075	7,385,10
ashington	14,376,844	3,593,541	10,783,303	3,677,383	7,105,92
est Virginia	8,040,799	2,902,203	5,138,596	797,457	4,341,13
isconsin yoming	19,761,218	5,119,501	14,641,717	5,476,659	9,165,05
	1,713,274	591,756	1,121,518	65,414	1,056,10
ist of Columbia unm		748,318	903,449	903,449	
	182,820	80,902	101,918	101,918	
uerto Rico	11,552,307	4,531,747	7,020,560	7,020,560	

NOTE: Because of rounding, detail may not add to totals.



Wocational Education A.t of 1963, Smith-Hughes and George-Barden Acts

Table 129.—Office of Education expenditures, by legislative program: Fiscal years 1960 to 1970

[In thousands of dollars]

Exercises processions development.	Vocational education curriculum development Appalacitar, Regional Development Act Vocationar research. Consumer and homemaking education.	work-study programs Cooperative education Innovative programs in vocational education National advisory council Transfer to Department of Labor for manpower projections and studies. State advisory council	Vocational Education Act of 1963 George-Barden and supplemental acts Smith-Hughes	Vocational education	Title III. College construction loans. Construction loans interest subsidization.	Other under graduate facilities State administration and planning Major disaster a gas. Title II Conduct failing	Title I. Public community colleges and factorical institutor	Special services for disadvantaged—Upward Bound. Higher Education Facilities Act	Television and other equipment	Title V. National teacher corps. Title VI. Undergraduate instructional assistance:	Work-study program Insured toans Student loans insurance fund	Acquisition and cataloging by Library of Congress. Title III. Strengthening developing institutions. Title IV. Student assistance: Found proporting the standard of the sta	2 Library inprovement Library training	Title Title	nigher couragon Act.	Construction.	School assistance in federally affected areas.	Title VI. Bilingual education Title VII. Disposit prevention	Title II. Library resources. Title VII. Supplementary education centers. Title V. Strengthening State departments of education 2.	Title I. Educationally deprived children	Tetal.		Legislative program
8, 683		4,140	538, 021 7, 150	45, 179												174, 850 83, 348	258, 198		201	811	\$455,936	2	1960
12,750		9,2/2	5 41, 497	47, 769												207, 749 71, 033	278, 782		1 095	1, 095	\$527,654	ω	1961
13, 893		1, 14/	\$44, 615	51. 762												226, 419 56, 490	292, 909	3,	1 247	1,247	\$547,610	-	1962
14, 237			:	55 176					-							276, 869 66, 242	343, 111	., 45	3	1, 521	\$635,602	5	1963
13, 969		7, 107	5 47, 386 + 121, 190	503												283, 686 50, 601	334, 289	, 9	CAO	1, 648	\$676,735	61	1964
36, 679	471	2, 137	121, 190	131 525	1,700	1,288	2,988				22, 569				22, 569	311, 413 38, 258	349, 671	2,714	3	1,712	\$876,591	. 7 .	1985
42, 147	2,547 7,311	4, 185 10, 072	1 136, 326 1 114, 211	305	4, 220 50, 892	14, 097 34, 642 1, 675	105, 526	10		362	30, 634	300		3, 926	35, 232	353, 851 55, 742	409, 593	11, 209	746, 904 47, 871 10, 938	816, 982	\$2,032,584	80	1966
56, 407	6, 669 17, 122	6, 300 11, 097	175, 406 33, 360	260 054	13, 978 81, 042	58, 152 121, 475 2, 115	276, 762	-	20, 523	12 521	50, 916 106, 263 15, 934	3,478 4,919	5,3 5,380 5480	14,774	245, 046	399, 858 47, 216	447, 074	28, 121	1, 056, 621 92, 505 74, 961	1, 252, 211	\$3,0 98 ,0 8 9	9	1967
60, 271	3	6, 263 5, 027	207, 573	250	37, 970 101, 719	80, 202 236, 861 5, 066	461, 965	2,497	5,415	16 21	103, 104 111, 812 28, 947	ií, 381 5, 478 22, 428	3,906 3,906	9, 897	365, 884	470, 887 35, 485	506, 372	7, 867	1, 049, 116 91, 054 161, 256	1, 335, 590	\$3,629,408	10	1968
74, 163	3	6, 968 6, 577	192, 928 36, 000	3, 320	34,000 97,275	50, 000 191, 000 7, 100	384, 895	4, 600	10,651	10,-15 15,543 1000	127, 922 137, 100 51, 338	8,203 5,500 28,000	(3) 478	9, 134	403, 469	370, 474 34, 229	404, 703	25, 609 24, 443 1, 500	1, 021, 682 62, 202 157, 638	1, 295, 074	\$3,472,588	11	1969 1
108,090	1, 680 1, 000 9, 500	, 5,500 5,500 200 200	261, 080 224, 539	10,070	31, 800 86, 827	75, 900 217, 078 6, 750	429, 401	4,200 1,500	12, 200	12, 976	133, 787 147, 800 117, 319	8, 284 7, 356 29, 600	24, 522	9. 500	533, 297	399, 953 54, 985	454, 938	30, 256 26, 520 7, 500 9, 600	1, 107, 824 54, 407 174, 279	1,410,386	\$3,867,676	12	1970 1
							*				•					•						•	

IV. PRIVATE VERSUS PUBLIC VOCATIONAL EDUCATION

Private vocational school capabilities for motivating and training disadvantaged persons has been reported in Private Vocational Schools and Their Students: Limited Objectives, Unlimited Opportunities.

The author, Dr. A Harvey Belitsky, maintains that private vocational schools are more effective than public ones for teaching saleable skills. This conclusion is based on his own experience, on detailed questionnaire sent to private vocational schools offering occupational courses, and on information from members of the National Association of Trade and Technical Schools. Approximately 1,200 schools responded. The major suggestions of this book may be summarized as follows:

State departments of education should encourage local school systems to undertake joint ventures with private vocational schools; greater attention should be given to the needs, aspirations, and capacities of public school students who fail to receive counseling or are miscounseled by the parents and others; the National Vocational Students Loan Insurance Act should be liberalized and more effective use should be made of the 1968 Vocational Education Amendments that have expanded the original program of vocational education legislation; except for education curricula that are traditional or easily incorporated, public schools should concentrate on improving and maintaining general education for all students at the highest possible level; private vocational schools should raise the levels of sophistication in many of their courses; voluntary accreditation of private vocational schools should be encouraged; private vocational school should expand their enrollments to allow for increased training of disadvantaged persons; the flexibility of the schools should be more fully exploited; the U. S. Office of Education should publish biannually a national directory or private vocational schools.



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^{*} W. E. Upjohn Institute for Employment Research.

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FUTURE VOCATIONAL EDUCATION DATA SOURCES

The Office of Education is funding several projects which, when completed, should be useful for Vocational Education Research because:

they reveal areas in which useable, comprehensive data does not yet exist; and (2) summary reports will indicate future directions pop for data collection and formats. The second sec

A. Project METRO

Max U. Eninger, of Educational Systems Research Institute in Pittsburgh, Pennsylvania, is currently under contract from the Office of Education to gather follow-up information on vocational education high school graduates from the in selected cities. For Project METRO, the major data source the responses to questionnaires completed by two groups of vocational education high school graduates: about 7,000 who graduated in 1968 from high schools in 13 major U. S. cities; and about 40,000 who graduated in 1970 from high schools in 22 major U. S. cities. Information will cover such areas as the characteristics of the graduates, teachers and schools, and the graduate's occupational category, relatedness of that job to vocational education training, and and in binancial return. In the second of a

Although preliminary data from the 1968 returns are available now, the final report will be published in 4 volumes with the first volume due in December of 1970 and the final volume due in June of 1971. Further information can be obtained from either the Educational Systems Research Institute or from the Department of HEW. (Contact Officer Carl Wisler, Room 4089A, Office of Education, #962-7081).

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Margaret Water

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B. Vocational Education: Characteristics of Teachers and Students

The objectives of this survey, recently completed but not yet published by the National Center for Educational Statistics (NCES), were: to gather information on the background and teaching loads of vocational education teachers; to gather information on the personal characteristics and future plans of vocational education students; and to develop a technique for surveying teachers and students that could later be applied in greater depth at Stae and local levels.

Data were collected by a survey of teachers and students in 47 states and the District of Columbia. Information on the professional qualifications and teaching experience of teachers is examined in relation to other characteristics and to types of vocational programs taught. Information on students includes individual and family characteristics, program, labor force activity, as well as plans for the future. By January 1, 1971, this report will be available from the Government Printing Office under catalogue number HE5.280:80073. No price has as yet been set.

C. <u>Directory of Public Institutions Offering Vocational Education</u> <u>Directory of Private Institutions Offering Vocational Education</u>.

Directories of public and private (nonprofit and proprietary) institutions offering vocational education will be developed by the National Center for Educational Statistics during FY 71. These directories will provide (1) overall information on the number, size of enrollment, type of programs, and general characteristics of these schools; and (2) a universe which may be used for sampling purposes to meet key information priorities. Then published, these directories may be purchased from the U.S. Government Printing Office.

D. An Evaluation of the Effectiveness of Vocational and Technical Education in the United States.*

The final report of this ongoing project will analyze economic benefits of vocational education at the secondary, post secondary (non-college), and two year college levels, as well as provide a detailed follow-up of junior college graduates.

The general objective of the study was to provide evaluative data and an analysis of the effectiveness of vocational and technical education in the U. S. that will: (1) provide baseline data against which progress can be measured in the future years; (2) reflect the early influences of the Vocational Education Act of 1963; (3) generate implications for the improvement of the quality of vocational education; and (4) provide information which will be useful for additional follow-up surveys of the same respondents, for subsequent cost-benefit studies. A sample of drop-outs from vocational programs was also included as part of the analysis.

In addition to the detailed follow-up evaluation of junior college graduates, the final report will include the following data and analyses:

- (1) detailed cross-tabulations relating to non-economic benefits, attitudes, and academic attainment. These cross-tabulations and correlations will be similar to those developed for junior college graduates and will permit a comparative analysis of characteristics and attitudes of graduates of vocational high schools, post-secondary vocational schools and junior colleges. Emphasis will be placed on the results in various types of vocational and technical programs at each of these levels.
- (2) Data obtained from school administrators of the size of enrollment, the urban-rural setting, and the grade point average of the graduates will be utilized in the cross-tabulations and multi-variate regressions in order to assess their significance and influences on student attitudes and economic experience.
- (3) Separate analyses will be made for a sample of drop-outs from high school and post-secondary programs and thes results will be compared with similar analyses for graduates in the various occupational and school levels.

^{*}Somers, G.G.: Fernbach, S.; Sharpe, L. An Evaluation of the Effectiveness of Vocational and Technical Education in the United States (Madison, Wisconsin: University of Wisconsin, Center for Studies in



(4) Detailed analyses will be made of the availability of cost data by school level, type of program, size of school, and urban-rural setting of school. Some limited data also will be provided on actual costs of vocational education, gatheres primarily from secondary sources; and these limited cost estimates will be used to draw inferences as to cost-benefit ratios for vocational and technical offerings in various programs and school levels.

E. <u>Association for Educational Data Systems (AEDS) Educational Information Projects.</u>

The AEDS Educational Information Project has conducted surveys of each of the 50 states departments of education to determine whether they maintain certain data items. Mrs. Cora Beebe, Planning and Evaluation Group, Office of Education, coordinates the activities of this project with the contractor, Dr. W.G.Katzenmeyer of Duke University, who currently is writing the final report and anticipating completing it the last of 1971.

The AEDS project is attempting to determine whether the states maintain certain kinds of data, how often they collect these data and how long and in what form they maintain the data. Each state department of education provided answers to questions in six major categories, each of which contained 156 items of information. The six major categories are: (1) staff; (2) staff assignments; (3) pupils; (4) finance; (5) school; and (6) school facilities. The following survey questions provided details for each of the 156 items of educational information contained in each of the six major categories: form in which the State maintains the data (Hard copy) punch card, magnetic tape, disc); number of years that the State has maintained the data in its current form; type of computer equipment used; whether the state stores the item name, the item name as a code, or as a combination of the two; frequency of collection of the data item; level of aggregation (pupil, classroom, school building, educational agency, school district, State, other); type of schools for which the State maintains data (public only, or public and non-public); and the educational range for which the State maintains data.

Many data items pertinent to vocational education appear in the AEDS survey. In the second major category, staff assignments, the AEDS project examines whether the States keep information on instructors at area vocational schools, and if they keep



information on whether instructors at any school have vocational or non-vocational assignments. Unfortunately, the third major category, pupils, does not contain any references to vocational education courses, meaning that the AEDS survey cannot answer the question as to whether a State has records of pupil enrollments in vocational education courses, much less how they define a "vocational educational student." The fourth major category, finance, determines whether the State keeps data on vocational educational funds received from the Federal government under the Vocational Education Act of 1963, the George-Barden Act, and the Smith-Hughes Act. The sixth major category, school facilities, necessitates that the States indicate if they keep records on whether a school building houses a vocational or trade high school.

The AEDS Educational Information Project provides basic information for enabling more effective planning and analyses of educational requirements. It could also prove useful in an effort to provide monitoring of State uses of monies provided by the Federal Government for education.

F. Census Data for School District.

Dr. William Dirfman of NCES monitors a project which will become operational in October 1971.* This project will provide much more detailed information about school districts than that currently available. It will entail providing each U.S. school district with a correlation code that will make it possible to identify the census geographis unit(s) of its location, and to make use of 1970 cnesus data in identifying more precisely the characteristics of school districts and their populations.

A school district "universe" study will comprise an important part of formulating the system of census unit-school districts in the United States with student populations greater than 300, approximately 11,700 districts.* According to Dr. Dorfman, of these 11.700 districts, 2000 qualify as co-terminous, meaning that counties or cities have the same boundaries as school districts. Each of the 11,700 school districts included in the "universe" study will have a census correlation code assigned.



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^{*}Dr. William Dorfman is Chief, Statistical Systems Branch, Division of Statistical Information and Studies, NCES.

When the 1970 Census Summary Data tapes become available in September 1971, the Office of Education will make use of these tapes and the school district census compatible codes to make tabulations of census data correlated with school districts. This will produce census geographic unit totals of various kinds within school system boundaries. When school district boundaries and census geographic units do not coincide, this future system will have the capability of providing the proportion of students affiliated with the different districts involved.

Apparently the School District "Universe" study will also consist of ELSEGIS (see page 15) expanded to include 11,700 school districts, each with a census-compatible correlation code for assessing basic census information available on the public census data tapes.

G. Census Information on Vocational Education.

By 1972, the NCES in the Office of Education should have results of a follow-up census polling begun by an original 5% sample that responded "Yes" to the 1970 census question: "Has this person ever completed a vocational training program?" Results of the follow-up polling, obtained by again interviewing a sample of 1500 households of the original 5% sample, will become available only on the State level, according to Dr. Dorfman, and will not include school district information.

Information obtained in the follow-up polling will include the pollee's age, sex, and race. For persons 18 to 64 years old with less than three years of college who did not enroll in school, the follow-up will determine: employment status (i.e., if the person belongs to the civilian labor force, employed, or unemployed, or if the person does not belong to the civilian labor force). For those employed, the follow-up study will contain detailed information about the nature of employment of the vocationally trained person (e.g., professional, sales workers, clerical, etc.), and will indicate his or her 1969 earnings. The follow-up questionnaire will also ask the pollee to indicate the main subject in which he or she has received vocational



^{*}John P. Sietsema and Beatrice O. Mongello, Elementary and Secondary Surveys Branch, U.S. Department of Health, Education, and Welfare, Office of Education National Center for Educational Statistics, Education Directory: Public School Systems, 1969-70, OE-20005-70, p. 6.

instruction, the kind of school at which he received the training, and the school's usefulness in helping him get a job.

H. Program Reference File (PRF).*

To supplement the Public School "Universe" Survey data base for the school years 1969-1970 and 1970-1971, the PRF will provide a supplemental data source, stored on magnetic tape, compatible with the existing School "Universe" file design. It will be possible to derive information from the School "Universe" tape and the PRF by combining the two in the appropriate computerized context. The following tables show the input form for updating the School "Universe" data base (ELSEGIS, Part C, School Data), and the tape layout. Following these are the input form for the PRF and the corresponding tape layout.

Examination of the PRF input form revealed that the PRF contains much more material directly relating to vocational education than the School "Universe" survey itself. The PRF input form provides for each public and elementary school in the United States to respond to questions about the size of the population center of the school's location, e.g., "large city, over 500,000 population," ranging to "rural area, not near a large or middle-size city." Further, the PRF input form itemizes "Vocational Education Title I" into nine different functional categories, with spaces for each school to respond to which grade levels participate in operational programs described by the functional categories of the Vocational Education Title I.

I. Consolidated Program Information Report (CPIR).

The Program Planning and Evaluation Group of the Bureau of Elementary and Secondary Education (BESE) had initiated a study known as the Consolidated Program Information Report (CPIR). For fiscal year 1969, CPIR will provide various data for making national projections for actual spending on public elementary and secondary students by school districts, based on reports from 700 school districts, and keyed to the exact statue sources of Federal education dollars, e.g., Elementary



^{*}For tapes and print-outs of PRF data, contact Mr. A. Simms, Assistant Division Director, Division of Survey Planning and Analysis, Room 2177, Office of Education, FOB 6, Washington, D.C. (Phone 962-7574).

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE OFFICE OF EDUCATION WASHINGTON, D.C. 20202

O.M.B. NO. 51-R0681 APPROVAL EXPIRES: 9/30/71

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OFFICE OF EDUCATION/STATE EDUCATIONAL AGENCY EVALUATION SYSTEM PROGRAM REFERENCE FILE, SCHOOL REPORT

1970-71 SCHOOL YEAR

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MENTAL PROGRAM INFORMATION

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(A child may be counted more than once)

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and Secondary Education Act Title I. The fiscal year 1970 version of CPIR will contain state-by-state projections of how much money the states actually spent from the Federal funds for education given them, including the ways in which they spent it. On October 1, 1970, the CPIR contractor, National Computer Systems in Minneapolis, submitted the preliminary results for fiscal year 1969 CPIR to Mr. J. Donohue, Assistant Chief of Evaluation Operations with the Program Planning and Evaluation Group of BESE. The Planning and Evaluation Group has results for the CPIR Study in computer print out form and can certify that the computer print outs contain correct, final numbers; however, since the information has not been published in official book form, the personnel responsible for the project must not "release" this information.

The input form for fiscal year 1969 CPIR contains only a one line reference to vocational education information regarding such facets as enrollment and funding sources: "Vocational skills and attitudes." In Part II of the input form, "Program Expenditures," a column heading labeled "Vocational Education Acts (Elementary and Secondary)" provides the primary CPIR reference to formal legislation on vocational education, and the CPIR instruction manual defines "Vocational Education Acts" as the Vocational Act of 1963, the Smith-Hughs Act, and the George Barden Act. Part III of the CPIR input form provides for reporting in detail the amount of Federal vocational education funds expended. Table I shows the itemization of the Federal Vocational Education Act requirements of each school district filling out the CPIR input form.

VI. SUMMARY

This report has documented the major data and information reports in the vocational education field. No effort at completeness was attempted, although an accurate assessment of Federal data collection activities emerges from this catalogue. Since the needs of researchers and planners determines the usefulness of information, reviewing the many sources may provide insight on future activities in the area of vocational education.



APPENDIX



information system designed and supported by the U.S. Office of Education for providing ready access to results of examplary programs, research and development efforts, and related information that can be used in developing more effective educational programs. Through a network of specialized centers or clearinghouses, each of which is responsible for a particular educational area, current significant information relevant to education is monitored, acquired, evaluated, abstracted, indexed, and listed in ERIC reference products.

To enable researchers to obtain abstracts and full texts of documents, ERIC has established the ERIC Document Reproduction Service (EDRS). EDRS supplies copies of these documents in two forms:

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