

DOCUMENT RESUME

ED 103 647

CE 003 249

TITLE Trends in Vocational Education FY 1973.  
INSTITUTION Bureau of Occupational and Adult Education (DHEW/OE),  
Washington, D.C. Div. of Vocational and Technical  
Education.  
PUB DATE Jun 74  
NOTE 30p.; For related documents see CE 003 246-250  
EDRS PRICE MF-\$0.76 HC-\$1.95 PLUS POSTAGE  
DESCRIPTORS Educational Change; Educational Trends; \*Enrollment  
Trends; \*Expenditures; National Surveys; State  
Programs; Statistical Data; \*Tables (Data); Teacher  
Education; Trend Analysis; \*Vocational Education;  
\*Vocational Education Teachers

ABSTRACT

The document includes tables and graphs showing trends in enrollments (Section 1), expenditures (Section 2), and teachers (Section 3) for the United States and outlying areas. Statistical information was derived from annual reports published by the Division of Vocational and Technical Education and unpublished data compiled by the Program Support Branch from State annual reports and State plan projections. Generally, the actual data, showing trends, cover fiscal years 1971-73, with other selected fiscal years for comparison, while the projected data are for FY 1978. Data indicate that vocational education has grown significantly, particularly after the Vocational Education Amendments of 1968. The full impact of the Act was not apparent until FY 1971, since funds first became available late in FY 1970. In addition to expansion in enrollments and increased expenditures, positive changes have occurred in the quality and scope of vocational programs. New facilities and equipment have been provided, curriculums updated, and improved reporting systems are being developed. (Author/MW)

ED103647

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION

THIS DOCUMENT HAS BEEN REPRO-  
DUCED EXACTLY AS RECEIVED FROM  
THE PERSON OR ORGANIZATION ORIGIN-  
ATING IT. POINTS OF VIEW OR OPINIONS  
STATED DO NOT NECESSARILY REPRESENT  
OFFICIAL NATIONAL INSTITUTE OF  
EDUCATION POSITION OR POLICY.

## FOREWORD

This document, the second in the "Vocational Education Information" series for fiscal year 1973, includes tables and graphs to show trends in enrollments (Section I), expenditures (Section II), and teachers (Section III) for the United States and outlying areas.

Statistical information was derived from annual reports published by the Division of Vocational and Technical Education and unpublished data compiled by the Program Support Branch from State annual reports and State plan projections. Generally the actual data, showing trends, cover fiscal years 1971-73, with other selected fiscal years for comparison, and the projected data are for fiscal year 1978.

Several changes have occurred during the period in the vocational education reporting system. Consequently, compatible data are not always available. Where adjustments have been made so that data are compatible, explanations are included in the text or in the tables.

The tables and graphs show that vocational education has experienced significant growth, particularly after the Vocational Education Amendments of 1968. The full impact of this Act was not apparent until fiscal year 1971, since funds first became available late in the 1970 fiscal year. In addition to expansion in enrollments and increased expenditures, positive changes have occurred in the quality and scope of vocational programs. New facilities and equipment have been provided, curriculums have been updated, and improvements in the reporting system are developing.

This information on trends should be useful to all persons interested in the nature and scope of vocational education in the United States, and particularly to those individuals involved in program administration.

ORIEANNA C. SYPHAX  
Acting Director  
Division of Vocational  
and Technical Education

June 1974

## CONTENTS

|   | Page |
|---|------|
| Foreword . . . . .  | i    |
| Section I. Vocational Education Enrollments . . . . .       | 1    |
| Section II. Expenditures for Vocational Education . . . . . | 13   |
| Section III. Teachers in Vocational Education . . . . .     | 21   |

### Figures

|   |    |
|---|----|
| 1. Total Enrollments, Vocational and Technical Education<br>(With Legislation Providing Federal Support to<br>Vocational Education, 1917-1973). . . . . | 3  |
| 2. Total Enrollments in Vocational Education, 1965-1973 . .   | 4  |
| 3. Expenditures for Vocational Education, by Source of<br>Funds, 1965-1973 . . . . .  | 16 |
| 4. Teachers of Vocational Education, by Level, 1965-1973 . .  | 22 |
| 5. Enrollments in Teacher Education, 1965-1973 . . . . .  | 25 |

### Tables

|  |   |
|--|---|
| 1. Enrollments in Vocational Education, by Level and<br>Target Group, 1971-1978 . . . . .    | 5 |
| 2. Secondary Enrollment in Vocational Education<br>(Grades 9-12), 1971-1978 . . . . .        | 6 |
| 3. Percentage Distribution of Enrollment by Occupational<br>Program, 1971-1978 . . . . .     | 7 |
| 4. Percentage Distribution of Enrollment by Location,<br>1971-1978 . . . . .                 | 7 |
| 5. Percentage Distribution of Total Expenditures by<br>Location, 1971-1978 . . . . .         | 7 |
| 6. Enrollment in Vocational Education by OE Instruc-<br>tional Programs, 1971-1978 . . . . . | 8 |

|  | Page |
|--|------|
| 7. Total Expenditures for Vocational Education, by Source of Funds, 1971-1978 . . . . .                    | 15   |
| 8. Total Expenditures for Vocational Education, by Function, 1971-1978 . . . . .                           | 17   |
| 9. Expenditures from the Vocational Education Act of 1963, as Amended, by Purpose, 1971-1973 . . . . .     | 18   |
| 10. Expenditures for Vocational Education, by Level and Source, 1971-1978 . . . . .                        | 19   |
| 11. Total Expenditures for Vocational Education, by Target Group and Level, 1971-1978 . . . . .            | 19   |
| 12. Number of Area Vocational Schools and Expenditures for Construction of Facilities, 1971-1978 . . . . . | 20   |
| 13. Expenditures for Vocational Work-Study Programs, 1971-1978 . . . . .                                   | 20   |
| 14. Expenditures for Cooperative Education Programs under Part G . . . . .                                 | 20   |
| 15. Teachers of Vocational Education, by Level, 1971-1978 . .  | 23   |
| 16. Enrollments in Teacher Education, 1971-1978 . . . . .  | 23   |
| 17. Teachers of Vocational Education, by Program, 1965-1973 . . . . .                                      | 24   |

## SECTION I. VOCATIONAL EDUCATION ENROLLMENTS

Figures 1 and 2 picture the growth of vocational education enrollments for selected periods. Figure 1 traces enrollment trends from 1918 to 1973, showing the influence of major legislation on enrollment growth. During the 55-year period, enrollments grew from 164,168 to over 12 million. Figure 2 charts the year-to-year changes in enrollments from 1965 through 1973. Large yearly increases in total enrollment occurred in 1965, 1967, and again in 1971. Yearly gains in total enrollment after 1965 were about 500,000 except for increases of about 1 million in 1967, 1970, and 1972 and 1.7 million in 1971.

Table 1 shows that total vocational education enrollments increased from 10,495,411 in 1971 to 12,072,445 in 1973 and is projected to reach 18,482,000 in 1978. The largest percentage increase for any one year was in 1971 when the increase was 19.4 percent. The comparative small rate of increase in 1973 was largely due to a reporting change in one State resulting in a reduction of about 300,000 in enrollment at the secondary level.

Table 1 also shows that the largest percent of the vocational enrollees are in secondary programs, an increase from 51.9 percent in 1965 to 62.3 percent in 1972. Postsecondary enrollment, only 3.8 percent of the 1965 enrollment, passed the 1-million mark in 1970 and currently remains at 11.2 percent of the total. Adult enrollment dropped from 43.8 percent of the 1965 enrollment to 26.4 percent in 1972. The 1978 projection forecasts a declining trend to 23.6 percent. The 1973 percentage distribution was distorted by the one State reporting change noted above.

The first year for reporting services to persons with special needs (disadvantaged and handicapped) was 1965, when 25,638 of these persons were enrolled in separate classes. The 1968 Amendments stipulated programs specifically for the disadvantaged and for the handicapped. Thus, starting in 1970, persons who are disadvantaged or handicapped, receiving special services, are reported separately in parenthesis ( ) but are included in the enrollment levels and the totals.

Table 2 compares secondary vocational enrollment to the total secondary enrollment (grades 9-12 only). Even though total secondary enrollment has stabilized, the number of secondary students enrolled in vocational education continues to increase. In 1973, 41.8 percent of the total secondary population (grades 9-12) was enrolled in programs of vocational education and at the present rate of growth is projected to reach 62.2 percent in 1978. When considering only vocational programs which prepare for gainful employment, enrollment in vocational programs increased from 24.3 percent in 1971 to 27.6 percent in 1973. The recent emphasis on prevocational programs has resulted in an increased number of junior high school enrollments. When relating total secondary vocational enrollments to total secondary population (grades 7-12), we find that 33.5 percent were enrolled, with 22.1 percent in gainful programs in 1973.

Table 3 shows the changing emphasis in vocational education programs. The proportion of students in agricultural production and consumer and homemaking has declined while trades and industry, distribution, health, and gainful home economics are proportionately greater.

Table 4 indicates that the proportion of total enrollment in Standard Metropolitan Statistical Areas has declined from 61.3 percent in 1971 to 57.7 percent in 1973. By comparison the share of expenditures in SMSAs has increased from 53.5 percent in 1971 to 57.4 percent in 1973 to almost balance the enrollment, shown in Table 5.

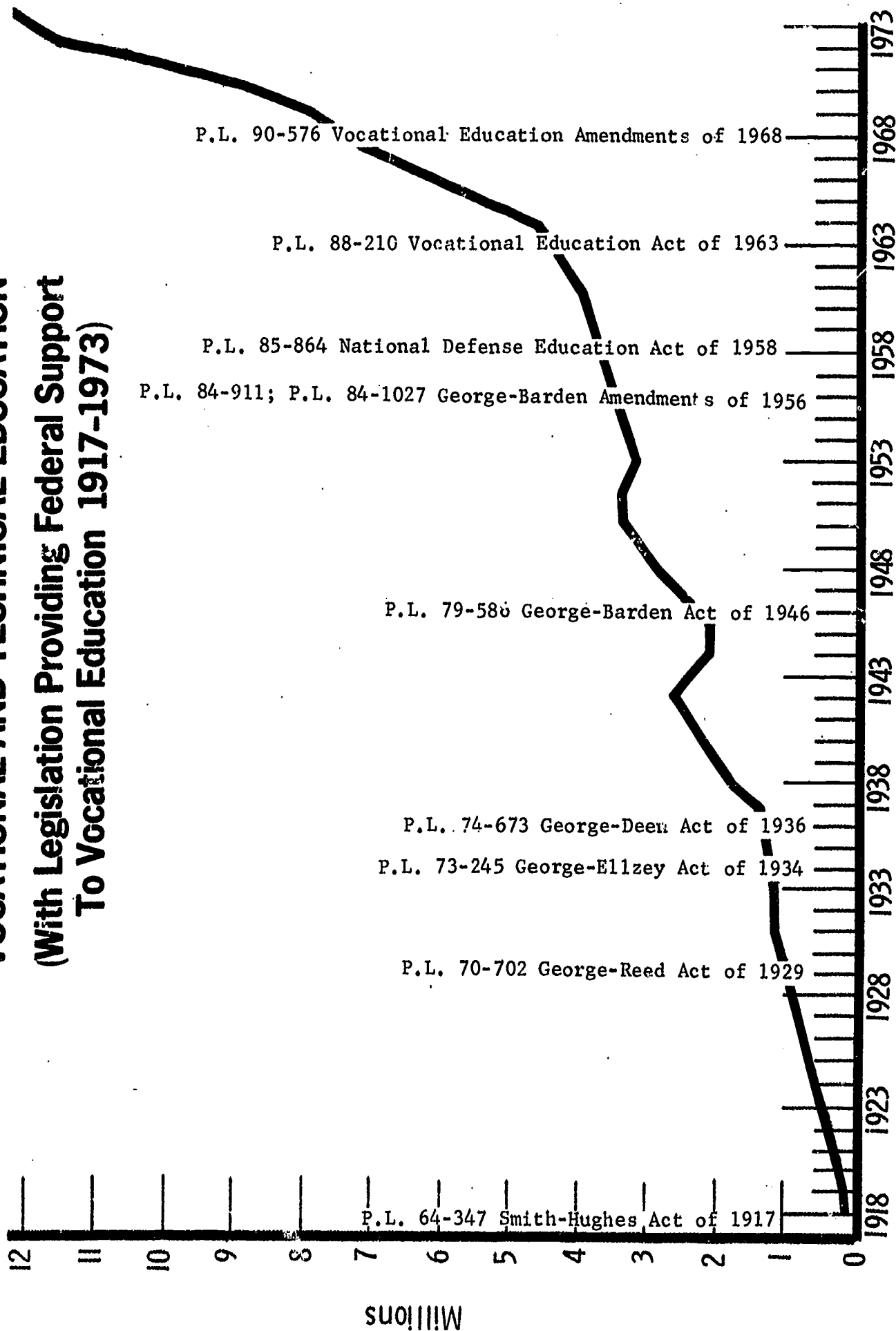
Table 6 shows the direction of growth in vocational education by OE instructional program. The occupational programs with the largest enrollment (over 100,000) are listed below:

| <u>Program</u>             | 1969                        |             | 1973          |             |
|----------------------------|-----------------------------|-------------|---------------|-------------|
|                            | (Prior to<br>63 Amendments) |             |               |             |
|                            | <u>Number</u>               | <u>Rank</u> | <u>Number</u> | <u>Rank</u> |
| Agricultural Production    | 645,377                     | 1           | 561,868       | 2           |
| Stenographic & Secretarial | 482,324                     | 2           | 606,065       | 4           |
| Typing and Related         | 458,714                     | 3           | 628,758       | 3           |
| Filing and Office Machines | 386,826                     | 4           | 429,644       | 5           |
| Metalworking               | 249,248                     | 5           | 316,573       | 7           |
| Accounting and Computing   | 249,209                     | 6           | 385,622       | 6           |
| Business Data Processing   | 134,723                     | 7           | 155,804       | 11          |
| Fireman Training           | 131,580                     | 8           | 209,190       | 10          |
| Auto Mechanics             | 126,372                     | 9           | 273,880       | 8           |
| General Merchandise        | 120,586                     | 10          | 239,168       | 9           |
| Prevocational              | -                           | -           | 954,461       | 1           |

Though not in the top eleven, the following programs attained an enrollment of over 100,000 in 1973: agricultural mechanics, drafting, real estate, foremanship, supervision, and management development, carpentry, electronics occupations, and electrical occupations.

The largest percentage increases in programs from 1971 to 1973 were in floristry, industrial marketing, recreation and tourism, medical laboratory technology, associate degree nurse, occupational therapy assistant, mental health technology, medical assistant, health aide, care and guidance of children, clothing management, home furnishings, institutional and home management, personnel, training and related, automotive technology, environmental control technology, air pollution technology, water and waste water technology, appliance repair, electrical occupations, fabric maintenance, maritime occupations, and small engine repair. The following programs decreased significantly in enrollment: advertising services, international trade, environmental health, business data processing, chemical technology, electrical technology, aviation occupations, industrial atomic energy, materials support, and commercial pilot training.

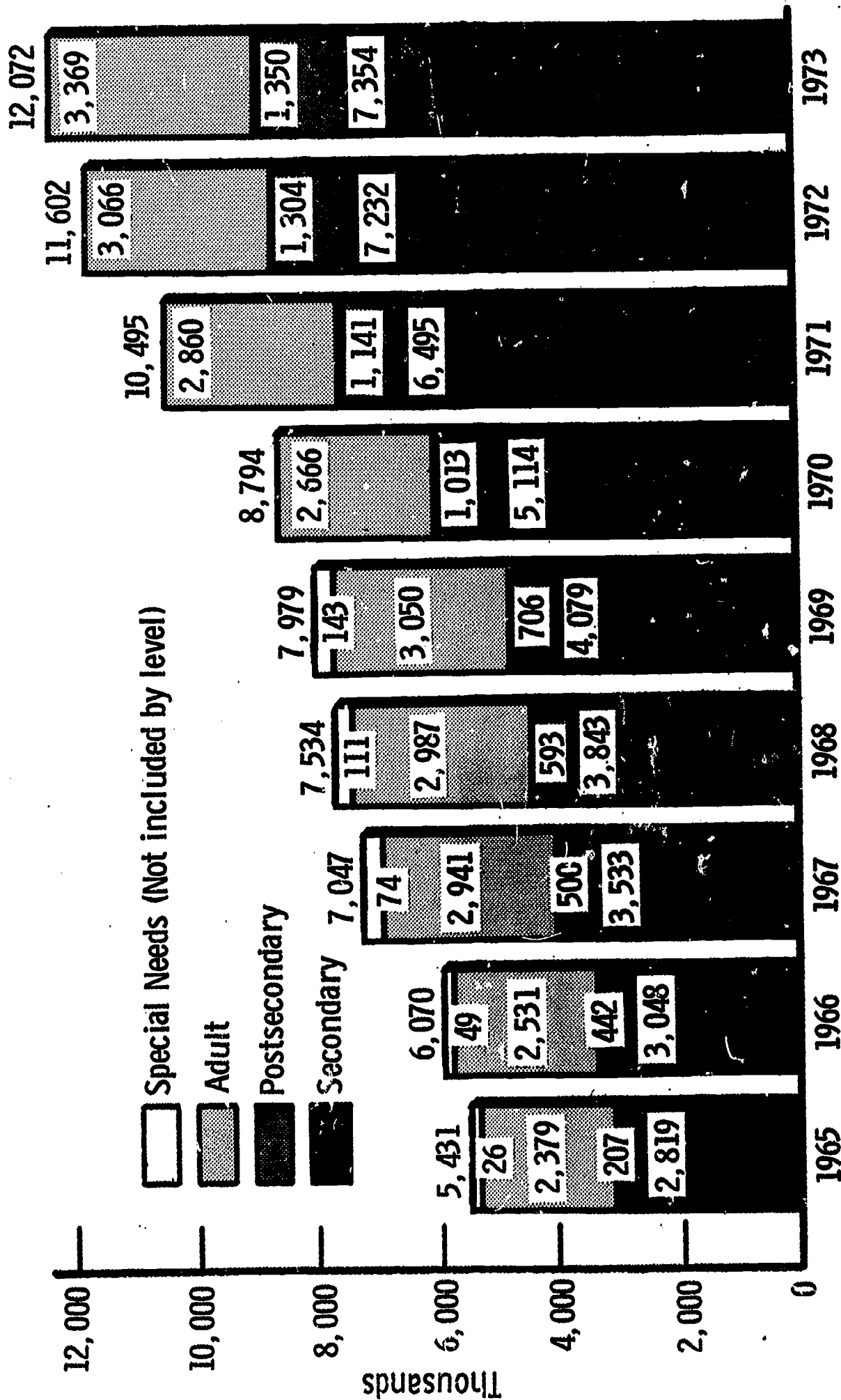
**Figure 1. TOTAL ENROLLMENTS  
VOCATIONAL AND TECHNICAL EDUCATION  
(With Legislation Providing Federal Support  
To Vocational Education 1917-1973)**



SOURCE: Annual Reports, Division of Vocational and Technical Education, 1918-1973.



**Figure 2: TOTAL ENROLLMENTS IN VOCATIONAL EDUCATION 1965-1973**  
(IN THOUSANDS)



SOURCE: Annual Reports, Division of Vocational and Technical Education, 1965-1973.

Table 1. ENROLLMENTS IN VOCATIONAL EDUCATION, BY LEVEL AND TARGET GROUP  
FISCAL YEARS 1971-1978

|   | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978</u><br><u>(Projected)</u> |
|---|-------------|-------------|-------------|-----------------------------------|
| <u>Number</u>                               |             |             |             |                                   |
| Total                                       | 10,495,411  | 11,602,144  | 12,072,445  | 18,482,000                        |
| Secondary                                   | 6,494,641   | 7,231,648   | 7,353,962   | 11,052,000                        |
| Postsecondary                               | 1,140,943   | 1,304,092   | 1,349,731   | 3,070,000                         |
| Adult                                       | 2,859,827   | 3,066,404   | 3,368,752   | 4,360,000                         |
| Disadvantaged                               | (1,414,437) | (1,616,621) | (1,601,634) | (2,458,000)                       |
| Handicapped                                 | (208,781)   | (221,342)   | (228,086)   | (405,000)                         |
| <u>Percentage Distribution</u>              |             |             |             |                                   |
| Total                                       | 100.0       | 100.0       | 100.0       | 100.0                             |
| Secondary                                   | 61.9        | 62.3        | 60.9        | 59.8                              |
| Postsecondary                               | 10.9        | 11.2        | 11.2        | 16.6                              |
| Adult                                       | 27.2        | 26.4        | 27.9        | 23.6                              |
| Disadvantaged                               | (13.5)      | (13.9)      | (13.3)      | (13.3)                            |
| Handicapped                                 | (2.0)       | (1.9)       | (1.9)       | (2.2)                             |
| <u>Percentage Change From Previous Year</u> |             |             |             |                                   |
| Total                                       | 19.4        | 10.5        | 4.1         | ---                               |
| Secondary                                   | 26.9        | 11.3        | 1.8         | ---                               |
| Postsecondary                               | 12.6        | 14.3        | 3.6         | ---                               |
| Adult                                       | 7.2         | 7.2         | 9.9         | ---                               |
| Disadvantaged                               | 75.6        | 14.3        | -0.8        | ---                               |
| Handicapped                                 | 81.1        | 6.1         | 3.1         | ---                               |

Table 2. SECONDARY ENROLLMENT IN VOCATIONAL EDUCATION (GRADES 9-12)  
FISCAL YEARS 1971-1978

|  | <u>1971</u>              | <u>1972</u>              | <u>1973</u>              | 1978<br>(Projected)      |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Total Secondary Enrollment                           | 13,597,000 <sup>1/</sup> | 14,100,000 <sup>1/</sup> | 14,242,000 <sup>1/</sup> | 14,400,000 <sup>2/</sup> |
| Vocational Education Enrollment                      | 5,111,273                | 5,622,777                | 5,953,962 <sup>3/</sup>  | 8,952,000                |
| Percentage in Vocational Education                   | 37.6                     | 39.9                     | 41.8                     | 62.2                     |
| Vocational Education Enrollment<br>(less Homemaking) | 3,305,856                | 3,732,835                | 3,929,093 <sup>3/</sup>  | 6,323,000                |
| Percentage in Vocational Education                   | 24.3                     | 26.5                     | 27.6                     | 44.0                     |

<sup>1/</sup> U.S. Office of Education, National Center for Educational Statistics. Digest of Educational Statistics (74-11103). Washington: U.S. Government Printing Office.

<sup>2/</sup> U.S. Office of Education, National Center for Educational Statistics. Projections of Educational Statistics to 1981-82 (OE 73-11105). Washington: U.S. Government Printing Office.

<sup>3/</sup> In 1973 secondary enrollment was not reported by grade. Based on previous years' data, enrollment in grades 9-12 was estimated at about 81 percent of the total secondary enrollment.

Table 3. PERCENTAGE DISTRIBUTION OF ENROLLMENT BY OCCUPATIONAL PROGRAM  
FISCAL YEARS 1971-1978

| <u>Program</u>           | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978<br/>(Projected)</u> |
|--------------------------|-------------|-------------|-------------|-----------------------------|
| Total                    | 100.0       | 100.0       | 100.0       | 100.0                       |
| Agricultural Production  | 5.2         | 4.8         | 4.5         | 2.8                         |
| Off-Farm Agriculture     | 2.7         | 2.8         | 2.9         | 3.0                         |
| Distribution             | 5.4         | 5.4         | 6.0         | 6.6                         |
| Health                   | 2.5         | 2.8         | 3.4         | 4.3                         |
| Home Economics (Gainful) | 1.8         | 2.3         | 2.6         | 3.2                         |
| Office                   | 21.1        | 20.0        | 20.8        | 17.3                        |
| Technical                | 2.9         | 2.8         | 2.9         | 3.1                         |
| Trades and Industry      | 19.7        | 20.4        | 21.9        | 23.3                        |
| Consumer and Homemaking  | 27.8        | 27.0        | 25.9        | 23.1                        |
| Special Programs         | 10.9        | 11.1        | 9.0         | 13.3                        |

Table 4. PERCENTAGE DISTRIBUTION OF ENROLLMENT BY LOCATION  
FISCAL YEARS 1971-1978

|              | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978<br/>(Projected)</u> |
|--------------|-------------|-------------|-------------|-----------------------------|
| Total        | 100.0       | 100.0       | 100.0       | 100.0                       |
| SMSA         | 61.3        | 59.2        | 57.7        | 55.0                        |
| Central City | (43.0)      | (46.8)      | (53.0)      | (60.0)                      |
| Non-SMSA     | 38.7        | 40.8        | 42.3        | 45.0                        |

Table 5. PERCENTAGE DISTRIBUTION OF TOTAL EXPENDITURES BY LOCATION  
FISCAL YEARS 1971-1978

|              | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978<br/>(Projected)</u> |
|--------------|-------------|-------------|-------------|-----------------------------|
| Total        | 100.0       | 100.0       | 100.0       | 100.0                       |
| SMSA         | 53.5        | 56.1        | 57.4        | 60.0                        |
| Central City | (51.1)      | (47.1)      | (44.7)      | (45.0)                      |
| Non-SMSA     | 46.5        | 43.9        | 42.6        | 40.0                        |

Table 6. ENROLLMENT IN VOCATIONAL EDUCATION BY OE INSTRUCTIONAL PROGRAMS  
FISCAL YEARS 1971-1978

| <u>OE Instructional Program</u>    | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978</u><br><u>(Projected)</u> |
|------------------------------------|-------------|-------------|-------------|-----------------------------------|
| Agriculture                        | 845,085     | 896,460     | 927,591     | 1,063,000                         |
| Agricultural Production            | 557,633     | 564,155     | 561,868     | 510,000                           |
| Agricultural Supplies              | 20,583      | 24,237      | 27,245      | 40,000                            |
| Agricultural Mechanics             | 120,745     | 128,795     | 144,661     | 240,000                           |
| Agricultural Products              | 9,235       | 9,439       | 11,999      | 15,000                            |
| Ornamental Horticulture            | 48,267      | 56,329      | 70,592      | 130,000                           |
| Agricultural Resources             | 20,000      | 24,440      | 27,520      | 50,000                            |
| Forestry                           | 16,675      | 17,998      | 18,617      | 30,000                            |
| Other Agriculture *                | 53,289      | 71,070      | 65,089      | 48,000                            |
| Distribution                       | 578,075     | 640,423     | 738,547     | 1,225,000                         |
| Advertising Services               | 26,748      | 17,535      | 20,851      | 30,000                            |
| Apparel and Accessories            | 20,569      | 24,798      | 24,103      | 34,000                            |
| Automotive                         | 7,231       | 9,640       | 10,043      | 20,000                            |
| Finance and Credit                 | 23,543      | 27,996      | 33,821      | 60,000                            |
| Floristry                          | 3,708       | 5,231       | 6,615       | 15,000                            |
| Food Distribution                  | 25,101      | 29,061      | 32,345      | 40,000                            |
| Food Services                      | 28,168      | 34,149      | 42,707      | 75,000                            |
| General Merchandise                | 199,728     | 204,681     | 239,168     | 450,000                           |
| Hardware, Building Materials, Etc. | 5,540       | 5,725       | 6,373       | 14,000                            |
| Home Furnishings                   | 4,734       | 5,874       | 6,061       | 12,000                            |
| Hotel and Lodging                  | 13,098      | 12,697      | 13,468      | 15,000                            |
| Industrial Marketing               | 8,141       | 8,627       | 12,543      | 15,000                            |
| Insurance                          | 14,226      | 13,132      | 16,982      | 20,000                            |
| International Trade                | 1,549       | 702         | 889         | 2,000                             |
| Personal Services                  | 13,461      | 17,836      | 19,219      | 25,000                            |
| Petroleum                          | 5,087       | 4,280       | 5,341       | 7,000                             |
| Real Estate                        | 73,018      | 82,111      | 113,153     | 200,000                           |

\* See footnote at end of table.

Table 6. ENROLLMENT IN VOCATIONAL EDUCATION BY OE INSTRUCTIONAL PROGRAMS (Cont'd)

| OE Instructional Program                | 1978    |         |                  |
|---|---------|---------|------------------|
|   | 1971    | 1972    | 1973 (Projected) |
| Recreation and Tourism                  | 10,431  | 12,782  | 17,689           |
| Transportation                          | 12,794  | 12,447  | 15,746           |
| Other Distribution *                    | 81,762  | 111,119 | 101,430          |
| Health                                  | 269,546 | 336,652 | 421,075          |
| Dental Assisting                        | 12,189  | 15,466  | 16,895           |
| Dental Hygiene                          | 3,828   | 4,754   | 5,523            |
| Dental Laboratory Technology            | 2,581   | 2,948   | 3,748            |
| Medical Laboratory Technology           | 5,650   | 10,524  | 11,412           |
| Other Medical Lab. Technology           | 7,798   | 3,156   | 2,941            |
| Nursing, Associate Degree               | 47,090  | 64,931  | 77,912           |
| Practical Nursing                       | 73,372  | 82,896  | 93,827           |
| Nursing Assistant (Aide)                | 54,868  | 58,903  | 74,975           |
| Occupational Therapy                    | 636     | 1,504   | 1,721            |
| Physical Therapy                        | 1,200   | 1,501   | 1,713            |
| Radiologic Technology                   | 4,868   | 5,766   | 7,316            |
| Environmental Health                    | 2,998   | 1,401   | 1,785            |
| Mental Health Technology                | 2,380   | 3,898   | 6,555            |
| Inhalation Therapy                      | 3,767   | 5,759   | 5,774            |
| Medical Assistant                       | 7,549   | 10,326  | 14,422           |
| Health Aide                             | 2,282   | 8,438   | 10,165           |
| Other Health Occupations *              | 38,112  | 54,724  | 84,391           |
| Home Economics (Gainful)                | 197,422 | 279,966 | 322,696          |
| Care and Guidance of Children           | 49,338  | 77,158  | 83,202           |
| Clothing Management                     | 39,426  | 59,524  | 63,347           |
| Food Management and Production          | 67,077  | 77,594  | 93,696           |
| Home Furnishings, Equipment, & Services | 11,433  | 21,278  | 20,209           |
| Institutional and Home Management *     | 6,701   | 8,061   | 12,612           |
| Other Occupational Preparation *        | 23,617  | 36,648  | 50,517           |

\* See footnote at end of table.

Table 6. ENROLLMENT IN VOCATIONAL EDUCATION BY OE INSTRUCTIONAL PROGRAMS (cont'd)

| OE Instructional Program              | 1978      |           |                  |
|---------------------------------------|-----------|-----------|------------------|
|                                       | 1971      | 1972      | 1973 (Projected) |
| Office Occupations                    | 2,226,854 | 2,351,878 | 2,499,095        |
| Accounting and Computing              | 329,281   | 351,861   | 385,622          |
| Business Data Processing Systems      | 181,313   | 156,748   | 155,804          |
| Filing, Office Machines, Clerical     | 364,274   | 398,226   | 429,644          |
| Information Communication             | 26,788    | 23,826    | 29,640           |
| Materials Support, Transporting, Etc. | 11,860    | 10,288    | 8,636            |
| Personnel, Training, and Related      | 11,924    | 13,693    | 20,631           |
| Stenographic, Secretarial & Related   | 533,221   | 550,686   | 606,065          |
| Supervisory and Administrative        | 70,050    | 77,730    | 84,368           |
| Typing and Related                    | 612,770   | 628,414   | 628,758          |
| Other Office Occupations *            | 88,212    | 141,300   | 149,927          |
| Technical                             | 313,860   | 337,069   | 364,044          |
| Aeronautical Technology               | 6,095     | 5,888     | 6,090            |
| Architectural Technology              | 14,716    | 14,144    | 16,050           |
| Automotive Technology                 | 5,021     | 7,453     | 9,292            |
| Chemical Technology                   | 6,393     | 5,355     | 5,029            |
| Civil Technology                      | 19,216    | 20,113    | 26,116           |
| Electrical Technology                 | 19,355    | 15,742    | 16,510           |
| Electronics Technology                | 67,335    | 64,440    | 68,877           |
| Electromechanical Technology          | 4,829     | 4,463     | 4,366            |
| Environmental Control Technology      | 2,956     | 4,634     | 6,603            |
| Industrial Technology                 | 9,457     | 11,706    | 11,018           |
| Instrumentation Technology            | 4,089     | 3,084     | 3,376            |
| Mechanical Technology                 | 25,249    | 26,395    | 25,802           |
| Metallurgical Technology              | 2,779     | 1,742     | 2,420            |
| Scientific Data Processing            | 15,949    | 16,948    | 15,849           |
| Commercial Pilot Training             | 7,381     | 5,884     | 5,507            |
| Fire and Safety Technology            | 8,377     | 8,826     | 10,218           |
| Forestry Technology                   | 2,298     | 2,504     | 2,097            |
|                                       |           |           | 3,200,000        |
|                                       |           |           | 500,000          |
|                                       |           |           | 170,000          |
|                                       |           |           | 500,000          |
|                                       |           |           | 35,000           |
|                                       |           |           | 10,000           |
|                                       |           |           | 40,000           |
|                                       |           |           | 800,000          |
|                                       |           |           | 150,000          |
|                                       |           |           | 800,000          |
|                                       |           |           | 195,000          |
|                                       |           |           | 570,000          |
|                                       |           |           | 10,000           |
|                                       |           |           | 30,000           |
|                                       |           |           | 18,000           |
|                                       |           |           | 10,000           |
|                                       |           |           | 50,000           |
|                                       |           |           | 26,000           |
|                                       |           |           | 85,000           |
|                                       |           |           | 10,000           |
|                                       |           |           | 13,000           |
|                                       |           |           | 18,000           |
|                                       |           |           | 5,000            |
|                                       |           |           | 30,000           |
|                                       |           |           | 5,000            |
|                                       |           |           | 20,000           |
|                                       |           |           | 10,000           |
|                                       |           |           | 22,000           |
|                                       |           |           | 5,000            |

\* See footnote at end of table.

Table 6. ENROLLMENT IN VOCATIONAL EDUCATION BY OE INSTRUCTIONAL PROGRAMS (Cont'd)

| OE Instructional Program           | 1971             | 1972             | 1973             | 1978             |
|------------------------------------|------------------|------------------|------------------|------------------|
|                                    |                  |                  |                  | (Projected)      |
| Oceanographic Technology           | 1,664            | 1,872            | 2,430            | 6,000            |
| Police Science Technology          | 36,099           | 43,863           | 53,084           | 125,000          |
| Air Pollution Technology           | 356              | 1,173            | 763              | 5,000            |
| Water & Waste Water Technology *   | 802              | 1,483            | 1,298            | 5,000            |
| Other Technical Education          | 53,482           | 69,493           | 71,245           | 62,000           |
| <b>Trades and Industry</b>         | <b>2,075,166</b> | <b>2,397,968</b> | <b>2,702,238</b> | <b>4,300,000</b> |
| Air Conditioning                   | 52,575           | 67,620           | 63,921           | 120,000          |
| Appliance Repair                   | 9,474            | 17,472           | 14,761           | 30,000           |
| Body and Fender, Auto              | 39,703           | 57,284           | 54,738           | 100,000          |
| Mechanics, Auto                    | 176,203          | 228,364          | 273,880          | 500,000          |
| Other Automotive                   | 52,215           | 39,522           | 49,525           | 60,000           |
| Aviation Occupations               | 33,804           | 31,780           | 28,673           | 30,000           |
| Blueprint Reading                  | 13,694           | 12,842           | 12,857           | 10,000           |
| Business Machine Maintenance       | 2,854            | 3,326            | 3,354            | 6,000            |
| Commercial Art Occupations         | 23,983           | 31,445           | 31,681           | 50,000           |
| Commercial Fishery Occupations     | 3,885            | 3,203            | 3,544            | 7,000            |
| Commercial Photography Occup.      | 13,570           | 14,612           | 19,314           | 25,000           |
| Carpentry                          | 79,988           | 95,706           | 110,181          | 210,000          |
| Electricity                        | 53,120           | 60,791           | 65,997           | 100,000          |
| Masonry                            | 26,682           | 29,992           | 34,593           | 60,000           |
| Plumbing and Pipefitting           | 35,420           | 37,311           | 40,195           | 70,000           |
| Other Construction & Maint.        | 70,813           | 79,623           | 107,421          | 125,000          |
| Custodial Services                 | 16,292           | 16,267           | 16,070           | 20,000           |
| Diesel Mechanic                    | 9,568            | 13,611           | 14,072           | 26,000           |
| Drafting Occupations               | 134,790          | 126,750          | 139,449          | 165,000          |
| Electrical Occupations             | 57,865           | 81,493           | 105,584          | 200,000          |
| Electronics Occupations            | 95,118           | 97,936           | 108,373          | 150,000          |
| Fabric Maintenance Services        | 3,859            | 5,939            | 6,672            | 9,000            |
| Foremanship, Super., & Mgt. Devel. | 88,914           | 120,820          | 112,282          | 200,000          |

\* See footnote at end of table.



Table 6. ENROLLMENT IN VOCATIONAL EDUCATION BY OE INSTRUCTIONAL PROGRAMS (Cont'd)

| OE Instructional Program  | 1971                |  | 1972                 |  | 1973                 |  | 1978                   |
|---|---------------------|--|----------------------|--|----------------------|--|------------------------|
|   |                     |  |                      |  |                      |  | (Projected)            |
| Graphic Arts, Occupations   | 68,343              |  | 68,562               |  | 72,061               |  | 110,000                |
| Industrial Atomic Energy  | 492                 |  | 157                  |  | 271                  |  | 1,000                  |
| Instrument Maint. & Repair  | 2,616               |  | 3,045                |  | 2,971                |  | 5,000                  |
| Maritime Occupations  | 4,693               |  | 6,755                |  | 7,852                |  | 15,000                 |
| Metalworking Occupations  | 274,744             |  | 291,662              |  | 316,573              |  | 450,000                |
| Metallurgy Occupations  | 3,367               |  | 5,160                |  | 3,707                |  | 10,000                 |
| Barbering   | 4,031               |  | 3,974                |  | 4,399                |  | 10,000                 |
| Cosmetology   | 45,045              |  | 48,810               |  | 56,031               |  | 85,000                 |
| Other Personal Services   | 15,985              |  | 13,356               |  | 14,472               |  | 20,000                 |
| Plastics Occupations  | 4,313               |  | 5,116                |  | 6,526                |  | 13,000                 |
| Fireman Training  | 128,822             |  | 159,307              |  | 209,190              |  | 400,000                |
| Law Enforcement Training  | 65,021              |  | 74,801               |  | 94,873               |  | 175,000                |
| Other Public Services   | 49,733              |  | 58,571               |  | 51,220               |  | 50,000                 |
| Quantity Food Occupations   | 37,253              |  | 37,459               |  | 36,961               |  | 70,000                 |
| Refrigeration   | 10,036              |  | 11,198               |  | 8,818                |  | 15,000                 |
| Small Engine Repair   | 19,182              |  | 26,045               |  | 31,915               |  | 65,000                 |
| Sta. Energy Sources Occupations   | 7,863               |  | 7,502                |  | 8,958                |  | 15,000                 |
| Textile Production & Fabrication  | 43,753              |  | 51,238               |  | 59,559               |  | 85,000                 |
| Leather Working   | 2,268               |  | 2,756                |  | 2,805                |  | 5,000                  |
| Upholstering  | 11,630              |  | 16,549               |  | 19,196               |  | 45,000                 |
| Woodworking Occupations *   | 53,593              |  | 84,709               |  | 70,106               |  | 150,000                |
| Other Trades and Industry   | 128,606             |  | 146,421              |  | 199,368              |  | 233,000                |
| Other - Special Programs<br>(Prevocational, Remedial, Pre-<br>postsecondary, and Other) | 1,087,270           |  | 1,304,619            |  | 1,114,265            |  | 2,454,000              |
| Consumer and Homemaking   | 2,932,382           |  | 3,165,732            |  | 3,193,987            |  | 4,270,000              |
| Cooperative - Total<br>Part G   | 379,840<br>(70,469) |  | 459,614<br>(118,924) |  | 508,409<br>(168,451) |  | 1,000,000<br>(222,000) |
| Work-Study  | 28,726              |  | 30,896               |  | 33,681               |  | 48,000                 |

\* Other new and emerging occupations and cluster programs.

## SECTION II. EXPENDITURES FOR VOCATIONAL EDUCATION

As shown in Figure 3 and Table 7, the funds available for vocational education increased significantly. Federal allotments rose from \$57 million in 1964 (year prior to the Vocational Education Act of 1963) to \$472 million in 1973.

Table 7 showing total expenditures by source of funds reveals that State and local expenditures greatly overmatch the Federal dollar (\$5.29 in 1973). State and local expenditures accounted for more than 80 percent of the total expenditures and in 1973 increased at a rate four times greater than the Federal expenditures.

It should be noted that the Federal funds expended each year prior to 1973 were less than the allotment available. The lateness of appropriations, particularly in 1970, created a backlog in funds carried forward to the next fiscal year which is finally being overcome in 1973. However, the amount of 1973 funds being carried over to 1974 still approximates \$86 million.

Figure 3 shows graphically the increase in total expenditures from 1965 through 1973, including the actual amounts spent by source.

Table 8 shows expenditures and percentage distribution by function. The proportion for instructional salaries constitutes about two-thirds of the total expenditures. Expenditures for other instructional costs, administration and supervision, and instructional equipment rank next, with 13.0 percent, 8.3 percent, and 5.9 percent respectively. Other instructional costs include student transportation, space rental, insurance, teacher travel, and utilities.

Table 9 shows the allocation of Federal funds expended for the various purposes outlined in the 1963 Act, as amended. Of significance is the percentage increase in expenditures for secondary programs (33.1 percent in 1973). Other purposes showing increasing percentages of the total are disadvantaged, handicapped, ancillary services, and guidance and counseling. Postsecondary expenditures remain rather stable at about 23 percent, which is well above the 15 percent required by the legislation. Similarly, expenditures for the disadvantaged exceed the 15-percent minimum but to a lesser degree. Expenditures for the handicapped are only slightly above the 10-percent minimum. Expenditures for construction of area vocational schools declined to about 9 percent. Only a small amount of funds are expended under the contracting provision.

Table 10 indicates total expenditures for all programs allocated to a level of education. In 1973, 65.9 percent of the expenditures were secondary, 27.8 percent postsecondary, and 6.3 percent adult compared to 66.5,

24.2, and 9.3 respectively in 1971. It can be noted that the ratio of Federal funds to State and local funds was somewhat higher for adult than the other levels, 21.6 percent Federal for adult compared with 15.5 percent for secondary and postsecondary.

Table 11 shows total expenditures for all programs allocated by target population and by level. In 1973, 10.3 percent of the expenditures was for the disadvantaged, having increased from 9.3 percent in 1971; and 3.1 percent was for the handicapped, compared with 2.7 percent in 1971. The most significant change from 1971 to 1973 was the decrease in funds for adult disadvantaged programs, and the increase in funds for the handicapped secondary and postsecondary programs and the disadvantaged postsecondary programs.

Table 12 shows a decline in the expenditures for area vocational school construction. Apparently the need for additional facilities has been met in many States and in other States construction is entirely financed with State and local funds. The number of institutions designated as approved area vocational schools, however, continues to increase and in 1973 there were 2,148 such schools.

Table 13 indicates a rather stable expenditure for work-study programs, due to a constant level of appropriations for this purpose.

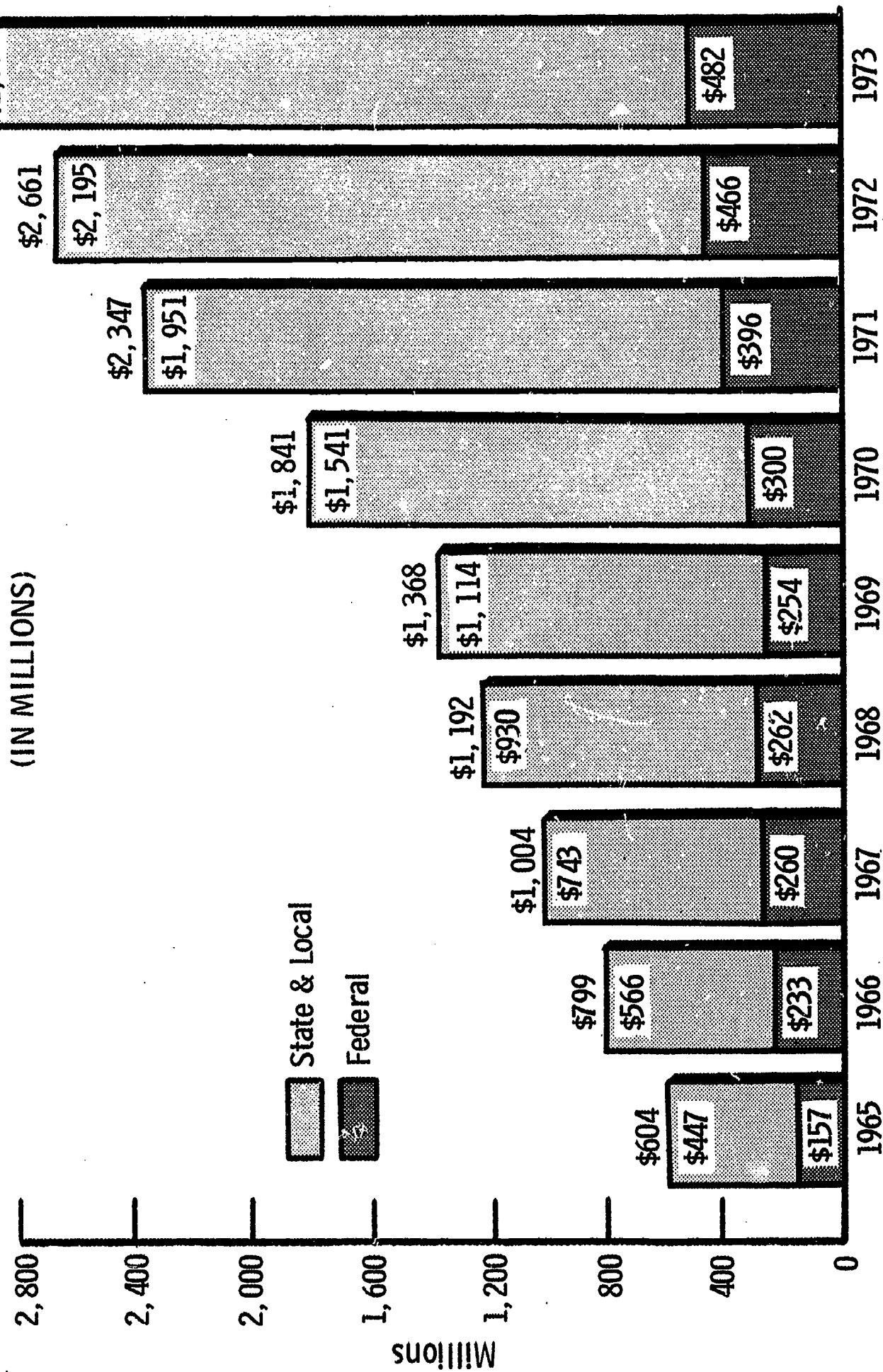
Table 14 indicates that the expenditures for cooperative programs under Part G of the Act have almost doubled from 1971 to 1973. Even though no matching of Part G funds is required, State in 1973 expended more of their own funds than Federal funds.

Table 7. TOTAL EXPENDITURES FOR VOCATIONAL EDUCATION, BY SOURCE OF FUNDS  
FISCAL YEARS 1971-1978

|                                  | <u>1971</u>                          | <u>1972</u>     | <u>1973</u>     | <u>1978</u><br>(Projected) |
|----------------------------------|--------------------------------------|-----------------|-----------------|----------------------------|
|                                  | Amount                               |                 |                 |                            |
| Grand Total                      | \$2,347,353,175                      | \$2,660,758,658 | \$3,033,657,510 | \$6,310,000,000            |
| Federal                          | 396,378,405                          | 466,029,820     | 482,390,800     | 972,000,000                |
| State/Local                      | 1,950,974,770                        | 2,194,728,838   | 2,551,266,710   | 5,338,000,000              |
| Ratio: State/Local<br>to Federal | \$4.92                               | \$4.71          | \$5.29          | \$5.50                     |
|                                  | Percentage Distribution              |                 |                 |                            |
| Grand Total                      | 100.0                                | 100.0           | 100.0           | 100.0                      |
| Federal                          | 16.9                                 | 17.5            | 15.9            | 15.4                       |
| State/Local                      | 83.1                                 | 82.5            | 84.1            | 84.6                       |
|                                  | Percentage Change from Previous Year |                 |                 |                            |
| Grand Total                      | 27.4                                 | 13.4            | 14.0            | ---                        |
| Federal                          | 32.1                                 | 17.6            | 3.5             | ---                        |
| State/Local                      | 26.5                                 | 12.5            | 16.2            | ---                        |
|                                  | Federal Allotment                    |                 |                 |                            |
| Total Allotment                  | \$412,812,093                        | \$471,968,455   | \$471,968,455   | <sup>1/</sup>              |

<sup>1/</sup> An additional amount of \$77,119,000 was released in Fiscal Year 1974.

**Figure 3: EXPENDITURES FOR VOCATIONAL EDUCATION,  
BY SOURCE OF FUNDS 1965-1973**



SOURCE: Annual Reports, Division of Vocational and Technical Education, 1965-1973.

Table 8. TOTAL EXPENDITURES FOR VOCATIONAL EDUCATION, BY FUNCTION <sup>1/</sup>  
 FISCAL YEARS 1971-1978  
 (In Thousands)

|                              | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978</u><br><u>(Projected)</u> |
|------------------------------|-------------|-------------|-------------|-----------------------------------|
| Amount                       |             |             |             |                                   |
| Total                        | \$2,075,881 | \$2,410,086 | \$2,801,553 | \$6,051,000                       |
| Instructional Salaries       | 1,426,330   | 1,585,709   | 1,879,306   | 4,540,000                         |
| Instructional Equipment      | 141,401     | 147,908     | 166,351     | 200,000                           |
| Other Instructional Costs    | 251,114     | 333,964     | 364,258     | 556,000                           |
| Vocational Guidance          | 66,609      | 89,778      | 103,754     | 235,000                           |
| Administration & Supervision | 142,813     | 193,900     | 232,128     | 350,000                           |
| Teacher Education            | 26,879      | 31,065      | 30,580      | 45,000                            |
| Research                     | 12,260      | 18,462      | 15,710      | 90,000                            |
| Curriculum Development       | 8,475       | 9,300       | 9,466       | 35,000                            |
| Percentage Distribution      |             |             |             |                                   |
| Total                        | 100.0       | 100.0       | 100.0       | 100.0                             |
| Instructional Salaries       | 68.7        | 65.8        | 67.1        | 75.0                              |
| Instructional Equipment      | 6.8         | 6.1         | 5.9         | 3.3                               |
| Other Instructional Costs    | 12.1        | 13.9        | 13.0        | 9.2                               |
| Vocational Guidance          | 3.2         | 3.7         | 3.7         | 3.9                               |
| Administration & Supervision | 6.8         | 8.0         | 8.3         | 5.8                               |
| Teacher Education            | 1.3         | 1.3         | 1.1         | 0.7                               |
| Research                     | 0.7         | 0.8         | 0.6         | 1.5                               |
| Curriculum Development       | 0.4         | 0.4         | 0.3         | 0.6                               |

<sup>1/</sup> Excludes construction and work-study.

Table 9. EXPENDITURES FROM VOCATIONAL EDUCATION ACT OF 1963, AS AMENDED, BY PURPOSE  
FISCAL YEARS 1971-1973

|                        | 1971                        |                  | 1972                        |                  | 1973                        |                  |
|------------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|
|                        | Amount                      | Percent of Total | Amount                      | Percent of Total | Amount                      | Percent of Total |
| Total                  | \$317,083,369 <sup>1/</sup> | 100.0            | \$370,132,642 <sup>1/</sup> | 100.0            | \$387,664,484 <sup>1/</sup> | 100.0            |
| Secondary              | 88,362,942                  | 27.9             | 109,045,448                 | 29.5             | 126,531,324                 | 33.1             |
| Postsecondary          | 72,107,104                  | 22.8             | 82,229,785                  | 22.2             | 91,190,849                  | 23.9             |
| Adult                  | 15,983,122                  | 5.1              | 21,481,578                  | 5.8              | 19,103,967                  | 5.0              |
| Disadvantaged          | 51,819,442                  | 16.3             | 63,565,259                  | 17.2             | 66,314,918                  | 17.4             |
| Handicapped            | 33,871,902                  | 10.7             | 37,899,822                  | 10.2             | 43,234,940                  | 11.3             |
| Construction           | 51,477,906                  | 16.2             | 55,701,484                  | 15.0             | 35,422,931                  | 9.3              |
| Ancillary Services     | (40,072,020)                | (12.8)           | (50,178,827)                | (13.6)           | (63,073,834)                | (16.3)           |
| Guidance & Counseling  | (7,333,812)                 | (2.3)            | (10,141,102)                | (2.7)            | (11,770,598)                | (3.0)            |
| Contracted Instruction | (1,488,325)                 | (0.5)            | (506,951)                   | (0.1)            | (1,348,467)                 | (0.3)            |

Memo amounts in ( ) are expended by level or target group.

<sup>1/</sup> Total not sum of purposes due to the inability of a few States to allocate ancillary services by level.

Table 10. EXPENDITURES FOR VOCATIONAL EDUCATION, BY LEVEL AND SOURCE  
FISCAL YEARS 1971-1978  
(In Thousands)

|               | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978</u><br><u>(Projected)</u> |
|---------------|-------------|-------------|-------------|-----------------------------------|
| Secondary     | \$1,560,889 | \$1,752,449 | \$1,998,732 | \$4,377,000                       |
| Federal       | 250,328     | 296,347     | 310,292     | 680,000                           |
| State/Local   | 1,310,561   | 1,456,102   | 1,688,440   | 3,697,000                         |
| Postsecondary | 566,978     | 707,163     | 843,402     | 1,538,000                         |
| Federal       | 110,046     | 123,567     | 130,597     | 240,000                           |
| State/Local   | 455,932     | 583,596     | 712,805     | 1,298,000                         |
| Adult         | 218,194     | 196,514     | 191,528     | 395,000                           |
| Federal       | 33,719      | 44,092      | 41,373      | 84,000                            |
| State/Local   | 184,475     | 152,422     | 150,155     | 311,000                           |

Table 11. TOTAL EXPENDITURES FOR VOCATIONAL EDUCATION, BY TARGET GROUP & LEVEL  
FISCAL YEARS 1971-1978  
(In Thousands)

|               | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1978</u><br><u>(Projected)</u> |
|---------------|-------------|-------------|-------------|-----------------------------------|
| Disadvantaged | \$ 219,127  | \$ 290,074  | \$ 312,135  | \$ 900,000                        |
| Secondary     | 147,792     | 214,190     | 239,425     | 690,000                           |
| Postsecondary | 31,460      | 37,768      | 43,725      | 126,000                           |
| Adult         | 39,875      | 38,116      | 28,985      | 84,000                            |
| Handicapped   | 62,983      | 67,467      | 94,074      | 205,000                           |
| Secondary     | 46,353      | 54,731      | 76,617      | 167,000                           |
| Postsecondary | 9,618       | 8,022       | 12,629      | 27,000                            |
| Adult         | 7,012       | 4,714       | 4,828       | 11,000                            |
| Regular       | 2,063,959   | 2,298,585   | 2,627,453   | 5,205,000                         |
| Secondary     | 1,366,744   | 1,483,527   | 1,682,690   | 3,331,000                         |
| Postsecondary | 525,908     | 661,374     | 787,048     | 1,562,000                         |
| Adult         | 171,307     | 153,684     | 157,715     | 312,000                           |



Table 12. NUMBER OF AREA VOCATIONAL SCHOOLS AND EXPENDITURES  
FOR CONSTRUCTION OF FACILITIES  
FISCAL YEARS 1971-1973  
(In Thousands)

|   | <u>1971</u> | <u>1972</u> | <u>1973</u> |
|---|-------------|-------------|-------------|
| Number of Approved Area Vocational<br>Schools | 1,676       | 1,889       | 2,148       |
| Number of Construction Projects               | 400         | 436         | 368         |
| Expenditures - Total                          | \$317,569   | \$265,158   | \$228,186   |
| VEA   | 51,478      | 55,701      | 35,423      |
| 211   | 24,817      | 20,866      | 21,592      |
| 214   | 7,465       | 6,900       | 6,147       |
| EDA   | 7,317       | 6,738       | 5,465       |
| State/Local                                   | 226,492     | 174,953     | 159,560     |

Table 13. EXPENDITURES FOR VOCATIONAL WORK-STUDY PROGRAMS  
FISCAL YEARS 1971-1973

|             | <u>1971</u> | <u>1972</u>  | <u>1973</u> |
|-------------|-------------|--------------|-------------|
| Total       | \$9,042,766 | \$11,409,966 | \$9,777,319 |
| Federal     | 5,783,711   | 6,289,386    | 6,163,959   |
| State/Local | 3,259,055   | 5,120,580    | 3,613,360   |

Table 14. EXPENDITURES FOR COOPERATIVE EDUCATION PROGRAMS UNDER PART C  
FISCAL YEARS 1971-1973

|             | <u>1971</u>  | <u>1972</u>  | <u>1973</u>  |
|-------------|--------------|--------------|--------------|
| Total       | \$28,025,961 | \$32,797,274 | \$48,822,802 |
| Federal     | 17,585,628   | 19,948,690   | 21,709,942   |
| State/Local | 10,440,333   | 12,848,584   | 27,112,860   |

### SECTION III. TEACHERS IN VOCATIONAL EDUCATION

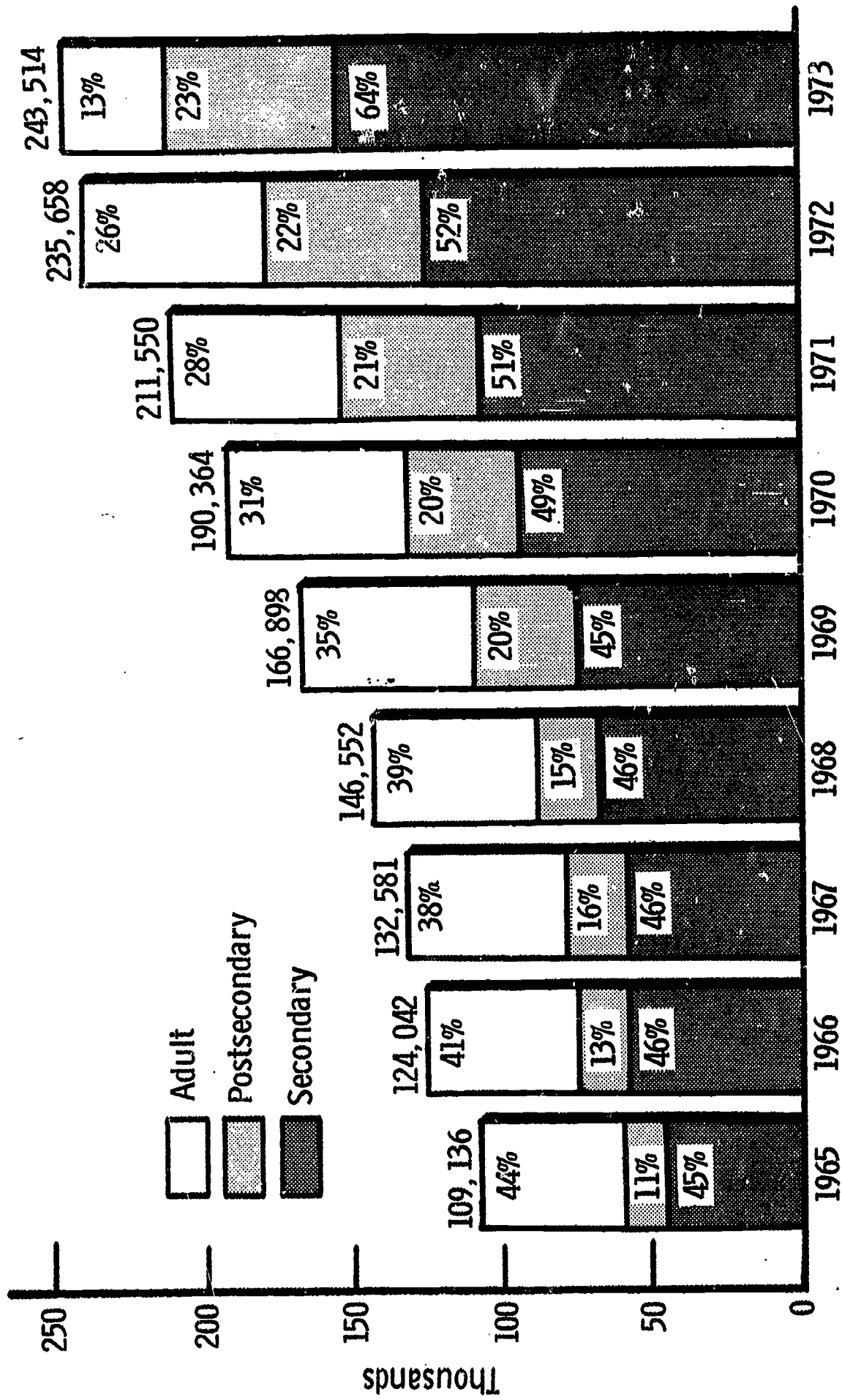
In Figure 4, the growth in the number of teachers from 1965 through 1973 is presented graphically. The number of individual teachers in vocational education grew from 109,136 in 1965 to 243,514 in 1973. Due to a change in reporting, data for 1973, as shown in Table 15, are not entirely compatible with prior years. Data on secondary and postsecondary teachers are reported by full-time equivalency rather than the number of full-time and part-time teachers. Accordingly, the percentage distribution by level in 1973 reflects a much higher percentage of teaching devoted to secondary and a proportionate reduction in adult education where most teachers serve on a part-time basis. The number of teachers for the disadvantaged in 1973 is almost double the number in 1971 and the number of teachers for the handicapped more than doubled.

In Table 16, it is noted that the number of enrollees in preservice training leveled off at about 60,000 while enrollees in inservice training showed a substantial increase in 1973 to over 90,000.

Table 17 shows the number and distribution of teachers by program. Trades and industry accounts for the largest number of teachers, followed by office education and home economics. Significant and steady growth in number of teachers occurred in all programs except agriculture which declined from 1965 to 1969 and technical which declined in 1973. Percentages of the total number of teachers in distribution and trades and industry show little change from 1965 to 1973. Health and office doubled in proportion to the total and agriculture, technical, and home economics showed decreases in percentages during the 9-year period.

Figure 5 shows the total number of teachers in preservice and inservice teacher-education programs from 1965 through 1973.

**Figure 4: TEACHERS OF VOCATIONAL EDUCATION, BY LEVEL  
FISCAL YEARS 1965-1973**



SOURCE: Annual Reports, Division of Vocational and Technical Education, 1965-1973. NOTE: Percentage calculated on full-time equivalent in 1973 instead of number of teachers.

Table 15. TEACHERS OF VOCATIONAL EDUCATION, BY LEVEL  
FISCAL YEARS 1971-1978

|                      | <u>1971</u>             | <u>1972</u> | <u>1973</u>             | 1978<br>(Projected) |
|----------------------|-------------------------|-------------|-------------------------|---------------------|
|                      | Number                  |             |                         |                     |
| Total (Unduplicated) | 211,550                 | 235,658     | 243,514                 | 357,000             |
| Secondary            | 118,919                 | 131,404     | 112,663.7 <sup>1/</sup> | 200,000             |
| Postsecondary        | 48,874                  | 56,311      | 40,626.5 <sup>1/</sup>  | 90,000              |
| Adult                | 63,583                  | 67,242      | 73,900                  | 95,000              |
| Disadvantaged        | (11,933)                | (15,007)    | (20,638)                | (45,000)            |
| Handicapped          | (3,609)                 | (4,919)     | (7,376)                 | (15,000)            |
|                      | Percentage Distribution |             |                         |                     |
| Total                | 100.0                   | 100.0       | 100.0 <sup>2/</sup>     | 100.0               |
| Secondary            | 51.4                    | 51.5        | 64.0                    | 56.0                |
| Postsecondary        | 21.1                    | 22.1        | 23.1                    | 25.2                |
| Adult                | 27.5                    | 26.4        | 12.9                    | 26.6                |
| Disadvantaged        | (5.6)                   | (6.4)       | (8.5)                   | (12.6)              |
| Handicapped          | (1.7)                   | (2.1)       | (3.0)                   | (4.2)               |

<sup>1/</sup> Teachers reported by Full-Time Equivalent.

<sup>2/</sup> Percentage by level based on F.T.E. Adult is estimated at 22,717.0 F.T.E.

Table 16. ENROLLMENTS IN TEACHER EDUCATION  
FISCAL YEARS 1971-1978

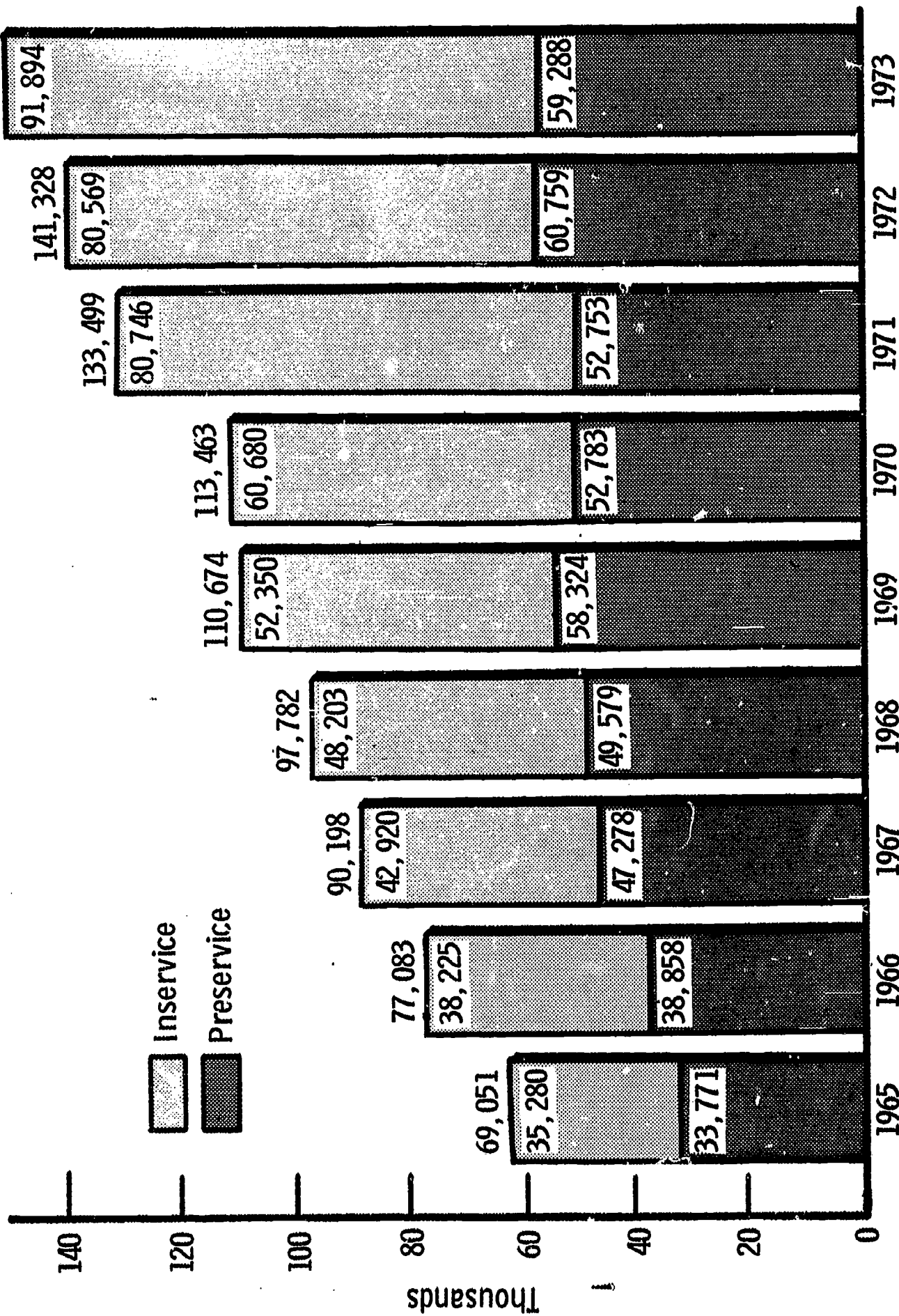
|            | <u>1971</u> | <u>1972</u> | <u>1973</u> | 1978<br>(Projected) |
|------------|-------------|-------------|-------------|---------------------|
| Preservice | 52,753      | 60,759      | 59,288      | 80,500              |
| Inservice  | 80,746      | 80,569      | 91,894      | 120,000             |

Table 17. TEACHERS OF VOCATIONAL EDUCATION, BY PROGRAM  
FISCAL YEARS 1965-1973

|                      | <u>1965</u>             | <u>1969</u> | <u>1971</u>         | <u>1972</u>         | <u>1973</u>         |
|----------------------|-------------------------|-------------|---------------------|---------------------|---------------------|
|                      | Number                  |             |                     |                     |                     |
| Total (Unduplicated) | 109,136                 | 166,898     | 211,550             | 235,658             | 243,514             |
| Agriculture          | 17,608                  | 12,565      | 12,910              | 13,270              | 13,812              |
| Distribution         | 7,200                   | 9,741       | 11,974              | 13,795              | 14,804              |
| Health               | 3,429                   | 8,876       | 12,613              | 14,552              | 16,780              |
| Home Economics       | 31,243                  | 31,845      | 38,105              | 41,547              | 44,678              |
| Office               | 15,850                  | 37,923      | 49,363              | 52,662              | 54,917              |
| Technical            | 9,213                   | 13,488      | 14,750              | 16,820              | 13,658              |
| Trades and Industry  | 39,804                  | 50,592      | 59,065              | 65,105              | 70,848              |
| Other                | 488                     | 2,087       | 6,540 <sup>1/</sup> | 6,369 <sup>1/</sup> | 4,945 <sup>1/</sup> |
|                      | Percentage Distribution |             |                     |                     |                     |
| Total                | 100.0                   | 100.0       | 100.0               | 100.0               | 100.0               |
| Agriculture          | 15.1                    | 7.5         | 6.3                 | 5.9                 | 5.9                 |
| Distribution         | 5.9                     | 5.8         | 5.8                 | 6.2                 | 6.3                 |
| Health               | 2.8                     | 5.3         | 6.1                 | 6.5                 | 7.2                 |
| Home Economics       | 23.9                    | 19.1        | 18.6                | 18.5                | 19.1                |
| Office               | 12.7                    | 22.7        | 24.0                | 23.5                | 23.4                |
| Technical            | 6.9                     | 8.1         | 7.2                 | 7.5                 | 5.8                 |
| Trades and Industry  | 30.8                    | 30.3        | 28.8                | 29.1                | 30.2                |
| Other                | 1.9                     | 1.2         | 3.2                 | 2.8                 | 2.1                 |

<sup>1/</sup> Includes only teachers in occupational programs. Unduplicated total includes also teachers in special programs: 30,418 in 1971; 37,562 in 1972; and 54,857 in 1973.

**Figure 5: ENROLLMENTS IN TEACHER EDUCATION 1965-1973**



SOURCE: Annual Reports, Division of Vocational and Technical Education, 1965-1973.