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#### ABSTRACT

This document, consisting of 7 chapters, 31 figures, and 360 tables, provides statistical data on most aspects of United States education, both public and private, from kindergarten through graduate school. The chapters cover the following topics: (1) all levels of education; (2) elementary and secondary education; (3) postsecondary, college, university, technical, and adult education; (4) federal programs for education and related activities; (5) outcomes of education; (6) international comparisons of education; and (7) learning resources and technology. A wide range of information is presented on subjects including the number of schools and colleges, teachers, enrollment, graduates, educational attainment, finances, federal funds for education, employment and income of graduates, libraries, and international education. Supplemental information on population trends, attitudes on education, educational characteristics of the labor force, government finances, and economic trends is provided. Included among data not appearing in previous editions are the following: salaries for beginning teachers; data from teacher and general public opinion polls; data on handicapped students in higher education; international tests of educational achievement in mathematics and science; statistics on ages of college students by type and control of institution; profiles of persons earning doctor's degrees in education, engineering, physical sciences, and social sciences; college student participation in financial aid programs; and the percentage of bachelor's degree recipients going to graduate school. A short introduction highlights major findings, and each chapter contains a brief overview of significant trends. A guide to sources, definitions, and an index are included. (KM)

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# Digest of Education Statistics 1989

Twenty-fifth Edition

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Office of Educational Research and Improvement NCES 89-643

# **Digest of Education Statistics 1989**

**Twenty-fifth Edition**



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December 1989

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## Foreword

This 1989 edition of the *Digest of Education Statistics* is the 25th in a series of publications initiated in 1962. (The *Digest* has been issued annually except for combined editions for the years 1977-78, 1983-84, and 1985-86.) Its primary purpose is to provide a compilation of statistical information covering the broad field of American education from kindergarten through graduate school. The *Digest* includes a selection of data from many sources, both government and private, and draws especially on the results of surveys and activities carried out by the National Center for Education Statistics. The publication contains information on a variety of subjects within the field of education statistics, including the number of schools and colleges, teachers, enrollments, graduates, educational attainment, finances, Federal funds for education, employment and income of graduates, libraries, and international education. Supplemental information on population trends, attitudes on education, education characteristics of the labor force, government finances, and economic trends provides background for evaluating education data.

The *Digest* is divided into seven chapters: All Levels of Education, Elementary and Secondary Education, Postsecondary Education, Federal Programs for Education and Related Activities, Outcomes of Education, International Education, and Learning Resources and Technology. To qualify for inclusion in this publication, material must be nationwide in scope and of current interest and value. The introduction supplements the tabular materials in chapters 1 through 7 by providing a brief overview of current trends in American education. Information on the structure of the statistical tables is contained in the Guide to Tabular Presentation. The Guide to Sources provides a brief synopsis of the surveys used to generate the tabulations for the *Digest*. Also, a "Definitions" section is included to help readers to understand the terms used in this publication.

In addition to updating many of the statistics that have appeared in previous years, this edition contains a substantial amount of new material, including:

- Salaries for beginning teachers;
- New data from teacher and general public opinion polls;
- Data on handicapped students in higher education;
- International tests of education achievement in mathematics and science;
- Detailed statistics on ages of college students, by type and control of institution;
- Profiles of persons earning doctor's degrees in education, engineering, physical sciences, and social sciences;
- Participation of college students in financial aid programs; and
- Percent of bachelor's degree recipients going to graduate school.

In the past, the *Digest of Education Statistics* has proved to be of interest and value to educational researchers and administrators, government officials, the communications media, the business community, and the general public. Recently, we have implemented a program to expand the scope of materials included in the *Digest* to make it even more comprehensive. We welcome comments and suggestions to improve future editions. We trust that the users of this 25th edition will find it even more valuable than its predecessors.

Jeanne E. Griffith, Acting Director  
Crosscutting Education Statistics and  
Analysis Division  
December 1989

## Acknowledgments

Many people have contributed in one way or another to the development of this *Digest*. Foremost among these contributors is W. Vance Grant, who served as an editor of this series from 1962 to 1986. His developmental work has made this publication the widely used and respected report it is today. Thomas D. Snyder was responsible for the overall development and preparation of the *Digest*. This report was prepared under the general direction of Jeanne E. Griffith.

Charlene M. Hoffman provided technical assistance in all phases of preparing the *Digest*. Ms. Hoffman was responsible for Chapter 4, Federal Programs for Education and Related Activities, graphs, and for tables on degrees conferred. Lisa Avallone developed a variety of materials for the report, including tables dealing with special education and State education legislation. Henry A. Gordon prepared analyses relating to economic outcomes of education and educational characteristics of the population. Celeste Loar compiled tabulations on international education and on faculty and teachers. Laurence T. Ogle prepared the Guide to Sources. Vernetta Stevenson reviewed many of the materials prepared for the report. Zola Brown prepared tables on public school data. Bill Sonnenberg developed special computer analyses on school districts and on school enrollment. Debra E. Gerald and William J. Hussar prepared tabulations on college enrollment and international finance statistics. Celestine J. Davis provided clerical assistance.

A number of individuals outside of the division primarily responsible for the *Digest* also provided large amounts of time and effort. Leo J. Eiden was re-

sponsible for coordinating the preparation of a variety of materials on higher education statistics and developing new materials on student financial assistance and doctoral degrees. William Freund developed several databases used for the *Digest*. Summer Whitener prepared tables dealing with college enrollment and degrees conferred. Patricia Q. Brown was responsible for tables on private schools and graduate enrollment. Walter G. West developed a number of new analyses dealing with characteristics of 8th-grade students. Kerry J. Gruber and Judi Carpenter prepared analyses of degrees conferred by race/ethnicity. Cleve E. Gladney provided technical advice on computer file production. Judi Fries provided editorial assistance and managed typesetting, and Phil Carr designed the cover.

This year's edition of the *Digest* has received extensive reviews by individuals within and outside the Department of Education. We wish to thank these persons for their time and expert advice. Within the Office of Educational Research and Improvement (OERI), W. Vance Grant and Mary Frase reviewed the entire manuscript. Charles Andersen (American Council on Education) and Rosemary Clark (U.S. Bureau of the Census) also reviewed the entire document. OERI staff who reviewed portions of the manuscript were: Nabeel Alasalam, Janice Ancarrow, Sharon A. Bobbitt, Charles D. Cowan, Leo J. Eiden, Martin M. Frankel, William Freund, William J. Fowler, Edith K. McArthur, Marilyn M. McMillen, Frank Morgan, John P. Sietsema, Suzanne E. Triplett, George H. Wade, Jeffrey W. Williams, and Douglas A. Wright.

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# Introduction

In the fall of 1988, about 58.3 million persons were enrolled in American schools and colleges (table 1). About 3.4 million were employed as elementary and secondary school teachers and as college instructors. Other professional, administrative, and support staff of educational institutions numbered 3.5 million. Thus, in the fall of 1988, approximately 65 million Americans were involved, directly or indirectly, in providing or receiving formal education. In a nation with a population of about 246 million, more than 1 out of every 4 persons participated in the educational process.

Enrollment in elementary and secondary schools grew rapidly during the 1950s and 1960s and peaked in 1971 (table 2). This enrollment rise was caused by the baby boom, a dramatic increase in births following World War II. From 1971 to 1984, total elementary and secondary school enrollment decreased steadily, reflecting the decline in the school-age population over that period. After these years of decline, enrollment in public elementary and secondary schools showed a small increase in the fall of 1987 (table 3). Enrollment in kindergarten through grade 5 rose from 27.0 million in fall 1985 to an estimated 28.4 million in fall 1988. Enrollment in the upper grades declined from 12.5 million to an estimated 11.8 million over the same period. The net result of these two divergent trends was an overall increase in public school enrollment.

Private school enrollment was estimated at 5.2 million in fall 1988. About 4.0 million students were enrolled at the elementary level and 1.2 million were enrolled at the secondary level. Approximately 12 percent of all elementary and secondary students attend private schools.

Recent increases in elementary enrollment indicate a new trend that will affect elementary and secondary schools for a number of years. Projections of the National Center for Education Statistics (NCES) indicate that public elementary school enrollment will continue to increase, reaching 29.4 million in 1990 and 30.8 million in 1995 (table 3). Between fall 1988 and fall 1990, elementary enrollment is projected to grow by 3 percent, while secondary school enrollment is expected to decline by 3 percent. The new wave of pupils will begin to cause increases at the secondary school level during the early 1990s.

College enrollment in fall 1988 was estimated at 12.8 million—remaining at the record level of the

previous fall. Total college enrollment is not expected to change significantly between 1988 and 1990, despite decreases in the traditional "college-age" population (table 2). The number of persons in the 18- to 24-year-old age group peaked in 1981 and then began a decline that is expected to continue throughout most of the next decade (table 13). However, recent trends suggest that total enrollment will remain relatively high because of the increased participation of older women students and also because of a high rate of college attendance for recent high school graduates. Although total enrollment may remain relatively stable, some shifts of students from full-time to part-time status are expected.

About 2.6 million elementary and secondary school teachers were engaged in classroom instruction in the fall of 1988 (table 4). This number has risen slowly in recent years, up about 7 percent since 1983. The number of public school teachers in 1987 was about 2.3 million and the number in private schools was estimated at 0.3 million. About 1.6 million teachers were teaching in elementary schools, while about 1.1 million were employed at the secondary level (table 4).

Overall, the trend over the past 10 years has been for the number of public school teachers to remain relatively stable, while enrollment has declined. The result has been a continuing decrease in the pupil-teacher ratio. In the fall of 1988 there were 17.5 pupils per public school teacher compared with 19.3 pupils per teacher 10 years earlier. During the same time period, the pupil-teacher ratio in private schools fell from 18.7 to 15.2. The declining pupil-teacher ratio reflects the trend toward smaller classes and more specialized education programs (table 56).

Teacher salaries, which lost purchasing power to inflation during the 1970s, began to rise faster than the inflation rate in the 1980s. The rising salaries reflect both an interest of State and local education agencies in boosting teacher salary schedules and the increasing experience and education levels of teachers (table 59). According to data from the National Education Association, the value of teachers' salaries, after adjustment for inflation, rose about 19 percent between 1980-81 and 1987-88. The average salary for teachers in 1987-88 was \$28,044, which represents a record-high level (table 66).

Some improvements have been registered in the area of reading proficiency of elementary and secondary school students. Reading proficiency of 9-, 13-, and 17-year-olds rose between 1970-71 and 1983-84 (table 95). In 1970-71, 58 percent of the 9-year-olds read at or above the basic level, compared with 64 percent in 1983-84. Although the reading proficiency of minority children remains below that of other students, blacks have made very large gains. For example, the proportion of black 9-year-olds reading at a basic level or above rose from 22 percent in 1970-71 to 39 percent in 1983-84. Also, scores on the Scholastic Aptitude Test (SAT), administered by the College Board, rose during the early 1980s. After a decline during the 1970s, the combined mathematics and verbal SAT scores increased 16 points between 1980-81 and 1984-85 (table 108). However, from 1984-85 to 1987-88, the verbal scores dropped by 3 points and the mathematics scores rose by only 1 point.

Despite some evidence that student achievement improved in the late 1970s and early 1980s, there is still reason for concern. Recent international tests of mathematics and science have highlighted the relatively low level of achievement of U.S. students compared to their peers in other countries (tables 343 to 349). Also, a major U.S. study of writing achievement found that even 11th-grade students had considerable difficulty with analytic writing assignments (table 100).

The number of high school graduates in 1987-88 totaled about 2.8 million. About 2.5 million graduated from public schools and about 0.3 million graduated from private schools. The number of high school graduates has declined from its peak in 1976-77, when 3.2 million persons earned their diplomas. Although the number of graduates has been lower in recent years, the proportion of 17- and 18-year-olds graduating from high school has remained relatively stable for more than 2 decades. There was a slight dip in the proportion of young people graduating from high school between 1976-77 and 1979-80 (table 89).

The number of postsecondary degrees to be conferred during the year 1988-90 is projected to be: 448,000 associate degrees; 1,006,000 bachelor's degrees; 301,000 master's degrees; 34,400 doctor's degrees; and 72,000 first-professional degrees. The number of bachelor's degrees is expected to be at or near an all-time high. The other figures are down

slightly from their peaks, reached in 1983 (associate); 1977 (master's); 1985 (first-professional); and 1973 (doctor's) (table 200).

The Bureau of the Census has collected annual statistics on the educational attainment of the population in terms of years of school completed. These data indicate that between 1980 and 1988 the proportion of the adult population 25 years of age and over with 4 years of high school or more rose from 69 percent to 76 percent and the proportion of adults with at least 4 years of college increased from 17 percent to 20 percent. In contrast, the proportion of young adults, 25- to 29-years of age, attaining these levels did not change significantly over this time period (table 8).

Expenditures for public and private education from preprimary through graduate school are estimated at \$311 billion for 1987-88, and projections indicate that they will reach \$330 billion in 1988-89 (table 26). The expenditures of elementary and secondary schools are expected to total about \$199 billion for 1988-89, while institutions of higher education will spend about \$131 billion. The outlays of public schools and colleges are expected to reach \$269 billion, while the privately controlled institutions are expected to spend about \$62 billion. Viewed in another context, the total expenditures for education during recent years has amounted to nearly 7 percent of the gross national product and is expected to remain at that same level in 1988-89 (table 25).

The statistical highlights in this section of the report provide a quantitative description of the current American education scene. It is clear from the large number of participants, the number of years that people spend in school, and the vast sums expended by educational institutions that the American people have a high regard for education. Yet, data on graduation ratios, reading proficiency, and SAT scores suggest that improvements in recent years have been limited. Disappointing scores of American students in international tests pose concerns for the future.

*Readers should be aware of the limitations of statistics. These limitations vary with the exact nature of a particular survey. All surveys are subject to design, reporting, and processing errors, and errors due to nonresponse. More information on survey methodologies can be found in the Guide to Sources in the Appendix to this volume.*

## CHAPTER 1

# All Levels of Education

The purpose of this chapter is to provide a broad overview of education in the United States. It brings together material from preprimary, elementary, secondary, and higher education and from the general population to present a composite picture of the American educational system. It contains tables which show the total number of persons enrolled in school, the number of teachers, the number of schools, and total expenditures for education at all levels. The chapter also includes statistics on education-related topics such as educational attainment, family characteristics, population, and opinions about schools. Economic indicators and price indexes have been added to assist researchers in preparing comparative analyses.

Figure 1 provides an overview of the structure of education in the United States. The chart indicates the three levels of education (elementary, secondary, and postsecondary) and gives the approximate age of persons at each level. As the chart indicates, pupils ordinarily spend from 6 to 8 years in the elementary grades, which may be preceded by 1 or 2 years in nursery school and kindergarten. The elementary school program is followed by a 4- to 6-year program in high school. Pupils normally complete the entire program through grade 12 by age 17 or 18.

High school graduates who decide to continue their education may enter a 2-year college, a technical institution, or a 4-year college or university. A 2-year college normally offers the first 2 years of a standard 4-year college curriculum and a selection of terminal-vocational programs. Academic courses completed at a 2-year college are transferable for credit at 4-year colleges and universities. A technical institution offers postsecondary technical training leading to a specific career.

An associate degree requires at least 2 years of college-level work, and a bachelor's degree normally can be earned in 4 years. At least 1 year beyond the bachelor's is necessary for a master's degree, while a doctor's degree usually requires a minimum of 3 or 4 years beyond the bachelor's.

Professional schools differ widely in requirements for admission and in length of programs. Medical students, for example, generally complete a 4-year program of premedical studies at a college or university before they can enter the 4-year program at a

medical school. Law programs normally require 3 years of coursework beyond the bachelor's degree level.

Many of the statistics in this chapter are derived from the statistical activities of the National Center for Education Statistics. In addition, substantial contributions have been drawn from the work of other groups, both government and nongovernment, as indicated in the source notes of the appropriate tables. Information on survey methodologies can be found in the Guide to Sources in the appendix and in the publications cited in the source notes.

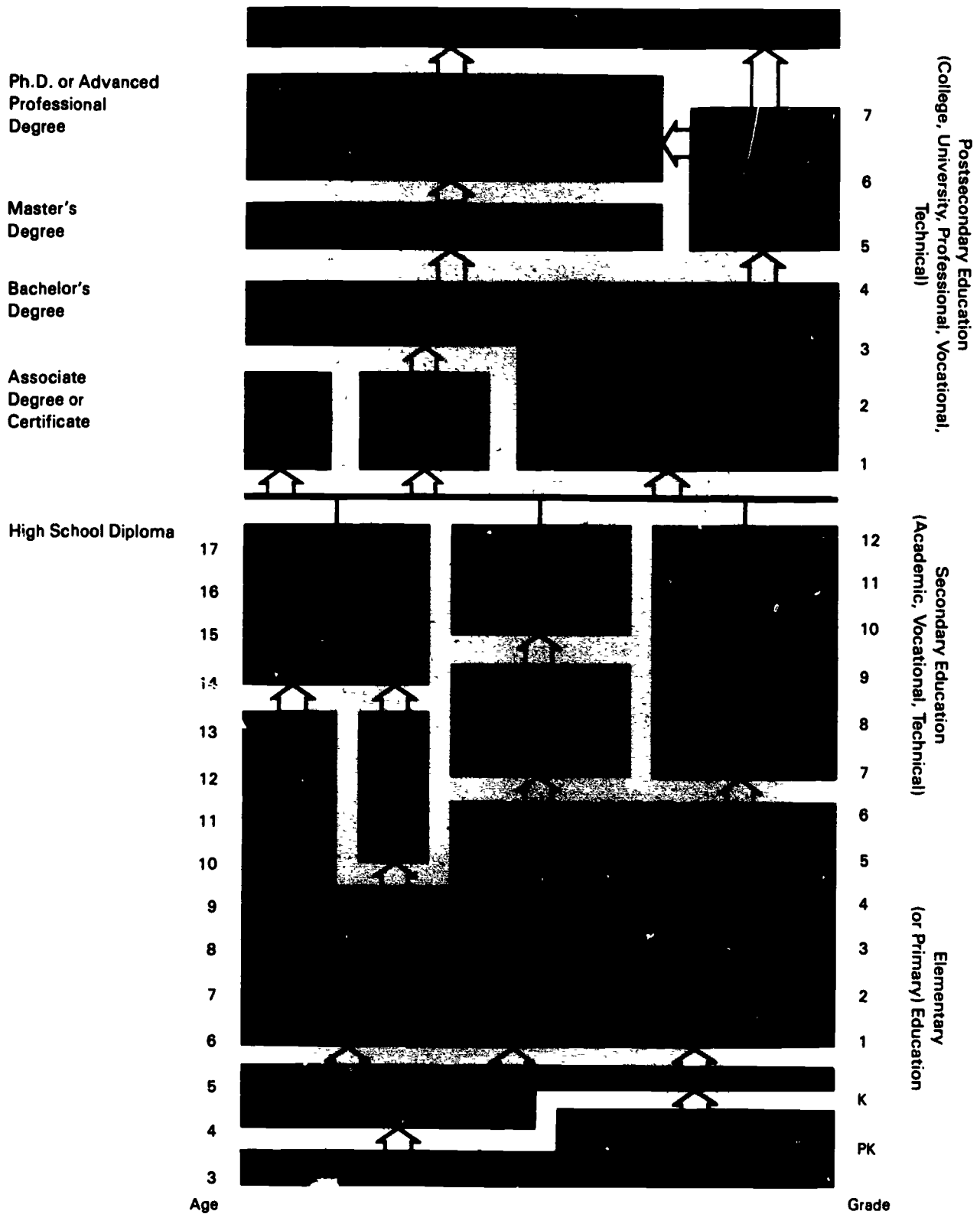
## Highlights

- In the fall of 1985, total elementary and secondary school enrollment increased for the first time since 1971. The increase from 1985 to 1988 was concentrated in the elementary grades, but this pattern is expected to change in the early 1990s. Between fall 1989 and 1995, public elementary enrollment is expected to rise 7 percent, while public secondary enrollment is expected to increase by 10 percent. Overall, enrollment is expected to increase by 3.1 million students, or about 6 percent. (Table 2)
- Over the past 10 years there has been little change in the proportion of students in private schools and colleges. Between 1978 and 1988, the proportion of elementary and secondary school students in private schools has been around 12 percent. At the same time, the proportion of college students in private institutions has remained at about 22 percent. (Table 2)
- College enrollment rose to a record level of 12.8 million in fall 1987 and remained at this high level in 1988. College enrollment is expected to remain steady through the 1990s because of the high attendance rates of younger age groups and the large number of older students. (Tables 3 and 150)
- The proportion of some age groups attending school has risen over the past two decades, but attendance rates for most groups have remained relatively steady. In 1987, about 38 percent of the 3- and 4-year-olds attended school compared to only 14 percent in 1967. The proportion of 30- to

34-year-olds attending college rose from 4 to 6 percent between 1967 and 1987. (Table 6)

- Increases in the amount of education completed by Americans has continued in 1988. In 1988, 76 percent of the population 25 years old and over had completed high school and 20 percent had completed 4 years of college. This represents an increase from 1980, when 69 percent had completed high school and 17 percent had 4 years of college. (Table 8)
- About 15 percent of persons over 18 had completed a bachelor's or higher degree in 1984. About 3 percent held a master's degree, 1 percent held a professional degree (e.g., medicine or law), and 0.5 percent held a doctor's degree. (Table 11)
- Between 1970 and 1988 there were substantial shifts in the composition of families. In 1970, 50 percent of families were married-couple families with children under 18 compared to 38 percent in 1988. In contrast, the proportion of families headed by women (no husband present) who had children under 18 rose from 6 percent to 10 percent. Altogether, more than 1 out of 5 children under 18 lived with one parent in 1987. (Tables 17 and 18)
- According to results of a nationwide survey, Americans have rated public schools more favorably in recent years. Those surveyed felt that the two largest problems facing schools were drugs (32 percent) and discipline (19 percent). (Tables 20 and 21)
- A 1987 survey asked parents and teachers to name activities that would "help a lot" to improve education. The activities most frequently mentioned by parents were: (1) having the school notify the parents immediately about any problems involving their child; (2) having parents limit television until all homework is finished; and (3) providing counseling and support services to children with emotional, mental, social, or family problems. (Table 23)
- The proportion of State and local government funds spent on education declined between 1977 and 1987, at least partly as a result of the drop in elementary and secondary enrollment and the expansion of other governmental services. Of the 1987 total State and local education funding, about 69 percent went to elementary and secondary schools, 27 percent went to colleges and universities, and 4 percent went to other education programs. (Tables 30 and 33)
- Education expenditures are expected to rise to a record high of \$330 billion in the 1988-89 school year. Elementary and secondary schools are expected to spend about 60 percent of this total, and colleges and universities are expected to account for the remaining 40 percent. Approximately 6.8 percent of the gross national product was spent by elementary and secondary schools and colleges and universities in 1987-88. (Tables 25 and 26)

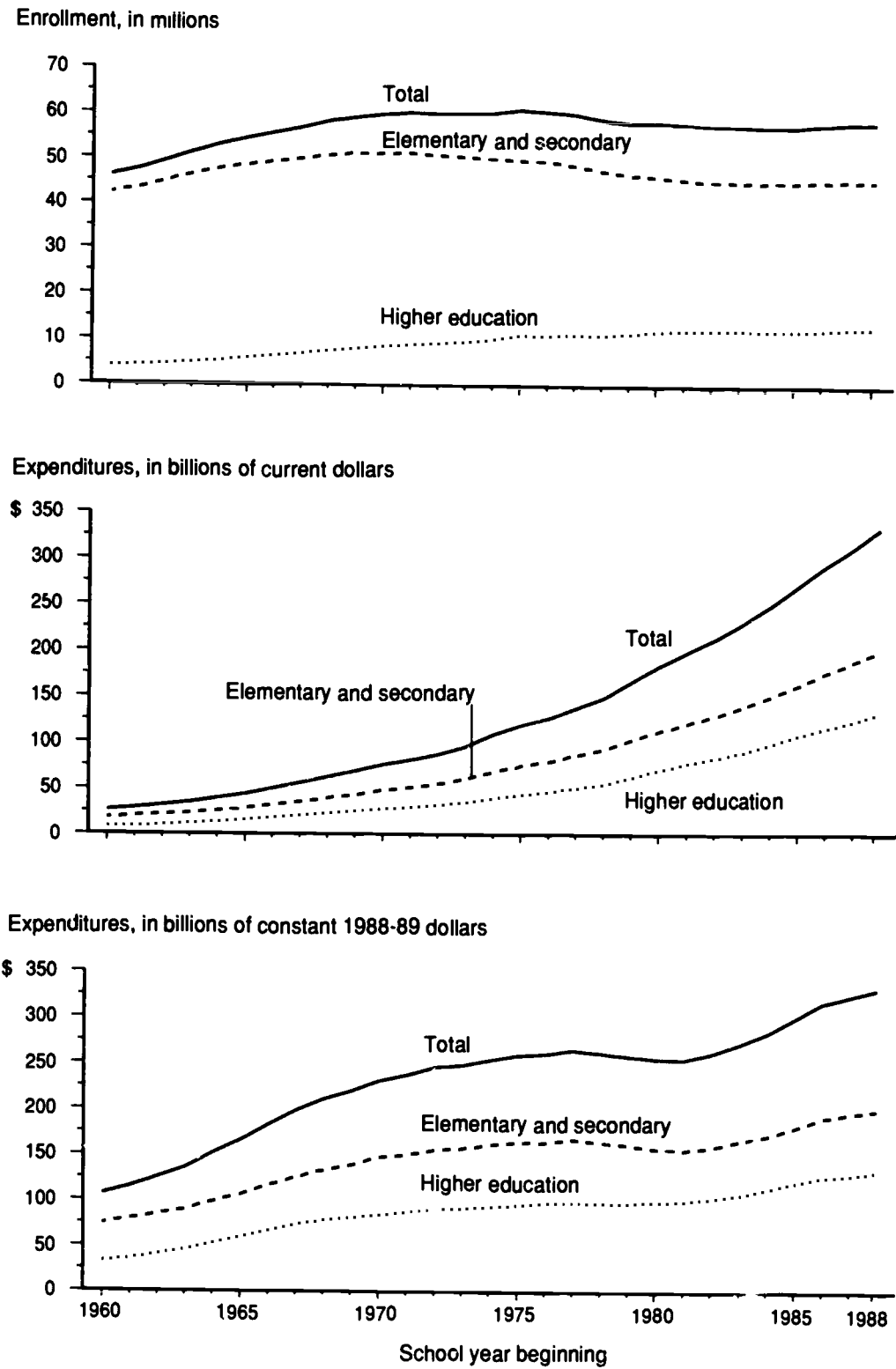
Figure 1.—The structure of education in the United States



NOTE.—Adult education programs, while not separately delineated above, may provide instruction at the elementary, secondary, or higher education level. Chart reflects typical patterns of progression rather than all possible variations.

SOURCE: U.S. Department of Education, National Center for Education Statistics.

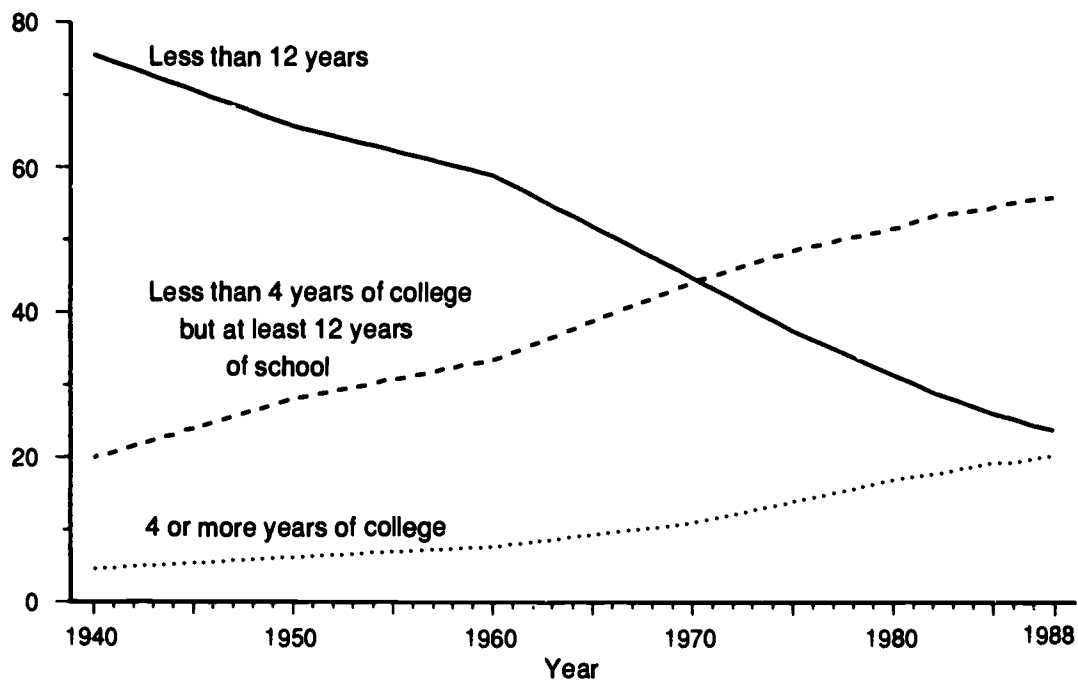
**Figure 2.—Enrollment and total expenditures in current and constant dollars, by level of education: 1960-61 to 1988-89**



SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems; Statistics of Public Elementary and Secondary School Systems; Statistics of Nonpublic Secondary School Systems; Statistics of Nonpublic Elementary and Secondary Schools; Revenues and Expenditures for Public Elementary and Secondary Education; Fall Enrollment in Institutions of Higher Education; Financial Statistics of Institutions of Higher Education; and Common Core of Data survey.*

**Figure 3.—Years of school completed by persons 25 years old and over: 1940 to 1988**

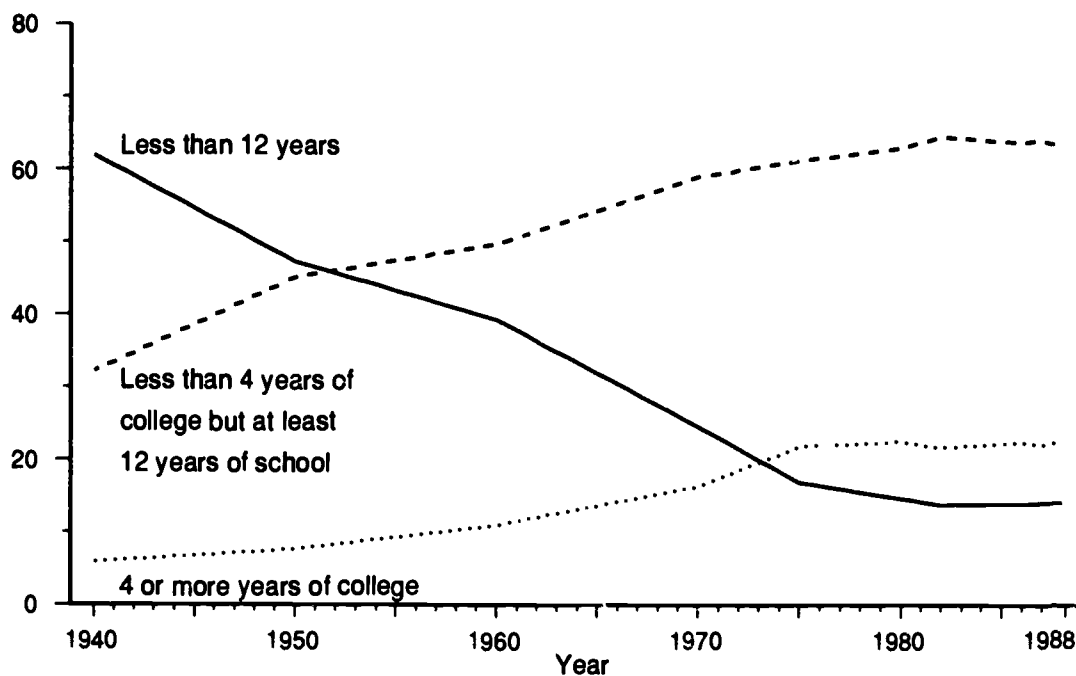
Percent of persons



SOURCE: U.S. Department of Commerce, Bureau of the Census, *1960 Census of Population*, Vol. 1 part 1; and *Current Population Reports*, Series P-20, "Educational Attainment in the United States."

**Figure 4.—Years of school completed by persons 25 to 29 years of age: 1940 to 1988**

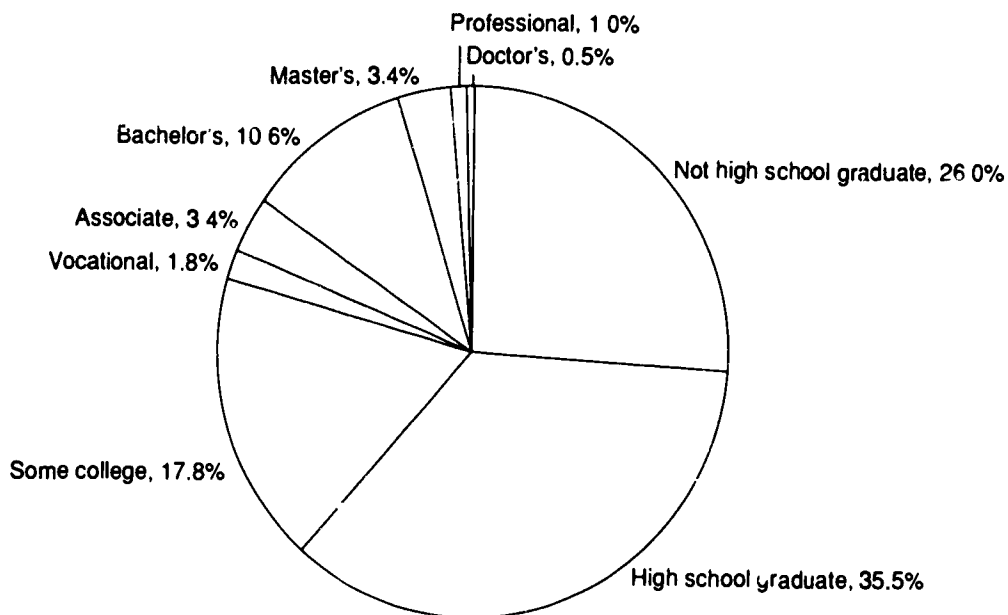
Percent of persons



SOURCE: U.S. Department of Commerce, Bureau of the Census, *1960 Census of Population*, Vol. 1 part 1; and *Current Population Reports*, Series P-20, "Educational Attainment in the United States."



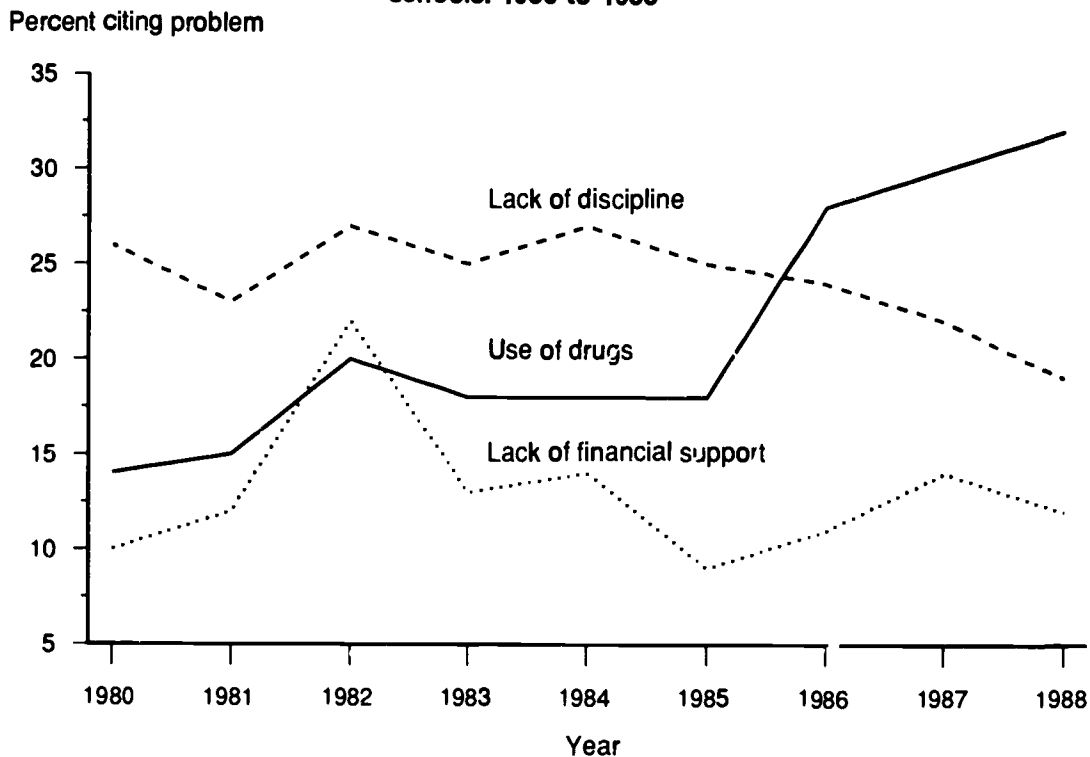
**Figure 5.—Highest degree earned by persons 18 years old and over: 1984**



Total persons age 18 and over = 170 million

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-70, No. 11, "Educational Background and Economic Status: Spring 1984."

**Figure 6.—Items most frequently cited by the public as the chief problem facing the local public schools: 1980 to 1988**



SOURCE: *Phi Delta Kappan*, "The 20th Annual Gallup Poll of the Public's Attitudes Toward the Public Schools," September 1988.

**Table 1.—Estimated number of participants in elementary and secondary education and in higher education: Fall 1988**

[In millions]

Participants	All levels (elementary, secondary, and higher education)	Elementary and secondary schools			Institutions of higher education <sup>1</sup>		
		Total	Public	Private	Total	Public	Private
1	2	3	4	5	6	7	8
<b>Total</b> .....	<b>65.2</b>	<b>50.3</b>	<b>44.5</b>	<b>5.8</b>	<b>14.9</b>	<b>11.5</b>	<b>3.4</b>
Enrollment <sup>2</sup> .....	58.3	45.4	40.2	5.2	12.8	10.0	2.8
Teachers and faculty .....	3.4	2.6	2.3	0.3	3.7	0.5	0.2
Other professional, administrative, and support staff .....	3.5	2.2	2.0	0.2	1.3	0.9	0.4

<sup>1</sup> Includes colleges and universities, but excludes noncollegiate postsecondary institutions.

<sup>2</sup> Preliminary figures include enrollments in local public school systems and in most private schools (religiously affiliated and nonsectarian). Excludes subcollegiate departments of institutions of higher education, residential schools for exceptional children, and Federal schools. Elementary and secondary includes most kindergarten and some nursery school enrollment. Excludes preprimary enrollment in schools that do not offer first grade. Higher education comprises full-time and part-time students enrolled in degree-credit and nondegree-credit programs in universities, other 4-year colleges, and 2-year colleges.

<sup>3</sup> Includes full-time and part-time faculty with the rank of instructor or above

NOTE—The enrollment figures include all students enrolled in elementary and secondary schools and in colleges and universities. The data for teachers and other staff in public and private elementary and secondary schools are reported in terms of full-time equivalents. The staff data for institutions of higher education include all professional, administrative, and support personnel. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, unpublished projections and estimates. (This table was prepared January 1989.)

**Table 2.—Enrollment in educational institutions, by level and control of institution: Fall 1980 to fall 1995**

[In thousands]

Level of instruction and type of control	Fall 1980	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986	Fall 1987 <sup>1</sup>	Estimated fall 1988	Projected fall 1989	Projected fall 1990	Projected fall 1995
1	2	3	4	5	6	7	8	9	10	11	12
<b>All levels</b> .....	<b>58,414</b>	<b>57,678</b>	<b>57,532</b>	<b>57,237</b>	<b>57,313</b>	<b>57,794</b>	<b>58,140</b>	<b>58,286</b>	<b>58,682</b>	<b>59,325</b>	<b>62,057</b>
Public .....	50,444	49,348	49,035	48,773	48,988	49,552	49,999	50,241	50,511	51,063	53,543
Private .....	7,971	8,330	8,497	8,465	8,325	8,242	8,140	8,045	8,171	8,262	8,514
<b>Elementary and secondary education<sup>2</sup></b> .....	<b>48,318</b>	<b>45,252</b>	<b>45,067</b>	<b>44,995</b>	<b>45,066</b>	<b>45,290</b>	<b>45,371</b>	<b>45,438</b>	<b>45,585</b>	<b>46,112</b>	<b>49,122</b>
Public .....	40,987	39,852	39,352	39,295	39,509	39,837	40,024	40,196	40,323	40,772	43,453
Private .....	5,331	<sup>3</sup> 5,600	5,715	<sup>3</sup> 5,700	5,557	5,452	5,347	5,241	5,272	5,340	5,669
<b>Grades K-8<sup>4</sup></b> .....	<b>31,666</b>	<b>31,356</b>	<b>31,312</b>	<b>31,216</b>	<b>31,244</b>	<b>31,520</b>	<b>32,004</b>	<b>32,426</b>	<b>32,915</b>	<b>33,549</b>	<b>35,123</b>
Public .....	27,674	27,156	26,997	26,918	27,049	27,404	27,886	28,390	28,818	29,373	30,751
Private .....	3,992	<sup>3</sup> 4,200	4,315	<sup>3</sup> 4,300	4,195	4,116	4,118	4,036	4,097	4,176	4,372
<b>Grades 9-12</b> .....	<b>14,852</b>	<b>13,896</b>	<b>13,755</b>	<b>13,777</b>	<b>13,822</b>	<b>13,770</b>	<b>13,367</b>	<b>13,013</b>	<b>12,680</b>	<b>12,563</b>	<b>13,999</b>
Public .....	13,313	12,496	12,355	12,377	12,460	12,434	12,138	11,806	11,505	11,399	12,702
Private .....	1,339	<sup>3</sup> 1,400	1,400	<sup>3</sup> 1,400	1,362	1,336	1,229	1,206	1,175	1,164	1,297
<b>Hg. education<sup>5</sup></b> .....	<b>12,097</b>	<b>12,426</b>	<b>12,485</b>	<b>12,242</b>	<b>12,247</b>	<b>12,505</b>	<b>12,768</b>	<b>12,849</b>	<b>13,087</b>	<b>13,213</b>	<b>12,935</b>
Public .....	9,457	9,896	9,883	9,477	9,479	9,715	9,975	10,045	10,188	10,291	10,090
Undergraduate <sup>6</sup> .....	8,442	8,713	8,697	8,493	8,477	8,661	8,920	8,985	9,075	9,189	8,966
First-professional .....	114	113	113	114	112	112	110	114	115	115	113
Graduate <sup>7</sup> .....	901	870	872	870	890	941	944	946	998	1,007	1,011
Private .....	2,640	2,730	2,782	2,765	2,768	2,790	2,793	2,804	2,899	2,922	2,845
Undergraduate <sup>6</sup> .....	2,033	2,112	2,149	2,125	2,120	2,137	2,128	2,152	2,200	2,218	2,142
First-professional .....	163	165	165	165	162	158	158	154	164	166	163
Graduate <sup>7</sup> .....	443	453	468	475	486	494	508	498	535	538	540

<sup>1</sup> Preliminary.

<sup>2</sup> Includes enrollments in local public school systems and in most private schools (religiously affiliated and nonsectarian). Excludes subcollegiate departments of institutions of higher education, residential schools for exceptional children, and Federal schools. Excludes preprimary pupils in schools without elementary grades.

<sup>3</sup> Estimated.

<sup>4</sup> Includes kindergarten and a relatively small number of nursery school pupils.

<sup>5</sup> Includes full-time and part-time students enrolled in degree-credit and nondegree-credit programs in colleges, universities, professional schools, teachers colleges, and 2-year colleges.

<sup>6</sup> Includes unclassified students below the baccalaureate level.

<sup>7</sup> Includes unclassified postbaccalaureate students.

NOTE—Because of rounding, details may not add to totals. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data and "Fall Enrollment in Institutions of Higher Education" surveys, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys, and *Projections of Education Statistics to 2000*. (This table was prepared May 1989.)

Table 3.—Enrollment in educational institutions, by level and by control of institution: 1869-70 to fall 2000

[In thousands]

Year	Total enrollment, all levels	Elementary and secondary, total	Public elementary and secondary schools			Private elementary and secondary schools <sup>1</sup>			Higher education <sup>2</sup>		
			Total	Kindergarten through grade 8	Grades 9 through 12	Total	Kindergarten through grade 8	Grades 9 through 12	Total	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12
1869-70.....	—	—	6,872	6,792	80	—	—	—	52	—	—
1878-80.....	—	—	9,868	9,757	110	—	—	—	116	—	—
1889-90.....	14,491	14,334	12,723	12,520	203	1,611	1,516	95	157	—	—
1899-1900.....	17,092	16,855	15,503	14,984	519	1,352	1,241	111	238	—	—
1909-10.....	19,728	19,372	17,814	16,899	915	1,558	1,441	117	355	—	—
1919-20.....	23,876	23,278	21,578	19,378	2,200	1,699	1,486	214	598	—	—
1929-30.....	29,430	28,329	25,678	21,279	4,399	2,651	2,310	341	1,101	—	—
1939-43.....	29,539	28,045	25,434	18,832	6,601	2,611	2,153	458	1,494	797	698
1949-50.....	31,151	28,492	25,111	19,387	5,725	3,390	2,708	672	2,659	1,355	1,304
Fall 1959.....	44,497	40,857	35,182	26,911	8,271	5,675	4,640	1,035	3,640	2,181	1,459
Fall 1964.....	52,996	47,716	41,416	30,025	11,391	<sup>3</sup> 6,300	<sup>3</sup> 5,000	1,300	5,280	3,468	1,812
Fall 1965.....	54,394	48,473	42,173	30,563	11,610	6,300	4,900	1,400	5,921	3,970	1,951
Fall 1966.....	55,629	49,239	43,039	31,145	11,894	<sup>3</sup> 6,200	<sup>3</sup> 4,800	<sup>3</sup> 1,400	6,390	4,349	2,041
Fall 1967.....	56,803	49,891	43,891	31,641	12,250	<sup>3</sup> 6,000	<sup>3</sup> 4,600	<sup>3</sup> 1,400	6,912	4,816	2,096
Fall 1968.....	58,257	50,744	44,944	32,226	12,718	5,800	4,400	1,400	7,513	5,431	2,082
Fall 1969.....	59,124	51,119	45,619	32,597	13,022	<sup>3</sup> 5,500	<sup>3</sup> 4,200	<sup>3</sup> 1,300	8,005	5,897	2,108
Fall 1970.....	59,853	51,272	45,909	32,577	13,332	5,363	4,052	1,311	8,581	6,426	2,153
Fall 1971.....	60,230	51,281	46,081	32,265	13,816	<sup>3</sup> 5,200	<sup>3</sup> 3,900	<sup>3</sup> 1,300	8,949	6,804	2,144
Fall 1972.....	59,959	50,744	45,744	31,831	13,913	<sup>3</sup> 5,000	<sup>3</sup> 3,700	<sup>3</sup> 1,300	9,215	7,071	2,144
Fall 1973.....	60,031	50,429	45,429	31,353	14,077	<sup>3</sup> 5,000	<sup>3</sup> 3,700	<sup>3</sup> 1,300	9,602	7,420	2,183
Fall 1974.....	60,277	50,053	45,053	30,921	14,132	<sup>3</sup> 5,000	<sup>3</sup> 3,700	<sup>3</sup> 1,300	10,224	7,989	2,235
Fall 1975.....	60,976	49,791	44,791	30,487	14,304	<sup>3</sup> 5,000	<sup>3</sup> 3,700	<sup>3</sup> 1,300	11,185	8,835	2,350
Fall 1976.....	60,496	49,484	44,317	30,006	14,311	5,167	3,825	1,342	11,012	8,653	2,359
Fall 1977.....	60,003	48,717	43,577	29,336	14,240	5,140	3,797	1,343	11,286	8,847	2,439
Fall 1978.....	58,896	47,636	42,550	28,328	14,223	5,086	3,732	1,353	11,260	8,792	2,474
Fall 1979.....	58,215	46,645	41,645	27,931	13,714	<sup>3</sup> 5,000	<sup>3</sup> 3,700	<sup>3</sup> 1,300	11,570	9,037	2,533
Fall 1980.....	58,414	46,318	40,987	27,674	13,313	5,331	3,992	1,339	12,097	9,457	2,640
Fall 1981.....	57,971	45,599	40,099	27,267	12,833	<sup>3</sup> 5,500	<sup>3</sup> 4,100	<sup>3</sup> 1,400	12,372	9,647	2,725
Fall 1982.....	57,678	45,252	39,652	27,156	12,496	<sup>3</sup> 5,600	<sup>3</sup> 4,200	<sup>3</sup> 1,400	12,426	9,696	2,730
Fall 1983.....	57,532	45,067	39,352	26,997	12,355	5,715	4,315	1,400	12,465	9,683	2,782
Fall 1984.....	57,237	44,995	39,295	26,918	12,377	<sup>3</sup> 5,700	<sup>3</sup> 4,300	<sup>3</sup> 1,400	12,242	9,477	2,765
Fall 1985.....	57,313	45,066	39,509	27,049	12,480	5,557	4,195	1,362	12,247	9,479	2,768
Fall 1986.....	57,794	45,289	39,837	27,404	12,434	<sup>3</sup> 5,452	<sup>3</sup> 4,116	<sup>3</sup> 1,336	12,505	9,715	2,790
Fall 1987.....	58,140	45,371	40,024	27,866	12,138	<sup>3</sup> 5,347	<sup>3</sup> 4,118	<sup>3</sup> 1,229	12,768	9,975	2,793
Fall 1988.....	58,286	45,437	40,196	28,390	11,806	5,241	4,036	1,206	12,849	10,045	2,804
Fall 1989.....	58,682	45,595	40,323	28,818	11,505	5,272	4,097	1,175	13,087	10,168	2,899
Fall 1990.....	59,325	46,112	40,772	29,373	11,399	5,340	4,176	1,164	13,213	10,291	2,922
Fall 1991.....	59,951	46,718	41,306	29,803	11,503	5,412	4,237	1,175	13,233	10,308	2,925
Fall 1992.....	60,495	47,369	41,883	30,189	11,694	5,486	4,292	1,194	13,126	10,228	2,898
Fall 1993.....	61,037	48,011	42,455	30,473	11,982	5,556	4,332	1,224	13,026	10,154	2,872
Fall 1994.....	61,599	48,644	43,023	30,642	12,381	5,621	4,356	1,265	12,955	10,102	2,853
Fall 1995.....	62,057	49,122	43,453	30,751	12,702	5,669	4,372	1,297	12,935	10,090	2,845
Fall 1996.....	62,463	49,493	43,788	30,785	13,003	5,705	4,376	1,329	12,973	10,121	2,852
Fall 1997.....	62,745	49,697	43,974	30,767	13,207	5,723	4,374	1,349	13,048	10,178	2,870
Fall 1998.....	62,884	49,722	43,997	30,763	13,234	5,725	4,373	1,352	13,162	10,264	2,898
Fall 1999.....	62,950	49,668	43,954	30,603	13,351	5,714	4,351	1,363	13,282	10,356	2,925
Fall 2000.....	62,908	49,530	43,835	30,417	13,418	5,695	4,324	1,371	13,378	10,427	2,951

<sup>1</sup> Beginning in fall 1980, data include estimates for an expanded universe of private schools. Therefore, these totals may differ from figures shown in other tables, and direct comparisons with earlier years should be avoided.

<sup>2</sup> Data for 1869-70 through 1949-50 include resident degree-credit students enrolled at any time during the academic year. Beginning in 1959, data include all resident and extension students enrolled at the beginning of the fall term.

<sup>3</sup> Estimated.

<sup>4</sup> Preliminary data.

<sup>5</sup> Based on "Early Estimates" surveys.

<sup>6</sup> Projected.

—Data not available.

NOTE—Elementary and secondary enrollment includes pupils in local public school systems and in most private schools (religiously affiliated and nonsectarian), but generally excludes pupils in subcollegiate departments of institutions of higher education, residential schools for exceptional children, and Federal schools. Elementary enrollment includes some prekindergarten pupils. Higher education enrollment includes students in colleges, universities, professional schools, teachers colleges, and 2-year colleges. Higher education enrollment projections are based on the middle alternative projections published by the National Center for Education Statistics. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems; Statistics of Public Elementary and Secondary School Systems; Statistics of Nonpublic Elementary and Secondary Schools; Projections of Education Statistics to 2000, Common Core of Data*; "Fall Enrollment in Institutions of Higher Education"; and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared May 1989).

**Table 4.—Teachers in elementary and secondary schools, and senior instructional staff in institutions of higher education, by control of institution: Fall 1970 to fall 1995**

[In thousands]

Level of instruction and type of control	Fall 1970	Fall 1975	Fall 1980	Fall 1981	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986	Fall 1987 <sup>1</sup>	Estimated fall 1988	Projected fall 1989	Projected fall 1990	Projected fall 1995
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>All levels</b> .....	<b>2,762</b>	<b>3,079</b>	<b>3,171</b>	<b>3,149</b>	<b>3,156</b>	<b>3,187</b>	<b>3,225</b>	<b>3,265</b>	<b>3,314</b>	<b>3,363</b>	<b>3,390</b>	<b>3,447</b>	<b>3,488</b>	<b>3,852</b>
Public .....	2,369	2,639	2,679	2,634	2,627	2,638	2,673	2,710	2,754	2,802	2,828	2,874	2,908	3,055
Private .....	393	440	492	509	529	549	552	555	560	561	562	573	580	597
<b>Elementary and secondary teachers</b> <sup>2</sup> .....	<b>2,288</b>	<b>2,451</b>	<b>2,485</b>	<b>2,438</b>	<b>2,446</b>	<b>2,483</b>	<b>2,508</b>	<b>2,550</b>	<b>2,592</b>	<b>2,627</b>	<b>2,649</b>	<b>2,691</b>	<b>2,724</b>	<b>2,909</b>
Public schools .....	2,055	2,196	2,184	2,125	2,121	2,126	2,168	2,207	2,244	2,279	2,304	2,340	2,367	2,529
Private schools .....	233	<sup>3</sup> 255	301	<sup>3</sup> 313	<sup>3</sup> 325	337	<sup>3</sup> 340	343	<sup>3</sup> 348	<sup>3</sup> 348	345	352	357	380
<b>Elementary teachers</b> .....	<b>1,281</b>	<b>1,352</b>	<b>1,401</b>	<b>1,380</b>	<b>1,402</b>	<b>1,418</b>	<b>1,448</b>	<b>1,483</b>	<b>1,517</b>	<b>1,551</b>	<b>1,567</b>	<b>1,592</b>	<b>1,827</b>	<b>1,719</b>
Public schools .....	1,128	1,180	1,189	1,159	1,171	1,178	1,205	1,237	1,267	1,297	1,316	1,336	1,385	1,443
Private schools .....	153	<sup>3</sup> 172	212	<sup>3</sup> 221	<sup>3</sup> 231	240	<sup>3</sup> 243	246	<sup>3</sup> 250	<sup>3</sup> 254	251	256	261	276
<b>Secondary teachers</b> .....	<b>1,007</b>	<b>1,099</b>	<b>1,084</b>	<b>1,057</b>	<b>1,044</b>	<b>1,045</b>	<b>1,060</b>	<b>1,067</b>	<b>1,075</b>	<b>1,076</b>	<b>1,081</b>	<b>1,099</b>	<b>1,097</b>	<b>1,191</b>
Public schools .....	927	1,018	995	965	950	948	963	970	977	992	987	1,003	1,001	1,087
Private schools .....	80	<sup>3</sup> 83	89	<sup>3</sup> 92	<sup>3</sup> 94	97	<sup>3</sup> 97	97	<sup>3</sup> 98	<sup>3</sup> 94	94	96	96	104
<b>Higher education senior instructional staff</b> <sup>4</sup> .....	<b>474</b>	<b>628</b>	<b><sup>3</sup>686</b>	<b>705</b>	<b><sup>3</sup>710</b>	<b>724</b>	<b><sup>3</sup>717</b>	<b><sup>3</sup>715</b>	<b><sup>3</sup>722</b>	<b><sup>3</sup>736</b>	<b>741</b>	<b>755</b>	<b>762</b>	<b>743</b>
Public institutions .....	314	443	<sup>3</sup> 495	509	<sup>3</sup> 506	512	<sup>3</sup> 505	<sup>3</sup> 503	<sup>3</sup> 510	<sup>3</sup> 523	524	534	539	526
Private institutions .....	160	185	<sup>3</sup> 191	196	<sup>3</sup> 204	212	<sup>3</sup> 212	<sup>3</sup> 212	<sup>3</sup> 212	<sup>3</sup> 213	217	221	223	217

<sup>1</sup> Preliminary data<sup>2</sup> Includes teachers in local public school systems and in most private schools (religiously affiliated and nonsectarian). Excludes subcollegiate departments of institutions of higher education, residential schools for exceptional children, and Federal schools. Teachers are reported in terms of full-time equivalents.<sup>3</sup> Estimated on the basis of enrollment.<sup>4</sup> Includes full-time and part-time faculty with the rank of instructor or above in colleges, universities, professional schools, teachers colleges, and 2-year colleges. Excludes teaching assistants.

NOTE.—Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data, *Projections of Education Statistics to 2000*; and Equal Employment Opportunity Commission, unpublished data. (This table was prepared May 1989.)

Table 5.—Educational Institutions, by level and control of institution: 1976-77 to 1987-88

Level and control of institution	1976-77	1978-79	1980-81	1982-83	1984-85	1986-87	1987-88
1	2	3	4	5	6	7	8
All institutions.....	—	—	117,707	—	—	—	—
Elementary and secondary schools.....	—	—	106,746	—	109,623	—	—
Elementary.....	74,053	73,062	72,659	—	72,534	—	—
Secondary.....	26,457	25,259	24,856	—	24,758	—	—
Combined.....	4,859	4,904	5,202	—	6,545	—	—
Other.....	—	—	4,029	—	5,786	—	—
Public schools.....	—	—	85,982	84,740	84,007	83,455	83,248
Elementary.....	61,123	60,312	59,326	58,051	57,231	58,801	59,311
Secondary.....	23,857	22,834	22,619	22,383	22,320	21,406	20,758
Combined.....	1,521	1,670	1,743	1,605	1,596	1,983	2,179
Other.....	—	—	2,294	2,701	2,860	1,285	1,000
Private schools.....	19,910	19,489	20,764	—	<sup>1</sup> 25,616	—	—
Elementary.....	12,930	12,750	13,333	—	<sup>1</sup> 15,303	—	—
Secondary.....	2,600	2,425	2,237	—	<sup>1</sup> 2,438	—	—
Combined.....	3,338	3,234	3,459	—	<sup>1</sup> 4,949	—	—
Other.....	1,042	1,080	1,735	—	<sup>1</sup> 2,926	—	—
Postsecondary institutions.....	—	—	<sup>2</sup> 10,961	—	—	12,362	12,056
Public.....	—	—	<sup>2</sup> 2,393	—	—	2,363	2,250
Private nonprofit.....	—	—	<sup>2</sup> 2,359	—	—	3,432	3,254
Proprietary.....	—	—	<sup>2</sup> 6,209	—	—	6,567	6,552
Noncollegiate institutions.....	—	—	<sup>2</sup> 7,730	—	—	8,956	8,469
Public.....	—	—	<sup>2</sup> 896	—	—	830	659
Private nonprofit.....	—	—	<sup>2</sup> 790	—	—	1,797	1,581
Proprietary.....	—	—	<sup>2</sup> 6,044	—	—	6,329	6,229
Institutions of higher education <sup>3</sup> .....	3,046	3,134	3,231	3,280	3,331	3,406	3,587
2-year colleges.....	1,133	1,193	1,274	1,296	1,306	1,336	1,452
Public.....	905	924	945	933	935	960	992
Private nonprofit.....	188	188	182	363	186	173	186
Proprietary.....	40	81	147	(*)	185	203	274
4-year colleges.....	1,913	1,941	1,957	1,984	2,025	2,070	2,135
Public.....	550	550	552	560	566	573	599
Private nonprofit.....	1,348	1,376	1,387	1,424	1,430	1,462	1,487
Proprietary.....	15	15	18	(*)	29	35	49

<sup>1</sup> Data are for 1985-86. Data were collected from a sample survey that differed significantly from earlier surveys. The sample survey was designed to correct an undercount of about 10 percent that was known to have occurred in earlier surveys.

<sup>2</sup> Because of changes in survey procedures, figures are not directly comparable with data for 1986-87 and 1987-88.

<sup>3</sup> Includes only those institutions designated as institutions of higher education by the Higher Education General Information Survey system. Includes branch campuses. Beginning in 1980, total includes some schools accredited by the National Association of Trade and Technical Schools.

<sup>4</sup> Included under "private nonprofit"

—Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data and Private School surveys, Higher Education General Information Survey, "Institutional Characteristics of Colleges and Universities", and Integrated Postsecondary Education Data System, "Institutional Characteristics" (This table was prepared March 1989).

Table 6.—Percent of the population 3 to 34 years old enrolled in school,<sup>1</sup> by age: April 1940 to October 1987

Year	Total, 3 to 34 years	3 and 4 years	5 and 6 years	7 to 13 years	14 to 17 years	18 and 19 years	20 to 24 years			25 to 29 years	30 to 34 years
							Total	20 and 21 years	22 to 24 years		
1	2	3	4	5	6	7	8	9	10	11	12
1940 <sup>2</sup> .....	—	—	43.0	95.0	79.3	28.9	6.6	—	—	—	—
1945.....	—	—	60.4	98.1	78.4	20.7	3.9	—	—	—	—
1947.....	—	—	58.0	98.5	79.3	24.3	10.2	—	—	3.0	—
1948.....	—	—	56.0	98.1	81.8	26.9	9.7	—	—	2.6	—
1949.....	—	—	59.3	98.6	81.6	25.3	9.2	—	—	3.8	—
1950.....	—	—	58.2	98.7	83.4	29.7	9.2	—	—	3.0	0.9
1951.....	—	—	54.5	99.1	85.2	26.2	8.6	—	—	2.5	—
1952.....	—	—	54.7	98.8	85.2	28.8	9.7	—	—	2.6	1.2
1953.....	—	—	55.7	99.4	85.9	31.2	11.1	—	—	2.9	1.7
1954.....	—	—	77.3	99.4	87.1	32.4	11.2	—	—	4.1	1.5
1955.....	—	—	78.1	99.2	86.9	31.5	11.1	—	—	4.2	1.1
1956.....	—	—	77.6	99.3	88.2	35.4	12.8	—	—	5.1	1.1
1957.....	—	—	78.6	99.5	89.5	34.9	14.0	—	—	—	—
1958.....	—	—	80.4	99.5	89.2	37.6	13.4	—	—	—	—
1959.....	—	—	80.0	99.4	90.2	38.8	12.7	—	—	—	—
1960.....	—	—	80.7	99.5	90.3	38.4	13.1	—	—	4.9	2.4
1961.....	—	—	81.7	99.3	91.4	38.0	13.7	—	—	—	—
1962.....	—	—	82.2	99.3	92.0	41.8	15.6	—	—	—	—
1963.....	—	—	82.7	99.3	92.9	40.9	17.3	—	—	—	—
1964.....	—	—	83.3	99.0	93.1	41.6	16.8	—	—	5.2	2.6
1965.....	55.5	10.6	84.9	99.4	93.2	46.3	19.0	27.6	13.2	6.1	3.2
1966.....	56.1	12.5	85.8	99.3	93.7	47.2	19.9	29.9	13.2	6.5	2.7
1967.....	56.6	14.2	87.4	99.3	93.7	47.6	22.0	33.3	13.6	6.6	4.0
1968.....	56.7	15.7	87.6	99.1	94.2	50.4	21.4	31.2	13.8	7.0	3.9
1969.....	57.0	16.1	88.4	99.2	94.0	50.2	23.0	34.1	15.4	7.9	4.8
1970.....	56.4	20.5	89.5	99.2	94.1	47.7	21.5	31.9	14.9	7.5	4.2
1971.....	56.2	21.2	91.6	99.1	94.5	49.2	21.9	32.2	15.4	8.0	4.9
1972.....	54.9	24.4	91.9	99.2	93.3	46.3	21.6	31.4	14.8	8.6	4.6
1973.....	53.5	24.2	92.5	99.2	92.9	42.9	20.8	30.1	14.5	8.5	4.5
1974.....	53.6	28.8	94.2	99.3	92.9	43.1	21.4	30.2	15.1	9.6	5.7
1975.....	53.7	31.5	94.7	99.3	93.6	46.9	22.4	31.2	16.2	10.1	6.6
1976.....	53.1	31.3	95.5	99.2	93.7	46.2	23.3	32.0	17.1	10.0	6.0
1977.....	52.5	32.0	95.8	99.4	93.6	46.2	22.9	31.8	16.5	10.8	6.9
1978.....	51.2	34.2	95.3	99.1	93.7	45.4	21.8	29.5	16.3	9.4	6.4
1979.....	50.3	35.1	95.8	99.2	93.6	45.0	21.7	30.2	15.8	9.6	6.4
1980.....	49.7	36.7	95.7	99.3	93.4	46.4	22.3	31.0	16.3	9.3	6.4
1981.....	48.9	36.0	94.0	99.2	94.1	49.0	22.5	31.6	16.5	9.0	6.9
1982.....	48.6	36.4	95.0	99.2	94.4	47.8	23.5	34.0	16.8	9.6	6.3
1983.....	48.4	37.5	95.4	99.2	95.0	50.4	22.7	32.5	16.6	9.6	6.4
1984.....	47.9	36.3	94.5	99.2	94.7	50.1	23.7	33.9	17.3	9.1	6.3
1985.....	48.3	38.9	96.1	99.2	94.9	51.6	24.0	35.3	16.9	9.2	6.1
1986.....	48.2	38.9	95.3	99.2	94.9	54.6	23.6	33.0	17.9	8.8	6.0
1987.....	48.6	38.3	95.1	99.5	95.0	55.6	25.5	38.7	17.5	9.0	5.8

<sup>1</sup> Includes enrollment in any type of graded public, parochial, or other private school in regular school systems. Includes nursery schools, kindergartens, elementary schools, colleges, universities, and professional schools. Attendance may be on either a full-time or part-time basis and during the day or night. Enrollments in "special" schools, such as trade schools, business colleges, or correspondence schools, are not included.

<sup>2</sup> Data are as of April 1940. Data for all other years are as of October.

— Data not available.

NOTE—Data are based upon sample surveys of the civilian noninstitutional population.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970, Current Population Reports, Series P-20*, various years, and unpublished data. (This table was prepared March 1989.)

**Table 7.—Percent of the population 3 to 34 years old enrolled in school,<sup>1</sup> by race/ethnicity, sex, and age: October 1987**

Sex and age	All races	White	Black	Hispanic origin <sup>2</sup>	Sex and age	All races	White	Black	Hispanic origin <sup>2</sup>
1	2	3	4	5	1	2	3	4	5
<b>Both sexes</b>					<b>Male (continued)</b>				
Total, 3 to 34 years.....	48.8	47.7	51.7	45.3	14 and 15 years .. . . .	98.7	98.8	98.1	99.4
3 and 4 years.....	38.3	38.2	36.8	28.3	18 and 17 years . . . . .	92.3	92.5	91.8	91.0
5 and 6 years.....	95.1	94.8	95.8	92.5	18 and 19 years . . . . .	57.9	57.3	58.7	44.4
7 to 9 years.....	99.6	99.8	99.7	99.0	20 and 21 years . . . . .	41.2	42.1	30.3	30.1
10 to 13 years.....	99.5	99.4	99.8	99.3	22 to 24 years . . . . .	18.7	18.4	15.5	10.8
14 and 15 years.....	98.6	98.5	98.3	97.5	25 to 29 years . . . . .	9.1	8.8	8.4	8.3
16 and 17 years.....	91.7	91.8	91.5	86.4	30 to 34 years . . . . .	5.0	5.0	3.4	3.7
16 and 19 years.....	55.6	55.3	53.2	41.2	<b>Female</b>				
20 and 21 years.....	38.7	39.8	28.7	28.3	Total, 3 to 34 years .....	47.4	46.7	49.8	45.4
22 to 24 years.....	17.5	17.3	15.0	12.6	3 and 4 years.....	36.5	36.4	34.4	28.9
25 to 29 years.....	9.0	8.7	9.3	8.1	5 and 6 years.....	94.5	94.4	94.1	91.2
30 to 34 years.....	5.8	5.7	8.0	4.4	7 to 9 years.....	99.5	99.5	99.3	98.7
<b>Male</b>					10 to 13 years.....	99.2	99.1	99.7	98.6
Total, 3 to 34 years.....	49.8	48.8	54.0	45.2	14 and 15 years.....	98.4	98.3	98.6	95.2
3 and 4 years.....	40.0	39.8	39.0	27.7	18 and 17 years . . . . .	91.1	91.0	91.2	81.8
5 and 6 years.....	95.7	95.2	97.4	93.8	18 and 19 years . . . . .	53.4	53.3	48.2	38.6
7 to 9 years.....	99.7	99.8	100.0	99.4	20 and 21 years . . . . .	36.4	37.3	27.4	25.8
10 to 13 years.....	99.7	99.7	99.8	100.0	22 to 24 years . . . . .	18.4	16.2	14.8	14.7
					25 to 29 years . . . . .	9.0	8.7	10.0	7.9
					30 to 34 years . . . . .	6.7	6.4	8.1	5.1

<sup>1</sup>Includes enrollment in any type of graded public, parochial, or other private school in regular school systems. Includes nursery schools, kindergartens, elementary schools, high schools, colleges, universities, and professional schools. Attendance may be on either a full-time or part-time basis and during the day or night. Enrollments in "special" schools, such as trade schools, business colleges, or correspondence schools, are not included.

<sup>2</sup>Persons of Hispanic origin may be of any race.

NOTE—Data are based upon a sample survey of the civilian noninstitutional population.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey, unpublished data. (This table was prepared March 1989.)

Table 8.—Years of school completed by persons age 25 and over and 25 to 29, by race: 1910 to 1988

Race, age, and date	Percent, by years of school completed			Median school years completed	Race, age, and date	Percent, by years of school completed			Median school years completed
	Less than 5 years of elementary school	4 years of high school or more	4 or more years of college			Less than 5 years of elementary school	4 years of high school or more	4 or more years of college	
1	2	3	4	5	1	2	3	4	5
<b>All races</b>					<b>White<sup>2</sup> (continued)</b>				
<b>25 and over</b>					<b>25 to 29</b>				
1910 <sup>1</sup> .....	23.8	13.5	2.7	8.1	1920 <sup>1</sup> .....	12.9	22.0	4.5	6.5
1920 <sup>1</sup> .....	22.0	16.4	3.3	8.2	April 1940.....	3.4	41.2	6.4	10.7
1930 <sup>1</sup> .....	17.5	19.1	3.9	8.4	April 1950.....	3.3	58.3	8.2	12.2
April 1940.....	13.7	24.5	4.6	8.6	April 1960.....	2.2	63.7	11.8	12.3
April 1950.....	11.1	34.3	6.2	9.3	March 1970.....	0.9	77.8	17.3	12.6
April 1960.....	8.3	41.1	7.7	10.5	March 1975.....	1.0	84.4	22.8	12.8
March 1970.....	5.3	55.2	11.0	12.2	March 1980.....	0.8	86.9	23.7	12.9
March 1975.....	4.2	62.5	13.9	12.3	March 1982.....	0.8	86.9	22.7	12.9
March 1980.....	3.4	68.6	17.0	12.5	March 1985.....	0.8	86.8	23.2	12.9
March 1982.....	3.0	71.0	17.7	12.6	March 1986.....	0.9	86.5	23.5	12.9
March 1985.....	2.7	73.9	19.4	12.6	March 1987.....	0.8	86.3	23.0	12.9
March 1986.....	2.7	74.7	19.4	12.8	March 1988.....	1.0	86.6	23.5	12.9
March 1987.....	2.4	75.8	19.9	12.7	<b>Black and other races<sup>2</sup></b>				
March 1988.....	2.4	76.2	20.3	12.7	<b>25 and over</b>				
<b>25 to 29</b>					<b>25 to 29</b>				
April 1940.....	5.9	38.1	5.9	10.3	1920 <sup>1</sup> .....	44.6	6.3	1.2	5.4
April 1950.....	4.6	52.8	7.7	12.1	April 1940.....	27.0	12.3	1.6	7.1
April 1960.....	2.8	60.7	11.0	12.3	April 1950.....	16.1	23.6	2.8	8.7
March 1970.....	1.1	75.4	16.4	12.6	April 1960.....	7.2	38.6	5.4	10.8
March 1975.....	1.0	83.1	21.9	12.8	March 1970.....	2.2	58.4	10.0	12.2
March 1980.....	0.8	85.4	22.5	12.9	March 1975.....	0.7	73.8	15.4	12.6
March 1982.....	0.8	86.2	21.7	12.8	March 1980.....	1.0	77.0	15.2	12.7
March 1985.....	0.7	86.1	22.2	12.9	March 1982.....	0.7	82.2	15.8	12.8
March 1986.....	0.9	86.1	22.4	12.9	March 1985.....	0.5	82.4	16.7	12.8
March 1987.....	0.9	86.0	22.0	12.8	March 1986.....	0.9	84.3	18.3	12.8
March 1988.....	1.0	85.9	22.7	12.8	March 1987.....	1.1	84.1	18.9	12.8
<b>White<sup>2</sup></b>					<b>March 1988.....</b>				
<b>25 and over</b>					<b>25 to 29</b>				
April 1940.....	10.9	26.1	4.9	6.7	1920 <sup>1</sup> .....	44.6	6.3	1.2	5.4
April 1950.....	8.9	36.4	6.6	9.7	April 1940.....	27.0	12.3	1.6	7.1
April 1960.....	6.7	43.2	8.1	10.8	April 1950.....	16.1	23.6	2.8	8.7
March 1970.....	4.2	57.4	11.6	12.2	April 1960.....	7.2	38.6	5.4	10.8
March 1975.....	3.3	64.5	14.5	12.4	March 1970.....	2.2	58.4	10.0	12.2
March 1980.....	2.6	70.5	17.8	12.5	March 1975.....	0.7	73.8	15.4	12.6
March 1982.....	2.4	72.8	18.5	12.6	March 1980.....	1.0	77.0	15.2	12.7
March 1985.....	2.2	75.5	20.0	12.7	March 1982.....	0.7	82.2	15.8	12.8
March 1986.....	2.2	76.2	20.1	12.7	March 1985.....	0.5	82.4	16.7	12.8
March 1987.....	2.0	77.0	20.5	12.7	March 1986.....	0.9	84.3	18.3	12.8
March 1988.....	2.0	77.7	20.9	12.7	March 1987.....	1.1	84.1	18.9	12.8
					March 1988.....	1.2	82.0	18.1	12.6

<sup>1</sup> Estimates based on retrojection, by the Bureau of the Census, of 1940 census data on education by age.

<sup>2</sup> Persons of Hispanic origin are included, as appropriate, in the "white" or in the "black and other races" category.

<sup>3</sup> NOTE—Data for 1975 and subsequent years are for the noninstitutional population.

Some data have been revised from previously published figures.

SOURCE: U.S. Department of Commerce, Bureau of the Census, U.S. Census of Population, 1980, Vol. 1, *Current Population Reports*, Series P-20, Series P-19, No. 4, 1980 Census Monograph, "Education of the American Population," by John K. Folger and Charles B. Nam, and unpublished data. (This table was prepared December 1988.)



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Table 9.—Years of school completed by persons<sup>1</sup> age 18 and over, by age, sex, and race/ethnicity: 1988

(In thousands)

Age, sex, and race	Total population <sup>1</sup>	Elementary level		High school		College		
		Less than 8 years	8 years	1 to 3 years	4 years	1 to 3 years	4 years	5 years or more
1	2	3	4	5	6	7	8	9
<b>Total</b>								
18 and over	177,677	10,876	8,403	22,484	70,194	32,932	19,622	13,188
18 and 19 years old	7,221	88	132	2,610	3,453	935	3	—
20 to 24 years old	18,640	446	312	2,041	7,601	6,213	1,749	277
25 years old and over	151,816	10,341	7,959	17,813	58,940	25,784	17,870	12,911
25 to 29 years old	21,523	502	330	2,205	9,093	4,514	3,463	1,397
30 to 34 years old	21,446	635	288	1,877	8,796	4,554	3,345	1,951
35 to 39 years old	18,854	697	285	1,523	7,162	4,184	2,772	2,251
40 to 49 years old	28,604	1,203	735	2,854	11,345	5,261	3,836	3,571
50 to 59 years old	21,870	1,873	1,285	3,080	8,943	3,047	2,049	1,793
60 to 69 years old	20,595	2,212	1,888	3,309	8,039	2,475	1,499	1,174
70 years old and over	18,724	3,417	3,148	2,967	5,562	1,769	1,086	773
<b>Men</b>								
18 and over	64,776	5,429	3,624	10,724	31,143	15,439	10,311	7,905
18 and 19 years old	3,581	54	79	1,439	1,621	387	1	—
20 to 24 years old	9,254	250	145	1,067	3,648	2,999	786	159
25 years old and over	71,941	5,125	3,800	8,217	25,674	12,053	9,525	7,748
25 to 29 years old	10,669	286	154	1,190	4,375	2,166	1,733	784
30 to 34 years old	10,651	349	115	1,028	4,219	2,112	1,736	1,091
35 to 39 years old	9,321	372	147	705	3,266	2,045	1,497	1,269
40 to 49 years old	13,959	618	377	1,287	4,946	2,516	1,982	2,233
50 to 59 years old	10,485	681	688	1,318	3,757	1,481	1,180	1,199
60 to 69 years old	9,478	1,123	880	1,551	3,159	1,099	909	759
70 years old and over	7,377	1,496	1,239	1,139	1,952	654	486	410
<b>Women</b>								
18 and over	92,902	5,444	4,579	11,743	39,051	17,494	9,308	5,284
18 and 19 years old	3,640	34	53	1,171	1,832	549	1	—
20 to 24 years old	9,586	194	187	974	3,953	3,213	963	119
25 years old and over	79,878	5,218	4,359	9,597	33,262	13,731	8,345	5,165
25 to 29 years old	10,854	216	178	1,015	4,718	2,348	1,750	633
30 to 34 years old	10,795	266	173	849	4,577	2,442	1,807	860
35 to 39 years old	10,533	325	138	818	3,896	2,119	1,275	962
40 to 49 years old	16,045	585	358	1,587	8,399	2,745	1,854	1,338
50 to 59 years old	11,385	792	597	1,762	5,186	1,586	869	594
60 to 69 years old	11,117	1,089	1,008	1,758	4,880	1,376	590	415
70 years old and over	11,347	1,921	1,909	1,828	3,610	1,115	600	363
<b>White<sup>2</sup></b>								
18 and over	152,644	8,299	7,262	18,119	61,090	28,640	17,402	11,833
18 and 19 years old	5,927	72	95	2,036	2,905	817	3	—
20 to 24 years old	15,625	363	245	1,563	6,390	5,224	1,557	259
25 years old and over	131,092	7,839	6,923	14,520	51,795	22,599	15,842	11,574
25 to 29 years old	18,070	437	269	1,710	7,837	3,764	3,031	1,222
30 to 34 years old	18,078	531	238	1,431	7,415	3,857	2,922	1,686
35 to 39 years old	16,059	582	227	1,142	8,073	3,598	2,421	2,016
40 to 49 years old	24,683	942	595	2,240	9,857	4,624	3,197	3,228
50 to 59 years old	19,001	1,247	1,091	2,485	8,055	2,730	1,824	1,589
60 to 69 years old	18,308	1,550	1,617	2,830	7,485	2,350	1,413	1,065
70 years old and over	16,894	2,552	2,667	2,702	5,294	1,878	1,034	747
<b>Black<sup>2</sup></b>								
18 and over	19,549	2,067	961	3,677	7,541	3,173	1,227	702
18 and 19 years old	1,043	15	30	486	432	79	—	—
20 to 24 years old	2,576	49	61	424	1,195	712	125	9
25 years old and over	15,930	2,003	870	2,966	5,914	2,382	1,102	693
25 to 29 years old	2,701	26	48	444	1,279	573	254	78
30 to 34 years old	2,571	76	37	397	1,187	532	248	113
35 to 39 years old	2,122	71	38	336	931	432	196	119
40 to 49 years old	2,913	174	119	557	1,216	455	201	190
50 to 59 years old	2,250	345	165	581	706	234	120	118
60 to 69 years old	1,861	575	227	442	421	95	49	52
70 years old and over	1,512	336	236	229	194	81	34	23
<b>Hispanic origin<sup>3</sup></b>								
18 and over	12,605	3,067	803	2,108	3,854	1,896	702	373
18 and 19 years old	690	45	33	304	260	48	—	—
20 to 24 years old	1,975	247	88	369	780	390	68	12
25 years old and over	9,940	2,775	662	1,415	2,813	1,258	634	361
25 to 29 years old	2,044	327	90	353	701	342	165	65
30 to 34 years old	1,741	359	74	243	538	305	150	70
35 to 39 years old	1,553	372	71	217	495	226	97	73
40 to 49 years old	1,857	519	124	262	553	215	108	79
50 to 59 years old	1,322	498	132	180	297	96	70	50
60 to 69 years old	852	378	98	118	158	55	31	17
70 years old and over	571	324	93	42	74	16	15	6

<sup>1</sup> Civilian noninstitutional population.

<sup>2</sup> Includes persons of Hispanic origin.

<sup>3</sup> Persons of Hispanic origin may be of any race.

— Data not applicable or available.

NOTE.—Data are based on sample surveys of the noninstitutional population. Although cells with fewer than 75,000 people are subject to relatively wide sampling var-

iation, they are included in the table to permit various types of aggregations. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey, unpublished data. (This table was prepared December 1988.)

**Table 10.—Number of persons age 18 and over who hold a bachelor's or higher degree, by field of study, sex, race, and age: Spring 1984**

[Numbers in thousands]

Field of study	Total	Sex		Race		Age					
		Men	Women	White	Black	18 to 24 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	65 years old and over
1	2	3	4	5	6	7	8	9	10	11	12
<b>Total population, 18 and over</b> .....	<b>170,232</b>	<b>80,834</b>	<b>89,398</b>	<b>147,147</b>	<b>18,475</b>	<b>28,494</b>	<b>40,474</b>	<b>30,480</b>	<b>22,284</b>	<b>22,060</b>	<b>28,458</b>
Number of persons with bachelor's or higher degree ..	26,381	14,711	11,670	24,036	1,334	2,036	8,595	7,057	3,474	2,812	2,401
Percent of population .....	15.5	18.2	13.1	16.3	7.2	7.1	21.2	23.2	15.6	12.7	9.1
Agriculture and forestry .....	427	389	38	419	—	22	155	101	45	70	34
Biology .....	620	322	298	556	21	62	271	117	77	53	38
Business and management.....	4,462	3,346	1,116	4,058	238	504	1,490	1,303	581	385	198
Economics.....	462	391	71	403	23	43	150	118	72	53	24
Education .....	5,297	1,514	3,783	4,890	347	155	1,466	1,699	743	566	667
Engineering.....	2,176	2,000	176	1,952	72	286	591	477	322	317	182
English and journalism.....	1,029	406	623	975	35	97	285	213	146	145	144
Home economics.....	366	21	345	330	23	9	110	66	25	90	65
Law.....	928	777	151	860	45	24	273	335	139	93	64
Liberal arts and humanities.....	2,371	979	1,392	2,215	73	235	784	517	286	227	323
Mathematics and statistics.....	541	351	190	488	33	35	200	128	90	62	28
Medicine and dentistry.....	872	707	165	776	32	22	269	251	107	140	81
Nursing, pharmacy, and health technologies.....	1,151	194	957	997	57	79	433	281	168	110	78
Physical and earth sciences.....	741	553	188	669	17	60	235	189	113	66	78
Police science and law enforcement.....	154	113	41	140	14	15	59	71	—	10	—
Psychology.....	749	294	455	707	27	69	281	198	89	59	53
Religion and theology.....	467	402	65	445	18	17	114	77	103	59	96
Social sciences.....	1,764	840	924	1,560	156	134	731	486	143	158	113
Vocational and technical studies.....	157	142	15	138	15	13	69	26	21	18	10
Other fields.....	1,647	970	677	1,458	80	155	629	402	204	131	126

Percentage distribution of degree holders, by field

Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agriculture and forestry .....	1.6	2.6	0.3	1.7	—	1.1	1.8	1.4	1.3	2.5	1.4
Biology .....	2.4	2.2	2.6	2.3	16	3.0	3.2	1.7	2.2	1.9	1.6
Business and management.....	16.9	22.7	9.6	16.9	17.8	24.8	17.3	18.5	16.7	13.7	8.2
Economics.....	1.8	2.7	0.6	1.7	1.7	2.1	1.7	1.7	2.1	1.9	1.0
Education .....	20.1	10.3	32.4	20.3	26.0	7.6	17.1	24.1	21.4	20.1	27.8
Engineering.....	8.2	13.6	1.5	8.1	5.4	14.0	6.9	6.8	9.3	11.3	7.6
English and journalism.....	3.9	2.8	5.3	4.1	2.6	4.8	3.3	3.0	4.2	5.2	6.0
Home economics.....	1.4	0.1	3.0	1.4	1.7	0.4	1.3	0.9	0.7	3.2	2.7
Law.....	3.5	5.3	1.3	3.6	3.4	1.2	3.2	4.7	4.0	3.3	2.7
Liberal arts and humanities.....	9.0	6.7	11.9	9.2	5.5	11.5	9.1	7.3	8.2	8.1	13.5
Mathematics and statistics.....	2.1	2.4	1.6	2.0	2.5	1.7	2.3	1.8	2.6	2.2	1.1
Medicine and dentistry.....	3.3	4.8	1.4	3.2	2.4	1.1	3.1	3.6	3.1	5.0	3.4
Nursing, pharmacy, and health technologies.....	4.4	1.3	8.2	4.1	4.3	3.9	5.0	4.0	4.8	3.9	3.2
Physical and earth sciences.....	2.8	3.8	1.6	2.8	1.3	2.9	2.7	2.7	3.3	2.3	3.2
Police science and law enforcement.....	0.6	0.8	0.4	0.6	1.0	0.7	0.7	1.0	—	0.4	—
Psychology.....	2.8	2.0	3.9	2.9	2.0	3.4	3.3	2.8	2.6	2.1	2.2
Religion and theology.....	1.8	2.7	0.6	1.9	1.3	0.8	1.3	1.1	3.0	2.1	4.0
Social sciences.....	6.7	5.7	7.9	6.5	11.7	6.6	8.5	6.9	4.1	5.6	4.7
Vocational and technical studies.....	0.6	1.0	0.1	0.6	1.1	0.6	0.8	0.4	0.6	0.6	0.4
Other fields.....	6.2	6.6	5.8	6.1	6.6	7.6	7.3	5.7	5.9	4.7	5.2

—Data not available or not applicable

SOURCE U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-70, No. 11, "Educational Background and Economic Status Spring 1984" (This table was prepared October 1987)

NOTE—Data are based on sample surveys of the civilian noninstitutional population. Because of rounding, details may not add to totals.

**Table 11.—Highest educational level and degree earned by persons age 18 and over, by sex, race, and age: Spring 1984**

[Numbers in thousands]

Sex, race, and age	Total	Not high school graduate	High school graduate only	Some college, no degree	Vocational	Associate degree	Bachelor's degree	Master's degree	Professional degree	Doctor's degree
1	2	3	4	5	6	7	8	9	10	11
<b>Total population, 18 and over</b> .....	170,232	44,324	60,358	30,301	3,105	5,768	18,069	5,795	1,744	768
Men.....	80,834	20,448	26,407	15,444	1,023	2,804	9,581	3,110	1,432	585
Women.....	89,398	23,876	33,951	14,857	2,082	2,964	8,488	2,685	312	183
<b>White, total</b> .....	147,147	35,855	53,121	26,255	2,769	5,108	18,339	5,353	1,634	705
Men.....	70,278	16,606	23,270	13,444	919	2,498	8,703	2,923	1,355	558
Women.....	78,871	19,249	29,859	12,811	1,850	2,810	7,636	2,430	279	147
<b>Black, total</b> .....	18,475	7,133	8,043	3,229	254	482	963	286	53	32
Men.....	8,274	3,263	2,589	1,589	70	197	418	101	35	14
Women.....	10,201	3,870	3,454	1,640	184	285	547	185	18	18
<b>Age</b>										
18 to 24 years old.....	28,494	5,348	11,048	8,698	389	978	1,968	63	—	5
25 to 34 years old.....	40,474	5,770	14,973	8,231	806	2,099	8,353	1,585	509	147
35 to 44 years old.....	30,480	5,067	10,883	5,428	678	1,366	4,318	1,947	538	255
45 to 54 years old.....	22,264	5,883	8,959	2,832	455	662	2,109	993	249	123
55 to 64 years old.....	22,060	7,977	7,789	2,875	385	422	1,750	681	258	125
65 years old and over.....	26,458	14,251	8,706	2,438	391	241	1,570	528	193	114

Percentage distribution, by highest degree earned

<b>Total population, 18 and over</b> .....	100.0	26.0	35.5	17.8	1.8	3.4	10.6	3.4	1.0	0.5
Men.....	100.0	25.3	32.7	19.1	1.3	3.5	11.3	3.8	1.6	0.7
Women.....	100.0	26.7	38.0	18.6	2.3	3.3	9.5	3.0	0.3	0.2
<b>White, total</b> .....	100.0	24.4	36.1	17.8	1.9	3.5	11.1	3.8	1.1	0.5
Men.....	100.0	23.8	33.1	19.1	1.3	3.6	12.4	4.2	1.9	0.8
Women.....	100.0	25.0	38.8	18.7	2.4	3.4	9.9	3.2	0.4	0.2
<b>Black, total</b> .....	100.0	38.6	32.7	17.5	1.4	2.8	5.2	1.5	0.3	0.2
Men.....	100.0	39.4	31.3	19.2	0.8	2.4	5.0	1.2	0.4	0.2
Women.....	100.0	37.9	33.9	18.1	1.8	2.8	5.4	1.8	0.2	0.2
<b>Age</b>										
18 to 24 years old.....	100.0	18.8	38.8	30.5	1.4	3.4	6.9	0.2	( <sup>1</sup> )	( <sup>1</sup> )
25 to 34 years old.....	100.0	14.3	37.0	20.3	2.0	5.2	15.7	3.9	1.3	0.4
35 to 44 years old.....	100.0	18.8	35.7	17.8	2.2	4.5	14.2	8.4	1.8	0.8
45 to 54 years old.....	100.0	26.4	40.2	12.7	2.0	3.0	9.5	4.5	1.1	0.8
55 to 64 years old.....	100.0	36.2	35.3	12.1	1.7	1.9	7.9	3.1	1.2	0.6
65 years old and over.....	100.0	54.0	25.3	9.2	1.5	0.9	5.9	2.0	0.7	0.4

<sup>1</sup> Less than 05 percent.  
 ---Data not available or not applicable

SOURCE U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-70, No. 11, "Educational Background and Economic Status: Spring 1984" (This table was prepared October 1987)

NOTE.—Data are based on sample surveys of the civilian noninstitutional population. Because of rounding, details may not add to totals

Table 12.—Years of school completed by persons age 25 and over, by State: April 1980

State	Number of persons 25 years old and over (in thousands)	Percent of population completing at least—			
		High school		College	
		1 to 3 years	4 years	1 to 3 years	4 years or more
1	2	3	4	5	6
<b>United States</b> .....	<b>132,836</b>	<b>81.7</b>	<b>66.5</b>	<b>31.9</b>	<b>16.2</b>
Alabama.....	2,217	75.0	56.5	24.7	12.2
Alaska.....	211	91.0	82.5	43.7	21.1
Arizona.....	1,559	85.0	72.4	38.0	17.4
Arkansas.....	1,337	73.2	55.5	22.3	10.8
California.....	14,044	85.8	73.5	42.0	19.6
Colorado.....	1,664	89.4	78.6	44.1	23.0
Connecticut.....	1,900	83.7	70.3	35.9	20.7
Delaware.....	345	85.2	68.6	32.4	17.5
District of Columbia.....	399	83.0	67.1	41.5	27.5
Florida.....	6,250	82.4	66.7	31.6	14.9
Georgia.....	3,086	76.3	56.4	27.9	14.6
Hawaii.....	548	83.8	73.8	38.8	20.3
Idaho.....	514	87.4	73.7	37.2	15.8
Illinois.....	6,679	81.5	66.5	31.4	16.2
Indiana.....	3,136	83.4	66.4	24.6	12.5
Iowa.....	1,700	83.3	71.5	28.6	13.9
Kansas.....	1,388	85.4	73.3	34.2	17.0
Kentucky.....	2,087	68.7	53.1	21.8	11.1
Louisiana.....	2,281	75.1	57.7	26.7	13.9
Maine.....	662	83.4	68.7	29.4	14.4
Maryland.....	2,499	83.5	67.4	34.9	20.4
Massachusetts.....	3,463	85.6	72.2	35.8	20.0
Michigan.....	5,254	84.9	68.0	30.0	14.3
Minnesota.....	2,346	83.3	73.1	34.5	17.4
Mississippi.....	1,368	73.0	54.8	25.6	12.3
Missouri.....	2,919	78.3	63.5	27.2	13.9
Montana.....	451	85.7	74.4	36.5	17.5
Nebraska.....	912	84.9	73.4	32.8	15.5
Nevada.....	480	90.4	75.5	35.1	14.4
New Hampshire.....	542	85.3	72.3	35.1	18.2
New Jersey.....	4,504	82.3	67.4	31.5	16.3
New Mexico.....	707	82.3	68.9	34.7	17.6
New York.....	10,721	81.7	66.3	32.2	17.9
North Carolina.....	3,403	75.4	54.8	27.0	13.2
North Dakota.....	365	75.2	66.4	35.1	14.8
Ohio.....	6,292	84.6	67.0	26.5	13.7
Oklahoma.....	1,770	81.6	66.0	31.2	15.1
Oregon.....	1,580	88.5	75.6	38.5	17.9
Pennsylvania.....	7,240	81.6	64.7	24.3	13.6
Rhode Island.....	575	79.3	61.1	28.3	15.4
South Carolina.....	1,733	74.3	53.7	26.7	13.4
South Dakota.....	390	78.0	67.9	31.7	14.0
Tennessee.....	2,692	72.3	56.2	24.5	12.6
Texas.....	7,844	79.3	62.6	33.8	16.9
Utah.....	705	93.0	80.0	44.1	19.9
Vermont.....	295	83.3	71.0	34.7	19.0
Virginia.....	3,133	78.4	62.4	34.0	19.1
Washington.....	2,439	89.7	77.6	40.2	19.0
West Virginia.....	1,147	72.0	56.0	20.4	10.4
Wisconsin.....	2,705	82.0	69.6	29.2	14.8
Wyoming.....	255	90.0	77.9	37.9	17.2

NOTE.—Data have been revised from previously published figures

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Statistical Abstract of the United States, 1986* (This table was prepared September 1986)

**Table 13.—Years of school completed by persons age 25 and over in the 15 largest States and the 15 largest metropolitan areas: March 1987**

State	Percent completing—			Metropolitan area <sup>1</sup>	Percent completing—		
	Less than 4 years of high school	4 years of high school or more	4 years of college or more		Less than 4 years of high school	4 years of high school or more	4 years of college or more
1	2	3	4	5	6	7	8
<b>United States <sup>2</sup>.....</b>	<b>24.4</b>	<b>75.6</b>	<b>19.9</b>				
California.....	21.1	78.9	23.5	Atlanta, Georgia.....	20.3	79.7	26.9
Florida.....	22.9	77.1	19.7	Baltimore, Maryland.....	27.5	72.5	20.7
Georgia.....	28.8	71.2	19.1	Boston, Massachusetts.....	16.0	84.0	33.2
Illinois.....	23.6	76.4	20.2	Chicago, Illinois.....	22.8	77.2	24.2
Indiana.....	24.0	76.0	13.3	Dallas, Texas.....	18.8	81.2	28.0
Massachusetts.....	19.6	80.4	26.5	Detroit, Michigan.....	26.5	73.5	17.8
Michigan.....	24.5	75.5	16.5	Houston, Texas.....	20.4	79.6	32.4
Missouri.....	21.9	78.1	17.9	Los Angeles/Long Beach, California.....	25.0	75.0	21.4
New Jersey.....	23.1	76.9	23.3	Minneapolis/St. Paul, Minnesota.....	12.9	87.1	25.7
New York.....	25.0	75.0	23.2	Nassau/Suffolk, New York.....	15.2	84.8	27.3
North Carolina.....	32.2	67.8	16.6	New York, New York.....	29.7	70.3	25.0
Ohio.....	24.4	75.6	15.0	Philadelphia, Pennsylvania.....	23.2	76.8	20.0
Pennsylvania.....	24.5	75.5	17.2	Pittsburgh, Pennsylvania.....	22.9	77.1	14.8
Texas.....	28.0	72.0	19.8	St. Louis, MO/IL.....	20.2	79.8	21.7
Virginia.....	27.7	72.3	23.5	Washington, DC/MD/VA.....	12.0	88.0	37.5

<sup>1</sup> Standard Metropolitan Statistical Area

<sup>2</sup> Includes data for all States and the District of Columbia

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, No. 428, "Educational Attainment in the United States: March 1987 and 1986" (This table was prepared October 1988)

**Table 14.—Estimates of resident population, by age group: July 1, 1960 to July 1, 1987**

(In thousands)

Year	Total, all ages	Total, 3 to 34 years	3 and 4 years	5 and 6 years	7 to 13 years	14 to 17 years	18 and 19 years	20 and 21 years	22 to 24 years	25 to 29 years	30 to 34 years
1	2	3	4	5	6	7	8	9	10	11	12
1960.....	179,979	90,722	8,063	7,811	25,155	11,211	4,886	4,443	6,425	10,823	11,905
1961.....	182,992	92,597	8,207	7,924	25,293	12,046	5,411	4,635	6,587	10,756	11,738
1962.....	185,771	94,396	8,190	8,108	25,790	12,751	5,617	4,943	6,710	10,740	11,547
1963.....	188,483	96,275	8,152	8,251	26,326	13,492	5,461	5,467	6,930	10,848	11,348
1964.....	191,141	98,281	8,206	8,233	27,011	14,264	5,429	5,685	7,258	11,051	11,144
1965.....	193,526	100,210	8,190	8,190	27,563	14,146	6,450	5,503	7,902	11,226	11,040
1966.....	195,576	101,993	8,031	8,251	28,032	14,398	7,183	5,417	8,198	11,521	10,962
1967.....	197,457	103,635	7,888	8,237	28,392	14,727	6,928	6,289	8,278	11,943	10,953
1968.....	199,399	105,363	7,645	8,074	28,732	15,170	6,988	6,972	8,082	12,624	11,076
1969.....	201,385	106,931	7,253	7,930	28,907	15,549	7,119	6,787	8,980	13,119	11,287
1970.....	203,984	108,653	6,962	7,703	28,969	15,921	7,410	6,850	9,728	13,604	11,505
1971.....	206,827	110,482	6,805	7,344	28,892	16,326	7,644	7,106	10,596	13,927	11,842
1972.....	209,284	112,287	6,789	7,051	28,628	16,637	7,854	7,447	10,418	15,142	12,321
1973.....	211,357	113,954	6,938	6,888	28,159	16,864	8,044	7,656	10,615	15,694	13,094
1974.....	213,342	115,641	7,117	6,864	27,599	17,033	8,196	7,893	10,864	16,428	13,644
1975.....	215,465	117,006	6,912	7,014	26,904	17,125	8,418	8,089	11,228	17,183	14,131
1976.....	217,563	118,073	6,437	7,194	26,321	17,117	8,604	8,240	11,554	18,177	14,428
1977.....	219,760	118,853	6,190	6,978	25,878	17,042	8,613	8,456	11,856	18,180	15,661
1978.....	222,095	119,414	6,208	6,499	25,593	16,944	8,617	8,628	12,120	18,585	16,218
1979.....	224,567	120,126	6,252	6,256	25,174	16,610	8,698	8,653	12,443	19,077	16,961
1980.....	227,255	121,149	6,369	6,293	24,803	16,140	8,713	8,664	12,716	19,897	17,754
1981.....	229,637	122,057	6,551	6,327	24,428	15,599	8,553	8,723	12,892	20,200	18,786
1982.....	231,996	121,916	6,689	6,429	24,184	15,040	8,425	8,700	12,887	20,753	18,808
1983.....	234,284	122,158	6,924	6,606	23,803	14,720	8,204	8,551	12,938	21,202	19,211
1984.....	236,477	122,422	7,104	6,742	23,495	14,705	7,816	8,424	12,903	21,535	19,696
1985.....	231,736	122,715	7,212	6,976	23,135	14,865	7,500	8,186	12,814	21,758	20,269
1986.....	241,000	122,934	7,275	7,160	23,190	14,797	7,322	7,808	12,803	22,005	20,774
1987.....	243,400	122,940	7,228	7,263	23,560	14,467	7,315	7,491	12,301	21,980	21,335

NOTE—Some data have been revised from previously published figures

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, No. 519, No. 917, No. 1000, and No. 1022 (This table was prepared September 1988)

Table 15.—Estimates of school-age<sup>1</sup> resident population, by race and sex: July 1, 1960 to July 1, 1987

(In thousands)

Year	Total			White <sup>2</sup>			Black <sup>2</sup>			Other races <sup>2</sup>		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13
1960.....	44,176	22,437	21,739	38,366	19,532	18,832	5,366	2,677	2,690	446	228	217
1961.....	45,263	22,995	22,269	39,220	19,975	19,246	5,575	2,782	2,792	469	238	232
1962.....	46,648	23,706	22,941	40,352	20,560	19,791	5,802	2,897	2,906	496	251	244
1963.....	48,070	24,438	23,633	41,524	21,164	20,361	6,025	3,009	3,016	520	264	257
1964.....	49,509	25,174	24,336	42,692	21,765	20,929	6,272	3,135	3,137	545	275	270
1965.....	49,900	25,377	24,522	42,891	21,872	21,019	6,440	3,220	3,221	567	285	281
1966.....	50,981	25,784	24,898	43,469	22,176	21,293	6,619	3,300	3,311	594	300	295
1967.....	51,357	26,135	25,224	43,969	22,438	21,529	6,768	3,383	3,384	622	314	310
1968.....	51,974	26,456	25,517	44,422	22,677	21,744	6,903	3,453	3,450	649	325	323
1969.....	52,386	26,675	25,711	44,697	22,826	21,871	7,016	3,511	3,505	673	338	336
1970.....	52,593	26,793	25,801	44,783	22,877	21,906	7,108	3,561	3,547	703	355	349
1971.....	52,562	26,780	25,782	44,644	22,809	21,834	7,182	3,600	3,583	737	371	365
1972.....	52,316	26,658	25,658	44,336	22,655	21,681	7,211	3,615	3,596	768	388	380
1973.....	51,910	26,456	25,455	43,898	22,434	21,464	7,213	3,617	3,596	799	405	394
1974.....	51,498	26,249	25,249	43,454	22,210	21,244	7,213	3,618	3,596	830	420	409
1975.....	51,044	26,022	25,022	42,950	21,956	20,994	7,199	3,611	3,588	895	456	440
1976.....	50,633	25,822	24,811	42,477	21,721	20,755	7,208	3,617	3,591	949	483	465
1977.....	49,897	25,456	24,441	41,737	21,350	20,386	7,167	3,600	3,568	994	506	487
1978.....	49,038	25,024	24,013	40,883	20,919	19,964	7,116	3,576	3,540	1,039	530	509
1979.....	48,041	24,524	23,517	39,910	20,427	19,484	7,037	3,538	3,498	1,094	560	536
1980.....	47,236	24,139	23,098	39,003	19,982	19,020	6,997	3,523	3,472	1,237	634	605
1981.....	48,353	23,695	22,659	38,118	19,532	18,586	6,924	3,491	3,433	1,310	672	639
1982.....	45,654	23,345	22,307	37,399	19,167	18,231	6,879	3,472	3,408	1,375	706	668
1983.....	45,129	23,087	22,042	36,859	18,899	17,960	6,842	3,457	3,384	1,428	733	698
1984.....	44,943	23,000	21,942	36,596	18,770	17,826	6,847	3,464	3,384	1,499	767	731
1985.....	44,975	23,026	21,949	36,502	18,727	17,775	6,897	3,493	3,406	1,575	805	768
1986.....	45,148	23,120	22,028	36,532	18,745	17,786	6,957	3,527	3,431	1,661	848	811
1987.....	45,290	23,199	22,093	36,528	18,747	17,780	7,021	3,563	3,458	1,741	888	853

<sup>1</sup> Includes persons 5 to 17 years of age<sup>2</sup> Includes persons of Hispanic originSOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-25, No. 518, No. 917, No. 1000, and No. 1022 (This table was prepared September 1988.)

NOTE.—Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

Table 16.—Total and school-age resident population, by State: 1970 to 1987

[In thousands]

State	1970 <sup>1</sup>		1975 <sup>2</sup>		1980 <sup>1</sup>		1985 <sup>2</sup>		1986 <sup>2</sup>		1987 <sup>3</sup>	
	Total, all ages	5- to 17-year-olds	Total, all ages	5- to 17-year-olds	Total, all ages	5- to 17-year-olds	Total, all ages	5- to 17-year-olds	Total, all ages	5- to 17-year-olds	Total, all ages	5- to 17-year-olds
1	2	3	4	5	6	7	8	9	10	11	12	13
United States .....	203,302	52,540	215,465	51,044	226,546	47,406	238,736	44,975	241,096	45,148	243,400	45,290
Alabama .....	3,444	934	3,679	903	3,894	866	4,022	815	4,050	820	4,083	822
Alaska .....	303	88	376	102	402	91	522	108	532	111	525	112
Arizona .....	1,775	486	2,285	555	2,718	578	3,193	605	3,279	619	3,386	632
Arkansas .....	1,923	498	2,160	512	2,286	495	2,360	472	2,371	472	2,388	475
California .....	19,971	4,999	21,538	4,924	23,668	4,681	26,358	4,755	27,001	4,874	27,663	5,000
Colorado .....	2,210	589	2,586	617	2,890	592	3,234	594	3,266	599	3,296	605
Connecticut .....	3,032	788	3,083	734	3,108	638	3,171	554	3,193	549	3,211	543
Delaware .....	548	148	587	144	594	125	622	114	633	115	644	115
District of Columbia .....	757	164	707	137	638	109	623	90	623	91	622	90
Florida .....	6,791	1,609	8,518	1,800	9,746	1,789	11,364	1,802	11,694	1,848	12,023	1,892
Georgia .....	4,588	1,223	5,064	1,252	5,463	1,231	5,975	1,224	6,100	1,245	6,222	1,259
Hawaii .....	770	204	686	208	965	197	1,051	195	1,065	196	1,083	197
Idaho .....	713	200	832	210	944	213	1,004	223	1,002	223	998	222
Illinois .....	11,110	2,859	11,292	2,674	11,427	2,401	11,537	2,192	11,551	2,187	11,582	2,174
Indiana .....	5,195	1,386	5,366	1,307	5,490	1,199	5,500	1,093	5,503	1,084	5,531	1,080
Iowa .....	2,825	743	2,831	694	2,914	604	2,881	552	2,850	543	2,834	536
Kansas .....	2,249	573	2,281	520	2,364	468	2,449	451	2,459	453	2,476	458
Kentucky .....	3,221	844	3,468	835	3,661	800	3,729	750	3,726	745	3,727	738
Louisiana .....	3,645	1,041	3,886	1,012	4,206	968	4,486	940	4,499	941	4,461	930
Maine .....	594	260	1,072	260	1,125	243	1,165	222	1,172	220	1,187	220
Maryland .....	3,924	1,038	4,139	1,026	4,217	896	4,393	791	4,461	788	4,535	792
Massachusetts .....	5,089	1,407	5,758	1,339	5,737	1,153	5,819	978	5,834	960	5,855	947
Michigan .....	8,882	2,450	9,118	2,298	9,262	2,067	9,088	1,826	9,139	1,809	9,200	1,795
Minnesota .....	3,806	1,051	3,933	987	4,076	865	4,192	788	4,213	786	4,246	788
Mississippi .....	2,217	635	2,399	618	2,521	599	2,614	582	2,624	583	2,625	580
Missouri .....	4,678	1,183	4,808	1,114	4,917	1,008	5,035	936	5,064	939	5,103	940
Montana .....	694	197	748	186	787	167	825	164	817	162	809	160
Nebraska .....	1,485	389	1,543	364	1,570	324	1,605	303	1,598	302	1,594	302
Nevada .....	489	127	620	148	800	160	937	163	967	169	1,007	176
New Hampshire .....	738	189	829	201	921	196	999	184	1,027	187	1,057	190
New Jersey .....	7,171	1,797	7,338	1,734	7,365	1,528	7,561	1,347	7,625	1,332	7,672	1,318
New Mexico .....	1,017	311	1,160	311	1,303	303	1,451	304	1,479	308	1,500	312
New York .....	18,241	4,358	18,003	4,081	17,558	3,552	17,746	3,184	17,795	3,146	17,825	3,113
North Carolina .....	5,084	1,323	5,547	1,306	5,882	1,254	6,262	1,192	6,331	1,191	6,413	1,189
North Dakota .....	618	175	639	157	653	136	685	133	679	132	672	132
Ohio .....	10,657	2,820	10,770	2,590	10,798	2,308	10,747	2,094	10,748	2,075	10,784	2,063
Oklahoma .....	2,559	610	2,775	628	3,025	621	3,306	628	3,306	635	3,272	635
Oregon .....	2,092	534	2,330	534	2,633	525	2,588	496	2,702	498	2,724	495
Pennsylvania .....	11,801	2,925	11,906	2,704	11,864	2,376	11,863	2,097	11,894	2,081	11,936	2,068
Rhode Island .....	950	225	943	212	947	186	967	165	975	164	966	164
South Carolina .....	2,591	720	2,902	722	3,122	703	3,335	677	3,381	682	3,425	685
South Dakota .....	666	187	681	166	691	147	708	137	708	138	709	138
Tennessee .....	3,926	1,002	4,276	998	4,591	972	4,767	922	4,800	923	4,855	923
Texas .....	11,199	3,002	12,569	3,065	14,229	3,137	16,389	3,360	16,689	3,439	16,789	3,482
Utah .....	1,059	312	1,236	322	1,461	350	1,645	420	1,664	431	1,680	445
Vermont .....	445	118	480	117	511	110	535	100	541	101	548	101
Virginia .....	4,651	1,197	5,047	1,198	5,347	1,113	5,702	1,029	5,795	1,031	5,904	1,038
Washington .....	3,413	881	3,621	856	4,132	834	4,408	813	4,463	817	4,538	827
West Virginia .....	1,744	442	1,842	420	1,950	414	1,937	388	1,917	382	1,897	373
Wisconsin .....	4,418	1,203	4,579	1,151	4,706	1,011	4,776	917	4,783	913	4,807	913
Wyoming .....	332	92	382	93	470	101	510	106	507	107	490	105

<sup>1</sup> As of April 1<sup>2</sup> Estimates as of July 1<sup>3</sup> Preliminary estimates as of July 1

NOTE—Because of rounding, details may not add to totals. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Population Estimates*, unpublished tabulations (This table was prepared September 1988).

Table 17.—Families, by family status and presence of own children under 18: 1970 to 1988

Family status	1970	1980	1985	1985	1987	1988	Change, 1970 to 1980	Change, 1980 to 1988
1	2	3	4	5	6	7	8	9
In thousands								
<b>All families.....</b>	<b>51,456</b>	<b>59,550</b>	<b>62,706</b>	<b>63,558</b>	<b>64,491</b>	<b>65,133</b>	<b>15.7</b>	<b>9.4</b>
Percent change								
Married-couple family.....	44,728	49,112	50,350	50,933	51,537	51,809	9.8	5.5
No own children under 18.....	19,196	24,151	26,140	26,304	26,892	27,209	25.8	12.7
With own children under 18.....	25,532	24,961	24,210	24,630	24,645	24,600	-2.2	-1.4
One own child under 18.....	8,163	9,671	9,640	9,868	10,032	9,904	18.5	2.4
Two own children under 18.....	8,045	9,488	9,456	9,580	9,606	9,576	17.9	0.9
Three or more own children under 18.....	9,325	5,802	5,115	5,182	5,006	5,120	-37.8	-11.8
Other family, male householder, no spouse present.....	1,228	1,733	2,228	2,414	2,510	2,715	41.1	58.7
No own children under 18.....	887	1,117	1,331	1,479	1,554	1,669	25.9	49.4
With own children under 18.....	341	616	896	935	955	1,047	80.6	70.0
One own child under 18.....	179	374	584	600	608	657	108.9	75.7
Two own children under 18.....	87	165	213	260	257	296	89.7	79.4
Three or more own children under 18.....	75	77	100	75	90	94	2.7	22.1
Other family, female householder, no spouse present.....	5,500	8,705	10,129	10,211	10,445	10,608	58.3	21.9
No own children under 18.....	2,842	3,261	4,123	4,106	4,147	4,325	23.4	32.9
With own children under 18.....	2,858	5,445	6,006	6,105	6,297	6,273	90.5	15.2
One own child under 18.....	1,008	2,398	2,885	2,857	3,079	3,017	137.9	25.8
Two own children under 18.....	810	1,817	1,977	2,061	2,072	2,039	124.3	12.2
Three or more own children under 18.....	1,040	1,230	1,144	1,186	1,147	1,217	18.3	-1.1
Percent of all families								
<b>All families.....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>—</b>	<b>—</b>
Change in percentage points								
Married-couple family.....	86.9	82.5	80.3	80.1	79.9	79.5	-4.5	2.9
No own children under 18.....	37.3	40.6	41.7	41.4	41.7	41.8	3.3	1.2
With own children under 18.....	49.6	41.9	38.6	38.8	38.2	37.8	-7.7	-4.1
One own child under 18.....	15.9	16.2	15.4	15.5	15.6	15.2	0.4	-1.0
Two own children under 18.....	15.6	15.9	15.1	15.1	14.9	14.7	0.3	-1.2
Three or more own children under 18.....	18.1	9.7	8.2	8.2	7.8	7.9	-8.4	-1.9
Other family, male householder, no spouse present.....	2.4	2.9	3.6	3.8	3.9	4.2	0.5	1.3
No own children under 18.....	1.7	1.9	2.1	2.3	2.4	2.6	0.2	0.7
With own children under 18.....	0.7	1.0	1.4	1.5	1.5	1.6	0.4	0.6
One own child under 18.....	0.3	0.6	0.9	0.9	0.9	1.0	0.3	0.4
Two own children under 18.....	0.2	0.3	0.3	0.4	0.4	0.5	0.1	0.2
Three or more own children under 18.....	0.1	0.1	0.2	0.1	0.1	0.1	(1)	(1)
Other family, female householder, no spouse present.....	10.7	14.6	16.2	16.1	16.2	16.3	3.9	1.7
No own children under 18.....	5.1	5.5	6.6	6.5	6.4	6.7	0.3	1.2
With own children under 18.....	5.6	9.1	9.6	9.6	9.8	9.6	3.6	0.5
One own child under 18.....	2.0	4.0	4.6	4.5	4.8	4.6	2.1	0.6
Two own children under 18.....	1.6	3.1	3.2	3.2	3.2	3.1	1.5	0.1
Three or more own children under 18.....	2.0	2.1	1.8	1.9	1.8	1.9	(1)	-0.2

<sup>1</sup> Less than .05 percent  
—Not applicable

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, No. 411, 419, 424, and 432 (This table was prepared December 1988)

NOTE—Because of rounding, details may not add to totals



Table 18.—Characteristics of families with own children under 18, by family status and race/ethnicity:<sup>1</sup> 1987

(Numbers in thousands)

Family characteristics	All races				White <sup>2</sup>				Black <sup>2</sup>				Hispanic origin <sup>3</sup>			
	Total	Married-couple families	Other families		Total	Married-couple families	Other families		Total	Married-couple families	Other families		Total	Married-couple families	Other families	
			Male householder, no spouse present	Female householder, no spouse present			Male householder, no spouse present	Female householder, no spouse present			Male householder, no spouse present	Female householder, no spouse present				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Total families</b> .....	<b>64,491</b>	<b>51,537</b>	<b>2,510</b>	<b>10,445</b>	<b>55,676</b>	<b>46,410</b>	<b>2,038</b>	<b>7,227</b>	<b>7,066</b>	<b>3,742</b>	<b>386</b>	<b>2,967</b>	<b>4,403</b>	<b>3,118</b>	<b>253</b>	<b>1,032</b>
Total families with own children under 18.....	31,898	24,645	955	6,297	26,717	21,787	789	4,141	4,184	2,023	136	2,025	2,859	2,034	96	729
Percent of all families.....	49.5	47.8	38.0	60.3	48.0	46.9	38.7	57.3	59.0	54.1	35.2	68.3	64.9	65.2	37.9	70.6
Families with—																
1 child under 18.....	13,719	10,032	608	3,079	11,539	8,892	504	2,142	1,779	822	89	868	984	672	51	261
2 children under 18.....	11,936	9,806	257	2,072	10,179	8,582	218	1,379	1,385	698	31	656	1,020	738	28	254
3 children under 18.....	4,464	3,628	71	766	3,677	3,174	49	454	625	317	13	295	569	417	17	136
4 children under 18.....	1,255	985	15	254	857	822	13	122	260	129	2	129	189	132	—	57
5 children under 18.....	346	264	4	78	238	208	4	26	88	42	—	46	59	49	—	10
6 or more under 18.....	178	129	—	49	126	108	—	18	46	16	—	30	37	26	—	11
Total own children under 18.....	57,808	45,429	1,444	10,935	48,109	40,034	1,169	6,905	7,820	3,806	216	3,798	6,009	4,325	159	1,524
Average number of children per family with children.....	1.81	1.84	1.51	1.74	1.80	1.84	1.48	1.67	1.87	1.88	1.59	1.88	2.10	2.13	1.67	2.09
Total families with own children under 6.....	14,674	11,966	294	2,414	12,415	10,657	233	1,525	1,821	924	54	843	1,578	1,179	35	364
Percent of all families.....	22.8	23.2	11.7	23.1	22.3	23.0	11.4	21.1	25.7	24.7	14.0	28.4	35.8	37.8	13.8	35.3
Families with—																
1 child under 6.....	10,030	8,031	235	1,764	8,469	7,123	188	1,158	1,284	662	44	578	1,001	736	27	238
2 children under 6.....	4,021	3,429	54	538	3,437	3,081	41	315	442	226	11	206	458	354	6	99
3 children under 6.....	571	471	5	96	476	423	5	48	79	33	—	46	108	83	2	23
4 or more under 6.....	51	35	—	16	33	30	—	3	16	3	—	13	10	6	—	5
Total own children under 6.....	19,558	16,087	371	3,099	16,549	14,364	289	1,896	2,399	1,187	73	1,140	2,201	1,653	46	502
Average number of children per family with children.....	1.33	1.34	1.26	1.28	1.33	1.35	1.24	1.24	1.32	1.28	—	1.35	1.39	1.40	—	1.38
Total families with own children under 3.....	8,742	7,392	161	1,189	7,470	6,619	124	727	991	522	32	436	881	687	18	176
Percent of all families.....	13.6	14.3	6.4	11.4	13.4	14.3	6.1	10.1	14.0	13.9	8.3	14.7	20.0	22.0	7.1	17.1
Families with—																
1 child under 3.....	7,669	6,510	141	1,018	6,568	5,821	107	641	849	466	30	353	730	581	13	136
2 children under 3.....	1,018	850	17	151	865	789	15	81	125	55	2	68	134	94	5	35
3 or more under 3.....	54	32	2	20	37	30	2	5	17	2	—	15	17	13	—	5
Total own children under 3.....	9,620	8,094	190	1,336	8,202	7,266	147	789	1,114	556	78	520	1,008	773	24	211
Average number of children per family with children.....	1.10	1.09	1.18	1.12	1.10	1.10	1.19	1.09	1.12	1.06	—	1.19	1.14	1.13	—	1.20

<sup>1</sup> Race of family is defined as race of head of household<sup>2</sup> Includes persons of Hispanic origin<sup>3</sup> Persons of Hispanic origin may be of any race

—Data not available

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, No. 411 (This table was prepared August 1988)

NOTE.—Average and percents are only shown when the base is 75,000 or greater. Even though the standard errors are large, smaller estimated numbers are shown to permit users to combine categories in various ways. Because of rounding, details may not add to totals.

Table 19.—Poverty status of persons, families, and children under 18, by race/ethnicity: 1959 to 1987

Year and race/ ethnicity	Number below the poverty level, in thousands						Percent below the poverty level					
	All persons	In all families			In families with female householder, no husband present		All persons	In all families			In families with female householder, no husband present	
		Total	House- holder	Related children under 18	Total	Related children under 18		Total	House- holder	Related children under 18	Total	Related children under 18
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>All races</b>												
1959	39,490	34,562	8,320	17,208	7,014	4,145	22.4	20.8	18.5	26.9	49.4	72.2
1960	39,851	34,925	8,243	17,288	7,247	4,095	22.2	20.7	18.1	26.5	48.9	68.4
1965	33,135	28,358	6,721	14,388	7,524	4,562	17.3	15.8	13.9	20.7	46.0	64.2
1966	28,510	23,809	5,784	12,146	6,861	4,262	14.7	13.1	11.8	17.4	39.8	58.2
1970	25,420	20,330	5,260	10,235	7,503	4,689	12.6	10.9	10.1	14.9	38.1	53.0
1971	25,559	20,405	5,303	10,344	7,797	4,850	12.5	10.8	10.0	15.1	38.7	53.1
1972	24,480	19,577	5,075	10,082	8,114	5,094	11.9	10.3	9.3	14.9	38.2	53.1
1973	22,973	18,299	4,828	9,453	8,178	5,171	11.1	9.7	8.8	14.2	37.5	52.1
1974	23,370	18,817	4,922	9,967	8,462	5,361	11.2	9.9	8.8	15.1	36.5	51.5
1975	25,877	20,789	5,450	10,882	8,846	5,597	12.3	10.9	9.7	16.8	37.5	52.7
1976	24,975	19,632	5,311	10,081	9,029	5,583	11.8	10.3	9.4	15.8	37.3	52.0
1977	24,720	19,505	5,311	10,028	9,205	5,658	11.6	10.2	9.3	16.0	36.2	50.3
1978	24,497	19,062	5,280	9,722	9,269	5,687	11.4	10.0	9.1	15.7	35.6	50.6
1979	26,072	19,964	5,461	9,993	9,400	5,635	11.7	10.2	9.2	16.0	34.9	48.8
1980	29,272	22,601	6,217	11,114	10,120	5,866	13.0	11.5	10.3	17.9	36.7	50.8
1981	31,822	24,850	6,851	12,068	11,051	6,305	14.0	12.5	11.2	19.5	38.7	52.3
1982	34,398	27,349	7,512	13,139	11,701	6,696	15.0	13.6	12.2	21.3	40.6	56.0
1983	35,303	27,933	7,647	13,427	12,072	6,747	15.2	13.9	12.3	21.8	40.2	55.4
1984	33,700	26,458	7,277	12,929	11,831	6,772	14.4	13.1	11.6	21.0	38.4	54.0
1985	33,064	25,729	7,223	12,483	11,600	6,716	14.0	12.6	11.4	20.1	37.6	53.6
1986	32,370	24,754	7,023	12,257	11,944	6,943	13.6	12.0	10.9	19.8	34.2	54.4
1987	32,546	24,979	7,059	12,435	12,076	7,074	13.5	12.1	10.8	20.0	33.6	54.7
<b>White<sup>1</sup></b>												
1960	28,309	24,262	6,115	11,229	4,296	2,357	17.8	16.2	14.9	20.0	39.0	59.9
1965	22,496	18,508	4,824	8,595	4,092	2,321	13.3	11.7	11.1	14.4	35.4	52.9
1970	17,484	13,323	3,708	6,138	3,761	2,247	9.9	8.1	8.0	10.5	28.4	43.1
1975	17,770	13,799	3,838	6,748	4,577	2,813	9.7	8.3	7.7	12.5	29.4	44.2
1980	19,699	14,587	4,195	6,817	4,940	2,813	10.2	8.6	8.0	13.4	28.0	41.6
1981	21,553	16,127	4,670	7,429	5,600	3,120	11.1	9.5	8.8	14.7	29.8	42.8
1982	23,517	18,015	5,118	8,282	5,686	3,249	12.0	10.6	9.6	16.5	30.9	46.5
1983	23,984	18,377	5,220	8,534	6,017	3,388	12.1	10.7	9.7	17.0	31.2	47.1
1984	22,955	17,289	4,925	8,086	5,866	3,377	11.5	10.1	9.1	16.1	29.7	45.9
1985	22,860	17,125	4,983	7,838	5,990	3,372	11.4	9.9	9.1	15.6	29.8	45.2
1986	22,183	16,393	4,811	7,714	6,171	3,522	11.0	9.4	8.6	15.3	30.6	46.3
1987	21,409	15,804	4,592	7,550	5,918	3,474	10.5	9.1	8.2	15.0	29.5	45.8
<b>Black<sup>1</sup></b>												
1959	9,927	9,112	1,860	5,022	2,416	1,475	55.1	54.9	48.1	65.5	70.6	81.6
1966	8,867	8,090	1,620	4,774	3,160	2,107	41.8	40.9	35.5	50.6	65.3	76.6
1970	7,548	6,683	1,481	3,922	3,656	2,383	33.5	32.2	29.5	41.5	58.7	67.7
1975	7,545	6,533	1,513	3,884	4,168	2,724	31.3	30.1	27.1	41.4	54.3	66.0
1980	8,579	7,190	1,826	3,906	4,984	2,944	32.5	31.1	28.9	42.1	53.4	64.8
1981	9,173	7,780	1,972	4,170	5,222	3,051	34.2	33.2	30.8	44.9	56.7	67.7
1982	9,697	8,355	2,158	4,368	5,698	3,269	35.6	34.9	33.0	47.3	58.8	70.7
1983	9,682	8,376	2,161	4,273	5,736	3,187	35.7	34.7	32.3	46.2	57.0	68.3
1984	9,490	8,104	2,094	4,320	5,666	3,234	33.8	33.2	30.9	46.2	54.8	66.2
1985	8,926	7,504	1,983	4,057	5,342	3,181	31.3	30.5	28.7	43.1	53.2	66.9
1986	8,983	7,401	1,987	4,039	5,473	3,251	31.1	29.7	28.0	42.7	53.8	67.1
1987	9,683	7,952	2,149	4,297	5,797	3,394	33.1	31.8	29.9	45.1	54.8	68.3
<b>Hispanic origin<sup>2</sup></b>												
1975	2,991	2,755	627	1,619	1,053	694	26.9	26.3	25.1	33.1	57.2	68.4
1980	3,491	3,143	751	1,718	1,319	809	25.7	25.1	23.2	33.0	54.5	65.0
1981	3,713	3,349	792	1,874	1,465	909	26.5	25.9	24.0	35.4	55.9	67.3
1982	4,301	3,865	916	2,117	1,601	990	29.9	29.2	27.2	38.9	60.1	71.8
1983	4,633	4,113	981	2,251	1,670	1,018	28.0	27.3	25.9	37.7	55.1	70.6
1984	4,806	4,192	991	2,317	1,764	1,093	28.4	27.4	25.2	38.7	56.2	71.0
1985	5,238	4,605	1,074	2,512	1,983	1,247	29.0	28.3	25.5	39.6	55.7	72.4
1986	5,117	4,469	1,085	2,413	1,921	1,194	27.3	26.5	24.7	37.1	52.9	66.7
1987	5,470	4,793	1,183	2,631	1,987	1,241	28.2	27.7	25.8	39.3	55.0	70.1

<sup>1</sup> Includes persons of Hispanic origin<sup>2</sup> Persons of Hispanic origin may be of any raceSOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-60, No. 161 (This table was prepared October 1988)

**Table 20.—Average grade that the public would give the schools in their community and in the Nation at large: 1974 to 1988**

Year	All adults		No children in school		Public school parents		Private school parents	
	Nation	Local community	Nation	Local community	Nation	Local community	Nation	Local community
1	2	3	4	5	6	7	8	9
1974	—	2.63	—	2.57	—	2.80	—	2.15
1975	—	2.38	—	2.31	—	2.49	—	1.81
1976	—	2.38	—	2.34	—	2.48	—	2.22
1977	—	2.33	—	2.25	—	2.59	—	2.05
1978	—	2.21	—	2.11	—	2.47	—	1.69
1979	—	2.21	—	2.15	—	2.38	—	1.88
1980	—	2.26	—	—	—	—	—	—
1981	1.94	2.20	—	2.12	—	2.36	—	1.88
1982	2.01	2.24	2.04	2.18	2.01	2.35	2.02	2.20
1983	1.91	2.12	1.92	2.10	1.92	2.31	1.82	1.89
1984	2.09	2.36	2.11	2.30	2.11	2.49	2.04	2.17
1985	2.14	2.39	2.16	2.36	2.20	2.44	1.93	2.00
1986	2.15	2.36	—	2.29	—	2.55	—	2.14
1987	2.18	2.44	2.20	2.38	2.22	2.61	2.03	2.01
1988	2.08	2.35	2.02	2.37	2.13	2.48	2.00	2.13

—Data not available

SOURCE "The Annual Gallup Poll of the Public's Attitudes Toward the Public Schools," *Phi Delta Kappan*, various years (This table was prepared March 1989)

NOTE—Average based on a scale where A=4, B=3, C=2, D=1, and F=0

**Table 21.—Items most frequently cited by the general public as the chief problems facing the local public schools: 1970 to 1988**

Problems	Percent										
	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	2	3	4	5	6	7	8	9	10	11	12
Use of drugs	11	9	14	15	20	18	18	16	28	30	32
Lack of discipline	18	23	26	23	27	25	27	25	24	22	19
Lack of financial support	17	14	10	12	22	13	14	9	11	14	12
Getting good teachers	12	11	6	11	10	8	14	10	6	9	11
Poor curriculum/standards	6	5	11	14	11	14	15	11	8	8	11
Large schools/overcrowding	—	10	7	5	4	3	4	5	5	8	6
Moral standards	—	—	—	1	2	4	1	2	5	7	6
Parents' lack of interest	3	2	6	5	5	6	5	3	4	6	7
Pupils' lack of interest/truancy	—	3	5	4	5	5	4	5	3	6	5
Drinking/alcoholism	—	—	2	2	3	3	4	3	5	6	5
Low teacher pay	—	—	—	—	—	—	4	2	3	5	4
Integration/busing	7	15	10	11	6	5	6	4	3	4	4
Teachers' lack of interest	—	—	6	4	7	8	5	4	4	5	3
Lack of proper facilities	11	3	2	2	2	1	2	1	1	2	1

—Data not available

SOURCE "The 20th Annual Gallup Poll of the Public's Attitudes Toward the Public Schools," *Phi Delta Kappan*, September 1988 (This table was prepared September 1988)

**Table 22.—Opinions on key aspects of public schools by parents and teachers of public school students: 1987**

Key aspects of schools	Percent who rated key aspects of their schools as:									
	Excellent		Good		Fair		Poor		Not sure <sup>1</sup>	
	Parents	Teachers	Parents	Teachers	Parents	Teachers	Parents	Teachers	Parents	Teachers
1	2	3	4	5	6	7	8	9	10	11
Degree to which most teachers seem to care about their students.....	31	49	39	44	21	6	9	(?)	(?)	(?)
Qualifications and competence of teachers in your school.....	26	51	48	43	20	6	4	(?)	2	(?)
School's physical facilities.....	26	27	46	39	20	23	7	12	1	(?)
Amount of support for the school shown by the parents.....	26	22	41	36	23	31	9	11	1	(?)
Relations between parents and teachers in your school.....	25	18	47	52	21	24	7	5	1	(?)
Success of the school in preparing students for education beyond high school.....	17	23	40	49	20	14	8	3	16	11
Success of the school in preparing students for jobs after high school.....	12	10	32	45	19	21	13	5	25	20
Degree to which most students seem motivated to learn.....	15	9	44	43	30	30	9	9	2	1
Effectiveness of the school board in dealing with school matters.....	15	11	43	40	27	35	11	14	4	1
Extent to which the school enables students to achieve some success in their work each day.....	20	31	50	59	23	10	5	(-)	2	(?)
Availability and responsiveness of teachers (parents) when you need to contact them.....	38	16	38	38	16	34	8	12	1	1

<sup>1</sup> Includes not applicable

<sup>2</sup> Less than 0.5 percent.

SOURCE Metropolitan Life/Louis Harris Associates, Inc., *The American Teacher*, 1987. (This table was prepared September 1987.)

NOTE.—Because of rounding, percents may not add to 100

**Table 23.—Beliefs held by the parents and teachers of public school students about what activities and programs would "help a lot" to improve education: 1987**

Selected activities and programs	Percent of parents, by race				Percent of teachers
	All parents	White parents	Black parents	Hispanic parents	
1	2	3	4	5	6
Having the school notify the parents immediately about any problems involving their child.....	88	88	89	88	77
Having parents limit television until all homework is finished.....	79	77	86	83	80
Having parents spend much more time with their children in support of school and teachers.....	70	69	73	69	84
Distributing a newsletter to keep parents informed about what's happening in school.....	68	66	71	80	51
Establishing a homework hotline which students can call for advice on how to deal with homework assignments.....	64	62	70	72	42
Having the school give more guidance to teachers about how to involve parents better in the future.....	60	57	72	61	41
Getting teachers and parents to meet together and talk about school policies.....	58	56	71	62	52
Providing counseling and support services to children with emotional, mental, social, or family problems.....	80	79	85	84	81
Developing school programs to involve parents with students who have special needs.....	73	72	76	72	67
Developing school programs to involve members of the community with students who have special needs.....	62	70	73	62	53
Developing educational programs designed for students who are frequently absent from school.....	54	53	57	61	44
Beginning the education process earlier by enrolling students in pre-school education programs.....	49	43	73	55	31
Developing different approaches to education outside the traditional school.....	40	39	49	40	41
Providing optional daycare programs with an educational component after the regular school hours.....	39	33	64	50	24

SOURCE: Metropolitan Life/Louis Harris Associates, Inc., *The American Teacher*, 1987 (This table was prepared September 1987)

**Table 24.—Rating of school problems by teachers and students: 1988**

Selected problems	Percent of teachers who say problem is "very serious" at their school						Percent of students who say they know 10 or more students involved in each problem
	Total	Inner city	Urban	Suburban	Small town	Rural	
1	2	3	4	5	6	7	8
The number of students requiring constant discipline.....	14	27	19	11	12	10	30
The number of students who lack basic skills (Students' item can't read).....	16	38	16	12	14	13	5
The number of teenage pregnancies <sup>1</sup> .....	12	28	9	5	13	12	9
The number of students drinking alcohol <sup>2</sup> .....	33	32	20	24	38	38	47
The number of students using drugs <sup>2</sup> .....	14	26	11	14	12	15	25
The number of incidents involving violence in school <sup>2</sup> .....	4	10	4	3	5	—	—
Have threatened or become violent with other students.....	—	—	—	—	—	—	23
Have threatened or become violent with teachers.....	—	—	—	—	—	—	5
The number of dropouts <sup>1</sup> .....	9	30	11	6	6	9	9

<sup>1</sup> Asked of junior high and high school students and teachers only

<sup>2</sup> Asked of all students and junior high and high school teachers

—Data not available

SOURCE: Metropolitan Life/Louis Harris and Associates, Inc., *The American Teacher*, 1988 (This table was prepared May 1989)

**Table 25.—Total expenditures of educational institutions related to the gross national product, by level of institution: 1959-60 to 1987-88**

Year	Gross national product (in billions)	School year	Total expenditures for education (amounts in millions)					
			All educational institutions		All elementary and secondary schools		All colleges and universities	
			Amount	As a percent of gross national product	Amount	As a percent of gross national product	Amount	As a percent of gross national product
1	2	3	4	5	6	7	8	9
1959	\$495.8	1959-60	\$23,860	4.9	\$16,713	3.4	\$7,147	1.4
1961	533.8	1961-62	28,503	5.3	19,673	3.7	8,830	1.7
1963	606.9	1963-64	34,440	5.7	22,825	3.8	11,615	1.9
1965	705.1	1965-66	43,682	6.2	28,048	4.0	15,634	2.2
1967	816.4	1967-68	55,652	6.8	35,077	4.3	20,575	2.5
1969	963.9	1969-70	68,459	7.1	43,183	4.5	25,276	2.6
1970	1,015.5	1970-71	75,741	7.5	48,200	4.7	27,541	2.7
1971	1,102.7	1971-72	80,672	7.3	50,950	4.6	29,722	2.7
1972	1,212.8	1972-73	86,875	7.2	54,952	4.5	31,923	2.6
1973	1,359.3	1973-74	95,396	7.0	60,370	4.4	35,026	2.6
1974	1,472.8	1974-75	108,664	7.4	66,846	4.7	39,818	2.7
1975	1,598.4	1975-76	118,706	7.4	75,101	4.7	43,605	2.7
1976	1,782.8	1976-77	126,417	7.1	79,194	4.4	47,223	2.6
1977	1,990.5	1977-78	137,042	6.9	86,544	4.3	50,498	2.5
1978	2,249.7	1978-79	148,308	6.6	93,012	4.1	55,296	2.5
1979	2,508.2	1979-80	165,627	6.6	103,162	4.1	62,465	2.5
1980	2,732.0	1980-81	182,849	6.7	112,325	4.1	70,524	2.6
1981	3,052.6	1981-82	197,801	6.5	120,486	3.9	77,315	2.5
1982	3,166.0	1982-83	212,081	6.7	128,725	4.1	83,356	2.6
1983	3,405.7	1983-84	228,597	6.7	139,000	4.1	89,597	2.6
1984	3,772.2	1984-85	247,657	6.6	149,400	4.0	98,257	2.6
1985	4,014.9	1985-86	269,485	6.7	161,800	4.0	107,685	2.7
1986	4,240.3	1986-87 <sup>1</sup>	290,900	6.9	175,100	4.1	115,800	2.7
1987	4,526.7	1987-88 <sup>2</sup>	310,700	6.9	187,100	4.1	123,700	2.7

<sup>1</sup> Preliminary  
<sup>2</sup> Estimated.

NOTE.—Total expenditures for public elementary and secondary schools include current expenditures, interest on school debt, and capital outlay. Data for private elementary and secondary schools are estimated. Total expenditures for colleges and universities include current-fund expenditures and additions to plant value. Excludes expenditures of noncollegiate postsecondary institutions. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*, *Financial Statistics of Institutions of Higher Education*, Common Core of Data survey, and "Financial Statistics of Institutions of Higher Education" survey, and unpublished data, and Council of Economic Advisors, *Economic Indicators* (This table was prepared January 1989.)

Table 26.—Total expenditures of educational institutions, by level and control of institution: 1899–1900 to 1988–89

[In millions]

School year	Total	Elementary and secondary schools			Colleges and universities		
		Total	Public	Private <sup>1</sup>	Total	Public	Private
1	2	3	4	5	6	7	8
1899–1900.....	—	—	\$215	—	—	—	—
1909–10.....	—	—	426	—	—	—	—
1919–20.....	—	—	1,036	—	—	—	—
1929–30.....	—	—	2,317	—	\$632	\$292	\$341
1939–40.....	—	—	2,344	—	758	392	367
1949–50.....	\$8,911	\$6,249	5,838	\$411	2,662	1,430	1,233
1951–52.....	10,735	7,861	7,344	517	2,874	1,565	1,309
1953–54.....	13,147	9,733	9,092	641	3,414	1,912	1,502
1955–56.....	15,907	11,727	10,955	772	4,180	2,348	1,832
1957–58.....	20,055	14,525	13,569	956	5,530	3,237	2,293
1959–60.....	23,860	16,713	15,613	1,100	7,147	3,904	3,244
1961–62.....	28,503	19,673	18,373	1,300	8,830	4,919	3,911
1963–64.....	34,440	22,825	21,325	1,500	11,615	6,558	5,057
1965–66.....	43,682	28,048	26,248	1,800	15,634	9,047	6,586
1967–68.....	55,652	35,077	32,977	2,100	20,575	12,750	7,824
1969–70.....	68,459	43,183	40,683	2,500	25,276	16,234	9,041
1970–71.....	75,741	48,200	45,500	2,700	27,541	18,028	9,513
1971–72.....	80,672	50,950	48,050	2,900	29,722	19,538	10,184
1972–73.....	86,875	54,952	51,852	3,100	31,923	21,144	10,779
1973–74.....	95,396	60,370	56,970	3,400	35,026	23,542	11,484
1974–75.....	108,664	68,846	64,846	4,000	39,818	26,966	12,852
1975–76.....	118,706	75,101	70,601	4,500	43,605	29,736	13,869
1976–77.....	126,417	79,194	74,194	5,000	47,223	31,997	15,226
1977–78.....	137,042	86,544	80,844	5,700	50,498	34,031	16,467
1978–79.....	148,308	93,012	86,712	6,300	55,296	37,110	18,187
1979–80.....	165,627	103,162	95,962	7,200	62,465	41,434	21,031
1980–81.....	182,849	112,325	104,125	8,200	70,524	46,559	23,965
1981–82.....	197,801	120,486	111,186	9,300	77,315	50,813	26,502
1982–83.....	212,081	128,725	118,425	10,300	83,356	54,338	29,018
1983–84.....	228,597	139,000	127,500	11,500	89,597	58,124	31,473
1984–85.....	247,657	149,400	137,000	12,400	98,257	63,704	34,553
1985–86.....	269,485	161,800	148,600	13,200	107,685	70,069	37,616
1986–87 <sup>2</sup> .....	290,900	175,100	160,900	14,200	115,800	75,000	40,800
1987–88 <sup>1</sup> .....	310,700	187,100	172,000	15,100	123,700	80,600	43,100
1988–89 <sup>1</sup> .....	330,500	199,100	183,400	15,700	131,400	85,500	45,800

<sup>1</sup> Estimated<sup>2</sup> Preliminary

—Data not available

NOTE—Total expenditures for public elementary and secondary schools include current expenditures, interest on school debt, and capital outlay. Data for private elementary and secondary schools are estimated. Total expenditures for colleges and universities include current-fund expenditures and additions to plant value. Excludes expenditures of

noncollegiate postsecondary institutions. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*, *Financial Statistics of Institutions of Higher Education*, "Common Core of Data" survey, and "Financial Statistics of Institutions of Higher Education" survey (This table was prepared January 1989).

**Table 27.—Percentage of households contributing to education and other charitable organizations and average annual donation, by type of charity: 1987**

Type of charity	Percentage of total households <sup>1</sup>	Average annual contribution	
		Per contributing household	Per total households
1	2	3	4
Religion.....	52.5	\$715	\$375
Health.....	23.9	130	31
Human services.....	23.9	210	50
Youth development.....	18.5	88	18
Education.....	15.1	293	44
Environment.....	10.8	87	9
Arts, culture, and humanities.....	8.0	260	21
Public and societal benefit.....	6.5	153	10
Private and community foundations.....	4.8	145	7
International, foreign.....	4.2	281	12
Other.....	1.3	(2)	10

<sup>1</sup> Percents do not total 100 because of respondents giving to more than one type of charity.

<sup>2</sup> Too few cases to report.

SOURCE Independent Sector, The Gallup Organization, *Giving and Volunteering in the United States, 1988* (This table was prepared December 1988)



**Table 28.—Estimated total expenditures of educational institutions, by level, control of institution, and source of funds: 1975-76 to 1985-86**

[Amounts in billions]

Level and control of institution and source of funds	1975-76		1979-80		1982-83		1983-84		1984-85		1985-86	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>All levels</b>												
<b>Total public and private</b> .....	<b>\$118.7</b>	<b>100.0</b>	<b>\$165.6</b>	<b>100.0</b>	<b>\$212.1</b>	<b>100.0</b>	<b>\$228.6</b>	<b>100.0</b>	<b>\$247.7</b>	<b>100.0</b>	<b>\$269.5</b>	<b>100.0</b>
Federal.....	13.4	11.3	18.9	11.4	18.7	8.8	19.7	8.6	21.3	8.6	23.5	8.7
State.....	45.0	37.9	64.3	38.8	81.3	38.4	87.0	38.1	96.1	38.8	105.4	39.1
Local.....	34.5	29.0	43.3	26.1	55.4	26.1	60.1	26.3	63.3	25.6	67.8	25.1
All other.....	25.9	21.8	39.1	23.6	56.6	26.7	61.8	27.0	66.9	27.0	72.8	27.0
<b>Total public</b> .....	<b>100.3</b>	<b>100.0</b>	<b>137.4</b>	<b>100.0</b>	<b>172.8</b>	<b>100.0</b>	<b>185.6</b>	<b>100.0</b>	<b>200.7</b>	<b>100.0</b>	<b>218.7</b>	<b>100.0</b>
Federal.....	10.7	10.7	14.8	10.8	14.2	8.2	14.8	8.0	15.8	7.9	17.3	7.9
State.....	44.7	44.5	63.9	46.5	80.8	46.8	86.4	46.6	95.5	47.6	104.7	47.9
Local.....	34.4	34.2	43.1	31.4	55.2	31.9	59.9	32.3	63.1	31.4	67.5	30.9
All other.....	10.6	10.6	15.6	11.3	22.6	13.1	24.6	13.2	26.3	13.1	29.1	13.3
<b>Total private</b> .....	<b>18.4</b>	<b>100.0</b>	<b>28.2</b>	<b>100.0</b>	<b>39.3</b>	<b>100.0</b>	<b>43.0</b>	<b>100.0</b>	<b>47.0</b>	<b>100.0</b>	<b>50.8</b>	<b>100.0</b>
Federal.....	2.7	14.5	4.1	14.5	4.6	11.6	4.9	11.5	5.5	11.7	6.2	12.2
State.....	0.3	1.7	0.4	1.6	0.5	1.4	0.6	1.3	0.7	1.4	0.7	1.4
Local.....	0.1	0.7	0.2	0.6	0.2	0.5	0.2	0.5	0.2	0.5	0.2	0.5
All other.....	15.3	83.1	23.5	83.4	34.0	86.5	37.2	86.7	40.6	86.4	43.6	85.9
<b>Elementary and secondary schools</b>												
<b>Total public and private</b> .....	<b>75.1</b>	<b>100.0</b>	<b>103.2</b>	<b>100.0</b>	<b>128.7</b>	<b>100.0</b>	<b>139.0</b>	<b>100.0</b>	<b>149.4</b>	<b>100.0</b>	<b>161.8</b>	<b>100.0</b>
Federal.....	6.3	8.4	9.4	9.1	8.4	6.5	8.7	6.2	9.1	6.1	9.9	6.1
State.....	31.4	41.8	44.7	43.3	56.5	43.9	60.7	43.6	66.8	44.7	73.2	45.2
Local.....	32.7	43.5	41.6	40.3	53.2	41.3	57.8	41.6	60.8	40.7	65.0	40.2
All other.....	4.7	6.3	7.5	7.3	10.7	8.3	11.9	8.5	12.8	8.6	13.6	8.4
<b>Total public</b> .....	<b>70.6</b>	<b>100.0</b>	<b>96.0</b>	<b>100.0</b>	<b>118.4</b>	<b>100.0</b>	<b>127.5</b>	<b>100.0</b>	<b>137.0</b>	<b>100.0</b>	<b>148.6</b>	<b>100.0</b>
Federal.....	6.3	8.9	9.4	9.8	8.4	7.1	8.7	6.8	9.1	6.6	9.9	6.7
State.....	31.4	44.5	44.7	46.6	56.5	47.7	60.7	47.6	66.8	48.7	73.2	49.3
Local.....	32.7	46.3	41.6	43.3	53.2	44.9	57.8	45.3	60.8	44.3	65.0	43.8
All other.....	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3
<b>Total private</b> .....	<b>4.5</b>	<b>100.0</b>	<b>7.2</b>	<b>100.0</b>	<b>10.3</b>	<b>100.0</b>	<b>11.5</b>	<b>100.0</b>	<b>12.4</b>	<b>100.0</b>	<b>13.2</b>	<b>100.0</b>
All other.....	4.5	100.0	7.2	100.0	10.3	100.0	11.5	100.0	12.4	100.0	13.2	100.0
<b>Institutions of higher education</b>												
<b>Total public and private</b> .....	<b>43.6</b>	<b>100.0</b>	<b>62.5</b>	<b>100.0</b>	<b>83.4</b>	<b>100.0</b>	<b>89.6</b>	<b>100.0</b>	<b>98.3</b>	<b>100.0</b>	<b>107.7</b>	<b>100.0</b>
Federal.....	7.1	16.3	9.5	15.2	10.3	12.4	11.0	12.3	12.2	12.4	13.6	12.6
State.....	13.6	31.1	19.6	31.4	24.9	29.8	26.3	29.4	29.4	29.9	32.2	29.9
Local.....	1.8	4.1	1.7	2.7	2.2	2.6	2.3	2.6	2.5	2.6	2.7	2.5
All other.....	21.1	48.5	31.6	50.6	46.0	55.2	49.9	55.7	54.1	55.1	59.1	54.9
<b>Total public</b> .....	<b>29.7</b>	<b>100.0</b>	<b>41.4</b>	<b>100.0</b>	<b>54.3</b>	<b>100.0</b>	<b>58.1</b>	<b>100.0</b>	<b>63.7</b>	<b>100.0</b>	<b>70.1</b>	<b>100.0</b>
Federal.....	4.4	14.9	5.4	13.1	5.8	10.6	6.1	10.5	6.7	10.6	7.4	10.5
State.....	13.3	44.6	19.2	46.3	24.3	44.8	25.7	44.3	28.7	45.1	31.5	45.0
Local.....	1.7	5.6	1.5	3.7	2.0	3.7	2.1	3.6	2.3	3.6	2.5	3.6
All other.....	10.4	34.9	15.3	36.9	22.3	41.0	24.2	41.6	25.9	40.7	28.7	40.9
<b>Total private</b> .....	<b>13.9</b>	<b>100.0</b>	<b>21.0</b>	<b>100.0</b>	<b>29.0</b>	<b>100.0</b>	<b>31.5</b>	<b>100.0</b>	<b>34.6</b>	<b>100.0</b>	<b>37.6</b>	<b>100.0</b>
Federal.....	2.7	19.2	4.1	19.4	4.6	15.7	4.9	15.7	5.5	15.9	6.2	16.5
State.....	0.3	2.3	0.4	2.1	0.5	1.9	0.6	1.8	0.7	1.9	0.7	1.9
Local.....	0.1	0.9	0.2	0.8	0.2	0.7	0.2	0.7	0.2	0.6	0.2	0.6
All other.....	10.8	77.6	16.3	77.7	23.7	81.7	25.7	81.8	28.2	81.6	30.4	80.9

<sup>1</sup> Some private elementary and secondary school revenues come from Federal, State, and local sources. However, comprehensive data are not available to delineate the sources of revenues for private schools.

NOTE—Estimates of expenditures by source of funds are derived from data collected on revenue sources. Federally supported student aid that goes to higher education institutions through students' tuition payments is shown under "All other" rather than "Federal." Such payments would add substantial amounts and several percentage points to the Federal share. For example, approximately \$8.8 billion was spent on financial aid through students in 1983-84, which amounts to about 3 percent of total education ex-

penditures for that year. Other Federal programs, not included in this table because they do not support regular educational institutions, would increase the Federal share even further. Typical examples of these payments would be Federal support for libraries and museums. Additionally, the Federal contribution to education through tax expenditures is not reflected in this table. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data and "Financial Statistics of Institutions of Higher Education" surveys, and unpublished data. (This table was prepared November 1987.)

Table 29.—Governmental expenditures, by level of government and function: 1970–71 to 1985–86

Expenditure, by function	All governments <sup>1</sup>				Federal Government				State and local governments <sup>2</sup>			
	1970–71	1975–76	1980–81	1985–86	1970–71	1975–76	1980–81	1985–86	1970–71	1975–76	1980–81	1985–86
1	2	3	4	5	6	7	8	9	10	11	12	13
In millions												
<b>General expenditure</b> .....	<b>\$301,096</b>	<b>\$476,146</b>	<b>\$827,877</b>	<b>\$1,285,032</b>	<b>\$150,422</b>	<b>\$220,595</b>	<b>\$422,301</b>	<b>\$796,209</b>	<b>\$150,674</b>	<b>\$256,731</b>	<b>\$407,449</b>	<b>\$606,561</b>
<b>Selected Federal programs</b>												
National defense and international relations.....	80,910	100,414	174,564	312,183	80,910	100,414	174,564	312,183	—	—	—	—
Postal service.....	8,683	13,748	20,466	30,985	8,683	13,748	20,466	30,985	—	—	—	—
Space research and technology.....	3,334	3,691	5,523	7,275	3,334	3,691	5,523	7,275	—	—	—	—
Education and libraries.....	64,042	106,255	158,012	227,664	4,629	9,039	12,408	31,967	60,174	98,465	147,649	217,767
<b>Social services and income maintenance</b>												
Public welfare.....	20,446	45,129	74,643	100,438	2,220	13,694	22,395	70,334	18,226	32,604	54,121	76,730
Hospitals and health.....	14,835	27,570	47,378	68,706	3,630	6,884	11,277	19,708	11,205	20,686	36,101	53,613
Social insurance administration.....	2,031	3,468	5,075	6,578	1,086	1,892	2,799	6,407	945	1,576	2,276	2,707
Transportation.....	23,722	29,646	46,578	62,165	4,062	3,533	7,724	21,102	19,819	26,447	39,231	56,308
<b>Public safety</b>												
Police protection.....	5,706	10,735	16,851	26,228	478	1,204	1,904	3,644	5,228	9,531	14,947	22,685
Correction.....	1,979	4,004	7,806	15,755	94	220	413	862	1,885	3,784	7,393	14,957
<b>Environment and housing</b>												
Natural resources.....	13,740	16,958	43,599	67,695	10,658	12,296	38,896	60,970	3,082	4,662	6,175	9,074
Housing and community development.....	4,467	5,435	13,894	19,210	1,913	2,264	6,808	19,162	2,554	3,151	7,086	11,285
<b>Governmental administration</b>												
Financial administration.....	3,612	6,574	10,944	17,297	1,341	2,614	3,714	5,400	2,271	3,960	7,230	11,897
General control <sup>3</sup> .....	3,567	6,777	11,514	23,125	540	1,066	1,973	3,219	4,432	8,268	12,771	19,906
Interest on general debt.....	21,688	39,575	97,641	181,231	16,599	29,306	80,510	144,167	5,089	10,269	17,131	37,064
Other and unallocable.....	28,334	56,167	93,389	118,500	10,245	18,710	30,927	58,824	15,764	33,328	55,338	76,569
Percentage distribution												
<b>General expenditure</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Selected Federal programs</b>												
National defense and international relations .....	26.9	21.1	21.1	24.3	53.8	45.5	41.3	39.2	—	—	—	—
Postal service.....	2.9	2.9	2.5	2.4	5.8	6.2	4.8	3.9	—	—	—	—
Space research and technology.....	1.1	0.8	0.7	0.6	2.2	1.7	1.3	0.9	—	—	—	—
Education and libraries.....	21.3	22.3	19.1	17.7	3.1	4.1	2.9	4.0	39.9	38.4	36.2	35.2
<b>Social services and income maintenance</b>												
Public welfare.....	6.8	9.5	9.0	7.8	1.5	6.2	5.3	8.8	12.1	12.7	13.3	12.7
Hospitals and health.....	4.9	5.8	5.7	5.3	2.4	3.1	2.7	2.5	7.4	8.1	8.9	8.8
Social insurance administration.....	0.7	0.7	0.6	0.5	0.7	0.9	0.7	0.8	0.6	0.6	0.6	0.4
Transportation.....	7.9	6.2	5.6	4.8	2.7	1.6	1.8	2.7	13.2	10.3	9.6	9.3
<b>Public safety</b>												
Police protection.....	1.9	2.3	2.0	2.0	0.3	0.5	0.5	0.5	3.5	3.7	3.7	3.7
Correction.....	0.7	0.8	0.9	1.2	0.1	0.1	0.1	0.1	1.3	1.5	1.8	2.5
<b>Environment and housing</b>												
Natural resources.....	4.6	3.6	5.3	5.3	7.1	5.6	9.2	7.7	2.0	1.8	1.5	1.5
Housing and community development.....	1.5	1.1	1.7	1.5	1.3	1.0	1.6	2.4	1.7	1.2	1.7	1.9
<b>Governmental administration</b>												
Financial administration.....	1.2	1.4	1.3	1.3	0.9	1.2	0.9	0.7	1.5	1.5	1.8	2.0
General control <sup>3</sup> .....	1.2	1.4	1.4	1.8	0.4	0.5	0.5	0.4	2.9	3.2	3.1	3.3
Interest on general debt.....	7.2	8.3	11.8	14.1	11.0	13.3	11.1	18.1	3.4	4.0	4.2	6.1
Other and unallocable.....	9.4	11.8	11.3	9.2	6.8	8.5	7.3	7.4	10.5	13.0	13.6	12.6

<sup>1</sup> Excludes duplicative intergovernmental transactions

<sup>2</sup> General expenditures include expenditures to the Federal Government (\$2,106,000 in 1985–86), which are excluded from direct general expenditures

<sup>3</sup> Includes judicial and legal expenditures and expenditures on general and public buildings and other governmental administration

—Not applicable

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Governmental Finances*, various years (This table was prepared September 1988)

Table 30.—Direct general expenditures of State and local governments for all functions and for education, by level and State: 1986-87

(In millions)

State	Total direct general expenditures <sup>1</sup>	Education expenditures							
		Total	Elementary and secondary education			Higher education			Other education <sup>2</sup>
			Total	Current expenditure	Capital outlay	Total	Current expenditure	Capital outlay	
1	2	3	4	5	6	7	8	9	10
United States .....	\$653,605.3	\$226,657.9	\$156,781.7	\$145,148.9	\$11,532.8	\$60,240.3	\$54,071.7	\$6,168.6	\$9,635.8
Alabama .....	8,472.8	3,190.7	1,718.6	1,611.8	106.8	1,056.1	929.0	127.1	418.0
Alaska .....	5,226.7	1,245.8	958.8	756.4	203.5	228.2	209.5	18.7	59.8
Arizona .....	9,490.4	3,824.7	2,363.0	1,890.9	472.2	1,154.6	1,021.7	132.9	107.1
Arkansas .....	4,553.0	1,897.6	1,275.2	1,045.4	229.8	479.5	440.3	33.3	137.9
California .....	84,581.5	27,013.5	17,778.0	16,805.1	972.9	8,354.1	7,551.8	802.3	881.5
Colorado .....	9,345.3	3,418.6	2,395.9	2,082.3	313.6	957.1	876.3	80.8	65.5
Connecticut .....	9,393.6	2,849.7	2,186.6	2,092.0	94.5	507.8	465.5	42.3	155.3
Delaware .....	1,925.3	740.0	425.7	412.7	13.0	256.8	223.0	33.8	57.4
District of Columbia .....	3,211.3	566.9	481.2	428.1	53.1	85.8	80.9	-9.0	0.0
Florida .....	28,270.5	9,033.5	6,892.5	6,127.4	765.1	1,622.4	1,381.5	241.0	518.5
Georgia .....	14,312.2	5,226.2	3,874.2	3,466.1	408.1	1,181.3	1,056.6	124.7	170.7
Hawaii .....	3,066.3	820.8	514.5	443.7	70.9	291.9	259.6	32.3	14.4
Idaho .....	2,078.0	815.4	500.1	463.1	37.0	282.0	243.5	38.5	52.9
Illinois .....	29,189.9	9,999.3	8,778.7	6,323.0	455.7	2,638.4	2,336.7	299.7	582.1
Indiana .....	11,956.5	5,007.8	3,178.2	2,931.4	246.8	1,582.3	1,453.5	128.8	247.3
Iowa .....	7,126.2	2,808.5	1,658.8	1,574.3	84.5	1,051.8	923.0	128.8	97.8
Kansas .....	6,169.5	2,375.2	1,577.1	1,480.2	96.9	751.2	693.4	57.8	47.0
Kentucky .....	7,775.8	2,679.1	1,650.3	1,550.4	99.9	329.3	243.5	71.7	199.4
Louisiana .....	11,013.4	3,415.3	2,299.1	2,118.0	181.1	928.9	845.1	83.8	187.3
Maine .....	2,937.8	1,046.3	737.8	668.7	69.1	242.4	211.4	31.1	66.1
Maryland .....	12,527.4	4,242.8	2,858.9	2,687.0	171.9	1,199.5	1,064.8	134.7	184.4
Massachusetts .....	17,525.5	5,005.4	3,718.1	3,611.0	107.1	1,031.7	923.0	108.8	255.8
Michigan .....	26,662.1	10,000.8	6,749.9	6,460.1	289.9	2,965.9	2,682.3	283.5	285.0
Minnesota .....	13,930.2	4,802.2	3,187.4	2,972.7	214.7	1,424.2	1,292.0	132.2	190.8
Mississippi .....	5,319.2	1,931.1	1,245.0	1,151.1	93.9	592.4	551.5	40.9	52.7
Missouri .....	10,552.8	4,037.9	2,779.2	2,590.8	188.5	1,136.8	967.3	169.8	121.9
Montana .....	2,330.9	870.3	636.9	605.8	31.1	184.5	160.1	24.4	48.9
Nebraska .....	3,949.9	1,573.4	1,027.9	969.3	58.6	495.9	432.0	63.8	49.7
Nevada .....	2,821.4	806.2	582.4	529.4	52.9	198.8	182.2	16.8	25.1
New Hampshire .....	2,365.1	854.4	638.0	566.3	71.7	188.9	155.6	33.4	27.5
New Jersey .....	23,280.6	7,647.3	5,799.6	5,540.2	259.4	1,589.6	1,454.3	135.3	258.1
New Mexico .....	4,041.1	1,508.6	1,016.3	887.7	128.5	445.8	399.5	46.2	46.8
New York .....	89,520.5	20,261.9	15,343.4	14,575.5	767.9	3,844.1	3,392.3	451.8	1,074.5
North Carolina .....	13,324.9	5,768.9	3,669.0	3,366.7	302.3	1,892.1	1,652.8	239.3	207.8
North Dakota .....	1,948.3	726.6	439.1	397.5	41.6	262.6	243.8	18.9	24.8
Ohio .....	26,255.4	9,619.8	6,785.7	6,459.1	326.6	2,627.6	2,321.8	306.0	206.5
Oklahoma .....	7,249.1	2,749.4	1,907.6	1,676.1	231.5	766.2	712.1	54.1	75.5
Oregon .....	7,653.4	2,900.2	1,992.9	1,895.6	97.3	828.4	743.7	84.7	78.9
Pennsylvania .....	26,049.8	9,908.1	7,560.3	7,085.1	475.2	1,536.4	1,394.2	162.2	791.4
Rhode Island .....	2,749.3	876.9	587.4	574.0	13.5	211.7	196.3	15.4	87.7
South Carolina .....	7,263.8	3,028.6	1,944.4	1,730.8	213.6	915.6	826.1	89.5	168.7
South Dakota .....	1,803.5	589.7	401.3	378.9	22.4	166.7	155.4	11.3	21.7
Tennessee .....	10,086.8	3,400.8	2,098.3	1,937.2	161.1	1,013.9	930.3	83.7	288.6
Texas .....	39,018.7	15,754.2	11,176.1	9,811.1	1,364.9	4,316.9	3,874.2	442.7	261.2
Utah .....	4,278.2	1,786.9	1,083.1	989.8	93.3	636.4	556.2	80.3	87.4
Vermont .....	1,506.6	605.6	389.2	378.9	10.3	178.4	167.8	10.6	38.0
Virginia .....	14,168.9	5,538.0	3,740.7	3,482.8	257.9	1,602.2	1,461.2	141.0	193.1
Washington .....	12,602.1	4,579.7	3,088.3	2,749.9	338.4	1,348.8	1,211.2	137.3	142.8
West Virginia .....	4,313.3	1,611.2	1,173.3	1,090.3	83.0	357.0	339.7	17.3	80.9
Wisconsin .....	13,666.5	5,111.8	3,337.8	3,220.5	117.0	1,594.9	1,479.6	115.3	79.4
Wyoming .....	2,167.8	791.2	579.1	506.5	72.5	196.5	180.8	15.7	15.7

<sup>1</sup> Includes State and local government expenditures for education services, social services and income maintenance, transportation, public safety, environment and governmental administration, interest on debt, and other general expenditures.

<sup>2</sup> Includes State education administration and services, tuition grants, fellowships, aid to private schools, and special programs. Capital expenditures for other education are included under elementary and secondary.

NOTE—Current expenditure data in this table differ from figures appearing in other tables because of slightly varying definitions used in the survey of Governmental Finances. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Governmental Finances in 1986-87* (This table was prepared June 1989).

**Table 31.—Direct general expenditures of State and local governments for all functions and for education, by level and State: 1985-86**

[In millions]

State	Total direct expenditures <sup>1</sup>	Education expenditures							Other education <sup>2</sup>
		Total	Elementary and secondary education			Higher education			
			Total	Current expenditure	Capital outlay	Total	Current expenditure	Capital outlay	
1	2	3	4	5	6	7	8	9	10
<b>United States.....</b>	<b>\$604,455.0</b>	<b>\$210,818.5</b>	<b>\$145,110.7</b>	<b>\$134,837.2</b>	<b>\$10,273.6</b>	<b>\$56,535.1</b>	<b>\$51,318.3</b>	<b>\$5,216.8</b>	<b>\$9,172.6</b>
Alabama.....	8,614.5	3,213.0	1,756.7	1,609.5	147.2	1,041.6	940.4	101.2	414.7
Alaska.....	5,039.4	1,212.6	886.63	743.6	143.0	279.4	228.0	51.4	47.6
Arizona.....	8,428.8	3,274.4	2,103.0	1,709.0	394.0	1,072.9	956.5	118.4	88.5
Arkansas.....	4,371.0	1,877.0	1,271.6	1,032.5	239.1	476.5	416.4	60.1	129.0
California.....	76,082.2	24,463.4	15,827.8	15,143.7	684.0	7,776.6	7,080.2	696.4	859.1
Colorado.....	8,387.8	3,101.3	2,178.0	1,926.2	251.8	882.2	797.3	65.0	81.1
Connecticut.....	8,235.5	2,377.3	1,765.2	1,898.1	67.1	476.9	460.9	16.1	135.1
Delaware.....	1,783.4	701.4	406.6	393.3	13.3	241.8	210.8	31.0	53.0
District of Columbia.....	2,938.2	501.9	420.1	384.0	36.1	81.8	77.8	4.0	—
Florida.....	24,790.1	8,213.5	6,117.2	5,546.5	570.7	1,551.6	1,402.1	149.5	544.8
Georgia.....	13,424.9	4,649.3	3,213.5	2,920.6	290.9	1,284.3	1,138.3	145.9	151.6
Hawaii.....	2,865.9	805.8	468.4	419.3	49.1	322.6	289.0	33.6	14.8
Idaho.....	1,984.2	784.9	483.8	433.8	50.0	246.5	216.7	29.7	34.6
Illinois.....	27,155.0	9,197.9	5,303.2	5,925.5	377.7	2,386.8	2,176.2	210.5	507.9
Indiana.....	10,984.2	4,500.4	2,912.2	2,679.0	233.2	1,349.9	1,221.3	128.6	238.4
Iowa.....	6,951.4	2,672.2	1,624.2	1,524.4	99.8	945.4	827.4	118.0	102.6
Kansas.....	5,862.4	2,301.2	1,526.8	1,420.4	106.4	730.7	683.6	47.2	43.7
Kentucky.....	7,162.1	2,569.7	1,602.0	1,502.4	99.6	781.7	718.0	63.6	186.0
Louisiana.....	10,907.7	3,530.9	2,346.4	2,139.9	206.5	956.7	867.5	89.2	227.9
Maine.....	2,703.5	954.9	653.4	608.6	44.7	237.5	211.1	26.4	64.1
Maryland.....	11,514.3	3,890.1	2,609.9	2,473.7	136.1	1,112.6	1,022.7	89.9	167.7
Massachusetts.....	15,811.5	4,616.6	3,463.9	3,301.3	162.6	916.6	831.0	85.6	236.1
Michigan.....	25,360.0	9,445.1	6,466.3	6,208.5	257.9	2,704.1	2,432.5	271.6	274.7
Minnesota.....	12,846.4	4,235.1	2,953.6	2,744.8	218.9	1,095.4	1,016.2	79.3	176.0
Mississippi.....	5,135.9	1,856.9	1,177.8	1,126.2	51.3	581.5	556.8	24.7	97.6
Missouri.....	9,698.3	3,569.3	2,562.2	2,400.3	161.9	894.2	800.5	93.7	112.9
Montana.....	2,280.0	800.5	625.3	588.2	37.1	175.0	159.2	15.8	40.2
Nebraska.....	3,826.0	1,474.8	983.9	932.3	51.5	446.9	412.3	34.6	44.1
Nevada.....	2,564.3	744.7	529.4	502.0	27.4	190.6	168.6	22.0	24.7
New Hampshire.....	2,078.9	724.9	531.9	498.6	33.3	171.8	167.3	4.5	21.2
New Jersey.....	21,313.7	6,984.7	5,410.3	5,131.9	278.4	1,358.1	1,251.6	106.5	216.3
New Mexico.....	3,987.1	1,579.7	995.2	858.0	137.3	540.8	479.2	61.7	43.6
New York.....	64,256.5	18,446.7	13,988.0	13,350.2	637.8	3,472.3	3,206.1	266.2	986.3
North Carolina.....	12,099.3	5,322.1	3,356.2	3,147.5	208.7	1,770.6	1,604.2	166.4	195.3
North Dakota.....	1,838.0	706.3	420.9	391.9	29.0	258.1	240.2	17.8	27.3
Ohio.....	24,616.2	9,202.1	6,589.4	6,241.2	348.3	2,436.8	2,160.4	276.4	175.9
Oklahoma.....	7,364.4	2,889.3	1,936.3	1,680.0	256.2	838.6	758.9	79.7	114.4
Oregon.....	7,210.4	2,651.7	1,803.6	1,717.1	86.5	783.2	732.6	50.6	64.9
Pennsylvania.....	25,957.5	9,170.3	6,946.1	6,576.6	369.4	1,490.7	1,361.8	128.9	733.5
Rhode Island.....	2,604.8	819.3	535.8	526.7	9.1	205.5	192.9	12.6	78.0
South Carolina.....	6,661.6	2,713.3	1,724.9	1,567.6	157.2	825.8	756.3	69.4	162.6
South Dakota.....	1,595.6	560.5	402.7	379.0	23.7	136.8	126.2	10.6	20.9
Tennessee.....	9,213.7	3,131.1	1,885.3	1,721.9	163.3	984.9	900.2	84.7	260.9
Texas.....	36,759.9	15,452.5	10,847.1	9,395.9	1,451.3	4,334.4	3,901.2	433.2	271.0
Utah.....	4,132.9	1,748.9	1,097.2	946.6	150.6	587.3	534.0	53.3	64.4
Vermont.....	1,385.9	534.5	319.4	310.3	9.1	181.3	184.0	17.4	33.8
Virginia.....	12,803.2	5,101.7	3,480.9	3,284.7	196.2	1,436.0	1,277.9	158.1	184.8
Washington.....	11,447.1	4,178.9	2,733.6	2,491.2	242.4	1,297.0	1,197.9	99.1	148.4
West Virginia.....	4,140.8	1,596.9	1,143.6	1,075.9	67.8	369.9	347.6	22.3	83.4
Wisconsin.....	13,011.5	4,900.7	3,101.8	2,974.3	127.3	1,617.2	1,460.3	156.9	181.9
Wyoming.....	2,267.4	845.1	611.8	530.4	81.4	217.9	178.4	39.5	15.4

Includes State and local government expenditures for education services, social services and income maintenance, transportation, public safety, environment and housing, governmental administration, interest on general debt, and other general expenditures.

<sup>1</sup>Includes State education administration and services, tuition grants, fellowships, aid to private schools, and special programs. Capital expenditures for other education are included under elementary and secondary.

—Data not applicable or not available.

NOTE—Current expenditure data in this table differ from figures appearing in other tables because of slightly varying definitions used in the *Governmental Finances* and *Common Core of Data* surveys. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Governmental Finances in 1985-86* (This table was prepared August 1988).

Table 32.—Direct general expenditures per capita of State and local governments for all functions and for education, by level and State: 1985-86

State	Total, all direct general expenditures per capita <sup>1</sup>	Education expenditures per capita							
		Total		Elementary and secondary education		Higher education		Other education <sup>2</sup>	
		Amount	As a percent of all functions	Amount	As a percent of all functions	Amount	As a percent of all functions	Amount	As a percent of all functions
1	2	3	4	5	6	7	8	9	10
<b>Unif'd States</b>	<b>\$2,507.31</b>	<b>\$874.49</b>	<b>34.9</b>	<b>\$601.93</b>	<b>24.0</b>	<b>\$234.51</b>	<b>9.4</b>	<b>\$38.05</b>	<b>1.5</b>
Alabama	2,125.47	792.76	37.3	433.43	20.4	257.00	12.1	102.32	4.8
Alaska	9,437.11	2,272.75	24.1	1,660.36	17.6	523.22	5.5	89.17	0.9
Arizona	2,541.10	987.15	38.8	634.02	25.0	323.45	12.7	29.68	1.2
Arkansas	1,842.74	791.31	42.9	536.07	29.1	200.87	10.9	54.37	3.0
California	2,819.84	906.69	32.2	586.62	20.8	288.23	10.2	31.84	1.1
Colorado	2,567.44	949.28	37.0	666.66	26.0	263.92	10.3	18.70	0.7
Connecticut	2,582.47	745.46	28.9	553.52	21.4	149.56	5.8	42.37	1.6
Delaware	2,817.37	1,108.09	39.3	642.31	22.8	382.04	13.6	83.73	3.0
District of Columbia	4,693.58	801.78	17.1	671.15	14.3	130.63	2.8	—	—
Florida	2,123.35	703.51	33.1	523.95	24.7	132.90	6.3	46.66	2.2
Georgia	2,199.36	761.68	34.6	526.46	23.9	210.40	9.6	24.83	1.1
Hawaii	2,698.60	758.74	28.1	441.02	16.3	303.80	11.3	13.92	0.5
Idaho	1,978.24	762.64	38.6	482.40	24.4	245.72	12.4	34.53	1.7
Illinois	2,350.47	796.15	33.9	545.59	23.2	206.59	8.8	43.96	1.9
Indiana	1,995.67	817.67	41.0	529.11	26.5	245.25	12.3	43.31	2.2
Iowa	2,438.22	937.29	38.4	569.69	23.4	331.59	13.6	36.00	1.5
Kansas	2,382.11	935.09	39.3	620.40	26.0	296.92	12.5	17.77	0.7
Kentucky	1,921.15	689.29	35.9	429.72	22.4	209.68	10.9	49.89	2.6
Louisiana	2,423.38	784.48	32.4	521.30	21.5	212.55	8.8	50.63	2.1
Maine	2,302.83	813.36	35.3	556.52	24.2	202.26	8.8	54.58	2.4
Maryland	2,579.95	871.63	33.8	584.78	22.7	249.28	9.7	37.57	1.5
Massachusetts	2,711.17	791.59	29.2	593.95	21.9	157.16	5.8	40.49	1.5
Michigan	2,773.10	1,032.82	37.2	707.09	25.5	295.69	10.7	30.03	1.1
Minnesota	3,048.51	1,005.00	33.0	703.29	23.1	259.95	8.5	41.77	1.4
Mississippi	1,956.54	707.40	36.2	448.70	22.9	221.53	11.3	37.17	1.9
Missouri	1,914.40	704.57	36.8	505.77	26.4	176.52	9.2	22.28	1.2
Montana	2,783.94	1,026.30	36.9	763.53	27.4	213.65	7.7	49.12	1.8
Nebraska	2,594.23	922.91	38.5	615.70	25.7	279.65	11.7	27.57	1.2
Nevada	2,662.87	773.29	29.0	549.73	20.6	197.89	7.4	25.67	1.0
New Hampshire	2,024.25	705.83	34.9	517.90	25.6	167.25	8.3	20.68	1.0
New Jersey	2,797.08	916.63	32.8	710.01	25.4	178.23	6.4	28.39	1.0
New Mexico	2,695.77	1,068.08	39.6	672.92	25.0	365.68	13.6	29.48	1.1
New York	3,615.61	1,037.96	28.7	787.08	21.8	195.38	5.4	55.50	1.5
North Carolina	1,911.11	840.64	44.0	530.13	27.7	279.67	14.6	30.85	1.6
North Dakota	2,706.94	1,040.22	38.4	619.93	22.8	380.07	14.0	40.23	1.5
Ohio	2,289.45	855.85	37.4	612.86	26.8	226.64	9.9	16.36	0.7
Oklahoma	2,228.26	874.22	39.2	585.86	26.3	253.74	11.4	34.61	1.6
Oregon	2,672.48	982.84	36.8	668.51	25.0	290.29	10.9	24.05	0.9
Pennsylvania	2,183.32	771.33	35.3	584.24	26.8	125.38	5.7	61.70	2.8
Rhode Island	2,671.35	840.32	31.5	519.55	20.6	210.76	7.9	60.01	3.0
South Carolina	1,972.05	803.22	40.7	510.62	25.9	244.46	12.4	48.14	2.4
South Dakota	2,253.67	791.62	35.1	568.81	25.2	193.26	8.6	29.56	1.3
Tennessee	1,918.31	651.90	34.0	392.52	20.5	205.06	10.7	54.32	2.3
Texas	2,203.57	926.30	42.0	650.23	29.5	259.82	11.8	16.25	0.7
Utah	2,182.22	1,050.39	42.3	659.98	26.5	352.76	14.2	38.65	1.6
Vermont	2,561.78	987.91	38.6	590.30	23.0	335.19	13.1	62.42	2.4
Virginia	2,212.40	881.59	39.8	601.50	27.2	248.14	11.2	31.94	1.4
Washington	2,564.88	936.35	36.5	612.48	23.9	290.61	11.3	33.25	1.3
West Virginia	2,157.80	832.13	38.6	595.06	27.6	192.74	8.9	43.44	2.0
Wisconsin	2,719.23	1,024.17	37.7	645.19	23.8	337.98	12.4	38.00	1.4
Wyoming	4,472.28	1,686.83	37.3	1,206.73	27.0	429.80	9.6	30.30	0.7

<sup>1</sup> Includes State and local government expenditures for education services, social services and income maintenance, transportation, public safety, environment and housing, governmental administration, interest on general debt, and other general expenditures.

<sup>2</sup> Includes State education administration and services, tuition grants, fellowships, aid to private schools, and special programs.

—Data not applicable or not available

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Governmental Finances in 1986-87* (This table was prepared August 1988).

**Table 33.—Gross National Product, State and local expenditures, personal income, disposable personal income, median family income, and population: 1929 to 1988**

Year	Gross National Product, in billions		State and local expenditures <sup>1</sup> in millions		Personal income, in billions	Disposable personal income, in billions of 1982 dollars	Disposable personal income per capita		Median family income	Population in thousands <sup>2</sup>
	Current dollars	Constant 1982 dollars	All general expenditures	education expenditures			Current dollars	Constant 1982 dollars		
1	2	3	4	5	6	7	8	9	10	11
1929.....	\$103.9	\$709.6	—	—	\$84.3	\$498.6	\$671	\$4,091	—	121,878
1933.....	56.0	498.5	—	—	46.3	370.8	357	2,950	—	125,690
1939.....	91.3	716.6	—	—	72.1	499.5	532	3,812	—	131,028
1940.....	100.4	772.9	\$9,229	\$2,638	77.6	530.7	568	4,017	—	132,122
1941.....	125.5	909.4	—	—	95.2	604.1	689	4,528	—	133,402
1942.....	159.0	1,080.3	9,190	2,586	122.4	693.0	863	5,138	—	134,860
1943.....	192.7	1,276.2	—	—	150.7	721.4	972	5,276	—	136,739
1944.....	211.4	1,380.6	8,861	2,793	164.5	749.3	1,052	5,414	—	138,397
1945.....	213.4	1,354.8	—	—	170.0	739.5	1,066	5,285	—	139,928
1946.....	212.4	1,096.9	11,028	3,356	177.6	723.3	1,124	5,115	—	141,389
1947.....	235.2	1,066.7	—	—	190.2	694.8	1,171	4,820	\$3,031	144,126
1948.....	261.6	1,108.7	17,684	5,379	209.2	733.1	1,283	5,000	3,187	146,831
1949.....	260.4	1,109.0	—	—	206.4	733.2	1,260	4,915	3,107	149,188
1950.....	288.3	1,203.7	22,787	7,177	228.1	791.8	1,368	5,220	3,319	151,684
1951.....	333.4	1,328.2	—	—	256.5	819.0	1,475	5,308	3,709	154,287
1952.....	351.6	1,380.0	26,098	8,318	273.8	844.3	1,528	5,379	3,890	156,954
1953.....	371.6	1,435.3	27,910	9,390	290.5	880.0	1,599	5,515	4,242	159,565
1954.....	372.5	1,416.2	30,701	10,557	293.0	894.0	1,604	5,505	4,167	162,391
1955.....	405.9	1,494.9	33,724	11,907	314.2	944.5	1,687	5,714	4,418	165,275
1956.....	428.2	1,525.6	36,711	13,220	337.2	989.4	1,769	5,881	4,780	168,221
1957.....	451.0	1,551.1	40,375	14,134	356.3	1,012.1	1,833	5,909	4,966	171,274
1958.....	456.8	1,539.2	44,851	15,919	367.1	1,028.8	1,865	5,908	5,087	174,141
1959.....	495.8	1,629.1	48,887	17,283	390.7	1,067.2	1,946	6,027	5,417	177,073
1960.....	515.3	1,665.3	51,876	18,719	409.4	1,091.1	1,986	6,036	5,620	180,760
1961.....	533.8	1,708.7	56,201	20,574	426.0	1,123.2	2,034	6,113	5,735	183,742
1962.....	574.6	1,799.4	60,206	22,216	453.2	1,170.2	2,123	6,271	5,956	186,590
1963.....	606.9	1,873.3	63,977	23,729	476.3	1,207.3	2,197	6,378	6,249	189,300
1964.....	649.8	1,973.3	69,302	26,286	510.2	1,291.0	2,352	6,727	6,569	191,927
1965.....	705.1	2,087.6	74,678	28,563	552.0	1,365.7	2,505	7,027	6,957	194,347
1966.....	772.0	2,208.3	82,843	33,287	600.8	1,431.3	2,675	7,280	7,532	198,599
1967.....	816.4	2,271.4	93,350	37,919	644.5	1,493.2	2,828	7,513	7,933	198,752
1968.....	892.7	2,365.6	102,411	41,158	707.2	1,551.3	3,037	7,728	8,632	200,745
1969.....	963.9	2,423.3	116,728	47,238	772.9	1,599.8	3,239	7,891	9,433	202,738
1970.....	1,015.5	2,416.2	131,332	52,718	831.8	1,668.1	3,489	8,134	9,867	205,089
1971.....	1,102.7	2,484.8	150,674	59,413	894.0	1,728.4	3,740	8,322	10,285	207,692
1972.....	1,212.8	2,608.5	168,550	65,814	981.6	1,797.4	4,000	8,562	11,116	209,924
1973.....	1,359.3	2,744.1	181,357	69,714	1,101.7	1,916.3	4,481	9,042	12,051	211,939
1974.....	1,472.8	2,729.3	198,959	75,833	1,210.1	1,896.6	4,855	8,867	12,902	213,898
1975.....	1,598.4	2,695.0	230,721	87,858	1,313.4	1,931.7	5,291	8,944	13,719	215,981
1976.....	1,782.8	2,826.7	256,731	97,216	1,451.4	2,001.0	5,744	9,175	14,958	218,086
1977.....	1,890.5	2,958.6	274,215	102,780	1,607.5	2,066.6	6,262	9,381	16,009	220,289
1978.....	2,249.7	3,115.2	296,983	110,758	1,812.4	2,167.4	6,968	9,735	17,640	222,629
1979.....	2,508.2	3,192.4	327,517	119,448	2,034.0	2,212.6	7,682	9,829	19,587	225,106
1980.....	2,732.0	3,187.1	369,086	133,211	2,258.5	2,214.3	8,421	9,722	21,023	227,754
1981.....	3,052.6	3,248.8	407,449	145,784	2,520.9	2,248.6	9,243	9,769	22,388	230,182
1982.....	3,166.0	3,166.0	438,896	154,282	2,670.8	2,261.5	9,724	9,725	23,433	232,549
1983.....	3,405.7	3,279.1	466,421	163,876	2,838.6	2,331.9	10,340	9,930	24,674	234,829
1984.....	3,772.2	3,501.4	505,008	176,108	3,108.7	2,469.8	11,257	10,419	26,433	237,051
1985.....	4,014.9	3,618.7	553,899	192,686	3,325.3	2,542.8	11,861	10,625	27,735	239,322
1986.....	4,240.3	3,721.7	605,594	210,819	3,531.1	2,640.9	12,496	10,929	29,458	241,650
1987.....	4,526.7	3,847.0	656,064	226,658	3,780.0	2,686.3	13,157	11,012	30,853	243,944
1988.....	4,861.8	3,995.0	—	—	4,063.2	2,789.4	14,107	11,331	—	246,180

<sup>1</sup> Data for years prior to 1963 include expenditures for government fiscal years ending during that particular calendar year. Data for 1963 and later years are the aggregations of expenditures for government fiscal years which ended on June 30 of the stated year. General expenditures exclude expenditures of publicly owned utilities and liquor stores, and of insurance-just activities. Intergovernmental payments between State and local governments are excluded. Payments to the Federal Government are included.

<sup>2</sup> Population of the United States including Armed Forces overseas, includes Alaska

and Hawaii beginning 1960. Annual data are for July 1 through 1958 and are averages of quarterly data beginning 1959. Quarterly data are averages for the period

—Data not available

NOTE—Some data have been revised from previously published figures.

SOURCE: Executive Office of the President, *Economic Report of the President, 1989*, and Council of Economic Advisers, *Economic Indicators*, January 1989 (This table was prepared February 1989)

Table 34.—Gross National Product Price Deflator, Consumer Price Index, and education price indexes: 1919 to 1988

Calendar year			School year			
Year	GNP Implicit Price Deflator	Consumer Price Index <sup>1</sup>	Year	Consumer Price Index <sup>2</sup>	Elementary/Secondary Price Index	Higher Education Price Index
1	2	3	4	5	6	7
1919	--	17.3	1919-20	19.1	--	--
1929	14.6	17.1	1929-30	17.1	--	--
1934	--	13.4	1934-35	13.6	--	--
1939	12.7	13.9	1939-40	14.0	--	--
1940	13.0	14.0	1940-41	14.2	--	--
1941	13.8	14.7	1941-42	15.6	--	--
1942	14.7	16.3	1942-43	16.9	--	--
1943	15.1	17.3	1943-44	17.4	--	--
1944	15.3	17.6	1944-45	17.8	--	--
1945	15.7	18.0	1945-46	18.2	--	--
1946	19.4	19.5	1946-47	21.2	--	--
1947	22.1	22.3	1947-48	23.3	--	--
1948	23.6	24.1	1948-49	24.1	--	--
1949	23.5	23.8	1949-50	23.7	--	--
1950	23.9	24.1	1950-51	25.1	--	--
1951	25.1	26.0	1951-52	26.3	--	--
1952	25.5	26.5	1952-53	26.7	--	--
1953	25.9	26.7	1953-54	26.9	--	--
1954	26.3	26.8	1954-55	26.8	--	--
1955	27.2	26.8	1955-56	26.9	--	--
1956	28.1	27.2	1956-57	27.7	--	--
1957	29.1	28.1	1957-58	28.6	--	--
1958	29.7	28.9	1958-59	29.0	--	--
1959	30.4	29.1	1959-60	29.4	--	--
1960	30.9	29.6	1960-61	29.8	--	25.1
1961	31.2	29.9	1961-62	30.1	--	26.1
1962	31.9	30.2	62-63	30.4	--	27.1
1963	32.4	30.6	63-64	30.8	--	28.1
1964	32.9	31.0	1964-65	31.2	--	29.3
1965	33.8	31.5	1965-66	31.9	--	30.8
1966	35.0	32.4	1966-67	32.9	--	32.4
1967	35.9	33.4	1967-68	34.0	--	34.3
1968	37.7	34.8	1968-69	35.7	--	36.7
1969	39.8	36.7	1969-70	37.8	--	39.2
1970	42.0	38.8	1970-71	39.7	--	41.6
1971	44.4	40.5	1971-72	41.2	--	44.0
1972	46.5	41.8	1972-73	42.8	--	46.3
1973	49.5	44.4	1973-74	46.6	--	49.6
1974	54.0	49.3	1974-75	51.8	51.6	53.8
1975	59.3	53.8	1975-76	55.5	56.1	57.4
1976	63.1	56.9	1976-77	58.7	59.9	61.1
1977	67.3	60.6	1977-78	62.6	64.0	65.2
1978	72.2	65.2	1978-79	68.5	69.9	70.2
1979	78.6	72.6	1979-80	77.6	76.3	77.2
1980	85.7	82.4	1980-81	86.6	85.5	85.5
1981	94.0	90.9	1981-82	94.1	93.8	94.0
1982	100.0	96.5	1982-83	98.2	100.0	100.0
1983	103.9	99.6	1983-84	101.8	105.9	105.4
1984	107.7	103.9	1984-85	105.8	113.4	112.5
1985	110.9	107.6	1985-86	108.8	120.0	117.4
1986	113.9	109.6	1986-87	111.2	125.7	122.3
1987	117.7	113.6	1987-88	115.8	--	--
1988	121.7	118.3	1988-89	121.2	--	--

<sup>1</sup> Index for urban wage earners and clerical workers through 1977. 1978 and later figures are for all urban consumers.

<sup>2</sup> Consumer Price Index adjusted to a school-year basis (July through June).

-- Data not available.

NOTE.—Some data have been revised from previously published figures.

SOURCE: Council of Economic Advisers, *Economic Indicators*, January 1989; U.S. Department of Education, National Institute of Education, *Inflation Measures for Schools and Colleges*; U.S. Department of Labor, Bureau of Labor Statistics, *Consumer Price Index*, and Research Associates of Washington, "Higher Education Prices and Price Indexes 1988 Update" and "School Price Index 1988 Update" (This table was prepared March 1989).

## CHAPTER 2

# Elementary and Secondary Education

Growing concern about the quality of education in elementary and secondary schools has prompted careful examinations of student learning experiences. Results from a number of achievement tests have highlighted the mediocre performance of students in mathematics, reading, and writing. Moreover, minority students have scored much lower than the average in these important areas. Other analyses have focused on the resources and outcomes of education institutions. The evaluation of these issues has caused increased information needs that are only partially met by available data.

This chapter contains a variety of statistics on public and private elementary and secondary education. These data are derived from surveys conducted by the National Center for Education Statistics (NCES) and other public and private organizations.

The Center conducts annual surveys of public school statistics and periodic surveys of teacher characteristics and private schools. The Common Core of Data is a survey of public elementary and secondary school and school district data available through administrative records of State education agencies. Each State provides summary data on enrollment, staff, revenues, and expenditures. In addition, listings and selected statistics of school districts and schools are obtained. National and State summary statistics from the Common Core of Data have been published annually in the Digest, and in a series of reports and bulletins.

The Center has also conducted periodic surveys of private elementary and secondary schools for many years. Summary statistics on enrollments, teachers, and schools were collected in the 1985-86 Survey of Private Schools. Additional information on private schools has been made available by the National Catholic Educational Association.

Other recurring reports of the Center which have appeared from time to time are the studies of preprimary education and of offerings and enrollments in high school subjects. The most recent statistics in these areas are summarized in the tables which follow.

This chapter of the Digest also utilizes data on student achievement from the National Assessment of Educational Progress; on public school enrollment by race or ethnicity from the Office for Civil Rights, U.S.

Department of Education; on the characteristics, subjects taught, and average salaries of public school teachers from the National Education Association and the American Federation of Teachers; on mandatory ages of attendance, graduation requirements, and minimum competency testing for students and teachers from the Education Commission of the States; and on the Scholastic Aptitude Test scores of college-bound high school seniors from the College Entrance Examination Board.

The Center is developing a new plan to expand the coverage of its elementary and secondary statistical program. This new survey system will provide more information on the finances of elementary and secondary schools and will allow cross comparisons of teacher, student, and school characteristics. For example, the linking of student performance with teacher and school characteristics may provide the data for a systematic study of successful school environments.

Additional information on public school libraries and the use of microcomputers in public and private schools is tabulated in chapter 7 of this report. Comparisons of the income and employment of high school graduates and dropouts, and college enrollment of high school graduates are in chapter 5. Tabulations of international data are in chapter 6. Further information on survey methodologies can be found in the Guide to Sources in the appendix.

## Highlights

- In fall 1985, public elementary and secondary school enrollments increased for the first time since 1971. Enrollment continued to rise, resulting in an increase of 2 percent from 1985 to 1988. (Tables 2 and 37)
- In contrast to the declining elementary and secondary school enrollments during the 1970s and early 1980s, there was substantial enrollment growth in preprimary education. Between 1970 and 1980, preprimary enrollment of 3- to 5-year-olds rose by 19 percent. From 1980 to 1987, preprimary enrollment increased an additional 22 percent. An important feature of the increasing participation of young children in preprimary schools is the high proportion in full-day programs. In 1987



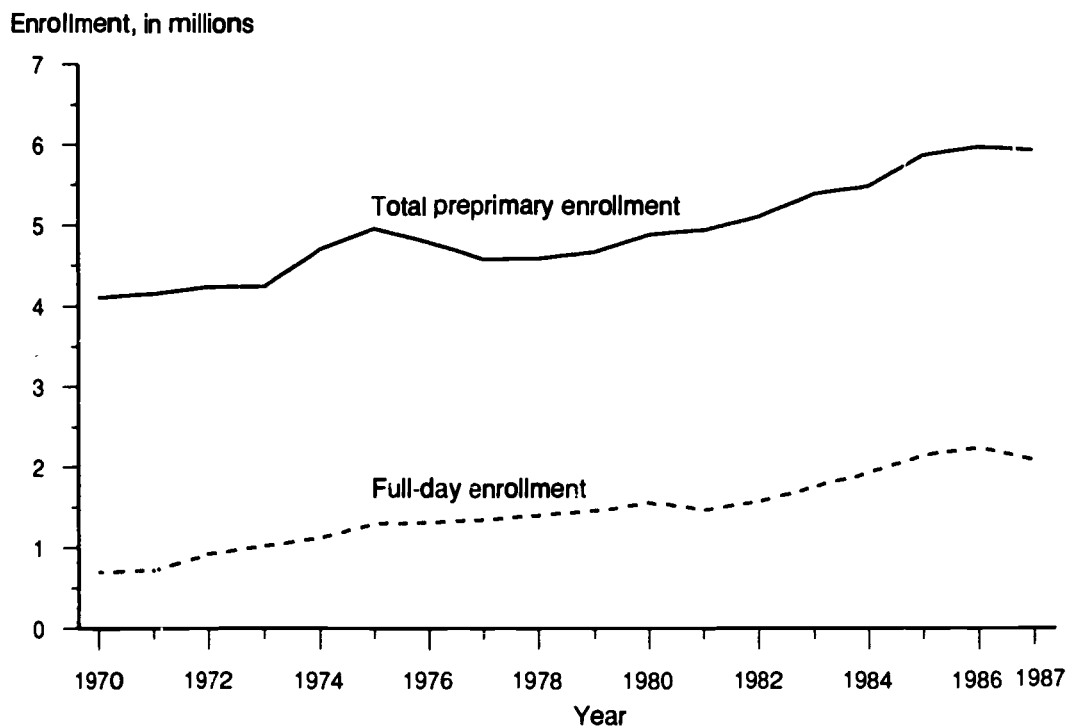
about 35 percent of the children attended school all day compared to 32 percent in 1980. (Table 43)

- Despite drops in total elementary and secondary school enrollment during the late 1970s and early 1980s, increasing numbers of children were served in programs for the handicapped. In 1977-78, about 8.6 percent of children were served in these programs compared to 11.1 percent in 1987-88. Most of this increase may be attributed to the proportion of children who were identified as learning disabled, which rose from 2 percent of all children in 1977-78 to 5 percent of all children in 1987-88. (Table 45)
- Of the 404,000 full-time and part-time private school teachers in 1985-86, about 76 percent were women. About 62 percent of the teachers were under age 40. Ninety-five percent of the private school teachers had a bachelor's degree or above. (Table 52)
- About one-third of all private schools had a basic tuition (excluding discounts) of more than \$1,500 in 1985-86. There was considerable variation in the tuition charges by different types of schools. Catholic schools tended to charge the least, with 12 percent charging over \$1,500. Schools with no religious orientation charged the most, with 80 percent charging over \$1,500 per year. (Table 53)
- During the 1970s and early 1980s, public school enrollment decreased, while the number of teachers increased. As a result, the pupil-teacher ratio declined markedly. Between 1970 and 1980, the pupil-teacher ratio for public schools fell from 22.3 to 18.8. After 1980, the number of pupils per teacher continued downward, reaching 17.5 in 1988. (Table 55)
- The average salary for public school teachers has grown rapidly in recent years, reaching \$28,044 in 1987-88. After adjustment for inflation, teachers' salaries rose 19 percent between 1980-81 and 1987-88, recouping the losses in purchasing power suffered during the 1970s. (Table 66)
- In general, public school teachers have higher salaries than private school teachers. In 1985-86, the average salary for public school teachers was \$25,198 compared to \$14,400 for private school teachers. (Tables 52 and 66)
- Teachers have expressed more satisfaction with their jobs in recent years. About 87 percent of teachers felt satisfied with their jobs in 1988 compared to 81 percent in 1984. (Table 65)
- The number of nonteaching staff employed by public schools has grown at a faster rate than the number of pupils and teachers. In 1969-70, there were 13.5 pupils per staff member (total staff) compared to 9.3 pupils per staff member in 1987. During the same time period, the proportion of the total staff who were teachers declined from 60 percent to 53 percent. (Table 71)
- Comparisons of the number of public and private high school graduates and the 17- and 18-year-old population show that the proportion of young people graduating from high school has not increased over the past 20 years. At its highest point in 1968-69, there were 77.1 graduates for every 100 persons 17 or 18 years of age. This ratio declined during the 1970s, falling to a low point of 71.4 in 1979-80. The ratio has risen slightly since then, reaching 74.0 in 1988-89. (Table 89)
- Students at ages 9, 13, and 17 were reading better in 1984 than they were in 1971. The improvements in the achievement of minority and disadvantaged urban students between 1971 and 1984 have reduced the gap between their performance and that of other students. However, the average reading proficiency of black and Hispanic 17-year-olds is only slightly higher than that of white 13-year-olds. (Tables 95 and 97)
- Between 1977-78 and 1987-88, combined verbal and mathematics SAT scores increased by 7 points. However, there was considerable diversity among students from different racial ethnic groups. Scores for white students rose by only 4 points compared to an increase of 51 points for black students and 38 points for Mexican-American students. (Table 108 and 111)
- Eighth graders were more afraid to ask questions in their mathematics classes than in their English, social studies, or science classes. Females and members of minority groups were more reluctant to ask questions in mathematics classes than males or white students. (Table 119)
- Eighth-grade students at Catholic and other private schools were more likely to say that they "get along well with teachers" than students at public schools. Students at private schools were also more likely to feel that "rules for behavior are strict" than students at public schools. (Table 124)
- The proportion of public and private high school seniors who had ever used an illicit drug rose from 55 percent in 1975 to 66 percent in 1981. After 1981 the proportion of seniors who had ever used drugs fell, reaching 57 percent in 1987. Also, there has been a drop in the proportion of high school seniors who have used cocaine, from 17 percent in 1985 to 12 percent in 1988. (Table 129)

- States are the most important funding source for public elementary and secondary schools. In 1986-87, 50 percent of all revenues came from State sources, 44 percent came from local sources, and 6 percent came from the Federal government. (Table 138)
- The expenditure per student in public schools has risen significantly in recent years, even after allow-

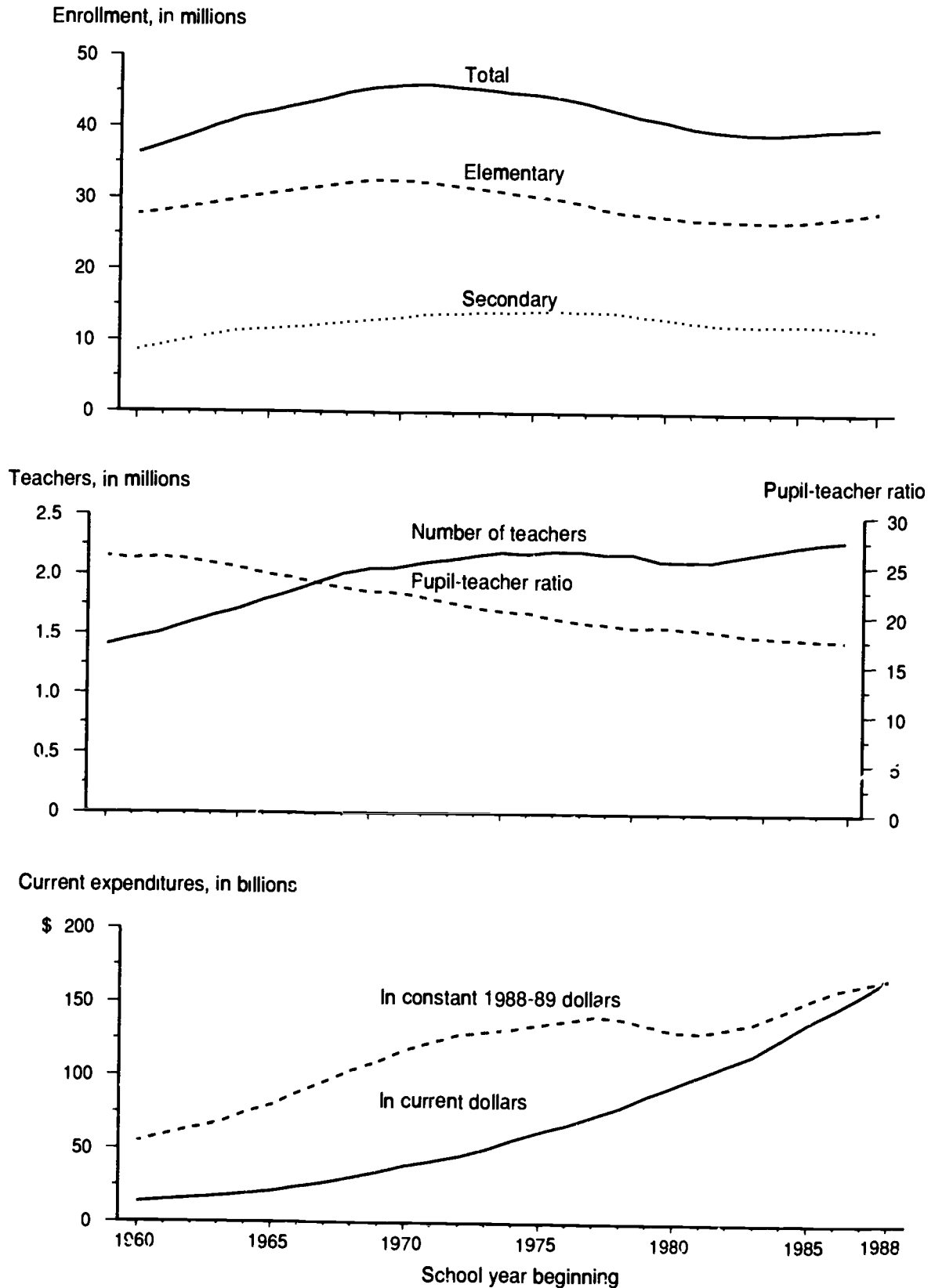
ing for inflation. In 1987-88, the average current expenditure per student in average daily attendance was \$4,227. This represents an increase of 27 percent since 1980-81, after adjustment for inflation. (Table 145)

**Figure 7.—Preprimary enrollment, by attendance status:  
October 1970 to October 1987**



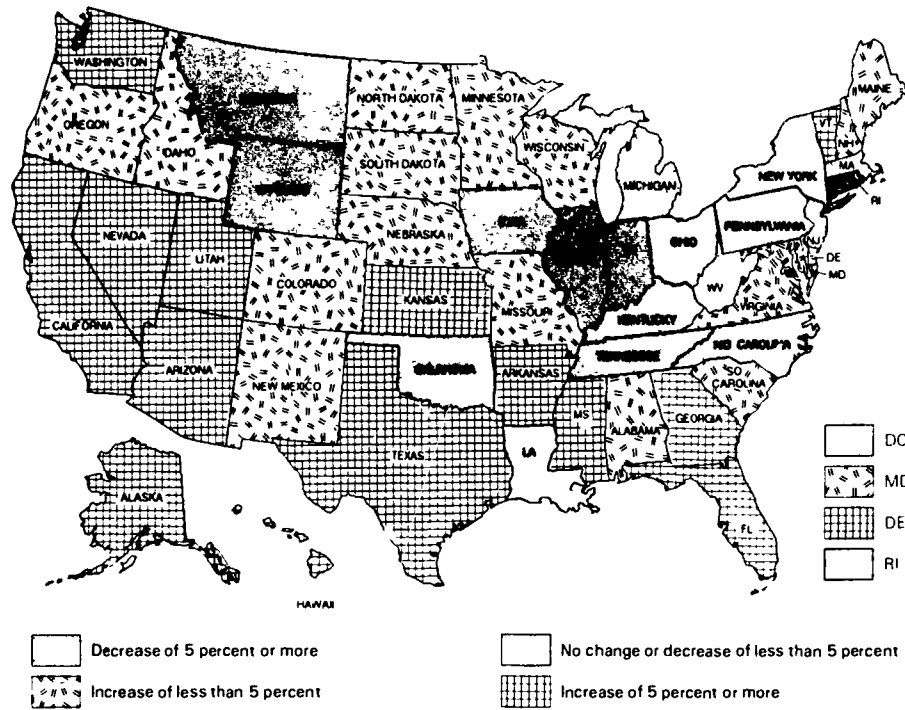
SOURCE: U.S. Department of Education, National Center for Education Statistics, *Preliminary Enrollment*, various years; and U.S. Department of Commerce, Bureau of the Census, Current Population Survey, unpublished data.

**Figure 8.—Enrollment, number of teachers, pupil-teacher ratios, and expenditures in public schools: 1960-61 to 1988-89**



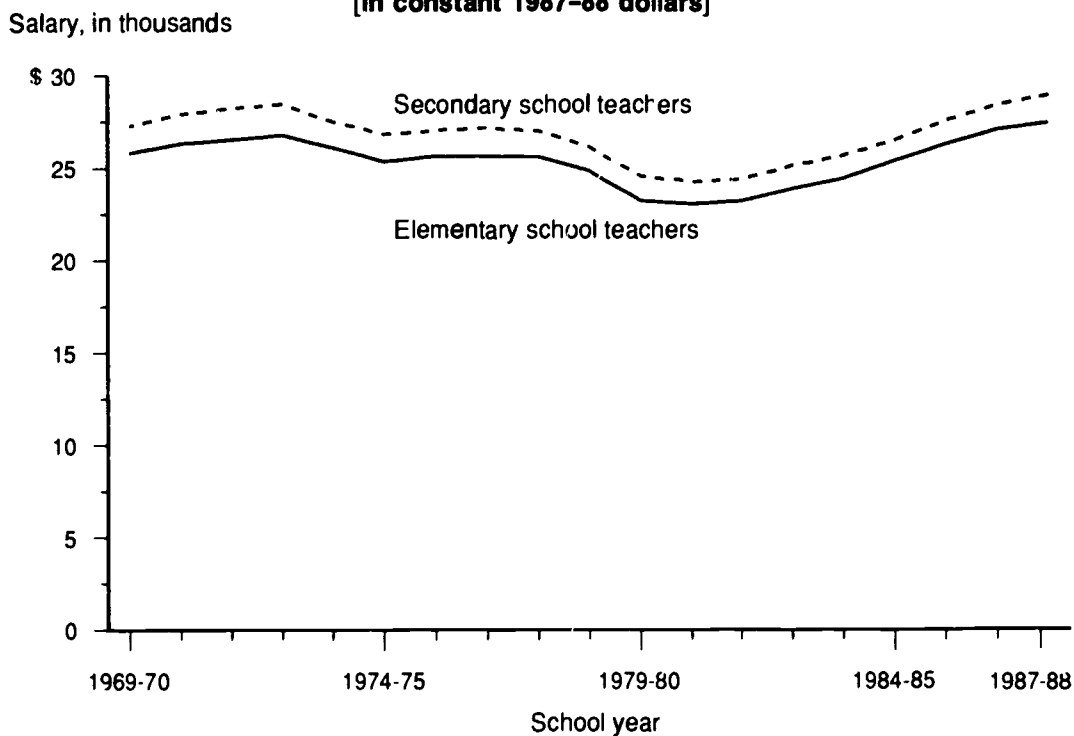
SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems; Statistics of Public Elementary and Secondary School Systems; Revenues and Expenditures for Public Elementary and Secondary Education*, and Common Core of Data surveys.

**Figure 9.—Percent change in public elementary and secondary enrollment, by State: Fall 1983 to fall 1988**



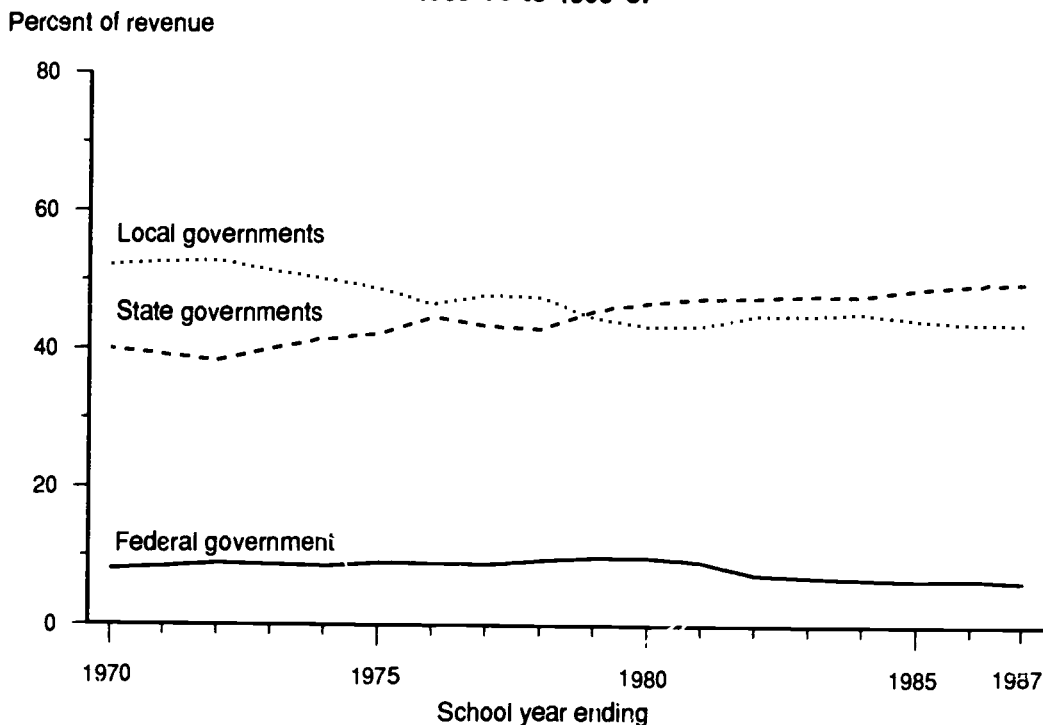
SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys.

**Figure 10.—Average annual salary for public elementary and secondary school teachers: 1969-70 to 1987-88 [In constant 1987-88 dollars]**



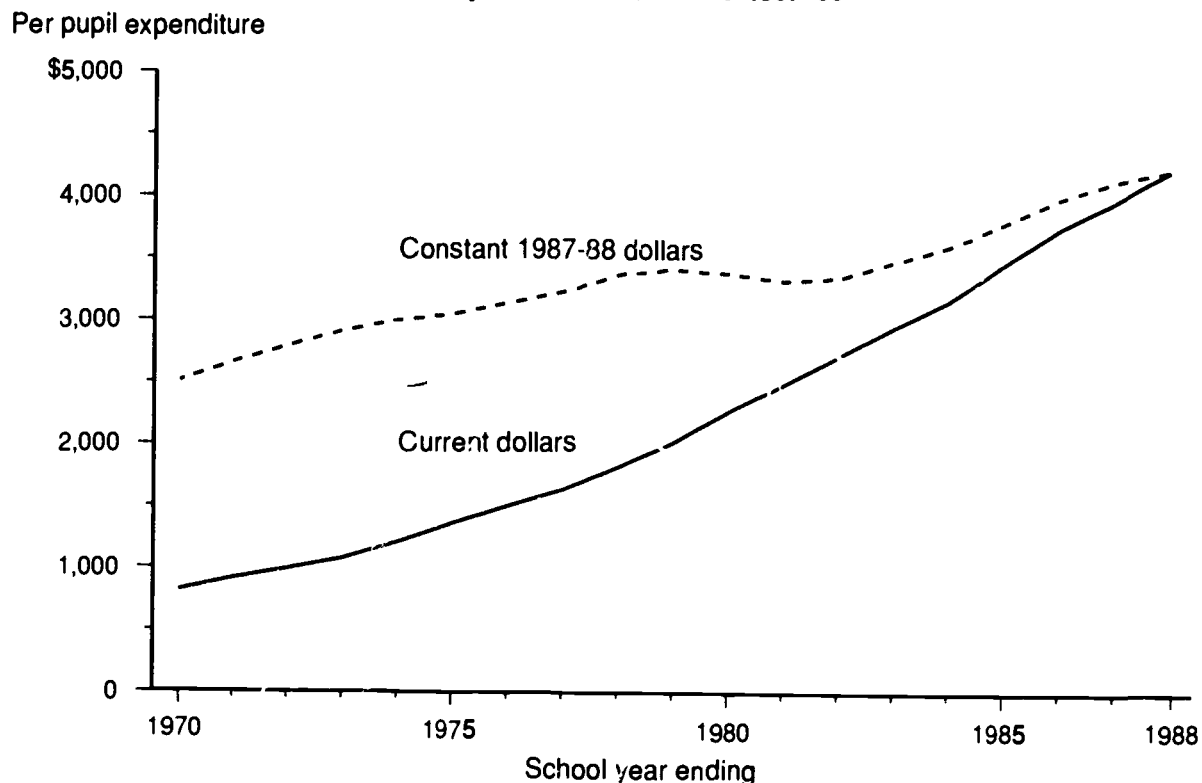
SOURCE: National Education Association, annual *Estimates of School Statistics*, (Latest edition 1987-88. Copyright © 1988 by the National Education Association. All rights reserved.)

**Figure 11.—Sources of revenue for public elementary and secondary schools: 1969-70 to 1986-87**



SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*; and Common Core of Data surveys

**Figure 12.—Current expenditure per student in average daily attendance in public elementary and secondary schools: 1969-70 to 1987-88**



SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Statistics of Public Elementary and Secondary School Systems; Revenues and Expenditures for Public Elementary and Secondary Education*; and Common Core of Data surveys.

**Table 35.—Historical summary of public elementary and secondary school statistics: 1869-70 to 1986-87**

Item	1869-70	1879-80	1889-90	1899-1900	1909-10	1919-20	1929-30	1939-40	1949-50	1959-60	1969-70	1979-80	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Population, puple, and instructional staff</b>														
Total population, <sup>1</sup> in thousands.....	39,818	50,156	62,948	75,995	90,492	104,512	121,770	130,880	148,665	179,323	201,385	224,567	238,736	241,096
Population aged 5-17 years, <sup>1</sup> in thousands.....	12,055	15,066	18,543	21,573	24,009	27,556	31,417	30,150	30,168	43,881	52,386	48,041	44,975	45,148
Percent of total population 5-17 .....	30.3	30.0	29.5	28.4	26.5	26.4	25.8	23.0	20.3	24.5	25.8	21.4	18.8	18.7
<b>Total enrollment in elementary and secondary schools, in thousands</b>														
Kindergarten and grades 1-8, in thousands.....	6,792	9,757	12,520	14,984	16,899	19,378	21,279	18,833	19,787	27,602	<sup>2</sup> 32,597	<sup>2</sup> 27,931	<sup>2</sup> 27,049	<sup>2</sup> 27,404
Grades 9-12, in thousands .....	<sup>3</sup> 80	110	203	519	915	2,200	4,399	6,601	5,725	8,485	<sup>3</sup> 13,022	<sup>2</sup> 13,714	<sup>2</sup> 12,460	<sup>2</sup> 12,434
Enrollment as a percent of total population ..	17.3	19.7	20.2	20.4	19.7	20.6	21.1	19.4	16.9	20.1	22.4	18.5	16.5	16.5
Percent of population aged 5-17 enrolled.....	57.0	65.5	68.6	71.9	74.2	78.3	81.7	84.4	83.2	82.2	86.9	86.7	87.8	88.2
Percent of total enrollment in high schools (grades 9-12 and postgraduate).....	1.2	1.1	1.6	3.3	5.1	10.2	17.1	26.0	22.7	23.5	28.5	32.9	31.5	31.2
High school graduates, in thousands .....	—	—	22	62	111	231	592	1,143	1,063	1,627	2,589	2,748	2,382	2,433
Average daily attendance, in thousands.....	4,077	6,144	8,154	10,633	12,827	16,150	21,265	22,042	22,284	32,477	41,934	38,289	36,523	36,858
Total number of days attended by pupils enrolled, in millions.....	539	801	1,098	1,535	2,011	2,615	3,673	3,858	3,964	5,782	7,501	<sup>4</sup> 6,835	—	—
Percent of enrolled pupils attending daily.....	59.3	62.3	64.1	68.6	72.1	74.8	82.8	86.7	88.7	90.0	90.4	<sup>4</sup> 90.1	—	—
Average length of school term, in days .....	132.2	130.3	134.7	144.3	157.5	161.9	172.7	175.0	177.9	178.0	178.9	<sup>4</sup> 178.5	—	—
Average number of days attended per pupil.....	78.4	81.1	86.3	99.0	113	121.2	143	151.7	157.9	160.2	161.7	<sup>4</sup> 160.8	—	—
<b>Total instructional staff, in thousands</b>														
Supervisors, in thousands .....	—	—	—	—	—	678	880	912	962	1,464	2,253	2,441	—	—
Principals, in thousands .....	—	—	—	—	—	7	7	5	9	14	32	<sup>4</sup> 35	—	—
Teachers, librarians, and other nonsupervisor instructional staff, <sup>6</sup> in thousands .....	—	—	—	—	—	14	31	32	39	64	91	106	—	—
Men, in thousands .....	201	287	364	423	523	657	843	875	914	1,387	2,131	2,300	2,321	2,361
Women, in thousands .....	78	123	126	127	110	93	140	195	195	<sup>4</sup> 402	<sup>4</sup> 691	<sup>4</sup> 782	—	—
Percent men .....	123	164	238	296	413	585	703	681	719	<sup>4</sup> 985	<sup>4</sup> 1,440	<sup>4</sup> 1,518	—	—
Percent men .....	38.7	42.8	34.5	29.9	21.1	14.1	16.6	22.2	21.3	<sup>4</sup> 29.0	<sup>4</sup> 32.4	<sup>4</sup> 34.0	—	—

Amounts in millions of current dollars

<b>Finance</b>														
Total revenue receipts from .....	—	—	\$143	\$220	\$433	\$970	\$2,089	\$2,261	\$5,437	\$14,747	\$40,267	\$96,881	\$149,128	\$158,827
Federal Government .....	—	—	—	—	—	2	7	40	156	652	3,220	9,504	9,976	10,146
State governments.....	—	—	—	—	—	160	354	684	2,166	5,768	16,063	45,349	73,620	79,023
Local sources, including intermediate.....	—	—	—	—	—	808	1,728	1,536	3,116	8,327	20,985	42,029	65,533	69,659
Percent of revenue receipts from .....	—	—	—	—	—	0.3	0.4	1.8	2.9	4.4	8.0	9.8	6.7	6.4
Federal Government.....	—	—	—	—	—	16.5	16.9	30.3	39.8	39.1	39.9	46.8	49.4	49.8
State governments.....	—	—	—	—	—	83.2	82.7	68.0	57.3	56.5	52.1	43.4	43.9	43.9
Local sources, including intermediate.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total expenditures for public schools .....	\$63	\$78	\$141	\$215	\$426	\$1,036	\$2,317	\$2,344	\$5,838	\$15,613	\$40,683	\$95,962	<sup>4</sup> \$148,600	<sup>4</sup> \$160,900
Current expenditures .....	—	—	114	180	356	861	1,844	1,942	4,387	<sup>6</sup> 12,329	<sup>6</sup> 34,218	<sup>6</sup> 86,984	<sup>6</sup> 137,165	<sup>6</sup> 146,589
Capital outlay .....	—	—	26	35	70	154	371	258	1,014	2,662	4,659	6,506	—	—
Interest on school debt.....	—	—	—	—	—	18	93	131	101	490	1,171	1,874	—	—
Other expenditures <sup>7</sup> .....	—	—	—	—	—	3	10	13	36	133	636	<sup>6</sup> 598	—	—
Percent of total expenditures devoted to .....	—	—	81.3	83.5	83.6	83.1	79.6	82.8	80.3	<sup>6</sup> 79.0	<sup>6</sup> 84.1	<sup>6</sup> 90.6	—	—
Current expenditures .....	—	—	18.7	16.5	16.4	14.8	16.0	11.0	17.4	17.0	11.5	6.8	—	—
Capital outlay .....	—	—	—	—	—	1.8	4.0	5.6	1.7	3.1	2.9	2.0	—	—
Interest on school debt .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other expenditures <sup>7</sup> .....	—	—	—	—	—	0.3	0.4	0.6	0.6	0.8	1.6	<sup>6</sup> 0.6	—	—

Table 35.—Historical summary of public elementary and secondary school statistics: 1869-70 to 1986-87—Continued

item	1869-70	1879-80	1889-90	1899-1900	1909-10	1919-20	1929-30	1939-40	1949-50	1959-60	1969-70	1979-80	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Amounts in current dollars														
Annual salary of instructional staff <sup>8</sup> .....	\$189	\$195	\$252	\$325	\$485	\$871	\$1,420	\$1,441	\$3,010	\$5,174	\$8,840	<sup>10</sup> \$16,715	<sup>10</sup> \$26,405	<sup>10</sup> \$27,746
Personal income <sup>1</sup> per member of labor force <sup>1</sup> ..	—	—	—	—	—	—	1,634	1,356	3,400	5,413	8,750	19,087	28,381	29,539
Total school expenditures per capita of total population .....	1.59	1.56	2.23	2.83	4.71	9.91	19.03	17.91	39	87	202	427	4622	4667
National income <sup>1</sup> per capita .....	—	—	—	—	—	—	667	587	1,520	2,272	3,829	9,117	13,546	14,256
Current expenditure <sup>11</sup> per pupil in A.D.A. <sup>12</sup> ..	—	—	<sup>13</sup> 13.99	<sup>13</sup> 16.67	<sup>13</sup> 27.85	53.32	86.70	88.09	209	375	816	2,272	3,756	3,977
Total expenditure <sup>14</sup> per pupil in A.D.A. ....	15.55	12.71	17.23	20.21	33.23	64.16	108.49	105.74	159	472	955	2,506	4,069	4,365
National income per pupil in A.D.A. ....	—	—	—	—	—	—	3,845	3,502	10,312	12,547	18,656	53,470	88,547	93,252
Current expenditure per day <sup>15</sup> per pupil in A.D.A. ....	—	—	<sup>13</sup> 0.10	<sup>13</sup> 0.12	<sup>13</sup> 0.18	0.33	0.50	0.50	1.17	2.11	4.56	12.73	—	—
Total expenditure per day per pupil in A.D.A. ..	0.12	0.10	0.13	0.14	0.21	0.40	0.63	0.60	1.46	2.5	5.34	13.95	—	—
Amounts in constant 1986-87 dollars														
Annual salary of instructional staff <sup>8</sup> .....	—	—	—	—	—	\$5,084	\$9,228	\$11,470	\$14,137	\$19,587	\$26,030	<sup>10</sup> \$23,949	<sup>10</sup> \$26,991	<sup>10</sup> \$27,746
Personal income <sup>1</sup> per member of labor force <sup>1</sup> ..	—	—	—	—	—	—	10,618	10,793	15,969	20,492	25,765	27,348	29,011	29,539
Total school expenditure per capita of total population .....	—	—	—	—	—	58	124	143	184	330	595	612	4636	4667
National income <sup>1</sup> per capita .....	—	—	—	—	—	—	4,334	4,672	7,139	8,601	11,275	13,062	13,847	14,256
Current expenditure <sup>11</sup> per pupil in A.D.A. <sup>12</sup> ..	—	—	—	—	—	311	563	701	981	1,420	2,403	3,255	3,839	3,977
Total expenditure <sup>14</sup> per pupil in A.D.A. ....	—	—	—	—	—	374	705	842	746	1,787	2,812	3,591	4,159	4,365
National income per pupil in A.D.A. ....	—	—	—	—	—	—	24,985	27,874	48,433	47,498	54,935	76,612	90,513	93,252
Current expenditure per day <sup>15</sup> per pupil in A.D.A. ....	—	—	—	—	—	1.93	3.25	3.98	5.50	7.99	13.43	18.24	—	—
Total expenditure per day per pupil in A.D.A. ..	—	—	—	—	—	2.33	4.09	4.78	6.86	10.03	15.72	19.99	—	—

<sup>1</sup> Data on population and labor force are from the Bureau of the Census, and data on personal income and national income are from the Bureau of Economic Analysis, U.S. Department of Commerce. Population data through 1959-60 are based on total population from the decennial census. Beginning in 1969-70, population data are resident population, excluding armed forces overseas, as of July 1.

<sup>2</sup> Fall enrollment.

<sup>3</sup> Data for 1870-71.

<sup>4</sup> Estimated by the National Center for Education Statistics.

<sup>5</sup> Prior to 1919-20, data are for the number of different persons employed rather than number of positions.

<sup>6</sup> Because of the modification of the scope of "current expenditures for elementary and secondary schools," data for 1959-60 and later years are not entirely comparable with prior years.

<sup>7</sup> Includes summer schools, community colleges, and adult education. Beginning in 1959-60, also includes community services, formerly classified with "current expenditures for elementary and secondary schools."

<sup>8</sup> Excludes community colleges and adult education.

<sup>9</sup> Average includes supervisors, principals, teachers, and other non-supervisory instructional staff.

<sup>10</sup> Estimated by the National Education Association.

<sup>11</sup> Excludes current expenditures not allocable to pupil costs.

<sup>12</sup> "A.D.A." means average daily attendance in elementary and secondary schools.

<sup>13</sup> Includes interest on school debt.

<sup>14</sup> The expenditure figure used here is the sum of current expenditures allocable to pupil costs, capital outlay, and interest on school debt.

<sup>15</sup> Per day rates derived by dividing annual rates by average length of term.

—Data not reported.

NOTE—Kindergarten enrollment includes a relatively small number of nursery school pupils. Because of rounding, details may not add to totals. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Statistics of Public Elementary and Secondary School Systems, Revenues and Expenditures for Public Elementary and Secondary Education, FY 1980*; Common Core of Data survey, and Council of Economic Advisers, *Economic Indicators* (This table was prepared January 1989).

Table 36.—Enrollment in public elementary and secondary schools, by grade—Fall 1973 to fall 1987

Grade	Fall 1973	Fall 1974	Fall 1975	Fall 1976	Fall 1977	Fall 1978	Fall 1979	Fall 1980	Fall 1981	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986	Fall 1987	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Numbers in thousands																
All grades.....	45,429	45,053	44,791	44,317	43,577	42,550	41,845	40,987	40,099	39,652	39,352	39,295	39,509	39,837	40,024	
Elementary.....	31,353	30,921	30,487	30,006	29,336	28,425	27,931	27,674	27,267	27,156	26,997	26,918	27,049	27,404	27,886	
Kindergarten <sup>1</sup> .....	2,639	2,784	2,945	2,919	2,742	2,652	2,675	2,689	2,687	2,845	2,860	3,010	3,192	3,310	3,388	
1st grade.....	3,239	3,200	3,236	<sup>2</sup> 3,330	3,295	3,062	2,938	2,894	2,951	2,937	3,080	3,113	3,239	3,358	3,407	
2nd grade.....	3,192	3,107	3,027	3,084	<sup>2</sup> 3,199	3,148	2,896	2,800	2,782	2,790	2,781	2,904	2,941	3,054	3,173	
3rd grade.....	3,338	3,171	3,038	2,986	3,060	<sup>2</sup> 3,158	3,096	2,908	2,806	2,763	2,772	2,765	2,895	2,933	3,046	
4th grade.....	3,505	3,345	3,112	3,024	2,979	3,046	<sup>2</sup> 3,130	3,115	2,918	2,798	2,758	2,772	2,771	2,896	2,938	
5th grade.....	3,538	3,510	3,281	3,115	3,019	2,980	3,055	<sup>2</sup> 3,130	3,127	2,912	2,798	2,761	2,776	2,775	2,901	
6th grade.....	3,592	3,559	3,476	3,297	3,111	3,036	2,999	3,038	<sup>2</sup> 3,180	3,142	2,928	2,823	2,789	2,806	2,811	
7th grade.....	3,741	3,711	3,619	3,576	3,384	3,228	3,128	3,087	3,183	<sup>2</sup> 3,288	3,247	3,044	2,938	2,900	2,911	
8th grade.....	3,676	3,708	3,636	3,581	3,533	3,355	3,161	3,091	3,059	3,123	<sup>2</sup> 3,222	3,186	2,982	2,870	2,839	
Elementary ungraded.....	339	307	567	534	524	760	848	921	574	558	550	541	525	502	473	
Elementary special education.....	557	519	548	561	490	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	
Secondary.....	14,077	14,132	14,304	14,310	14,240	14,125	13,714	13,313	12,833	12,496	12,355	12,377	12,460	12,434	12,138	
9th grade.....	3,801	3,832	3,879	3,823	3,779	3,726	3,516	3,380	3,286	3,248	3,330	<sup>2</sup> 3,470	3,439	3,257	3,143	
10th grade.....	3,650	3,675	3,723	3,737	3,686	3,610	3,527	3,375	3,217	3,137	3,103	3,145	<sup>2</sup> 3,230	3,215	3,020	
11th grade.....	3,322	3,301	3,354	3,373	3,388	3,312	3,241	3,195	3,039	2,916	2,861	2,819	2,866	<sup>2</sup> 2,954	2,836	
12th grade.....	2,915	2,952	2,988	3,015	3,026	3,023	2,969	2,925	2,907	2,787	2,678	2,599	2,550	2,601	<sup>2</sup> 2,681	
Postgraduate.....	7	14	23	23	13	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
Secondary ungraded.....	73	63	63	84	145	454	462	498	383	407	383	374	375	407	359	
Secondary special education.....	309	296	276	254	203	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
Percent																
All grades.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Elementary.....	69.0	68.6	68.1	67.7	67.3	66.8	67.1	67.5	68.0	68.5	68.6	68.5	68.5	68.8	69.7	
Kindergarten <sup>1</sup> .....	5.8	6.2	6.6	6.6	6.3	6.2	6.4	6.6	6.7	7.2	7.3	7.7	8.1	8.3	8.5	
1st grade.....	7.1	7.1	7.2	7.5	7.6	7.2	7.1	7.1	7.4	7.4	7.8	7.9	8.2	8.4	8.5	
2nd grade.....	7.0	6.9	6.8	7.0	7.3	7.4	7.0	6.8	6.9	7.0	7.1	7.4	7.4	7.7	7.9	
3rd grade.....	7.3	7.0	6.8	6.7	7.0	7.4	7.4	7.1	7.0	7.0	7.0	7.0	7.3	7.4	7.6	
4th grade.....	7.7	7.4	6.9	6.8	6.8	7.2	7.5	7.6	7.3	7.1	7.0	7.1	7.0	7.3	7.3	
5th grade.....	7.8	7.8	7.3	7.0	6.9	7.0	7.3	7.5	7.8	7.3	7.1	7.0	7.0	7.0	7.2	
6th grade.....	7.9	7.9	7.8	7.4	7.1	7.1	7.2	7.4	7.8	7.9	7.4	7.2	7.1	7.0	7.0	
7th grade.....	8.2	8.2	8.1	8.1	7.8	7.6	7.5	7.5	7.9	8.3	8.3	7.7	7.4	7.3	7.3	
8th grade.....	8.1	8.2	8.1	8.1	8.1	7.9	7.6	7.5	7.6	7.9	8.2	8.1	7.5	7.2	7.1	
Elementary ungraded.....	0.7	0.7	1.3	1.2	1.2	1.8	2.0	2.2	1.4	1.4	1.4	1.4	1.3	1.3	1.2	
Elementary special education.....	1.2	1.2	1.2	1.3	1.1	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	
Secondary.....	31.0	31.3	31.9	32.3	32.6	33.2	32.9	32.5	32.0	31.5	31.4	31.5	31.5	31.2	30.3	
9th grade.....	8.4	8.5	8.7	8.6	8.7	8.8	8.4	8.2	8.2	8.2	8.5	8.8	8.7	8.2	7.9	
10th grade.....	8.0	8.2	8.3	8.4	8.5	8.5	8.5	8.2	8.0	7.9	7.9	8.0	8.2	8.1	7.5	
11th grade.....	7.3	7.3	7.5	7.6	7.8	7.8	7.8	7.8	7.6	7.4	7.3	7.2	7.3	7.4	7.3	
12th grade.....	6.4	6.6	6.7	6.8	6.9	7.1	7.1	7.1	7.2	7.0	6.8	6.6	6.5	6.5	6.7	
Postgraduate.....	( <sup>6</sup> )	( <sup>6</sup> )	0.1	0.1	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	
Secondary ungraded.....	0.2	0.1	0.1	0.2	0.3	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	1.0	0.9	
Secondary special education.....	0.7	0.7	0.6	0.6	0.5	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	

<sup>1</sup> Includes a relatively small number of prekindergarten pupils

<sup>5</sup> Less than 0.05 percent

<sup>2</sup> Figures are shown in normal progression and indicate enrollment in successive grades of the pupils who entered the first grade in fall 1976, including retained and accelerated pupils. Because some pupils spend more than 1 year in the first grade, and because of transfers between public and private schools, school retention rates should not be calculated directly from first-grade enrollment

NOTE—Because of rounding, details may not add to totals

<sup>3</sup> Included in "elementary ungraded"

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public Elementary and Secondary School Systems*, and Common Core of Data survey (This table was prepared December 1988)

<sup>4</sup> Included in "secondary ungraded"



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Table 37.—Enrollment in public elementary and secondary schools, by level and State: Fall 1981 to fall 1988

State or other area	Fall 1981	Fall 1982		Fall 1983			Fall 1984			
	Total	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12
1	2	3	4	5	6	7	8	9	10	11
<b>United States</b>	<b>40,089,498</b>	<b>39,651,837</b>	<b>27,155,903</b>	<b>12,495,934</b>	<b>39,351,994</b>	<b>26,997,330</b>	<b>12,354,664</b>	<b>39,295,210</b>	<b>26,917,755</b>	<b>12,377,455</b>
Alabama	743,448	724,037	509,952	214,085	721,901	510,814	211,087	712,586	514,355	198,231
Alaska <sup>1</sup>	90,858	89,413	83,211	26,202	98,206	70,284	27,922	104,599	75,206	29,393
Arizona	507,199	510,296	359,229	151,067	508,682	354,415	152,267	530,062	373,235	156,827
Arkansas	437,121	432,565	304,443	126,122	432,120	304,975	127,145	432,868	304,518	128,150
California	4,046,156	4,065,486	2,801,818	1,263,668	4,089,017	2,813,524	1,275,493	4,151,110	2,845,962	1,305,148
Colorado	544,174	545,209	379,599	165,610	542,196	376,775	165,421	545,427	376,216	169,211
Connecticut <sup>1</sup>	505,366	486,470	375,997	150,473	477,585	328,574	149,011	468,145	323,391	144,754
Delaware	95,072	92,848	81,367	31,279	91,406	61,181	30,225	91,767	61,961	29,806
District of Columbia	94,975	91,105	84,696	26,409	86,843	63,297	25,546	87,397	62,808	24,589
Florida	1,487,721	1,484,734	1,038,998	445,736	1,495,543	1,044,107	451,436	1,524,107	1,061,736	482,371
Georgia	1,056,117	1,053,689	739,178	314,511	1,050,859	738,258	312,601	1,062,315	745,637	316,478
Hawaii	182,805	182,024	110,232	51,822	182,241	110,419	51,822	183,860	111,650	52,210
Idaho	204,524	202,973	145,716	57,557	206,352	148,363	57,969	208,060	148,937	59,143
Illinois	1,924,084	1,880,289	1,286,658	593,431	1,853,318	1,271,525	581,791	1,834,355	1,254,477	579,876
Indiana	1,025,172	999,542	663,547	335,995	984,384	670,440	313,944	972,659	661,779	310,880
Iowa	516,216	504,963	377,728	167,255	497,267	333,198	164,069	491,011	328,635	162,178
Kansas	409,909	407,074	282,979	124,195	405,222	282,389	122,833	405,347	282,182	123,165
Kentucky	658,350	651,084	457,505	193,579	647,414	454,831	192,483	644,421	451,111	193,310
Louisiana	782,053	784,027	561,411	222,616	800,193	577,234	222,959	800,941	578,911	221,030
Maine	216,293	211,986	148,648	65,138	209,753	145,814	63,939	207,537	142,176	65,361
Maryland	721,841	699,201	491,794	237,407	683,481	451,716	231,775	673,840	446,244	227,596
Massachusetts	947,037	908,964	596,990	311,994	878,644	578,308	300,538	859,391	566,028	293,363
Michigan	1,603,034	1,761,521	1,156,511	604,924	1,735,881	1,132,701	603,180	1,896,982	1,107,814	589,166
Minnesota	733,741	715,190	471,677	243,520	705,230	466,578	238,658	701,697	464,107	237,590
Mississippi	471,815	468,294	326,996	141,296	467,744	327,509	140,235	466,058	325,154	140,904
Missouri	818,705	802,535	548,751	255,784	795,453	546,155	249,298	793,793	545,062	248,731
Montana	153,435	152,335	106,869	45,466	153,646	106,268	45,378	154,412	106,796	45,616
Nebraska	273,340	269,009	186,261	82,744	266,998	185,941	81,057	255,599	184,818	80,981
Nevada	151,339	151,104	102,639	48,465	150,442	102,358	48,084	151,633	104,963	48,670
New Hampshire	163,827	160,197	107,349	52,848	159,030	106,303	52,727	156,614	105,525	53,089
New Jersey	1,199,643	1,172,520	778,606	395,912	1,147,841	781,464	386,377	1,129,223	747,182	382,041
New Mexico	268,091	255,632	189,968	78,964	269,711	191,824	77,887	272,478	194,928	77,550
New York	2,760,774	2,718,678	1,781,336	957,342	2,874,818	1,735,517	939,301	2,645,511	1,712,219	933,592
North Carolina	1,108,980	1,096,815	788,723	328,080	1,089,606	781,053	328,553	1,088,724	755,313	333,411
North Dakota	117,708	117,078	81,171	35,907	117,213	82,321	34,892	118,711	83,635	35,076
Ohio	1,896,501	1,860,245	1,258,642	601,603	1,827,300	1,240,344	586,956	1,805,440	1,220,019	565,421
Oklahoma	582,572	583,825	423,140	170,685	591,389	420,913	170,476	589,690	416,664	173,026
Oregon	457,165	448,184	308,984	131,720	447,109	307,121	139,988	446,884	305,626	141,258
Pennsylvania	1,839,015	1,763,969	1,157,356	626,613	1,737,652	1,130,767	607,185	1,701,880	1,102,776	599,104
Rhode Island	142,815	139,362	89,487	49,895	138,180	90,342	45,838	134,034	89,372	44,662
South Carolina	609,156	606,516	424,362	184,158	604,553	423,016	181,537	602,718	422,417	180,301
South Dakota	125,657	123,897	85,960	37,907	123,060	86,324	36,736	123,314	86,724	36,590
Tennessee	838,297	828,264	590,839	237,425	822,057	587,014	235,043	817,212	581,452	235,760
Texas	2,935,547	2,965,659	2,149,813	635,846	2,969,796	2,155,012	634,784	3,040,305	2,181,511	651,794
Utah	355,554	370,163	275,145	95,038	376,208	280,792	97,416	390,141	283,340	100,801
Vermont	93,163	91,454	64,181	27,273	90,416	63,452	26,964	90,089	62,738	27,351
Virginia	989,546	975,727	682,630	293,097	966,110	674,016	292,094	965,222	667,215	298,007
Washington	750,188	739,215	507,515	231,700	736,239	503,551	232,688	741,177	502,392	238,785
West Virginia	377,772	375,115	266,950	108,165	371,251	263,254	107,997	362,941	255,112	107,829
Wisconsin	804,262	784,830	503,871	280,959	774,646	500,778	273,868	767,542	497,175	270,367
Wyoming	99,541	101,665	74,396	27,269	99,254	72,103	27,151	101,261	73,049	26,212
<b>Outlying areas</b>										
American Samoa	9,896	—	—	—	10,124	7,535	2,589	—	—	—
Guam	25,084	25,678	19,166	6,508	26,249	19,331	6,918	—	—	—
Northern Marianas	5,300	—	—	—	4,499	3,215	—	—	—	—
Puerto Rico	721,419	706,794	522,366	186,428	701,925	519,143	182,782	692,923	512,735	180,718
Trust Territory of the Pacific	—	—	—	—	39,623	34,105	5,518	—	—	—
Virgin Islands	25,525	25,699	19,294	6,405	26,126	19,298	6,828	26,122	19,131	6,991



Table 37.—Enrollment in public elementary and secondary schools, by level and State: Fall 1981 to fall 1988—Continued

State or other area	Fall 1985			Fall 1986			Fall 1987			Estimated Fall 1988 <sup>1</sup>
	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12	Total	Kindergarten through grade 8 <sup>2</sup>	Grades 9 to 12	Total
1	12	13	14	15	16	17	18	19	20	21
<b>United States</b>	<b>39,508,825</b>	<b>27,048,856</b>	<b>12,458,969</b>	<b>39,837,459</b>	<b>27,403,707</b>	<b>12,433,752</b>	<b>40,021,244</b>	<b>27,885,878</b>	<b>12,338,366</b>	<b>34,019,263</b>
Alabama	730,460	517,361	213,089	733,735	518,982	214,753	729,234	521,004	208,230	473,032
Alaska <sup>3</sup>	107,345	77,211	30,134	107,973	77,996	29,977	105,678	76,694	28,984	410,477
Arizona	548,252	386,057	162,195	534,538	371,419	163,119	572,421	412,501	159,920	577,463
Arkansas	433,410	303,526	129,874	437,438	306,851	130,587	437,036	307,248	129,788	455,694
California	4,255,554	2,926,705	1,328,849	4,377,989	3,045,684	1,332,305	4,489,322	3,172,094	1,317,228	4,610,978
Colorado	550,642	378,735	171,907	558,415	386,304	172,111	560,236	391,966	168,250	456,062
Connecticut <sup>4</sup>	482,026	321,203	140,823	488,847	321,823	147,024	465,465	326,350	139,215	463,000
Delaware	92,901	63,082	29,819	94,410	64,807	29,603	95,659	68,714	28,945	496,878
District of Columbia	87,092	62,494	24,598	85,612	62,458	23,156	86,435	62,857	23,578	85,511
Florida	1,562,283	1,086,250	478,033	1,607,320	1,120,938	486,382	1,664,774	1,171,809	492,965	1,728,815
Georgia	1,079,584	756,752	322,842	1,096,425	777,991	318,434	1,110,947	795,032	315,915	4,111,365
Hawaii	164,169	111,564	52,605	164,640	113,256	51,384	168,160	115,854	50,306	4167,227
Idaho	108,662	149,380	59,289	208,391	149,813	58,778	212,444	153,358	59,086	214,600
Illinois	1,826,478	1,248,496	579,982	1,825,185	1,249,340	575,845	1,811,446	1,251,790	559,656	4,787,888
Indiana	966,106	654,061	312,045	966,780	653,613	313,167	964,129	656,856	305,473	963,653
Iowa	485,332	324,332	161,000	481,286	323,536	157,750	480,826	326,436	152,390	477,393
Kansas	410,229	285,671	124,558	416,091	291,564	124,527	421,112	296,516	122,596	428,376
Kentucky	643,833	448,768	195,065	642,778	446,901	195,877	642,696	449,033	193,683	4638,073
Louisiana	788,349	573,068	215,281	795,188	580,771	214,417	793,093	582,742	210,351	4791,009
Maine	206,101	140,413	65,688	211,752	143,671	68,081	211,817	145,499	66,318	4211,474
Maryland	671,560	448,321	225,239	675,747	456,043	219,702	683,797	473,220	210,577	4689,327
Massachusetts	644,330	559,057	285,273	833,918	559,418	274,500	825,320	565,042	280,276	(7)
Michigan	1,689,828	1,103,989	585,859	1,681,880	1,108,798	573,082	1,606,344	1,086,325	520,019	1,590,000
Minnesota	705,140	487,957	237,183	711,134	479,130	232,004	721,481	496,553	224,928	4724,059
Mississippi	471,195	329,981	141,214	496,639	356,052	142,587	505,550	364,129	141,421	4503,326
Missouri	795,107	544,197	250,910	800,806	549,348	251,256	802,060	557,073	244,967	4806,639
Montana	153,869	107,918	45,951	153,327	107,572	45,755	152,207	108,017	44,190	4151,944
Nebraska	265,819	184,296	81,523	267,139	185,282	81,857	268,100	188,168	79,934	269,407
Nevada	154,848	107,070	47,878	161,239	112,164	49,075	168,353	119,077	49,276	4178,494
New Hampshire	160,974	106,912	54,062	163,717	109,948	53,769	168,045	113,965	52,080	4165,879
New Jersey	1,116,184	740,497	375,697	1,107,487	742,324	365,143	1,092,982	747,402	345,580	41,080,868
New Mexico	277,551	187,479	90,072	281,943	191,037	90,536	287,229	195,413	91,816	4280,662
New York	2,821,378	1,703,430	817,948	2,807,719	1,713,465	894,254	2,594,070	1,735,527	858,543	2,580,000
North Carolina	1,086,165	749,451	336,714	1,085,248	748,451	336,797	1,085,976	753,595	332,381	41,081,138
North Dakota	118,570	83,702	34,868	118,703	83,930	34,773	119,004	84,379	34,625	4118,176
Ohio	1,793,965	1,206,174	567,791	1,793,508	1,208,110	585,398	1,793,411	1,219,967	573,444	1,782,473
Oklahoma	592,327	414,279	178,048	593,183	417,287	175,896	584,212	410,995	173,217	585,000
Oregon	447,527	305,418	142,109	449,307	308,527	140,780	455,895	317,920	137,975	4481,751
Pennsylvania	1,683,221	1,092,558	590,663	1,674,161	1,064,581	609,600	1,668,542	1,077,812	590,730	1,654,580
Rhode Island	133,442	89,958	43,484	134,126	91,407	42,719	134,061	93,094	40,967	4133,585
South Carolina	606,643	424,125	182,518	611,629	427,751	183,878	614,921	431,585	183,336	4615,773
South Dakota	124,291	87,644	36,647	125,458	89,373	36,085	126,817	91,362	35,455	4128,534
Tennessee	813,753	574,517	239,236	818,073	577,045	241,028	823,783	582,432	241,351	4820,300
Texas	3,131,705	2,260,679	871,028	3,209,515	2,317,454	892,061	3,236,787	2,350,856	885,931	43,264,605
Utah	403,395	298,760	104,635	415,994	308,389	107,605	423,388	313,953	109,433	425,690
Vermont	90,157	62,703	27,454	92,112	63,392	28,720	92,751	65,012	27,743	95,744
Virginia	968,104	665,151	302,953	975,135	673,237	301,898	979,417	685,172	294,245	968,024
Washington	749,706	506,890	242,816	761,428	521,333	240,095	775,755	540,938	234,619	4790,459
West Virginia	357,923	249,034	106,689	351,837	243,538	108,299	344,236	236,926	107,310	4335,812
Wisconsin	788,234	501,402	266,832	767,819	509,584	258,235	772,363	521,533	250,830	775,000
Wyoming	102,779	73,988	28,791	100,955	72,239	28,716	98,455	70,369	26,086	497,793
<b>Outlying areas</b>										
American Samoa	—	—	—	11,055	6,133	2,922	11,248	6,313	2,935	—
Guam	26,043	19,266	6,777	25,676	18,522	7,154	25,936	18,713	7,223	—
Northern Marianas	—	—	—	—	—	—	5,819	4,371	1,448	—
Puerto Rico	686,914	507,973	178,941	679,489	503,012	176,477	672,837	498,853	173,984	—
Trust Territory of the Pacific	—	—	—	—	—	—	—	—	—	—
Virgin Islands	25,448	18,690	6,758	24,435	17,778	6,657	24,020	17,131	6,886	—

<sup>1</sup> Data estimated by State education agencies  
<sup>2</sup> Includes a relatively small number of prekindergarten students  
<sup>3</sup> Includes imputation for nonreporting State  
<sup>4</sup> Actual data.  
<sup>5</sup> Beginning in 1983, data include students enrolled in public schools on Federal bases and other special arrangements  
<sup>6</sup> Beginning in 1986, data include State vocational/technical schools

<sup>7</sup> Data not reported  
 —Data not available  
 NOTE—Some data have been revised from previously published figures

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared January 1989)



Table 38.—Enrollment in public elementary and secondary schools, by grade and State: Fall 1987

State or other area	Total, all levels	Prekindergarten through grade 8 and elementary unclassified							
		Total	Prekindergarten <sup>1</sup>	Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>40,024,244</b>	<b>27,885,878</b>	<b>192,051</b>	<b>3,195,553</b>	<b>3,407,090</b>	<b>3,172,850</b>	<b>3,046,401</b>	<b>2,937,695</b>	<b>2,900,642</b>
Alabama	729,234	521,004	—	54,454	62,293	59,613	60,235	56,671	56,996
Alaska	105,678	76,694	—	9,759	10,567	9,186	8,645	8,273	7,995
Arizona	572,421	412,501	(?)	49,182	53,285	48,711	45,990	44,032	43,353
Arkansas	437,036	307,248	—	33,695	37,225	35,263	33,683	32,468	32,686
California	4,489,322	3,172,094	—	392,112	393,533	366,613	347,207	335,078	330,395
Colorado	560,236	391,886	2,333	47,065	49,274	46,132	43,793	41,406	40,805
Connecticut	465,465	326,250	3,830	38,426	39,627	35,361	33,953	32,489	31,986
Delaware	95,659	66,714	281	7,772	9,103	7,941	7,455	7,027	6,786
District of Columbia	86,435	62,857	3,436	6,579	7,587	7,033	6,448	6,055	5,803
Florida	1,664,774	1,171,809	5,939	145,384	143,854	130,833	127,904	121,543	120,423
Georgia	1,110,947	795,032	—	92,592	97,353	92,812	89,630	83,226	82,210
Hawaii	166,160	115,854	250	13,888	13,975	13,562	12,875	12,162	12,057
Idaho	212,444	153,356	—	17,354	18,287	17,947	17,563	16,968	16,633
Illinois	1,811,446	1,251,790	24,541	131,000	142,619	142,121	135,186	128,340	127,887
Indiana	964,129	658,656	801	71,405	80,991	74,714	71,854	70,400	69,421
Iowa	480,826	328,436	1,068	39,608	38,817	37,512	35,536	34,301	33,828
Kansas	421,112	298,516	641	36,335	37,130	34,366	32,290	31,108	30,824
Kentucky	642,696	449,033	—	49,206	54,536	51,388	49,491	48,446	48,325
Louisiana	793,093	582,742	1,305	70,222	71,582	66,241	64,517	62,411	61,005
Maine	211,817	145,499	1,620	16,988	18,227	15,792	15,466	15,165	14,812
Maryland	683,797	473,220	10,032	53,146	58,466	54,096	51,826	49,555	48,477
Massachusetts	825,320	565,042	4,783	67,138	69,099	62,640	59,939	58,163	57,445
Michigan	1,606,344	1,086,325	4,510	139,645	126,380	118,615	114,751	110,315	107,760
Minnesota	721,481	496,553	5,693	62,391	61,291	57,906	55,082	52,761	51,167
Mississippi	505,550	364,129	154	37,766	46,425	42,079	39,859	39,223	38,598
Missouri	802,080	557,073	—	62,141	65,757	64,455	62,849	61,263	60,078
Montana	152,207	108,017	96	12,720	13,272	12,637	11,801	11,734	11,507
Nebraska	268,100	188,166	1,478	23,255	23,188	22,052	20,714	20,057	19,544
Nevada	168,353	119,077	—	13,859	15,550	14,246	13,303	12,771	12,583
New Hampshire	166,045	113,965	(?)	5,991	18,085	13,457	12,626	12,215	11,946
New Jersey	1,092,982	747,402	—	73,991	85,932	80,647	78,772	76,156	75,882
New Mexico	267,229	195,413	(?)	23,411	25,364	23,560	21,726	21,293	20,548
New York	2,594,070	1,735,527	20,821	183,910	207,689	192,401	183,326	181,309	174,289
North Carolina	1,085,976	753,595	833	84,705	85,622	82,843	81,002	79,536	80,154
North Dakota	119,004	84,379	530	10,193	10,581	9,801	9,366	9,189	9,023
Ohio	1,793,411	1,219,967	—	141,046	151,200	141,457	136,023	130,372	129,788
Oklahoma	584,212	410,895	2,382	48,529	54,941	46,889	44,181	43,254	42,910
Oregon	455,895	317,920	1,514	30,699	38,222	35,881	36,629	35,330	35,419
Pennsylvania	1,668,542	1,077,812	—	124,471	136,411	123,262	118,902	114,588	112,801
Rhode Island	134,061	93,094	303	10,003	12,439	10,440	9,815	9,449	9,417
South Carolina	614,921	431,585	—	41,725	55,812	50,052	48,256	47,256	47,544
South Dakota	128,817	91,362	367	11,165	11,312	10,853	10,251	9,702	9,524
Tennessee	823,783	582,432	—	62,046	71,358	63,160	62,962	61,272	61,386
Texas	3,236,787	2,350,856	70,739	258,953	291,838	267,937	255,260	247,433	242,202
Utah	423,386	313,853	—	37,235	37,239	37,933	36,575	33,159	34,640
Vermont	92,755	65,012	—	7,867	8,380	7,560	7,211	6,989	6,846
Virginia	879,417	685,172	1,798	78,274	79,758	75,983	73,733	70,88	69,674
Washington	775,755	540,936	2,071	64,898	68,313	63,718	61,217	58,113	58,016
West Virginia	344,236	236,826	508	24,629	26,420	25,487	24,154	25,515	25,707
Wisconsin	772,583	521,533	11,074	62,509	62,247	59,138	56,381	53,928	53,006
Wyoming	98,455	70,368	—	8,516	8,811	8,424	8,168	7,538	7,521
<b>Outlying areas</b>									
American Samoa	11,248	8,313	1,123	757	825	850	804	788	826
Guam	25,938	18,713	379	2,204	2,255	2,089	2,091	2,019	2,038
Northern Marianas	5,819	4,371	—	457	506	525	486	439	456
Puerto Rico	672,837	498,853	—	31,244	61,602	57,865	57,538	58,984	58,432
Virgin Islands	24,020	17,131	—	1,805	1,892	1,850	1,804	1,817	1,810

Table 38.—Enrollment in public elementary and secondary schools, by grade and State: Fall 1987—Continued

State or other area	Prekindergarten through grade 8 and elementary unclassified				Grade 9 through 12 and secondary unclassified					
	Grade 6	Grade 7	Grade 8	Elementary unclassified	Total	Grade 9	Grade 10	Grade 11	Grade 12	Secondary unclassified
1	11	12	13	14	15	16	17	18	19	20
<b>United States .....</b>	<b>2,811,089</b>	<b>2,910,511</b>	<b>2,838,671</b>	<b>473,325</b>	<b>12,138,366</b>	<b>3,143,219</b>	<b>3,019,961</b>	<b>2,935,615</b>	<b>2,680,843</b>	<b>358,728</b>
Alabama.....	55,025	59,245	58,472	—	208,230	59,480	53,174	49,834	45,742	—
Alaska.....	7,580	7,411	7,278	—	28,984	7,549	7,181	7,094	7,180	—
Arizona.....	41,104	41,305	40,269	5,270	159,920	43,183	40,840	38,951	36,513	433
Arkansas.....	32,110	33,743	33,810	2,555	129,788	33,489	33,337	32,346	29,499	1,117
California.....	319,686	321,898	311,579	53,993	1,317,228	345,645	345,144	332,960	266,028	27,422
Colorado.....	39,316	39,752	38,541	3,589	168,250	42,018	41,889	42,006	39,231	5,106
Connecticut.....	30,877	31,984	31,729	15,988	139,215	34,707	34,202	35,480	34,805	21
Delaware.....	6,570	7,068	6,711	—	28,945	7,684	7,576	6,816	6,867	—
District of Columbia.....	5,303	5,987	5,710	2,916	23,578	5,665	5,650	5,391	4,806	2,066
Florida.....	119,972	127,935	128,022	—	492,965	142,768	135,151	117,937	97,109	—
Georgia.....	80,579	83,067	80,797	12,766	315,915	93,881	75,196	73,504	65,703	7,231
Hawaii.....	11,526	10,707	10,865	3,987	50,306	11,791	11,454	11,621	10,476	4,964
Idaho.....	15,948	15,806	15,503	1,347	53,088	15,000	14,772	14,647	13,885	783
Illinois.....	122,444	124,138	121,278	52,236	558,658	133,306	135,447	131,210	123,049	36,644
Indiana.....	68,011	72,199	70,202	8,658	305,473	77,715	75,196	74,403	68,331	8,327
Iowa.....	32,340	33,383	31,815	10,228	152,390	33,296	35,296	36,907	36,965	9,926
Kansas.....	29,580	29,932	29,038	7,272	122,596	30,098	30,499	30,448	28,792	2,769
Kentucky.....	46,636	47,250	44,641	9,114	193,663	51,188	49,805	47,244	41,586	4,040
Louisiana.....	58,676	60,828	54,841	10,914	210,351	61,716	55,124	46,555	42,745	4,111
Maine.....	14,596	15,330	15,204	2,269	66,318	16,651	16,647	16,541	15,587	912
Maryland.....	46,532	48,134	46,717	6,239	210,577	53,370	51,237	50,524	48,642	6,644
Massachusetts.....	58,480	58,673	59,272	11,410	260,278	65,364	65,339	65,354	64,221	—
Michigan.....	105,723	110,865	111,021	36,740	520,019	126,510	119,837	118,324	111,287	44,061
Minnesota.....	49,044	51,353	49,865	—	224,928	51,900	54,804	58,659	59,585	—
Mississippi.....	36,424	38,710	35,503	8,388	141,421	38,370	35,224	31,841	30,281	5,705
Missouri.....	57,612	60,007	58,423	4,488	244,987	64,700	62,280	61,232	54,936	1,839
Montana.....	11,060	10,930	10,588	1,672	44,190	10,620	10,773	11,295	10,906	596
Nebraska.....	18,879	19,861	19,138	—	79,934	19,123	20,374	20,690	19,747	—
Nevada.....	11,929	11,988	11,906	942	49,275	12,112	12,508	13,020	11,604	32
New Hampshire.....	11,540	12,169	12,584	3,352	52,090	13,206	13,120	12,955	12,226	573
New Jersey.....	73,335	75,801	74,848	40,715	345,580	81,639	80,894	83,009	82,653	17,415
New Mexico.....	19,626	20,290	19,595	—	91,816	21,878	20,052	18,435	16,946	14,585
New York.....	172,021	190,217	171,808	37,138	658,543	207,361	203,499	201,482	172,904	73,297
North Carolina.....	77,844	83,391	83,024	14,531	332,381	81,845	87,173	81,024	72,339	—
North Dakota.....	8,542	8,684	8,470	—	34,625	8,735	8,559	8,627	8,704	—
Ohio.....	126,542	133,475	130,061	—	573,444	148,582	142,339	145,416	137,127	—
Oklahoma.....	41,240	39,999	41,652	5,013	172,217	43,738	43,659	43,056	40,552	2,212
Oregon.....	34,120	34,310	33,180	2,616	157,975	34,359	34,569	34,530	33,495	1,043
Pennsylvania.....	110,510	118,333	118,544	—	590,730	133,426	133,449	131,877	130,830	61,140
Rhode Island.....	9,022	9,633	9,543	2,930	40,967	10,524	10,097	9,817	9,397	1,132
South Carolina.....	45,984	47,749	47,407	—	183,338	54,007	47,599	43,138	38,596	—
South Dakota.....	9,262	9,249	8,573	1,104	35,435	8,461	8,769	8,987	8,829	389
Tennessee.....	58,730	62,973	61,192	17,353	241,351	56,160	62,961	59,311	53,219	—
Texas.....	237,889	244,307	234,498	—	885,931	264,329	228,118	210,751	182,734	—
Utah.....	32,667	30,331	29,148	4,726	109,433	28,117	26,792	26,684	25,076	2,764
Vermont.....	6,692	6,781	6,686	—	27,743	6,439	6,314	6,473	6,380	2,137
Virginia.....	67,629	70,161	71,870	25,304	294,245	79,449	73,855	71,400	69,422	119
Washington.....	54,536	55,396	54,358	—	234,819	55,149	58,120	60,073	58,477	—
West Virginia.....	24,767	26,998	26,164	6,577	107,310	27,171	26,230	25,193	23,296	5,420
Wisconsin.....	49,624	52,862	51,784	9,000	250,830	59,832	60,960	63,059	63,351	3,623
Wyoming.....	7,115	7,312	6,964	—	28,088	7,009	7,057	7,162	6,741	117
<b>Outlying areas</b>										
American Samoa.....	832	787	721	—	2,935	715	756	736	647	81
Guam.....	1,905	1,817	1,916	—	7,223	2,587	1,797	1,607	1,107	145
Northern Marianas.....	497	404	441	180	1,448	377	373	323	322	53
Puerto Rico.....	55,899	58,726	51,246	9,517	173,984	45,838	46,887	42,185	35,105	3,969
Virgin Islands.....	1,852	2,213	1,626	862	6,889	1,975	1,729	1,364	1,305	516

<sup>1</sup> The U.S. total represents an under count because prekindergarten enrollment data are not reported by many States.  
<sup>2</sup> Prekindergarten students included under unclassified student counts  
 —Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared November 1988)

Table 39.—Enrollment in public elementary and secondary schools, by grade and State: Fall 1986

State or other area	Total, all levels	Prekindergarten through grade 8 and elementary unclassified							
		Total	Prekindergarten <sup>1</sup>	Kinder-garten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>39,837,459</b>	<b>27,403,707</b>	<b>183,435</b>	<b>3,126,573</b>	<b>3,358,019</b>	<b>3,054,105</b>	<b>2,932,867</b>	<b>2,895,820</b>	<b>2,714,993</b>
Alabama	733,735	518,982	—	53,672	64,231	57,357	58,682	56,939	53,977
Alaska	107,973	77,996	—	10,334	10,621	9,080	8,648	8,445	7,875
Arizona <sup>2</sup>	534,538	371,419	—	43,759	48,259	42,764	40,831	40,157	37,402
Arkansas	437,438	306,851	—	34,070	37,490	34,501	32,880	32,799	32,189
California	4,377,989	3,045,684	—	380,608	374,272	343,780	330,354	325,902	314,258
Colorado	558,415	386,304	2,227	45,843	48,078	44,239	41,771	41,114	39,908
Connecticut <sup>3</sup>	468,847	321,823	3,620	37,432	38,626	34,357	32,722	31,912	30,914
Delaware	94,410	64,807	286	7,696	9,014	7,582	6,851	6,620	6,422
Dist. of Columbia	85,612	62,456	3,405	6,546	7,845	7,096	6,458	6,200	5,595
Florida	1,607,320	1,120,938	4,287	134,732	133,743	123,061	117,387	117,394	114,901
Georgia	1,096,425	777,991	—	88,748	97,804	86,941	85,014	81,587	78,926
Hawaii	164,640	113,256	304	13,642	13,779	13,092	12,355	12,146	11,744
Idaho	208,391	149,613	—	16,646	18,528	17,679	17,018	16,672	15,859
Illinois	1,825,185	1,249,340	25,111	134,370	149,921	137,427	129,502	128,759	122,708
Indiana	966,780	653,613	662	70,624	80,654	71,790	70,057	68,759	66,194
Iowa	481,286	323,536	981	40,195	39,140	36,095	34,555	33,904	32,379
Kansas	416,091	291,564	495	36,358	38,162	32,650	31,138	30,998	29,293
Kentucky	642,778	446,901	—	49,578	55,793	50,334	48,705	48,508	46,205
Louisiana	795,188	580,771	1,287	68,146	73,190	66,232	63,106	62,325	58,586
Maine	211,752	143,671	889	17,040	17,463	15,665	15,230	14,695	14,425
Maryland	875,747	456,045	9,361	50,505	55,915	51,196	48,875	48,378	44,985
Massachusetts	833,918	559,418	3,702	66,595	67,360	60,682	58,117	57,235	55,965
Michigan	1,681,880	1,108,798	8,696	135,067	125,643	116,298	111,125	108,000	104,079
Minnesota	711,134	479,130	6,008	60,893	59,063	54,315	52,093	50,287	48,318
Mississippi	498,639	356,052	110	33,418	46,900	40,521	39,123	40,102	36,893
Missouri	800,606	549,348	—	62,575	65,801	62,393	60,345	58,984	55,743
Montana	153,327	107,572	138	12,923	13,422	12,127	11,928	11,684	11,168
Nebraska	267,139	185,282	1,487	23,355	22,859	21,000	20,094	19,799	18,804
Nevada	161,239	112,164	—	13,202	14,511	13,022	12,280	12,135	11,561
New Hampshire	163,717	109,948	—	5,812	17,054	12,601	12,028	11,631	11,201
New Jersey	1,107,467	742,324	6,054	78,251	84,901	79,591	76,200	75,927	73,334
New Mexico	281,943	191,037	—	23,108	24,880	22,337	21,405	20,628	19,541
New York	2,607,719	1,713,465	18,783	181,664	204,405	187,764	181,399	178,888	169,759
North Carolina	1,085,248	748,451	778	81,093	86,020	80,915	79,583	79,686	76,379
North Dakota	118,703	83,930	609	10,126	10,438	9,625	9,344	9,243	8,666
Ohio	1,793,508	1,208,110	—	141,923	150,467	136,798	130,136	128,943	125,599
Oklahoma	593,183	417,287	2,495	52,321	54,596	45,908	44,540	43,781	41,784
Oregon	449,307	308,527	1,617	26,878	37,519	36,440	34,954	34,941	33,595
Pennsylvania	1,674,161	1,064,561	—	124,171	132,931	119,946	114,179	112,088	108,589
Rhode Island	134,126	91,407	372	9,834	12,081	9,999	9,452	9,318	9,018
South Carolina	511,629	427,751	—	41,415	55,229	48,298	46,798	46,874	45,115
South Dakota	25,458	89,373	925	11,124	11,422	10,333	9,774	9,565	9,209
Tennessee	918,073	577,045	992	61,359	67,741	63,015	61,090	61,142	58,334
Texas	3,209,515	2,317,454	62,804	248,628	291,251	259,702	249,382	245,742	236,437
Utah	415,994	308,389	—	37,466	38,813	37,007	33,551	35,182	33,273
Vermont	92,112	63,392	281	7,196	8,131	7,276	6,992	6,730	6,610
Virginia	975,135	673,237	1,462	75,204	80,288	73,265	70,095	69,422	66,259
Washington	761,428	521,333	1,996	62,897	65,789	60,442	57,484	56,847	53,611
West Virginia	351,837	243,538	501	25,821	27,567	24,731	26,027	26,266	25,105
Wisconsin	767,819	509,584	10,710	62,635	61,096	56,272	53,332	52,639	48,842
Wyoming	100,955	72,239	—	9,075	9,313	8,652	7,878	7,848	7,477
<b>Outlying areas</b>									
American Samoa	11,055	8,133	1,189	636	849	785	780	831	843
Guam	25,676	18,522	385	2,157	2,225	2,114	2,039	2,065	1,988
Puerto Rico	679,489	503,012	—	31,183	63,123	59,059	58,804	59,981	58,393
Virgin Islands	24,435	17,778	—	1,791	1,963	1,918	1,874	1,843	1,824

Table 39.—Enrollment in public elementary and secondary schools, by grade and State: Fall 1986—Continued

State or other area	Prekindergarten through grade 8 and elementary unclassified				Grades 9 through 12 and secondary unclassified					
	Grade 6	Grade 7	Grade 8	Elementary unclassified	Total	Grade 9	Grade 10	Grade 11	Grade 12	Secondary unclassified
1	11	12	13	14	15	16	17	18	19	20
<b>United States...</b>	<b>2,806,012</b>	<b>2,899,751</b>	<b>2,870,158</b>	<b>501,974</b>	<b>12,733,752</b>	<b>3,256,860</b>	<b>3,215,073</b>	<b>2,953,682</b>	<b>2,600,640</b>	<b>407,497</b>
Alabama	56,059	60,804	57,261	—	214,753	82,612	56,014	50,731	45,396	—
Alaska	7,870	7,749	7,574	—	29,977	7,872	7,894	7,423	6,788	—
Arizona <sup>2</sup>	37,587	38,364	38,060	4,206	163,119	44,263	43,903	139,685	35,777	391
Arkansas	32,307	34,341	34,053	2,221	130,587	34,501	35,02	531,354	28,729	978
California	308,878	312,983	304,787	50,062	1,332,305	348,672	363,756	341,809	251,281	26,787
Colorado	39,878	39,895	40,066	3,285	172,111	44,478	44,794	42,543	37,327	2,969
Connecticut <sup>3</sup>	31,309	32,112	32,229	16,590	147,024	37,191	37,775	37,293	34,742	23
Delaware	8,591	8,885	8,880	—	29,603	8,103	8,145	6,734	6,621	—
District of Columbia	5,322	8,303	6,085	1,601	23,156	5,884	6,183	5,706	4,230	1,143
Florida	118,847	130,072	126,414	—	486,382	145,470	136,424	114,825	89,663	—
Georgia	81,027	81,996	83,280	12,668	318,434	90,274	83,611	72,877	64,282	7,390
Hawaii	10,994	10,667	10,618	3,915	51,384	11,896	12,258	11,858	10,281	5,091
Idaho	15,499	15,661	14,956	1,095	58,778	15,080	15,389	14,496	13,164	649
Illinois	122,637	123,647	123,175	52,083	575,845	141,211	144,222	133,117	119,827	37,668
Indiana	68,185	70,049	71,842	14,617	313,167	79,787	78,522	73,522	66,764	14,572
Iowa	32,778	32,174	32,068	9,247	157,750	38,316	38,047	37,707	38,222	9,458
Kansas	29,015	29,193	29,040	7,222	124,527	30,940	32,346	30,163	28,218	2,860
Kentucky	48,211	45,499	47,108	8,960	195,877	55,638	51,772	48,040	38,991	4,038
Louisiana	58,014	60,567	56,533	12,780	214,417	63,616	55,460	47,672	42,746	4,923
Maine	14,968	15,330	15,789	2,177	68,081	17,829	17,766	16,394	15,182	910
Maryland	46,081	47,828	47,315	5,606	219,702	57,118	56,031	51,860	47,584	7,109
Massachusetts	57,152	60,234	61,328	11,048	274,500	70,205	70,855	89,623	63,817	—
Michigan	108,475	112,139	113,378	65,698	573,082	133,796	129,457	121,917	105,858	82,054
Minnesota	48,661	49,789	49,703	—	232,004	54,693	59,579	59,914	57,818	—
Mississippi	36,482	37,688	37,060	7,755	142,587	39,196	36,808	32,734	28,405	5,444
Missouri	57,275	58,691	58,661	8,680	251,258	67,105	85,771	59,943	54,738	3,701
Montana	10,994	10,780	10,877	1,731	45,755	11,249	11,887	11,297	10,681	641
Nebraska	19,572	19,332	18,974	—	81,857	20,850	21,532	20,298	19,377	—
Nevada	11,203	11,825	11,740	885	49,075	12,273	13,299	12,448	11,023	32
New Hampshire	11,458	12,556	12,405	3,202	53,789	14,547	13,982	13,185	11,641	434
New Jersey	75,123	78,814	78,245	39,884	365,143	87,477	89,290	88,333	81,896	18,147
New Mexico	19,652	19,835	19,651	—	90,906	21,820	20,551	18,563	16,794	13,178
New York	171,644	180,834	174,025	64,300	894,254	220,033	227,779	200,730	171,545	74,187
North Carolina	80,185	84,775	85,448	13,591	338,797	95,311	93,087	79,460	68,939	—
North Dakota	8,478	8,662	8,739	—	34,773	8,733	8,679	8,957	8,204	—
Ohio	128,725	132,161	133,448	—	585,398	154,659	153,511	144,266	132,962	—
Oklahoma	40,479	42,881	42,731	5,791	175,896	45,930	46,210	42,597	38,606	2,553
Oregon	33,724	33,152	33,088	2,819	140,780	35,552	36,757	35,364	32,009	1,098
Pennsylvania	111,931	119,215	121,509	—	609,600	139,761	142,565	137,798	126,701	62,775
Rhode Island	8,986	9,801	9,865	2,671	42,719	11,238	10,872	10,267	9,247	1,095
South Carolina	46,254	48,907	48,881	—	183,878	55,488	50,193	42,133	38,064	—
South Dakota	8,931	8,646	8,518	926	36,085	8,929	9,402	9,069	8,346	336
Tennessee	59,261	63,860	62,213	18,038	241,028	87,900	65,455	57,728	49,945	—
Texas	240,049	248,668	238,791	—	892,061	269,256	235,943	199,583	187,279	—
Utah	30,504	29,519	28,311	4,783	107,605	26,935	27,898	26,402	23,782	2,788
Vermont	6,882	8,711	8,783	—	28,720	8,685	6,818	6,892	6,158	2,387
Virginia	87,255	71,181	73,489	25,337	301,898	82,294	78,606	72,570	68,104	124
Washington	53,757	54,323	54,187	—	240,095	59,514	63,047	60,844	56,690	—
West Virginia	25,537	27,963	27,392	8,628	108,299	28,278	27,311	24,499	22,845	5,366
Wisconsin	50,419	51,592	52,335	9,692	258,235	61,791	85,680	85,524	61,122	4,118
Wyoming	7,417	7,332	7,247	—	28,718	7,411	7,602	7,155	8,429	119
<b>Outlying areas</b>										
American Samoa	810	718	892	—	2,922	790	758	599	808	67
Guam	1,814	1,888	1,847	—	7,154	2,893	1,754	1,253	1,104	350
Puerto Rico	54,870	57,499	50,997	9,323	178,477	48,012	48,855	42,059	33,840	3,911
Virgin Islands	1,807	2,443	1,664	651	6,857	2,188	1,474	1,378	1,148	473

<sup>1</sup> The U.S. total represents an undercount because prekindergarten enrollment data are not reported by many States.

<sup>2</sup> Data represent a count as of the 40th day of the term rather than the 100th day as reported in previous years. The 40th-day counts tend to be slightly lower than 100th-day counts.

<sup>3</sup> Data include enrollment in State vocational/technical centers, which were not reported in previous years.

—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared October 1987)

Table 40.—Membership and attendance in public elementary and secondary schools, by State: 1980-81, 1985-86, and 1986-87

State	1980-81			1985-86			1986-87		
	Estimated average daily membership (ADM)	Average daily attendance (ADA)	ADA as a percentage of ADM <sup>1</sup>	Estimated average daily membership (ADM) <sup>2</sup>	Average daily attendance (ADA)	ADA as a percentage of ADM	Estimated average daily membership (ADM) <sup>2</sup>	Average daily attendance (ADA)	ADA as a percentage of ADM
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>2 40,256,675</b>	<b>37,703,744</b>	<b>93.7</b>	<b>2 38,705,754</b>	<b>36,523,103</b>	<b>94.4</b>	<b>—</b>	<b>36,858,329</b>	<b>—</b>
Alabama	741,534	701,925	94.7	724,327	686,716	94.8	727,190	690,256	94.9
Alaska	86,604	83,745	96.7	103,124	98,535	95.6	103,116	96,004	93.1
Arizona	491,812	476,149	96.8	524,481	494,504	94.3	547,400	518,277	94.7
Arkansas	441,432	417,080	94.5	428,668	408,601	95.3	431,915	409,388	94.8
California	—	4,014,917	—	—	4,245,090	—	—	4,429,792	—
Colorado	527,721	508,750	96.4	529,154	507,876	96.0	535,134	513,587	96.0
Connecticut	534,400	501,085	93.8	459,200	452,058	98.4	462,300	444,285	96.1
Delaware	97,713	89,609	91.7	91,251	84,936	93.1	93,008	86,655	93.2
District of Columbia	98,871	85,773	86.8	84,962	76,241	89.7	84,608	76,822	90.8
Florida	1,510,225	1,389,487	92.0	1,563,443	1,442,921	92.3	1,612,051	1,489,146	92.4
Georgia	1,046,400	988,612	94.5	1,048,300	1,004,799	95.9	1,050,704	1,023,127	97.4
Hawaii	162,666	151,713	93.3	161,764	151,174	93.5	163,686	152,287	93.0
Idaho	203,250	190,144	93.6	—	198,141	—	—	198,449	—
Illinois	1,876,356	1,765,357	94.1	1,707,117	1,604,265	94.0	1,707,551	1,574,128	92.2
Indiana	994,492	944,424	95.0	949,256	870,463	91.7	947,000	873,733	92.3
Iowa	524,800	501,403	95.5	476,240	454,341	95.4	474,378	453,150	95.5
Kansas	384,870	374,451	97.3	385,551	371,655	96.4	393,216	378,073	96.1
Kentucky	659,950	614,676	93.1	612,078	577,190	94.3	611,643	579,226	94.7
Louisiana	773,000	715,844	92.6	756,550	732,230	96.8	772,710	736,474	95.3
Maine	220,000	207,554	94.3	205,412	198,358	96.6	204,722	197,539	96.5
Maryland	725,818	664,866	91.6	668,217	592,383	88.7	668,878	595,618	89.0
Massachusetts	1,020,382	950,675	93.2	844,625	745,991	88.3	837,310	727,680	86.9
Michigan	—	1,711,139	—	—	1,481,068	—	—	1,476,471	—
Minnesota	750,073	710,836	94.8	699,109	669,385	95.7	708,117	674,245	95.2
Mississippi	471,100	446,515	94.8	450,898	448,117	99.4	496,241	473,424	95.4
Missouri	831,448	756,536	91.0	—	714,230	—	—	724,710	—
Montana	148,300	141,641	95.5	146,229	138,829	94.9	146,183	139,199	95.2
Nebraska	274,830	263,797	96.0	262,431	250,975	95.6	263,588	252,457	95.8
Nevada	141,825	138,481	97.6	148,836	143,941	96.7	157,864	143,398	91.0
New Hampshire	162,656	150,316	92.4	154,345	147,561	95.6	156,974	143,963	95.5
New Jersey	1,265,089	1,121,272	88.6	1,111,000	1,029,797	92.7	1,100,500	1,024,611	93.1
New Mexico	271,198	240,496	88.7	264,748	252,892	95.5	268,765	243,340	90.5
New York	2,808,160	2,475,055	88.1	2,558,000	2,276,842	89.0	2,533,700	2,266,283	89.4
North Carolina	1,123,506	1,055,651	94.0	1,075,289	1,014,795	94.4	1,073,524	1,020,702	95.1
North Dakota	116,416	111,759	96.0	116,790	108,947	93.3	117,981	109,074	92.5
Ohio	1,948,600	1,801,914	92.5	1,775,167	1,660,718	93.6	1,776,100	1,664,709	93.7
Oklahoma	574,000	542,800	94.6	585,000	553,370	94.6	582,227	550,949	94.6
Oregon	449,925	417,009	92.7	442,300	401,476	90.8	442,900	402,855	91.0
Pennsylvania	1,897,000	1,754,782	92.5	1,671,800	1,560,746	93.4	1,644,100	1,554,642	94.6
Rhode Island	142,457	135,096	94.8	132,707	122,109	92.0	132,715	122,024	91.9
South Carolina	601,708	580,132	96.4	583,170	558,716	95.8	587,866	564,508	96.0
South Dakota	127,068	121,663	95.7	123,457	118,269	95.8	123,000	118,902	96.7
Tennessee	857,373	797,237	93.0	808,303	762,225	94.3	813,576	766,521	94.2
Texas	2,734,671	2,647,288	97.0	—	2,923,741	—	—	2,977,783	—
Utah	340,827	323,048	94.8	400,667	379,249	94.7	408,521	386,306	94.6
Vermont	95,940	90,804	94.7	88,500	85,875	97.0	91,431	85,985	94.0
Virginia	1,000,378	938,764	93.8	960,292	904,347	94.2	966,176	911,261	94.3
Washington	751,287	704,650	93.8	743,172	696,372	93.7	756,317	708,564	93.7
West Virginia	—	351,823	—	—	330,145	—	—	324,791	—
Wisconsin	771,485	743,505	96.4	749,842	694,351	92.6	727,850	682,580	93.8
Wyoming	—	91,361	—	101,098	95,547	94.5	101,098	94,176	93.2

<sup>1</sup> Data compiled by the National Education Association<sup>2</sup> Total includes estimates for nonreporting States<sup>3</sup> Data estimated by State education agencies

—Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, and National Education Association, *Estimates of School Statistics, 1987-88* (Copyright © 1988 by the National Education Association. All rights reserved.) (This table was prepared September 1988.)

Table 41.--Average daily attendance in public elementary and secondary schools, by State: 1969-70 to 1986-87

State	1969-70	1975-76	1979-80	1980-81	1981-82	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>41,934,376</b>	<b>41,269,720</b>	<b>38,288,911</b>	<b>37,703,744</b>	<b>37,094,652</b>	<b>36,362,978</b>	<b>36,404,261</b>	<b>36,523,103</b>	<b>36,858,329</b>
Alabama	777,123	716,371	711,432	701,925	690,084	679,742	684,211	686,716	690,256
Alaska	72,489	81,564	79,945	83,745	87,253	80,264	96,257	98,535	96,004
Arizona	391,526	455,692	481,905	476,149	468,081	482,185	477,520	494,504	518,277
Arkansas	414,158	423,720	423,610	417,080	410,426	404,282	405,077	408,601	409,388
California <sup>2</sup>	4,418,423	4,376,617	4,044,736	4,014,917	4,016,214	4,098,300	4,139,461	4,245,090	4,429,792
Colorado	500,388	527,434	513,475	508,750	514,808	503,162	505,321	507,876	513,587
Connecticut	618,881	596,175	507,362	501,085	484,161	452,061	446,981	452,053	444,285
Delaware	120,819	116,553	94,058	89,609	86,052	84,118	84,407	84,936	86,655
District of Columbia	138,600	119,255	91,576	85,773	82,521	77,859	76,023	76,241	76,822
Florida	1,312,693	1,435,570	1,464,461	1,389,487	1,454,118	1,388,717	1,416,104	1,442,921	1,489,146
Georgia	1,019,427	998,898	989,433	988,612	979,047	978,530	989,713	1,004,799	1,023,127
Hawaii	168,140	162,903	151,563	151,713	148,636	150,137	150,572	151,174	152,287
Idaho	170,920	182,215	189,199	190,144	190,872	194,533	197,902	198,141	198,449
Illinois	2,084,844	1,990,158	1,770,435	1,765,357	1,678,944	1,616,711	1,600,380	1,604,265	1,574,128
Indiana	1,111,043	1,049,889	983,444	944,424	925,411	893,464	883,592	870,463	873,733
Iowa	624,403	574,773	510,081	501,403	487,405	467,965	461,392	454,341	453,150
Kansas	470,296	419,022	382,019	374,451	371,061	368,354	369,524	371,655	378,073
Kentucky	647,970	622,484	619,868	614,676	607,376	585,861	579,441	577,190	579,226
Louisiana	776,555	768,097	727,601	715,844	716,995	724,153	732,864	732,230	736,474
Maine	225,146	227,841	211,400	207,554	201,427	200,159	198,125	199,358	197,539
Maryland	785,989	793,848	686,336	664,866	637,792	602,077	596,478	592,383	595,618
Massachusetts	1,056,207	1,070,996	935,960	950,675	852,031	806,193	779,869	745,991	727,680
Michigan	1,991,235	1,971,774	1,758,427	1,711,139	1,662,798	1,514,671	1,490,452	1,481,068	1,476,471
Minnesota	864,595	827,239	748,606	710,836	700,897	663,780	669,930	669,385	674,245
Mississippi	524,623	479,076	454,401	446,515	441,880	437,790	435,587	448,117	473,424
Missouri	906,132	864,958	777,263	756,536	732,526	715,182	712,197	714,230	724,710
Montana	162,664	156,473	144,608	141,841	139,434	139,387	139,905	138,829	139,199
Nebraska	314,516	296,915	270,524	263,797	258,654	252,484	250,647	250,975	252,457
Nevada	113,421	128,106	134,995	138,481	139,543	139,115	140,402	143,941	143,598
New Hampshire	140,203	159,836	154,187	150,316	148,251	144,733	144,655	147,561	149,963
New Jersey	1,322,124	1,310,042	1,140,111	1,121,272	1,110,685	1,037,865	1,043,047	1,029,797	1,024,611
New Mexico	259,997	256,764	253,453	240,496	239,710	246,451	248,758	252,892	243,340
New York	3,099,192	3,012,893	2,530,289	2,475,055	2,396,594	2,321,800	2,309,169	2,276,842	2,266,283
North Carolina	1,104,295	1,120,207	1,072,150	1,055,651	1,039,849	1,022,138	1,018,795	1,014,795	1,020,702
North Dakota	141,961	126,277	118,986	111,759	112,836	111,630	109,427	108,947	109,074
Ohio	2,246,282	2,103,243	1,849,283	1,801,914	1,748,908	1,693,851	1,675,530	1,660,718	1,664,709
Oklahoma	560,943	558,528	548,065	542,800	546,689	553,236	552,835	553,370	550,949
Oregon	436,736	425,126	418,593	417,009	410,107	401,398	401,154	401,476	402,855
Pennsylvania	2,169,225	2,064,312	1,808,630	1,754,782	1,691,235	1,601,944	1,571,831	1,560,746	1,554,642
Rhode Island	163,205	158,752	139,195	135,096	129,780	123,501	122,653	122,109	122,024
South Carolina	600,282	591,900	589,612	580,132	575,248	602,183	559,340	558,716	564,508
South Dakota	158,543	141,120	124,934	121,663	119,023	117,192	117,137	118,269	118,902
Tennessee	836,010	826,335	806,696	797,237	785,336	774,346	769,862	762,225	766,521
Texas	2,432,420	2,549,517	2,608,817	2,647,288	2,664,282	2,745,339	2,879,823	2,923,741	2,977,783
Utah	287,405	289,171	312,813	323,048	334,577	356,072	366,574	379,249	386,306
Vermont	97,772	98,015	95,045	90,884	88,448	86,404	85,734	85,875	85,985
Virginia	995,580	1,018,034	955,105	938,794	919,481	900,378	901,994	904,347	911,261
Washington	784,735	723,083	710,929	704,655	695,771	685,068	688,759	696,372	708,584
West Virginia	372,278	366,395	353,284	351,823	348,632	343,320	336,196	330,145	324,791
Wisconsin	880,609	858,407	770,554	743,505	729,839	699,089	696,071	694,351	682,560
Wyoming	81,293	82,147	89,471	91,381	92,874	93,804	94,583	95,547	94,176

<sup>1</sup> Revised from previously published data<sup>2</sup> Data for California are not strictly comparable with those for other States because California's attendance figures include excused absencesSOURCE U.S. Department of Education, National Center for Education Statistics, *Revenues and Expenditures for Public Elementary and Secondary Education, Statistics of State School Systems*, and Common Core of Data survey (This table was prepared January 1989)



Table 42.—Enrollment in public elementary and secondary schools, by race or ethnicity and State: Fall 1986

State	Percent of enrollment, by race or ethnicity					
	Total	White <sup>1</sup>	Black <sup>1</sup>	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native
1	2	3	4	5	6	7
<b>United States</b>	<b>100.0</b>	<b>70.4</b>	<b>16.1</b>	<b>9.9</b>	<b>2.8</b>	<b>0.9</b>
Alabama	100.0	62.0	37.0	0.1	0.4	0.5
Alaska	100.0	65.7	4.3	1.7	3.3	25.1
Arizona	100.0	62.2	4.0	26.4	1.3	6.1
Arkansas	100.0	74.7	24.2	0.4	0.6	0.2
California	100.0	53.7	9.0	27.5	9.1	0.7
Colorado	100.0	78.7	4.5	13.7	2.0	1.0
Connecticut	100.0	77.2	12.1	8.9	1.5	0.2
Delaware	100.0	68.3	27.7	2.5	1.4	0.2
Distict of Columbia	100.0	4.0	91.1	3.9	0.9	0.1
Florida	100.0	65.4	23.7	9.5	1.2	0.2
Georgia	100.0	60.7	37.9	0.6	0.8	(?)
Hawaii	100.0	23.5	2.3	2.2	71.7	0.3
Idaho	100.0	92.6	0.3	4.8	0.8	1.3
Illinois	100.0	69.8	18.7	9.2	2.3	0.1
Indiana	100.0	88.7	9.0	1.7	0.5	0.1
Iowa	100.0	94.6	3.0	0.9	1.2	0.3
Kansas	100.0	85.6	7.6	4.4	1.9	0.6
Kentucky	100.0	89.2	10.2	0.1	0.5	0.0
Louisiana	100.0	56.5	41.3	0.8	1.1	0.3
Maine	100.0	98.3	0.5	0.2	0.8	0.2
Maryland	100.0	59.7	35.3	1.7	3.1	0.2
Massachusetts	100.0	83.7	7.4	6.0	2.8	0.1
Michigan	100.0	76.4	19.8	1.8	1.2	0.8
Minnesota	100.0	93.9	2.1	0.9	1.7	1.5
Mississippi	100.0	43.9	55.5	0.1	0.4	0.1
Missouri	100.0	83.4	14.9	0.7	0.8	0.2
Montana	100.0	92.7	0.3	0.9	0.5	5.5
Nebraska	100.0	91.4	4.4	2.4	0.8	1.0
Nevada	100.0	77.4	9.6	7.5	3.2	2.3
New Hampshire	100.0	98.0	0.7	0.5	0.8	0.1
New Jersey	100.0	69.1	17.4	10.7	2.7	0.1
New Mexico	100.0	43.1	2.3	45.1	0.8	8.7
New York	100.0	68.4	16.5	12.3	2.7	0.2
North Carolina	100.0	38.4	28.9	0.4	0.6	1.7
North Dakota	100.0	92.4	0.6	1.1	0.8	5.0
Ohio	100.0	83.1	15.0	1.0	0.7	0.1
Oklahoma	100.0	79.0	7.8	1.6	1.0	10.6
Oregon	100.0	89.6	2.2	3.9	2.4	1.7
Pennsylvania	100.0	84.4	12.6	1.8	1.2	0.1
Rhode Island	100.0	87.9	5.6	3.7	2.4	0.3
South Carolina	100.0	54.6	44.5	0.2	0.6	0.1
South Dakota	100.0	90.6	0.5	0.6	0.7	7.6
Tennessee	100.0	76.5	22.6	0.2	0.6	(?)
Texas	100.0	51.0	14.4	32.5	2.0	0.2
Utah	100.0	93.7	0.4	3.0	1.5	1.5
Vermont	100.0	98.4	0.3	0.2	0.6	0.6
Virginia	100.0	72.6	23.7	1.0	2.6	0.1
Washington	100.0	84.5	4.2	3.8	5.1	2.3
West Virginia	100.0	95.9	3.7	0.1	0.3	0.0
Wisconsin	100.0	86.6	8.9	1.9	1.7	1.0
Wyoming	100.0	90.7	0.9	5.9	0.6	1.9

<sup>1</sup> Excludes persons of Hispanic origin<sup>2</sup> Less than 0.05 percent

NOTE—The above tabulation was derived from a sample survey of public school districts from the 1986 Elementary and Secondary School Civil Rights Survey. State estimates may differ from other data sources because of variations in survey methodology. Because of rounding, details may not add to totals.

SOURCE—U.S. Department of Education, Office for Civil Rights, *1986 State Summaries of Elementary and Secondary School Civil Rights Survey* (This table was prepared July 1989)

**Table 43.—Enrollment of 3-, 4-, and 5-year-old children in preprimary programs, by level and control of program and by attendance status: October 1965 to October 1987**

[Numbers in thousands]

Year and age	Total population, 3 to 5 years old	Enrollment by level and control						Enrollment by attendance	
		Total	Percentage enrolled	Nursery school		Kindergarten		Full-day	Part-day
				Public	Private	Public	Private		
1	2	3	4	5	6	7	8	9	10
<b>1965</b>									
Total, 3 to 5 years old	12,549	3,407	27.1	127	393	2,291	596	—	—
3 years old	4,149	203	4.9	41	153	5	4	—	—
4 years old	4,238	683	16.1	68	213	284	118	—	—
5 years old	4,162	2,521	60.6	18	27	2,002	474	—	—
<b>1970</b>									
Total, 3 to 5 years old	10,949	4,104	37.5	332	762	2,498	511	698	3,406
3 years old	3,516	454	12.9	110	322	12	10	142	312
4 years old	3,620	1,007	27.8	176	395	318	117	230	776
5 years old	3,814	2,643	69.3	45	45	2,168	384	326	2,317
<b>1975</b>									
Total, 3 to 5 years old	10,185	4,955	48.7	570	1,174	2,682	528	1,295	3,659
3 years old	3,177	683	21.5	179	474	11	18	259	423
4 years old	3,499	1,418	40.5	332	644	313	129	411	1,008
5 years old	3,509	2,854	81.3	59	57	2,358	381	625	2,228
<b>1977</b>									
Total, 3 to 5 years old	9,249	4,577	49.5	557	1,054	2,474	492	1,348	3,229
3 years old	2,978	645	21.7	184	431	14	16	211	434
4 years old	3,061	1,290	42.1	321	570	270	128	429	861
5 years old	3,210	2,642	82.3	52	53	2,189	347	708	1,934
<b>1979</b>									
Total, 3 to 5 years old	9,119	4,664	51.1	633	1,228	2,381	421	1,454	3,210
3 years old	3,025	746	24.7	216	509	16	5	305	441
4 years old	3,070	1,393	45.4	359	664	247	123	421	972
5 years old	3,024	2,525	83.5	58	56	2,119	293	728	1,977
<b>1980</b>									
Total, 3 to 5 years old	9,284	4,878	52.5	628	1,353	2,438	459	1,551	3,327
3 years old	3,143	857	27.3	221	604	16	17	321	536
4 years old	3,072	1,423	46.3	503	701	239	120	467	956
5 years old	3,069	2,598	84.7	44	48	2,163	322	763	1,835
<b>1981</b>									
Total, 3 to 5 years old	9,421	4,927	52.4	—	—	—	—	1,472	3,465
3 years old	3,266	891	27.3	—	—	—	—	279	612
4 years old	2,985	1,442	48.3	—	—	—	—	431	1,011
5 years old	3,170	2,604	82.1	—	—	—	—	762	1,842
<b>1982</b>									
Total, 3 to 5 years old	9,873	5,105	51.7	729	1,423	2,459	494	1,574	3,531
3 years old	3,387	928	27.4	312	578	27	10	280	648
4 years old	3,271	1,496	45.7	377	781	225	113	442	1,054
5 years old	3,215	2,681	83.4	40	64	2,207	370	852	1,829
<b>1983</b>									
Total, 3 to 5 years old	10,254	5,384	52.5	809	1,538	2,416	623	—	—
3 years old	3,574	1,004	28.1	314	631	21	39	—	—
4 years old	3,414	1,619	47.4	402	813	231	173	—	—
5 years old	3,266	2,761	84.5	93	94	2,164	410	—	—
<b>1984</b>									
Total, 3 to 5 years old	10,612	5,480	51.6	742	1,593	2,668	476	1,929	3,550
3 years old	3,609	1,004	27.8	295	658	30	22	401	603
4 years old	3,579	1,803	50.4	376	860	257	110	521	1,082
5 years old	3,423	2,672	78.1	72	76	2,381	344	1,007	1,865
<b>1985</b>									
Total, 3 to 5 years old	10,733	5,865	54.6	846	1,631	2,847	541	2,144	3,722
3 years old	3,594	1,035	28.8	278	679	52	26	350	685
4 years old	3,598	1,766	49.1	496	859	276	135	643	1,123
5 years old	3,542	3,065	86.5	73	94	2,519	379	1,151	1,914
<b>1986</b>									
Total, 3 to 5 years old	10,866	5,971	54.9	829	1,715	2,359	567	2,241	3,730
3 years old	3,607	1,041	28.9	257	737	26	21	399	642
4 years old	3,618	1,772	49.0	498	903	257	115	622	1,150
5 years old	3,643	3,157	86.7	75	75	2,576	432	1,220	1,937
<b>1987</b>									
Total, 3 to 5 years old	10,872	5,931	54.6	819	1,736	2,842	534	2,090	3,841
3 years old	3,580	1,022	28.7	264	703	24	31	378	644
4 years old	3,597	1,717	47.7	431	881	280	125	548	1,169
5 years old	3,775	3,192	84.6	124	152	2,538	378	1,163	2,028

—Data not available

NOTE—Data are based on sample surveys of the civilian noninstitutional population. Although cells with fewer than 75,000 children are subject to wide sampling variation, they are included in the table to permit various types of aggregations. Enrollment data for 5-year-olds include only those students in preprimary programs. Because of rounding, details may not add to totals.

SCJRCE U.S. Department of Education, National Center for Education Statistics, *Preprimary Enrollment*, various years, and U.S. Department of Commerce, Bureau of the Census, Current Population Survey, unpublished data. (This table was prepared March 1989.)

**Table 44.—Public school pupils transported at public expense and current expenditures for transportation: 1929-30 to 1986-87**

School year	Average daily attendance, all students <sup>1</sup>	Pupils transported at public expense		Expenditures for transportation	
		Number	Percent of total	Total <sup>2</sup> (in thousands)	Average for pupil transported
1	2	3	4	5	6
1929-30 . . . . .	25,678,015	1,902,826	7.4	\$54,823	29
1931-32 . . . . .	26,275,441	2,419,173	9.2	58,078	24
1933-34 . . . . .	26,434,193	2,794,724	10.6	53,908	19
1935-36 . . . . .	26,367,098	3,250,658	12.3	62,653	19
1937-38 . . . . .	25,975,108	3,769,242	14.5	75,037	20
1939-40 . . . . .	25,433,542	4,144,161	16.3	83,283	20
1941-42 . . . . .	24,562,473	4,503,081	18.3	92,922	21
1943-44 . . . . .	23,266,616	4,512,412	19.4	107,754	24
1945-46 . . . . .	23,299,941	5,056,966	21.7	129,756	26
1947-48 . . . . .	23,944,532	5,854,041	24.4	176,265	30
1949-50 . . . . .	25,111,427	6,947,384	27.7	214,504	31
1951-52 . . . . .	26,562,664	7,697,130	29.0	268,827	35
1953-54 . . . . .	25,643,871	8,411,719	32.8	307,437	37
1955-56 . . . . .	27,740,149	9,695,819	35.0	353,972	37
1957-58 . . . . .	29,122,275	10,861,689	36.5	416,491	38
1959-60 . . . . .	32,477,440	12,225,142	37.6	486,338	40
1961-62 . . . . .	34,682,340	13,222,667	38.1	576,361	44
1963-64 . . . . .	37,405,058	14,475,778	38.7	673,845	47
1965-66 . . . . .	39,154,497	15,536,567	39.7	787,358	51
1967-68 . . . . .	40,827,965	17,130,873	42.0	981,006	57
1969-70 . . . . .	41,934,376	18,198,577	43.4	1,218,557	67
1971-72 . . . . .	42,254,272	19,474,355	46.1	1,507,830	77
1973-74 . . . . .	41,438,054	21,347,039	51.5	1,858,141	87
1975-76 . . . . .	41,269,720	21,772,483	52.8	2,377,313	109
1977-78 . . . . .	40,079,590	<sup>3</sup> 21,800,000	54.4	2,731,041	125
1979-80 . . . . .	38,288,911	21,713,515	56.7	3,833,145	177
1980-81 . . . . .	37,703,744	<sup>3</sup> 22,272,000	59.1	<sup>3</sup> 4,408,000	198
1981-82 . . . . .	37,094,652	<sup>3</sup> 22,246,000	60.0	<sup>3</sup> 4,793,000	215
1982-83 . . . . .	36,635,868	<sup>3</sup> 22,199,000	60.6	<sup>3</sup> 5,000,000	225
1983-84 . . . . .	36,362,978	<sup>3</sup> 22,031,000	60.6	<sup>3</sup> 5,284,000	240
1984-85 . . . . .	36,404,261	<sup>3</sup> 22,320,000	61.3	<sup>3</sup> 5,722,000	256
1985-86 . . . . .	36,523,103	<sup>3</sup> 22,041,000	60.3	<sup>3</sup> 6,123,000	278
1986-87 . . . . .	36,858,329	<sup>3</sup> 22,397,000	60.8	<sup>3</sup> 6,551,000	292

<sup>1</sup> Pupil transportation data through 1951-52 are based on enrollment, data for 1953-54 and subsequent years are based on average daily attendance

<sup>2</sup> Excludes capital outlay for years through 1979-80. Beginning in 1980-81, total transportation figures include capital outlay

<sup>3</sup> Estimate based on data appearing in December-January issues of *School Bus Fleet*

NOTE—Some data have been revised from previously published figures

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*, and unpublished data, and *School Bus Fleet*, © by Bobbit Publishing Co. December-January issues. (This table was prepared January 1989)

**Table 45.—Children 0 to 21 years old served in federally supported special education programs, by type of handicap: 1976-77 to 1987-88**

Type of handicap	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
1	2	3	4	5	6	7	8	9	10	11	12	13
Number served, <sup>1</sup> in thousands												
<b>All conditions</b> .....	<b>3,692</b>	<b>3,751</b>	<b>3,889</b>	<b>4,005</b>	<b>4,142</b>	<b>4,198</b>	<b>4,255</b>	<b>4,298</b>	<b>4,315</b>	<b>4,317</b>	<b>4,374</b>	<b>4,446</b>
Learning disabled.....	796	964	1,130	1,276	1,462	1,622	1,741	1,806	1,832	1,862	1,914	1,928
Speech impaired.....	1,302	1,223	1,214	1,186	1,168	1,135	1,131	1,128	1,126	1,125	1,136	953
Mentally retarded.....	959	933	901	869	829	786	757	727	694	660	643	582
Seriously emotionally disturbed..	283	288	300	329	346	339	352	361	372	375	383	373
Hard of hearing and deaf.....	87	85	85	80	79	75	73	72	69	66	65	66
Orthopedically handicapped.....	87	87	70	66	58	58	57	56	56	57	57	47
Other health impaired.....	141	135	105	106	98	79	50	53	68	57	52	45
Visually handicapped.....	38	35	32	31	31	29	28	29	28	27	26	22
Multihandicapped.....	—	—	50	60	68	71	63	65	69	86	97	77
Deaf-blind.....	—	—	2	2	3	2	2	2	2	2	2	1
Preschool handicapped <sup>2</sup> .....	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	363
Percentage distribution of children served												
<b>All conditions</b> .....	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Learning disabled.....	21.6	25.7	29.1	31.9	35.3	38.6	40.9	42.0	42.4	43.1	43.8	43.4
Speech impaired.....	35.3	32.6	31.2	29.6	28.2	27.0	26.6	26.2	26.1	26.1	26.0	21.4
Mentally retarded.....	26.0	24.9	23.2	21.7	20.0	18.7	17.8	16.9	16.1	15.3	14.7	13.1
Seriously emotionally disturbed	7.7	7.7	7.7	8.2	8.4	8.1	8.3	8.4	8.6	8.7	8.8	8.4
Hard of hearing and deaf.....	2.4	2.3	2.2	2.0	1.9	1.8	1.7	1.7	1.6	1.5	1.5	1.3
Orthopedically handicapped.....	2.4	2.3	1.8	1.6	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.1
Other health impaired.....	3.8	3.6	2.7	2.6	2.4	1.9	1.2	1.2	1.6	1.3	1.2	1.0
Visually handicapped.....	1.0	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5
Multihandicapped.....	—	—	1.3	1.5	1.6	1.7	1.5	1.5	1.6	2.0	2.2	1.7
Deaf-blind.....	—	—	0.1	(4)	0.1	(4)	(4)	0.1	(4)	(4)	(4)	(4)
Preschool handicapped <sup>2</sup> .....	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	8.2
Number served as a percent of total enrollment <sup>5</sup>												
<b>All conditions</b> .....	<b>8.33</b>	<b>8.61</b>	<b>9.14</b>	<b>9.62</b>	<b>10.11</b>	<b>10.46</b>	<b>10.73</b>	<b>10.92</b>	<b>10.98</b>	<b>10.93</b>	<b>10.97</b>	<b>11.10</b>
Learning disabled.....	1.80	2.21	2.66	3.06	3.57	4.04	4.39	4.59	4.66	4.71	4.80	4.82
Speech impaired.....	2.94	2.81	2.85	2.85	2.85	2.83	2.85	2.87	2.87	2.85	2.85	2.38
Mentally retarded.....	2.16	2.14	2.12	2.09	2.02	1.96	1.91	1.85	1.77	1.67	1.61	1.45
Seriously emotionally disturbed	0.64	0.66	0.71	0.79	0.85	0.85	0.89	0.92	0.95	0.95	0.96	0.93
Hard of hearing and deaf.....	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.17	0.17	0.16	0.14
Orthopedically handicapped.....	0.20	0.20	0.16	0.16	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.12
Other health impaired.....	0.32	0.31	0.25	0.25	0.24	0.20	0.13	0.13	0.17	0.14	0.13	0.11
Visually handicapped.....	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06
Multihandicapped.....	—	—	0.12	0.14	0.17	0.18	0.16	0.17	0.17	0.22	0.24	0.19
Deaf-blind.....	—	—	0.01	0.01	0.01	(6)	0.01	0.01	(6)	0.01	(6)	(6)
Preschool handicapped <sup>2</sup> .....	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	0.91

<sup>1</sup> Includes students served under Chapter 1 and Education of the Handicapped Act (EHA)

<sup>2</sup> Includes preschool children 3-5 years served under the EHA and 0-5 years served under Chapter 1

<sup>3</sup> Beginning in 1987-88, States are no longer required to report preschool handicapped students (0-5 years) by handicapping condition. Prior to this, these students were included in the counts by handicapping condition

<sup>4</sup> Less than .05

<sup>5</sup> Based on the enrollment in public schools, kindergarten through 12th grade, including a relatively small number of prekindergarten students

<sup>6</sup> Less than .005

—Data not available

NOTE—Counts are based on reports from the 50 States and District of Columbia only (i.e., figures from U.S. territories are not included). Some of the increase in 1987-88 may be due in part to new legislation passed in Fall 1986 which mandates public school special education services for all handicapped children ages 3 through 5 by the 1990-91 school year and provides a State grant program for handicapped children from birth to age 2. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services, *Annual Report to Congress on the Implementation of The Education of the Handicapped Act*, various years; National Center for Education Statistics, Common Core of Data survey, and unpublished tabulations (This table was prepared December 1988)

**Table 46.—Percentage distribution of handicapped persons 3 to 21 years old receiving special education services, by educational environment: 1985-86**

Type of handicap	All environments	Regular class	Resource room	Separate class	Public separate school facility	Private separate school facility	Public residential facility	Private residential facility	Correction facility	Home-bound/hospital environment
1	2	3	4	5	6	7	8	9	10	11
All conditions	100.0	26.4	41.5	24.5	3.8	1.8	1.0	0.4	0.3	0.7
Learning disabled	100 0	15.3	61.7	21.1	0.9	0.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Speech impaired	100 0	66.3	21.9	5.5	0.8	1.5	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mentally retarded	100 0	3.0	24.9	56.5	9.8	1.9	2.9	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Seriously emotionally disturbed	100 0	8.8	33.8	35.8	8.8	4.5	1.8	2.3	1.7	2.3
Hard of hearing and deaf	100 0	19.4	21.5	34.5	7.9	4.0	11.0	1.1	( <sup>1</sup> )	0.6
Orthopedically handicapped	100 0	26.4	16.6	33.2	10.6	4.0	0.6	( <sup>1</sup> )	( <sup>1</sup> )	8.1
Other health impaired	100 0	26.3	19.0	26.1	4.3	2.6	3.1	0.8	( <sup>1</sup> )	17.8
Visually handicapped	100 0	34.2	25.4	20.7	4.1	2.2	10.8	1.0	( <sup>1</sup> )	1.4
Multihandicapped	100 0	4.1	15.6	44.3	19.3	9.5	3.0	2.1	( <sup>1</sup> )	1.7
Deaf-blind	100 0	6.8	17.4	23.9	12.3	3.3	26.3	8.8	( <sup>1</sup> )	1.2

<sup>1</sup> Less than 05 percent

NOTE—This table reflects a compilation of data reported by the States. There are some reporting variations, e.g., estimated or incomplete data and nonstandard definitions, from State to State. Data exclude U.S. Territories and schools operated by the Bureau of Indian Affairs. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitation Services, Tenth Annual Report to Congress on the Implementation of The Education of the Handicapped Act, 1988 (This table was prepared August 1988).

**Table 47.—Number of children 3-5 years old served under The Education of the Handicapped Act, by State: 1986-87 and 1987-88**

State	1986-87	1987-88	Percent change 1986-87 to 1987-88	State	1986-87	1987-88	Percent change 1986-87 to 1987-88
1	2	3	4	1	2	3	4
United States	263,168	284,563	8.1				
Alabama	2,666	6,987	162.1	Missouri	5,297	4,836	-8.7
Alaska	767	981	27.9	Montana	1,404	1,420	1.1
Arizona	2,623	2,752	4.9	Nebraska	2,750	2,666	-3.1
Arkansas	2,505	2,534	1.2	Nevada	844	871	3.2
California	23,700	29,138	22.9	New Hampshire	1,105	1,118	1.2
Colorado	1,489	2,126	42.8	New Jersey	12,506	13,095	4.7
Connecticut	4,506	4,793	6.4	New Mexico	1,249	1,268	1.5
Delaware	709	822	15.9	New York	5,410	3,265	-39.6
District of Columbia	370	398	7.6	North Carolina	5,541	6,682	20.6
Florida	8,947	10,487	17.2	North Dakota	1,008	1,021	1.3
Georgia	4,442	4,981	12.1	Ohio	7,205	7,359	2.1
Hawaii	581	521	-6.9	Oklahoma	5,635	5,388	-4.4
Idaho	1,270	974	-23.3	Oregon	1,177	1,297	10.2
Illinois	22,076	19,964	-9.6	Pennsylvania	7,134	9,533	33.6
Indiana	5,099	5,046	-1.0	Rhode Island	1,200	1,390	15.8
Iowa	4,929	5,072	2.9	South Carolina	5,671	6,973	23.0
Kansas	2,801	2,855	1.9	South Dakota	1,813	1,844	1.7
Kentucky	4,343	6,861	58.0	Tennessee	6,746	6,548	-2.9
Louisiana	5,130	5,162	0.6	Texas	20,137	20,989	4.2
Maine	2,148	2,865	33.4	Utah	2,093	2,158	3.1
Maryland	5,971	6,150	3.0	Vermont	487	500	2.7
Massachusetts	8,041	8,034	-0.1	Virginia	8,944	8,987	0.5
Michigan	12,517	12,268	-2.0	Washington	6,562	7,259	10.6
Minnesota	8,731	8,934	2.3	West Virginia	2,813	2,749	-2.3
Mississippi	2,841	4,854	70.0	Wisconsin	8,934	9,271	3.8
				Wyoming	301	417	38.5

NOTE—The Education of the Handicapped Act was amended in October 1986 to extend the right to a free and appropriate education to handicapped children ages 3 through 5 years. The States have until the 1990-91 school year to fully implement the law. As of October 1988, 22 States and the District of Columbia guaranteed a free appropriate public education to handicapped children age 3 or younger, and 22 more States planned to change by the 1990-91 school year.

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitation Services, Annual Report to Congress on the Implementation of The Education of the Handicapped Act, 10th and 11th editions (This table was prepared December 1988).

**Table 48.—State legislation on gifted and talented programs and number and percent of students receiving services in public elementary and secondary schools, by State: 1986-87**

State	State-mandated gifted and talented programs	Discretionary State-supported gifted and talented programs	Gifted and talented students receiving services	Gifted and talented students as a percent of enrollment	State	State-mandated gifted and talented programs	Discretionary State-supported gifted and talented programs	Gifted and talented students receiving services	Gifted and talented students as a percent of enrollment
1	2	3	4	5	1	2	3	4	5
Alabama	X		16,834	<sup>1</sup> 2.3	Montana		X	<sup>2</sup> 4,500	2.9
Alaska	X		<sup>2</sup> 3,854	<sup>3</sup> 3.7	Nebraska		X	<sup>2</sup> 19,000	7.1
Arizona	X		<sup>2</sup> 20,000	<sup>3</sup> 3.4	Nevada		X	5,321	3.3
Arkansas	X		<sup>2</sup> 19,928	4.6	New Hampshire			—	—
California		X	219,073	5.1	New Jersey		X	111,190	9.9
Colorado	X		—	—	New Mexico	X		<sup>2</sup> 5,063	<sup>1</sup> 1.8
Connecticut	( <sup>4</sup> )		<sup>2</sup> 19,000	4.1	New York	X		<sup>2</sup> 125,000	4.6
Delaware	( <sup>5</sup> )		3,815	4.1	North Carolina	X		62,329	4.5
Florida	X		47,463	3.0	North Dakota		X	1,365	0.7
Georgia	X		38,000	<sup>1</sup> 3.5	Ohio		X	<sup>2</sup> 50,000	2.8
Hawaii			<sup>2</sup> 15,193	9.2	Oklahoma	X		38,084	6.4
Idaho	X		<sup>3</sup> 2,510	1.2	Oregon		X	15,338	3.6
Illinois		X	<sup>2</sup> 86,000	4.0	Pennsylvania	X		<sup>2</sup> 78,000	4.7
Indiana		X	<sup>2</sup> 27,900	2.9	Rhode Island		X	<sup>2</sup> 5,200	3.9
Iowa	X		<sup>2</sup> 8,600	1.8	South Carolina	X		35,264	5.8
Kansas	X		<sup>2</sup> 11,786	3.0	South Dakota	X		<sup>2</sup> 4,791	3.8
Kentucky	X		<sup>2</sup> 25,000	<sup>1</sup> 3.9	Tennessee	X		13,852	1.7
Louisiana	X		<sup>2</sup> 14,000	1.9	Texas		X	113,000	<sup>1</sup> 3.5
Maine	X		—	—	Utah		X	22,000	5.5
Maryland		X	<sup>2</sup> 54,700	8.1	Vermont			—	—
Massachusetts		X	—	—	Virginia	X		<sup>6</sup> 81,741	8.5
Michigan		X	119,708	7.5	Washington		X	21,708	2.9
Minnesota		X	55,171	7.9	West Virginia	X		10,787	3.1
Mississippi		X	14,145	2.8	Wisconsin	X		—	—
Missouri		X	<sup>2</sup> 16,000	2.0	Wyoming		X	<sup>2</sup> 2,700	2.7

<sup>1</sup> Percent based on enrollment figures collected by the National Center for Education Statistics

<sup>2</sup> Estimated by reporting State

<sup>3</sup> Data for 1985-86

<sup>4</sup> Legislation only mandates that all gifted and talented students be identified

<sup>5</sup> Delaware does not have a State mandate for services to gifted and talented students, but it has gifted programs in all districts

<sup>6</sup> Fiscal year 1986

X=Indicates that legislation has been passed

—Data not available

NOTE—The District of Columbia was not included in the survey

SOURCE Council of State Directors of Programs for the Gifted, *The 1987 State of the States Gifted and Talented Education Report* (This table was prepared November 1987)

**Table 49.- Enrollment in grades 9 to 12 in public and private schools compared with population 14 to 17 years of age: 1889-90 to fall 1987**

(Numbers in thousands)

Year	Enrollment, grades 9 to 12 <sup>1</sup>			Population 14 to 17 years of age <sup>3</sup>	Enrollment as a percent of population 14 to 17 years of age
	All schools	Public schools	Private schools <sup>2</sup>		
1	2	3	4	5	6
1889-90 .....	298	203	95	5,355	5.6
1899-1900 .....	630	519	111	6,172	10.2
1909-10 .....	1,032	915	117	7,220	14.3
1919-20 .....	2,414	2,200	214	7,736	31.2
1929-30 .....	4,741	4,399	434	9,341	50.7
1939-40 .....	7,059	6,601	458	9,720	72.6
1949-50 .....	6,397	5,725	672	8,405	76.1
1951-52 .....	6,534	5,882	656	8,516	76.8
1953-54 .....	7,038	6,290	747	8,861	79.4
1955-56 .....	7,696	6,873	823	9,207	83.6
1957-58 .....	8,790	7,860	931	10,139	86.7
Fall 1959 .....	9,306	8,271	1,035	11,155	83.4
Fall 1961 .....	10,489	9,369	1,120	12,046	87.1
Fall 1963 .....	12,170	10,883	1,287	13,492	90.2
Fall 1965 .....	13,010	11,610	1,400	14,146	92.0
Fall 1966 .....	13,294	11,894	1,400	14,398	92.3
Fall 1967 .....	13,650	12,250	1,400	14,727	92.7
Fall 1968 .....	14,118	12,718	1,400	15,170	93.1
Fall 1969 .....	14,322	13,022	1,300	15,549	92.1
Fall 1970 .....	14,643	13,332	1,311	15,921	92.0
Fall 1971 .....	15,116	13,816	1,300	16,326	92.6
Fall 1972 .....	15,213	13,913	1,300	16,637	91.4
Fall 1973 .....	15,377	14,077	1,300	16,864	91.2
Fall 1974 .....	15,432	14,132	1,300	17,033	90.6
Fall 1975 .....	15,604	14,304	1,300	17,125	91.1
Fall 1976 .....	15,671	14,311	1,360	17,117	91.6
Fall 1977 .....	15,600	14,240	1,359	17,042	91.5
Fall 1978 .....	15,576	14,223	1,353	16,944	91.9
Fall 1979 .....	15,014	13,714	1,300	16,610	90.4
Fall 1980 .....	14,652	13,313	1,339	16,140	90.8
Fall 1981 .....	14,233	12,833	1,400	15,599	91.2
Fall 1982 .....	13,896	12,496	1,400	15,040	92.4
Fall 1983 .....	13,755	12,355	1,400	14,720	93.4
Fall 1984 .....	13,777	12,377	1,400	14,705	93.7
Fall 1985 .....	13,822	12,460	1,362	14,865	93.0
Fall 1986 .....	13,770	12,434	1,336	14,797	93.1
Fall 1987 <sup>4</sup> .....	13,367	12,138	1,229	14,467	92.4

<sup>1</sup> Includes a relatively small number of secondary ungraded and postgraduate students

<sup>2</sup> Data for most years are partly estimated

<sup>3</sup> Data for 1890 through 1950 and for 1960 are from the decennial censuses of population. The other figures are Bureau of the Census estimates as of July 1 preceding the opening of the school year

<sup>4</sup> Data are for 1927-28

<sup>5</sup> Data are for 1940-41

<sup>6</sup> Preliminary data

NOTE—Includes enrollment in public schools that are a part of State and local

school systems and also in most nonprofit-making private schools, both religiously affiliated and nonsectarian. Excludes enrollment in subcollegiate departments of institutions of higher education, residential schools for exceptional children, and Federal schools. Because of rounding, details may not add to totals. Some figures have been revised from previously published data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Statistics of Public Elementary and Secondary School Systems, Statistics of Nonpublic Elementary and Secondary Schools*; Common Core of Data survey, and *Projections of Education Statistics to 2000* (This table was prepared March 1989).

**Table 50.—Enrollment in foreign language courses compared with enrollment in grades 9 to 12 of public secondary schools: Fall 1948 to fall 1985**

[In thousands]

Language	Fall 1948	Fall 1960	Fall 1965	Fall 1968	Fall 1970	Fall 1974	Fall 1976	Fall 1978	Fall 1982	Fall 1985	Percent change in enrollment	
											1945 to 1976	1976 to 1985
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total enrollment, grades 9 to 12.....</b>	<b>15,602</b>	<b>8,589</b>	<b>11,610</b>	<b>12,718</b>	<b>13,332</b>	<b>14,132</b>	<b>14,310</b>	<b>14,125</b>	<b>12,496</b>	<b>12,460</b>	<b>23.3</b>	<b>-12.9</b>
<b>All foreign languages<sup>2</sup></b>												
Number enrolled.....	1,170	2,522	3,659	3,890	3,779	3,295	3,174	3,200	2,910	4,029	-13.3	26.9
Percent of all students.....	20.9	29.4	31.5	30.6	28.3	23.3	22.2	22.7	23.3	32.2	—	—
<b>Modern foreign languages</b>												
Number enrolled.....	741	1,867	3,068	3,518	3,514	3,127	3,023	3,048	2,740	3,852	-1.4	27.4
Percent of all students.....	13.2	21.7	26.4	27.7	26.4	22.1	21.1	21.6	21.9	30.9	—	—
<b>Spanish</b>												
Number enrolled.....	443	933	1,427	1,698	1,811	1,678	1,717	1,631	1,563	2,334	20.3	35.9
Percent of all students.....	7.9	10.9	12.3	13.4	13.6	11.9	12.0	11.5	12.5	18.7	—	—
<b>French</b>												
Number enrolled.....	254	744	1,251	1,328	1,231	978	888	856	858	1,134	-29.0	27.7
Percent of all students.....	4.5	8.7	10.8	10.4	9.2	6.9	6.2	6.1	6.9	9.1	—	—
<b>German</b>												
Number enrolled.....	43	151	328	423	411	393	353	331	267	312	7.5	-11.5
Percent of all students.....	0.8	1.8	2.8	3.3	3.1	2.8	2.5	2.3	2.1	2.5	—	—
<b>Russian</b>												
Number enrolled.....	—	10	27	24	20	15	11	9	6	6	-57.9	-46.7
Percent of all students.....	—	0.1	0.2	0.2	0.2	0.1	0.1	0.1	( <sup>3</sup> )	( <sup>3</sup> )	—	—
<b>Italian</b>												
Number enrolled.....	—	20	25	27	27	40	46	46	44	47	80.7	3.1
Percent of all students.....	—	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	—	—
<b>Other modern foreign languages<sup>4</sup></b>												
Number enrolled.....	1	9	9	18	15	23	9	176	3	18	-9.0	—
Percent of all students.....	( <sup>3</sup> )	0.1	0.1	0.1	0.1	0.2	0.1	1.2	( <sup>3</sup> )	0.1	—	—
<b>Latin</b>												
Number enrolled.....	429	655	591	372	265	167	150	152	170	177	-74.6	17.6
Percent of all students.....	7.7	7.6	5.1	2.9	2.0	1.2	1.1	1.1	1.4	1.4	—	—

<sup>1</sup> Estimated.

<sup>2</sup> Includes enrollment in ancient Greek (not shown separately). Fewer than 1,000 students were enrolled in this language in each of the years shown.

<sup>3</sup> Less than 0.05 percent.

<sup>4</sup> Includes students enrolled in unspecified modern foreign languages. In 1978, a relatively large number of students were not identified by field of study.

—Data not reported, not available, or not applicable.

NOTE—Because of rounding, details may not add to totals.

SOURCE U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, American Council on the Teaching of Foreign Languages, "Report of Foreign Language Enrollment in Public Secondary Schools, Fall 1985" (This table was prepared October 1987).



**Table 51.—Summary statistics on private elementary and secondary schools, by level and affiliation of school:  
Fall 1983**

Level and affiliation of school	Schools	Enrollment in thousands	Average school size	Staff, <sup>1</sup> in thousands of full- time equivalents		Pupils per staff member	Teachers as a percent of total staff	Pupils per teacher
				Total	Teachers			
1	2	3	4	5	6	7	8	9
<b>All private schools .. . . .</b>	<b>27,634</b>	<b>5,715</b>	<b>206</b>	<b>542</b>	<b>337</b>	<b>10.5</b>	<b>62.2</b>	<b>16.9</b>
Elementary schools <sup>2</sup> .. . . .	15,631	3,240	207	235	158	13.8	67.2	20.5
Catholic .. . . .	7,697	2,260	286	138	95	16.4	68.5	23.9
Other religiously affiliated .. . . .	5,139	630	123	57	38	11.1	66.6	16.6
Not religiously affiliated .. . . .	2,624	351	134	40	25	8.7	63.0	13.9
Secondary schools <sup>3</sup> .. . . .	2,621	1,047	399	104	65	10.0	62.0	16.2
Catholic .. . . .	1,490	848	569	69	47	12.3	67.6	18.2
Other religiously affiliated .. . . .	669	106	158	18	9	6.0	53.5	11.3
Not religiously affiliated .. . . .	462	93	201	18	9	5.2	48.6	10.7
Combined elementary and secondary schools <sup>4</sup> .. . . .	5,241	1,130	216	127	81	8.9	63.5	14.0
Catholic .. . . .	191	70	366	7	4	9.8	59.0	16.8
Other religiously affiliated .. . . .	3,185	556	175	57	37	9.7	64.0	15.2
Not religiously affiliated .. . . .	1,865	504	270	63	40	8.0	53.5	12.6
Other schools <sup>5</sup> .. . . .	4,201	297	71	76	34	3.9	44.8	8.7
Catholic .. . . .	161	14	87	6	2	2.4	34.4	7.0
Other religiously affiliated .. . . .	1,002	64	64	9	5	7.4	57.8	12.8
Not religiously affiliated .. . . .	3,037	220	72	62	27	3.6	44.0	8.1

<sup>1</sup>Includes principals, assistant principals, teachers, guidance counselors, librarians and media specialists, teacher aides, and other professional and nonprofessional staff

<sup>2</sup>Includes schools beginning in prekindergarten to grade 6 and ending in grade 8 or under

<sup>3</sup>Includes schools having no grade below grade 7

<sup>4</sup>Includes schools with grade spans comprising both elementary and secondary levels

<sup>5</sup>Includes special education schools, alternative schools, and vocational schools

NOTE—Data are based upon a sample survey and may not be strictly comparable with data reported elsewhere. Includes only schools which offer first grade or above. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "1983-84 Private School Survey" (This table was prepared September 1986)

**Table 52.—Characteristics of private school teachers,<sup>1</sup> by level and affiliation of school: 1985-86**

Teacher characteristics	All private schools	Level of school				Religious affiliation of school		
		Elementary	Secondary	Combined	Other	Catholic <sup>2</sup>	Other religiously affiliated <sup>2</sup>	Not religiously affiliated
1	2	3	4	5	6	7	8	9
<b>Number of teachers, in thousands</b>	<b>404</b>	<b>190</b>	<b>83</b>	<b>96</b>	<b>35</b>	<b>185</b>	<b>127</b>	<b>92</b>
<b>Sex (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	—	—	—
Male	24.1	10.3	48.6	29.9	25.4	—	—	—
Female	75.9	89.7	51.5	70.1	74.6	—	—	—
<b>Status (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Full-time teachers	77.9	77.1	82.9	76.7	74.3	83.2	71.7	75.9
Other teachers	22.2	22.9	17.1	23.3	25.7	16.8	28.3	24.1
<b>Highest degree (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No degree	3.5	3.5	0.9	5.5	4.3	1.6	6.5	3.2
Associate	1.7	2.2	0.2	2.1	1.7	1.3	2.3	1.7
Bachelor's	64.0	74.1	48.5	58.0	62.5	66.7	63.6	59.3
Master's	29.4	19.8	48.6	32.0	29.9	29.5	26.4	33.6
Doctor's	1.3	0.5	2.0	2.5	1.6	0.9	1.3	2.3
<b>Age (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 30 years	24.0	25.2	18.0	22.3	36.3	21.9	27.2	23.7
30 to 39 years	37.6	36.2	39.2	38.1	40.4	36.7	37.8	39.2
40 to 49 years	23.2	23.2	25.0	25.5	13.0	23.6	21.8	24.6
50 to 59 years	10.5	10.3	12.3	10.5	7.9	11.8	9.6	9.5
60 years or older	4.6	5.1	5.6	3.6	2.4	6.0	3.6	3.1
<b>Race/ethnicity (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White	92.2	91.1	95.0	92.6	91.1	93.5	91.9	90.2
Black	3.8	4.8	1.4	3.3	5.0	2.5	4.0	5.9
Hispanic	2.9	2.9	2.9	3.3	2.4	3.4	2.9	2.2
Other	1.1	1.3	0.7	0.8	1.5	0.7	1.1	1.8
<b>Years of teaching experience (percent)</b>								
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 years	24.8	25.2	18.6	23.7	40.6	20.8	27.5	29.4
5 to 9 years	27.0	27.7	22.6	29.2	27.5	24.5	30.7	26.6
10 years or more	48.2	47.1	58.8	47.1	31.9	54.8	41.8	43.6
<b>Average salary<sup>3</sup></b>								
Base salary	\$14,400	\$12,900	\$17,100	\$14,900	\$14,900	\$13,900	\$13,600	\$16,500
Earned income <sup>4</sup>	15,600	13,700	19,000	16,500	16,600	15,100	14,800	18,000

<sup>1</sup> Tabulation includes full-time and part-time teachers

<sup>2</sup> Includes schools with a religious orientation or religious affiliation

<sup>3</sup> Average salary of full-time teachers only

<sup>4</sup> Includes base salary, additional compensation for additional duties, summer school salary, and nonschool-related income

—Data not available

data reported elsewhere. Elementary schools have no grade higher than 8. Secondary schools have no grade lower than 7. Combined schools have any other grade spans. Other schools includes special education, alternative, and vocational schools. Includes only schools which offer first grade or above. Data in other tables reflect full-time-equivalent teachers. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "1985-86 Private School Survey" (This table was prepared October 1986)

NOTE: Data are based on a sample survey and may not be strictly comparable with

Table 53.—Characteristics of private schools, by level and affiliation of school: 1985-86

[Percentage distribution]

School characteristics	All private schools	Level of school				Religious affiliation of school		
		Elementary	Secondary	Combi	Other	Catholic <sup>1</sup>	Other religiously affiliated <sup>1</sup>	Not religiously affiliated
1	2	3	4	5	6	7	8	9
Number of schools .....	25,616	15,303	2,438	4,949	2,926	9,911	10,771	4,934
Number of school days in 1984-85								
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 180 days .....	35.7	37.4	33.1	43.5	15.5	32.8	42.4	26.7
180 days .....	49.8	50.0	57.3	47.8	46.4	57.3	48.8	37.2
More than 180 days .....	14.5	12.6	9.7	8.8	38.2	9.9	8.8	36.2
Number of hours in session each day, 1985-86								
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
5 hours or less .....	5.6	4.0	16.0	2.3	10.7	8.6	1.4	8.7
More than 5 hours to 6 hours .....	46.2	51.6	41.5	27.3	53.5	62.1	32.0	45.0
More than 6 hours to 7 hours .....	42.4	41.5	37.2	53.0	33.9	27.5	57.1	40.3
More than 7 hours .....	5.8	2.9	5.4	17.4	2.0	1.9	9.4	6.0
Years in operation								
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
10 years or less .....	25.5	20.2	9.9	41.4	39.2	1.7	45.2	30.2
11 to 24 years .....	24.2	16.5	27.5	36.7	40.8	14.2	25.5	41.6
25 years or more .....	50.3	63.3	62.6	21.9	20.0	84.1	29.3	28.2
Mean enrollment per school .....	234	218	541	211	94	363	142	174
Minority enrollment, 1985-86								
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
None .....	12.1	13.9	2.5	16.2	3.3	7.2	21.8	0.6
Less than 5 percent .....	26.8	31.2	25.3	20.9	15.4	38.1	18.7	21.0
5 to 14 percent .....	22.4	19.8	36.1	23.4	22.9	20.4	20.9	29.4
15 to 24 percent .....	10.6	7.7	14.4	11.6	21.1	8.9	12.7	9.8
25 to 49 percent .....	10.0	7.8	11.8	5.1	28.6	7.2	8.4	19.3
50 to 74 percent .....	8.1	7.1	3.7	17.2	2.1	3.8	10.9	11.0
75 to 89 percent .....	1.8	2.1	0.7	1.0	2.5	2.5	1.2	1.7
90 percent or more .....	8.1	10.4	5.4	4.6	4.1	11.5	5.4	7.1
Tuition group								
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$500 .....	13.0	18.8	4.8	5.4	1.1	25.6	6.3	1.1
\$500 to \$1,000 .....	27.9	35.1	4.4	29.6	5.0	37.1	30.8	1.0
\$1,001 to \$1,500 .....	26.4	29.1	34.4	22.7	9.3	25.7	30.7	17.6
\$1,501 to \$2,500 .....	14.6	8.3	28.7	18.0	31.8	7.7	20.4	16.0
More than \$2,500 .....	18.2	8.8	27.8	24.4	52.9	3.9	11.9	64.3

<sup>1</sup> Includes schools with a religious orientation or religious affiliation

only schools which offer first grade or above. Because of rounding, details may not add to totals

NOTE.—Data are based on a sample survey and may not be strictly comparable with data reported elsewhere. Elementary schools have no grade higher than 8. Secondary schools have no grade lower than 7. Combined schools have any other grade spans. Other schools include special education, alternative, and vocational schools. Includes

SOURCE: U.S. Department of Education, National Center for Education Statistics, "1985-86 Private School Survey" (This table was prepared October 1986)

**Table 54.—Enrollment, teachers, and high school graduates in private elementary and secondary schools,<sup>1</sup> by State:  
Fall 1980 and 1979–80**

State	Enrollment, fall 1980			Teachers, fall 1980			High school graduates, 1979–80		
	Total	Catholic	Other private	Total	Catholic	Other private	Total	Catholic	Other private
1	2	3	4	5	6	7	8	9	10
<b>United States<sup>2</sup></b> .....	<b>4,961,755</b>	<b>3,136,209</b>	<b>1,823,546</b>	<b>277,413</b>	<b>143,827</b>	<b>133,586</b>	<b>294,536</b>	<b>192,476</b>	<b>102,060</b>
Alabama .....	62,669	14,720	47,949	3,625	668	2,957	3,877	668	3,209
Alaska .....	3,800	1,029	2,771	284	76	208	175	57	118
Arizona .....	40,261	18,306	21,955	2,291	778	1,513	1,802	992	810
Arkansas .....	18,423	7,223	11,200	1,119	376	743	1,114	493	621
California .....	513,709	262,690	251,019	26,913	10,097	16,816	24,862	15,910	8,952
Colorado .....	35,250	17,120	18,130	2,342	892	1,450	1,860	850	1,010
Connecticut .....	88,404	61,760	26,644	5,887	2,880	3,007	8,568	4,688	3,880
Delaware .....	23,374	14,725	8,649	1,361	668	693	1,466	1,080	386
District of Columbia ..	21,203	12,214	8,989	1,624	646	978	1,614	1,075	539
Florida .....	204,988	74,268	130,720	11,779	3,245	8,534	10,355	4,786	5,569
Georgia .....	82,505	13,297	69,208	5,302	617	4,685	5,272	841	4,431
Hawaii .....	37,147	15,059	22,088	2,051	626	1,425	2,628	921	1,707
Idaho .....	5,839	2,189	3,650	312	108	204	314	134	180
Illinois .....	349,463	278,240	71,223	17,126	12,075	5,051	20,338	17,684	2,654
Indiana .....	100,234	63,237	36,997	5,271	3,029	2,242	5,359	3,531	1,828
Iowa .....	55,227	44,790	10,437	3,059	2,405	654	3,837	3,307	530
Kansas .....	33,889	25,610	8,279	1,990	1,301	689	1,811	1,475	336
Kentucky .....	69,728	50,226	19,502	3,843	2,497	1,346	4,390	3,299	1,091
Louisiana .....	158,921	112,099	46,822	8,190	5,143	3,047	9,275	6,700	2,575
Maine .....	17,540	6,733	10,807	1,460	331	1,129	1,835	215	1,620
Maryland .....	106,447	68,168	38,279	6,541	3,442	3,099	6,851	4,645	2,206
Massachusetts .....	138,333	104,720	33,613	9,323	5,153	4,170	12,632	8,145	4,487
Michigan .....	211,871	129,992	81,879	10,050	5,517	4,533	13,063	8,296	4,767
Minnesota .....	88,966	64,418	24,548	4,876	3,264	1,612	4,403	3,004	1,399
Mississippi .....	50,116	11,342	38,774	3,032	605	2,427	3,722	572	3,150
Missouri .....	126,319	95,194	31,125	7,047	4,862	2,185	7,371	5,890	1,481
Montana .....	7,668	4,684	2,984	491	274	217	453	328	125
Nebraska .....	38,574	30,169	8,405	2,329	1,771	558	2,842	2,612	230
Nevada .....	6,599	4,305	2,294	316	171	145	299	288	11
New Hampshire .....	20,721	11,239	9,482	1,499	557	942	2,151	677	1,474
New Jersey .....	229,878	189,876	40,002	12,774	8,828	3,946	14,043	11,494	2,549
New Mexico .....	18,027	9,217	8,810	1,162	426	736	931	315	616
New York .....	579,670	425,981	153,689	31,618	18,285	13,333	32,366	24,643	7,723
North Carolina .....	58,078	9,323	48,755	3,919	417	3,502	2,781	310	2,471
North Dakota .....	10,659	8,230	2,429	645	479	166	714	575	139
Ohio .....	268,357	227,888	40,469	13,878	11,018	2,860	15,734	13,011	2,033
Oklahoma .....	16,335	7,381	8,954	1,126	403	723	1,035	491	544
Oregon .....	27,828	14,357	13,471	1,626	754	872	1,684	835	849
Pennsylvania .....	402,058	314,367	87,691	20,705	13,416	7,289	26,033	20,756	5,277
Rhode Island .....	29,875	25,015	4,860	1,748	1,132	616	2,102	1,685	417
South Carolina .....	49,619	7,555	42,064	3,218	367	2,851	2,693	332	2,361
South Dakota .....	10,898	6,882	4,016	815	437	378	639	400	239
Tennessee .....	71,617	15,185	56,432	4,623	817	3,806	5,226	1,241	3,985
Texas .....	148,534	79,766	68,768	9,242	4,165	5,077	7,089	3,929	3,160
Utah .....	5,555	3,055	2,500	309	121	188	479	210	269
Vermont .....	7,555	4,082	3,473	668	231	437	921	278	643
Virginia .....	75,069	23,060	52,009	5,208	1,135	4,073	4,473	1,252	3,221
Washington .....	55,950	27,356	28,594	3,168	1,265	1,903	3,097	1,566	1,531
West Virginia .....	12,608	8,466	4,142	742	467	275	850	597	253
Wisconsin .....	162,381	110,014	52,347	8,654	5,508	3,146	6,950	4,703	2,247
Wyoming .....	3,036	1,387	1,649	232	82	150	157	—	157

<sup>1</sup> Includes special education, vocational/technical, and alternative schools

<sup>2</sup> Data represent an undercount of approximately 5 percent because some schools were not included in the survey universe

—Data not available

NOTE—Tabulation includes only schools which offer first grade or above

SOURCE U.S. Department of Education, National Center for Education Statistics, "Private Elementary and Secondary School Universe" survey (This table was prepared May 1986)

Table 55.—Summary statistics on Catholic elementary and secondary schools, by level: 1919–20 to 1987–88

School year	Number of schools			Enrollment			Instructional staff <sup>1</sup>		
	Total	Elementary	Secondary	Total	Elementary	Secondary	Total	Elementary	Secondary
1	2	3	4	5	6	7	8	9	10
1919–20.....	8,103	6,551	1,552	1,925,521	1,795,673	129,848	49,516	41,592	7,924
1929–30.....	10,046	7,923	2,123	2,464,467	2,222,598	241,869	72,552	58,245	14,307
1939–40.....	10,049	7,944	2,105	2,396,305	2,035,182	361,123	81,057	60,081	20,976
1949–50.....	10,778	8,589	2,189	3,066,367	2,560,815	505,572	94,295	66,525	27,770
Fall 1960.....	12,893	10,501	2,392	5,253,791	4,373,422	880,369	151,902	108,169	43,733
Fall 1962.....	13,148	10,646	2,502	5,494,347	4,485,221	1,009,126	159,079	112,199	46,880
Fall 1964.....	13,249	10,832	2,417	5,600,519	4,533,771	1,066,748	171,198	117,854	53,344
1967–68.....	12,627	10,350	2,277	5,198,326	4,105,805	1,092,521	187,800	<sup>2</sup> 129,800	<sup>2</sup> 58,000
1968–69.....	12,215	10,113	2,102	4,940,600	3,859,709	1,080,891	190,600	<sup>2</sup> 131,200	<sup>2</sup> 59,400
1969–70.....	11,771	9,695	2,076	4,658,098	3,607,168	1,050,930	195,400	<sup>2</sup> 133,200	<sup>2</sup> 62,200
1970–71.....	11,350	9,370	1,980	4,363,566	3,355,478	1,008,088	166,208	112,750	53,458
1971–72.....	10,841	8,982	1,859	4,034,785	3,075,785	959,000	159,083	106,686	52,397
1972–73.....	10,504	8,761	1,743	3,790,000	2,871,000	919,000	155,964	105,384	50,580
1973–74.....	10,317	8,589	1,728	3,621,000	2,714,000	907,000	153,883	102,785	51,098
1974–75.....	10,127	8,437	1,690	3,514,000	2,602,000	902,000	150,179	100,011	50,168
1975–76.....	9,993	8,340	1,653	3,415,000	2,525,000	890,000	149,276	99,319	49,957
1976–77.....	9,904	8,281	1,623	3,365,000	2,483,000	882,000	150,610	100,016	50,594
1977–78.....	9,797	8,204	1,593	3,289,000	2,421,000	868,000	150,648	99,739	50,909
1978–79.....	9,723	8,159	1,564	3,218,000	2,365,000	853,000	147,948	98,539	49,409
1979–80.....	9,640	8,100	1,540	3,139,000	2,293,000	846,000	147,294	97,724	49,570
1980–81.....	9,559	8,043	1,516	3,106,000	2,269,000	837,000	145,777	96,739	49,038
1981–82.....	9,494	7,996	1,498	3,094,000	2,266,000	828,000	146,172	96,847	49,325
1982–83.....	9,432	7,950	1,482	3,026,000	2,225,000	801,000	146,460	97,337	49,123
1983–84 <sup>3</sup> .....	9,380	7,917	1,463	2,969,000	2,179,000	790,000	146,913	98,191	48,322
1984–85 <sup>3</sup> .....	9,325	7,876	1,449	2,903,000	2,119,000	784,000	149,888	99,820	50,068
1985–86 <sup>3</sup> .....	9,220	7,790	1,430	2,821,000	2,061,000	760,000	146,594	96,741	49,853
1986–87 <sup>3</sup> .....	9,102	7,693	1,409	2,726,000	1,998,000	728,000	141,930	93,554	48,376
1987–88.....	8,992	7,601	1,391	2,623,000	1,942,000	681,000	139,887	93,199	46,688

<sup>1</sup> Beginning in 1970–71, includes full-time teaching staff only<sup>2</sup> Includes estimates for the nonreporting schools<sup>3</sup> Data revised from previously published data

NOTE.—Data reported by the National Catholic Educational Association and data reported by the National Center for Education Statistics are not directly comparable because survey procedures and definitions differ

SOURCE National Catholic Educational Association, *A Statistical Report on Catholic Elementary and Secondary Schools for the Years 1967–68 to 1989–90*, as compiled from the *Official Catholic Directory* (copyright © 1970 by the National Catholic Educational Association), *Catholic Schools in America* (1978 edition, copyright © 1978 by the Franklin Press), and *United States Catholic Elementary and Secondary Schools, 1987–1988* (copyright © 1988 by the National Catholic Educational Association. All rights reserved.) (This table was prepared December 1988)

Table 56.—Public and private elementary and secondary teachers and pupil-teacher ratios, by level: Fall 1955 to fall 1990

Year	Public and private elementary and secondary schools			Public elementary and secondary schools			Private elementary and secondary schools		
	Kindergarten to grade 12	Elementary	Secondary	Kindergarten to grade 12	Elementary	Secondary	Kindergarten to grade 12	Elementary	Secondary
1	2	3	4	5	6	7	8	9	10
Number of teachers, in thousands									
1955	1,286	827	459	1,141	733	408	145	194	151
1956	1,354	854	499	1,199	751	447	155	103	152
1957	1,424	898	526	1,259	786	473	165	112	153
1958	1,475	931	544	1,306	815	491	169	116	153
1959	1,531	952	580	1,355	832	524	176	120	156
1960	1,600	991	609	1,408	858	550	192	133	59
1961	1,643	992	651	1,461	869	592	182	123	59
1962	1,708	1,021	686	1,508	886	621	200	135	65
1963	1,790	1,050	739	1,578	908	669	212	142	70
1964	1,865	1,086	779	1,648	940	708	217	146	71
1965	1,933	1,112	822	1,710	965	746	223	147	76
1966	2,012	1,153	859	1,789	1,006	783	223	147	76
1967	2,079	1,188	891	1,855	1,040	815	224	148	76
1968	2,161	1,223	938	1,936	1,076	860	225	147	78
1969	2,242	1,258	965	2,013	1,107	907	229	151	78
1970	2,288	1,281	1,007	2,055	1,128	927	233	153	80
1971	2,293	1,263	1,030	2,063	1,111	952	230	152	78
1972	2,334	1,294	1,040	2,103	1,140	963	231	154	77
1973	2,369	1,306	1,063	2,133	1,149	984	236	157	79
1974	2,410	1,331	1,079	2,165	1,167	998	245	164	81
1975	2,451	1,352	1,099	2,196	1,180	1,016	255	172	83
1976	2,454	1,349	1,105	2,186	1,166	1,020	268	183	85
1977	2,488	1,375	1,113	2,209	1,185	1,024	279	190	89
1978	2,478	1,375	1,103	2,206	1,190	1,016	272	185	87
1979	2,459	1,378	1,081	2,183	1,190	993	276	188	89
1980	2,485	1,401	1,084	2,184	1,189	995	301	212	89
1981	2,438	1,380	1,057	2,125	1,159	965	313	221	92
1982	2,446	1,402	1,044	2,121	1,171	950	325	231	94
1983	2,463	1,418	1,045	2,126	1,178	948	337	240	97
1984	2,508	1,448	1,060	2,168	1,205	963	340	243	97
1985	2,550	1,483	1,067	2,207	1,237	970	343	246	97
1986 <sup>2</sup>	2,592	1,517	1,075	2,244	1,267	977	348	250	98
1987 <sup>3</sup>	2,627	1,551	1,076	2,279	1,297	982	348	254	94
1988 <sup>3</sup>	2,649	1,567	1,081	2,304	1,316	987	345	251	94
1989 <sup>4</sup>	—	—	—	2,340	1,336	1,003	—	—	—
1990 <sup>4</sup>	—	—	—	2,367	1,365	1,001	—	—	—
Pupil-teacher ratios									
1955	27.4	31.4	20.3	26.9	30.2	20.9	31.7	40.4	15.7
1956	27.0	30.7	20.8	26.5	29.6	21.2	31.6	38.8	17.3
1957	26.8	30.3	20.9	26.2	29.1	21.3	31.5	38.4	17.0
1958	26.8	30.0	21.4	26.1	28.7	21.7	32.5	38.8	18.9
1959	26.7	30.0	21.2	26.0	28.7	21.5	32.2	38.7	18.5
1960	26.4	29.4	21.4	25.8	28.4	21.7	30.7	36.1	18.6
1961	26.4	29.6	21.5	25.6	28.3	21.7	32.5	39.0	19.0
1962	26.3	29.5	21.4	25.7	28.5	21.7	30.5	36.3	18.5
1963	26.0	29.3	21.2	25.5	28.4	21.5	29.7	35.2	18.6
1964	25.6	28.7	21.2	25.1	27.9	21.5	29.0	34.2	18.3
1965	25.1	28.4	20.6	24.7	27.6	20.8	28.3	33.3	18.4
1966	24.5	27.7	20.2	24.1	26.9	20.3	27.8	32.7	18.4
1967	24.0	26.9	20.1	23.7	26.3	20.3	26.8	31.1	18.4
1968	23.5	26.0	20.2	23.2	25.4	20.4	25.8	29.9	17.9
1969	22.8	25.2	19.8	22.7	24.8	20.0	24.0	27.8	16.7
1970	22.4	24.6	19.6	22.3	24.4	19.9	23.0	26.5	16.4
1971	22.4	25.0	19.1	22.3	24.9	19.3	22.6	25.7	16.7
1972	21.7	24.0	19.0	21.8	24.0	19.1	21.6	24.0	16.9
1973	21.3	23.1	19.1	21.3	23.0	19.3	21.2	23.6	16.5
1974	20.8	22.6	18.5	20.8	22.6	18.7	20.4	22.6	16.0
1975	20.3	21.7	18.6	20.4	21.7	18.8	19.6	21.5	15.7
1976	20.2	21.7	18.3	20.3	21.8	18.5	19.3	20.9	15.8
1977	19.6	20.9	17.9	19.7	21.1	18.2	18.4	20.0	15.1
1978	19.2	20.9	17.1	19.3	21.0	17.3	18.7	20.2	15.6
1979	19.0	20.5	17.0	19.1	20.6	17.2	18.1	19.7	14.8
1980	18.6	20.1	16.8	18.8	20.3	16.9	17.7	18.8	15.0
1981	18.7	20.2	16.7	18.9	20.5	16.9	17.6	18.6	15.2
1982	18.5	20.0	16.5	18.7	20.4	16.6	17.2	18.2	14.9
1983	18.3	20.0	16.0	18.5	20.4	16.2	17.0	18.0	14.4
1984	17.9	19.6	15.6	18.1	20.0	15.7	16.8	17.7	14.4
1985	17.7	19.2	15.5	17.9	19.6	15.7	16.2	17.1	14.0
1986 <sup>2</sup>	17.5	18.7	15.8	17.8	19.1	16.0	15.7	16.5	13.6
1987 <sup>3</sup>	17.3	18.3	15.7	17.6	18.7	16.0	15.4	16.2	13.1
1988 <sup>3</sup>	17.2	18.7	15.0	17.4	19.2	15.2	15.2	16.1	12.8
1989 <sup>4</sup>	—	—	—	17.2	19.1	14.7	—	—	—
1990 <sup>4</sup>	—	—	—	17.2	19.1	14.7	—	—	—

<sup>1</sup> Estimated

<sup>2</sup> Data have been revised from previously published figures

<sup>3</sup> Preliminary

<sup>4</sup> Projected

—Data not available

NOTE.—Data for teachers are expressed in full-time equivalents. Distribution of unclassified teachers by level is estimated. Distribution of elementary and secondary

school teachers by level is determined by reporting units. Kindergarten includes a relatively small number of nursery school teachers and students. Because of rounding, details may not add to totals.

SOURCE.—U.S. Department of Education, National Center for Education Statistics, *Statistics of Public Elementary and Secondary Day Schools, Common Core of Data survey and Projections of Education Statistics*, unpublished tabulations (This table was prepared March 1989).

Table 57.—Public elementary and secondary teachers, by level and State: Fall 1984 to fall 1988

[In full-time equivalents]

State or other area	Number of teachers, fall 1984	Number of teachers, fall 1985	Number of teachers, fall 1986 <sup>1</sup>				Number of teachers, fall 1987				Estimated number of teachers, fall 1988
			Total	Elementary	Secondary	Unclassified	Total	Elementary	Secondary	Unclassified	
1	2	3	4	5	6	7	8	9	10	11	12
<b>United States</b>	<b>2,168,298</b>	<b>2,206,884</b>	<b>2,244,445</b>	<b>1,155,771</b>	<b>916,096</b>	<b>172,578</b>	<b>2,278,813</b>	<b>1,210,841</b>	<b>900,336</b>	<b>167,836</b>	<b>2,303,743</b>
Alabama	36,647	36,138	36,971	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>3</sup> )	37,716	20,239	17,477	—	* 38,819
Alaska	6,127	6,814	6,448	2,524	3,924	—	6,113	3,011	2,990	112	6,350
Arizona	26,900	27,935	29,104	21,083	8,021	—	30,707	22,322	8,385	—	* 31,911
Arkansas	23,985	24,767	24,944	12,217	12,204	523	25,572	12,148	12,106	1,318	26,493
California	178,310	184,151	190,484	115,110	75,374	—	195,864	139,435	56,195	234	( <sup>2</sup> )
Colorado	28,824	29,894	30,704	15,694	15,010	—	31,168	15,506	15,662	—	31,708
Connecticut	32,618	32,903	34,252	12,142	16,729	5,381	35,050	12,374	16,900	5,776	35,800
Delaware	5,577	5,745	5,883	2,837	3,046	—	5,951	2,907	3,044	—	6,006
District of Columbia	5,889	6,137	5,984	3,291	2,031	662	6,232	2,665	2,565	1,002	6,572
Florida	86,264	88,973	91,969	40,356	36,438	15,173	95,857	41,736	37,470	16,851	99,394
Georgia	56,294	57,374	57,881	31,012	19,703	7,166	62,280	33,847	21,407	7,026	60,380
Hawaii	7,078	7,276	7,291	3,978	3,130	183	7,684	4,230	3,280	174	* 7,950
Idaho	10,147	10,255	10,234	4,850	4,532	852	10,258	5,337	4,814	107	10,350
Illinois	102,013	102,657	104,609	58,327	30,254	16,026	105,217	58,844	30,098	16,275	102,701
Indiana	51,308	51,976	52,896	24,246	23,554	5,096	53,749	25,804	23,699	4,248	54,000
Iowa	31,882	31,770	30,958	14,634	15,385	939	30,873	15,917	14,017	939	* 31,299
Kansas	29,331	26,686	27,064	13,413	10,785	2,866	27,317	13,911	10,598	2,808	27,859
Kentucky	32,850	33,506	34,507	22,895	11,612	—	35,239	23,350	11,889	—	* 35,518
Louisiana	42,180	42,609	42,929	23,615	12,502	6,812	42,920	23,615	12,512	6,793	* 43,350
Maine	13,261	14,226	13,685	7,654	4,428	1,603	14,204	9,186	5,018	—	* 15,142
Maryland	38,030	38,433	39,491	19,127	20,364	—	40,093	19,891	20,202	—	40,300
Massachusetts	56,504	58,845	59,066	18,931	32,343	6,792	59,517	19,673	32,574	7,270	( <sup>2</sup> )
Michigan	81,185	82,193	83,130	43,037	20,195	19,898	80,081	43,480	20,270	16,351	( <sup>2</sup> )
Minnesota	40,108	41,314	40,957	20,089	20,868	—	42,132	21,803	20,329	( <sup>2</sup> )	42,540
Mississippi	25,388	26,102	26,319	14,890	11,329	—	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	27,215
Missouri	47,366	48,170	48,922	24,973	23,365	564	49,632	25,242	23,512	878	50,000
Montana	9,597	9,705	9,838	6,665	3,153	—	9,659	6,564	3,095	—	( <sup>2</sup> )
Nebraska	17,656	17,667	17,748	9,485	8,263	—	17,713	9,605	8,108	—	* 17,899
Nevada	7,496	7,751	7,508	4,216	3,692	—	8,348	4,579	3,789	—	8,068
New Hampshire	10,065	10,104	10,300	6,206	4,094	—	10,363	6,257	4,106	—	10,466
New Jersey	73,774	74,236	75,558	38,793	28,209	8,556	78,335	39,130	29,433	9,772	79,785
New Mexico	14,538	14,781	14,876	8,249	4,400	2,227	15,175	8,502	4,386	2,287	15,669
New York	163,044	165,573	168,940	75,944	68,733	24,263	170,236	78,455	67,372	24,409	172,000
North Carolina	56,084	57,638	58,103	29,506	20,512	8,085	59,771	30,483	21,067	6,221	60,912
North Dakota	7,794	7,796	7,779	5,025	2,754	—	7,832	4,956	2,674	—	* 6,817
Ohio	98,061	98,264	98,894	53,135	45,759	—	99,641	54,642	44,999	—	99,026
Oklahoma	34,894	35,752	35,041	15,892	15,324	3,825	34,515	15,950	14,991	3,574	34,400
Oregon	24,444	24,605	24,611	13,800	10,049	768	24,911	13,929	10,193	789	* 25,148
Pennsylvania	101,484	101,685	102,950	44,298	47,861	10,834	103,307	44,837	47,305	11,165	102,450
Rhode Island	8,752	8,844	8,716	3,994	3,783	1,139	8,934	3,974	3,761	1,199	* 9,232
South Carolina	33,764	34,645	35,349	22,905	12,444	—	35,701	23,138	12,583	—	35,400
South Dakota	8,579	8,340	6,031	4,693	3,281	57	8,172	4,780	3,339	53	* 8,256
Tennessee	39,636	40,023	41,103	25,592	15,504	—	42,082	26,462	15,620	—	44,000
Texas	172,865	181,051	186,385	95,480	86,808	4,097	187,159	96,826	86,211	4,122	189,974
Utah	16,169	17,126	17,752	9,008	6,410	2,334	17,124	9,251	5,916	1,957	17,892
Vermont	6,327	6,397	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6,938	2,876	3,244	818	7,118
Virginia	57,498	57,339	58,141	32,538	25,097	506	59,928	33,919	25,525	484	60,615
Washington	35,796	36,202	37,065	17,793	15,719	3,555	36,344	18,677	16,005	3,662	38,625
West Virginia	22,732	22,733	22,931	10,839	8,460	3,632	22,702	10,956	7,985	3,761	22,000
Wisconsin	47,082	46,482	47,039	23,948	17,277	5,814	47,721	28,344	16,854	2,523	47,900
Wyoming	7,191	7,296	7,201	4,270	2,124	807	6,798	2,427	3,491	680	6,481
<b>Outlying areas</b>											
American Samoa	—	—	—	401	185	37	656	444	179	33	—
Guam	—	1,329	1,430	726	677	27	1,407	705	675	27	—
Northern Mariana Islands	310	—	—	—	—	—	305	202	103	—	—
Puerto Rico	32,520	32,683	32,361	17,494	13,035	1,832	33,069	17,814	13,314	1,941	—
Virgin Islands	1,665	1,631	1,606	788	680	138	1,590	788	688	114	—

<sup>1</sup> Data have been revised from previously published figures<sup>2</sup> U.S. total includes imputation for nonreporting State or States<sup>3</sup> Data not reported<sup>4</sup> Actual fall 1988 data

— Data not available, not reported, or not applicable

NOTE—Distribution of elementary and secondary teachers determined by reporting units

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys (This table was prepared February 1989)

**Table 58.—Teachers, enrollment, and pupil-teacher ratios in public elementary and secondary schools, by State:  
Fall 1985 to fall 1987**

State or other area	Fall 1985			Fall 1986 <sup>1</sup>			Fall 1987		
	Teachers	Enrollment	Pupil-teacher ratio	Teachers	Enrollment	Pupil-teacher ratio	Teachers	Enrollment	Pupil-teacher ratio
1	2	3	4	5	6	7	8	9	10
<b>United States</b> .....	<b>2,206,884</b>	<b>39,508,625</b>	<b>17.9</b>	<b>2,244,445</b>	<b>39,837,459</b>	<b>17.7</b>	<b>2,278,813</b>	<b>40,024,244</b>	<b>17.6</b>
Alabama.....	36,138	730,460	20.2	36,971	733,735	19.8	37,716	729,234	19.3
Alaska.....	6,814	107,345	15.8	6,448	107,973	16.7	6,113	105,678	17.3
Arizona.....	27,935	546,252	19.6	29,104	534,538	18.4	30,707	572,421	18.6
Arkansas.....	24,767	433,410	17.5	24,944	437,436	17.5	25,572	437,036	17.1
California.....	184,151	4,255,554	23.1	190,484	4,377,969	23.0	195,864	4,489,322	22.9
Colorado.....	29,894	550,842	18.4	30,704	558,415	18.2	31,168	560,236	18.0
Connecticut.....	32,903	462,026	14.0	34,252	468,847	13.7	35,050	465,465	13.3
Delaware.....	5,745	92,901	16.2	5,883	94,410	16.0	5,951	95,659	16.1
District of Columbia.....	6,137	87,092	14.2	5,984	85,612	14.3	6,232	86,435	13.9
Florida.....	88,973	1,562,283	17.6	91,969	1,607,320	17.5	95,857	1,664,774	17.4
Georgia.....	57,374	1,079,594	18.8	57,881	1,096,425	18.9	62,280	1,110,947	17.8
Hawaii.....	7,276	164,169	22.6	7,291	164,640	22.6	7,684	166,160	21.6
Idaho.....	10,255	208,669	20.3	10,234	208,391	20.4	10,258	212,444	20.7
Illinois.....	102,657	1,829,478	17.8	104,609	1,825,185	17.4	105,217	1,811,446	17.2
Indiana.....	51,976	966,106	18.6	52,896	966,780	18.3	53,749	964,129	17.9
Iowa.....	31,770	485,332	15.3	30,958	481,286	15.5	30,873	480,826	15.6
Kansas.....	26,686	410,229	15.4	27,064	416,091	15.4	27,317	421,112	15.4
Kentucky.....	33,506	643,833	19.2	34,507	642,778	18.6	35,239	642,696	18.2
Louisiana.....	42,609	788,349	18.5	42,929	775,188	18.5	42,920	793,093	18.5
Maine.....	14,226	206,101	14.5	13,685	211,752	15.5	14,204	211,817	14.9
Maryland.....	38,433	671,560	17.5	39,491	675,747	17.1	40,093	683,797	17.1
Massachusetts.....	56,845	844,330	14.9	56,066	833,918	14.4	59,517	825,320	13.9
Michigan.....	82,193	1,689,828	20.6	83,130	1,681,880	20.2	80,081	1,606,344	20.1
Minnesota.....	41,314	705,140	17.1	40,957	711,134	17.4	42,132	721,481	17.1
Mississippi.....	26,102	471,195	18.1	26,219	498,639	19.0	—	505,550	—
Missouri.....	48,170	795,107	16.5	48,902	800,606	16.4	49,632	802,060	16.2
Montana.....	9,705	153,869	15.9	9,818	153,327	15.6	9,659	152,207	15.8
Nebraska.....	17,687	265,819	15.0	17,748	267,139	15.1	17,713	268,100	15.1
Nevada.....	7,751	154,948	20.0	7,908	161,239	20.4	8,348	168,353	20.1
New Hampshire.....	10,104	160,974	15.9	10,300	163,717	15.9	10,363	166,045	16.0
New Jersey.....	74,236	1,116,194	15.0	75,558	1,107,467	14.7	78,335	1,092,982	14.0
New Mexico.....	14,781	277,551	18.8	14,876	281,943	19.0	15,175	287,229	18.9
New York.....	165,573	2,621,378	15.8	168,940	2,607,719	15.4	170,236	2,594,070	15.2
North Carolina.....	57,638	1,086,165	18.8	58,103	1,085,248	18.7	59,771	1,085,976	18.2
North Dakota.....	7,796	118,570	15.2	7,770	118,703	15.3	7,632	119,004	15.6
Ohio.....	98,264	1,793,965	18.3	98,894	1,793,508	18.1	99,641	1,793,411	18.0
Oklahoma.....	35,752	592,327	16.6	35,041	593,183	16.9	34,515	584,212	16.9
Oregon.....	24,605	447,527	18.2	24,615	449,307	18.3	24,911	455,895	18.3
Pennsylvania.....	101,665	1,683,221	16.6	102,993	1,674,161	16.3	103,307	1,668,542	16.2
Rhode Island.....	8,844	133,442	15.1	8,916	134,126	15.0	8,934	134,061	15.0
South Carolina.....	34,645	606,643	17.5	35,349	611,629	17.3	35,701	614,921	17.2
South Dakota.....	8,340	124,291	14.9	8,031	125,458	15.6	8,172	126,817	15.5
Tennessee.....	40,023	813,753	20.3	41,103	818,073	19.9	42,082	823,783	19.6
Texas.....	181,051	3,131,705	17.3	186,385	3,209,515	17.2	187,159	3,236,787	17.3
Utah.....	17,126	403,395	23.6	17,752	415,994	23.4	17,124	423,386	24.7
Vermont.....	6,397	90,157	14.1	—	92,112	—	6,938	92,755	13.4
Virginia.....	57,339	988,104	16.9	58,141	975,135	16.8	59,928	979,417	16.3
Washington.....	36,202	749,706	20.7	37,065	761,428	20.5	38,344	775,755	20.2
West Virginia.....	22,733	357,923	15.7	22,931	351,637	15.3	22,702	344,236	15.2
Wisconsin.....	46,482	768,234	16.5	47,039	767,819	16.3	47,721	772,363	16.2
Wyoming.....	7,296	102,779	14.1	7,201	100,955	14.0	6,798	98,455	14.5
<b>Outlying areas</b>									
American Samoa.....	—	—	—	623	11,055	17.7	656	11,248	17.1
Guam.....	1,329	26,043	19.6	1,430	25,676	18.0	1,407	25,936	18.4
Northern Marianas.....	—	—	—	—	—	—	305	5,819	19.1
Puerto Rico.....	32,683	686,914	21.0	32,361	679,489	21.0	33,069	672,837	20.3
Virgin Islands.....	1,631	25,448	15.6	1,606	24,435	15.2	1,590	24,020	15.1

<sup>1</sup> Some data have been revised from previously published figures.

<sup>2</sup> U.S. total includes imputation for nonreporting State.

—Data not available.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys (This table was prepared January 1989).



Table 59.—Selected characteristics of public school teachers: Spring 1961 to spring 1986

Item	1961	1966	1971	1976	1981	1986
1	2	3	4	5	6	7
<b>Number of teachers, in thousands</b>	<b>1,408</b>	<b>1,710</b>	<b>2,055</b>	<b>2,196</b>	<b>2,184</b>	<b>2,207</b>
<b>Sex (percent)</b>						
Men . . . . .	31.3	31.1	34.3	32.9	33.1	31.2
Women . . . . .	68.7	69.0	65.7	67.0	66.9	68.8
<b>Median age (years)</b>						
All teachers . . . . .	41	36	35	33	37	41
Men . . . . .	34	33	33	33	38	42
Women . . . . .	46	40	37	33	36	41
<b>Race (percent)</b>						
White . . . . .	—	—	88.3	90.8	91.6	89.6
Black . . . . .	—	—	8.1	8.0	7.8	6.9
Other . . . . .	—	—	3.6	1.2	0.7	3.4
<b>Marital status (percent)</b>						
Single . . . . .	22.3	22.0	19.5	20.1	18.5	12.9
Married . . . . .	68.0	69.1	71.9	71.3	73.0	75.7
Widowed, divorced, or separated . . . . .	9.7	9.0	8.6	8.6	8.5	11.4
<b>Highest degree held (percent)</b>						
Less than bachelor's . . . . .	14.6	7.0	2.9	0.9	0.4	0.3
Bachelor's . . . . .	61.9	69.6	69.6	61.6	50.1	48.3
Master's or specialist degree . . . . .	23.1	23.2	27.1	37.1	49.3	50.7
Doctor's . . . . .	0.4	0.1	0.4	0.4	0.3	0.7
<b>College credits earned in last 3 years</b>						
Percent who earned credits . . . . .	—	—	80.7	63.2	56.1	53.1
Mean number of credits earned <sup>1</sup> . . . . .	—	—	14	—	9	4
<b>Median years of teaching experience</b>	11	8	8	8	12	15
<b>Teaching for first year (percent)</b>	8.0	9.1	9.1	5.5	2.4	3.1
<b>Average number of pupils per class</b>						
Elementary teachers, not departmentalized . . . . .	29	28	27	25	25	24
Elementary teachers, departmentalized . . . . .	—	—	25	23	22	—
Secondary teachers . . . . .	28	26	27	25	23	25
Mean number of students taught per day by secondary teachers . . . . .	138	132	134	126	118	94
<b>Average number of hours in required school day</b>	7.4	7.3	7.3	7.3	7.3	7.3
<b>Average number of hours per week spent on all teaching duties</b>						
All teachers . . . . .	47	47	47	46	46	49
Elementary teachers . . . . .	49	47	46	44	44	47
Secondary teachers . . . . .	46	48	48	48	48	51
<b>Average number of days of classroom teaching in school year</b>	—	181	181	180	180	180
<b>Average number of nonteaching days in school year</b>	—	5	4	5	6	5
<b>Average annual salary as classroom teacher</b>	<sup>2</sup> \$5,264	\$6,253	\$9,261	\$12,005	\$17,209	\$24,504
<b>Total income, including spouse's (if married)</b>	—	—	\$15,021	\$19,957	\$29,831	\$43,413
<b>Willingness to teach again (percent)</b>						
Certainly would . . . . .	49.9	52.7	44.9	37.5	21.8	22.7
Probably would . . . . .	26.9	25.4	29.5	26.1	24.6	26.3
Chances about even . . . . .	12.5	12.9	13.0	17.5	17.6	19.8
Probably would not . . . . .	7.9	7.1	8.9	13.4	24.0	22.0
Certainly would not . . . . .	2.8	2.0	3.7	5.6	12.0	9.3

<sup>1</sup> Measured in semester hours<sup>2</sup> Includes extra pay for extra duties

—Data not available

rounding, percents may not add to 100.0

SOURCE: National Education Association, *Status of the American Public School Teacher, 1985-86* (Copyright © 1987 by the National Education Association. All rights reserved.) (This table was prepared July 1987.)

NOTE—Data are based upon sample surveys of public school teachers. Because of

**Table 60.—Public secondary school teachers, by subject taught: Spring 1966 to spring 1986**

[Percentage distribution]

Teaching field in which largest portion of time was spent	1966	1971	1976	1981	1986
1	2	3	4	5	6
<b>Total secondary school teachers, in thousands.....</b>	<b>746</b>	<b>927</b>	<b>1,016</b>	<b>995</b>	<b>970</b>
All fields.....	100 0	100 0	100 0	100 0	100 0
Agriculture.....	1 6	0 6	0 6	1 1	0 6
Art.....	2 0	3 7	2 4	3 1	1 5
Business education.....	7 0	5 9	4 6	6 2	6 5
English.....	18.1	20.4	19.9	23.8	21.8
Foreign language.....	6 4	4 8	4 2	2 8	3 7
Health and physical education.....	6 9	8 3	7 9	6 5	5 6
Home economics.....	5.9	5 1	2 8	3 6	2 6
Industrial arts.....	5.1	6 2	3 9	5 2	2 2
Mathematics.....	13.9	14 4	18 2	15 3	19.2
Music.....	4 7	3 8	3 0	3 7	4 8
Science.....	10.8	10 6	13 1	12.1	11.0
Social studies.....	15 3	14 0	12 4	11 2	13.6
Special education.....	0.4	1 1	3 0	2 1	3 5
Other.....	1 9	1 0	4 0	3 3	3 4

NOTE—Data are based upon sample surveys of public school teachers. Because of rounding, percents may not add to 100.0

SOURCE: National Education Association. *Status of the American Public School Teacher, 1965-86* (Copyright © 1987 by the National Education Association. All rights reserved.) (This table was prepared July 1987.)

**Table 61.—Teacher candidates' reasons for majoring in education and their perceptions of readiness to teach: Spring 1986**

Students' reasons for becoming teachers	Percent citing reason	Facet of teaching	Percent perceiving readiness
1	2	3	4
Helping children grow and learn.....	90	Use proper teaching methods.....	83
Seems to be challenging field.....	63	Plan instruction.....	82
Like work conditions (e.g., job market, calendar, security).....	54	Evaluate student learning.....	80
Inspired by favorite teachers.....	53	Responding to student differences.....	80
Sense of vocation and honor of teaching.....	52	Use materials properly.....	75
Could lead to other career.....	44	Develop materials.....	75
Could be admitted and would succeed.....	41	Work effectively with other teachers.....	74
Liked reputation of education campus.....	20	Diagnose learner needs.....	72
Friends are majoring in education.....	20	Manage classrooms.....	68
		Deal with misbehavior.....	56
		Develop curriculum.....	68
		Teach with computers.....	29

SOURCE: American Association of Colleges for Teacher Education. *Teaching Teachers. Facts and Figures, 1987* (This table was prepared October 1988.)

Table 62.—Selected characteristics of public school teachers' current teaching assignments,<sup>1</sup> by State: 1987

State	Average number of students per class	Percent of teachers									Teaching subjects unqualified to teach
		Number of students per typical class			Feelings about most typical class size			Average number of hours per week spent on job <sup>2</sup>			
		19 or less	20 to 29	30 or more	Too large	About right	Too small	Less than 40	40 to 59	60 or more	
1	2	3	4	5	6	7	8	9	10	11	12
<b>United States</b> .....	<b>23</b>	<b>20</b>	<b>64</b>	<b>16</b>	<b>36</b>	<b>62</b>	<b>1</b>	<b>11</b>	<b>78</b>	<b>11</b>	<b>20</b>
Alabama .....	26	10	61	28	38	61	1	10	83	7	20
Alaska .....	21	33	60	7	25	74	2	6	80	15	29
Arizona .....	25	15	65	21	43	56	2	7	82	11	25
Arkansas .....	22	24	68	7	29	71	1	8	82	11	20
California .....	20	7	38	55	66	33	2	8	75	16	28
Colorado .....	23	21	69	11	31	67	2	9	78	13	23
Connecticut .....	20	40	60	0	26	74	0	21	72	7	15
Delaware .....	23	20	72	9	37	63	0	10	78	11	13
Florida .....	26	12	58	31	49	50	1	10	82	8	16
Georgia .....	25	11	74	16	37	63	1	6	80	14	24
Hawaii .....	26	12	61	28	55	44	1	14	72	14	29
Idaho .....	24	15	67	18	38	59	2	6	81	12	22
Illinois .....	23	24	59	16	31	67	2	10	76	14	18
Indiana .....	23	21	69	8	35	65	0	9	78	13	19
Iowa .....	21	36	58	7	20	79	1	7	78	15	18
Kansas .....	20	42	53	5	20	77	3	9	78	12	16
Kentucky .....	24	14	72	15	37	62	1	15	77	8	25
Louisiana .....	24	16	71	13	34	64	1	17	72	10	20
Maine .....	20	29	71	1	28	70	3	8	80	12	17
Maryland .....	25	11	66	23	41	59	1	7	79	15	20
Massachusetts .....	21	28	67	4	27	71	2	20	73	7	18
Michigan .....	25	11	66	22	47	52	1	14	79	7	22
Minnesota .....	25	13	69	18	44	55	1	8	81	11	25
Mississippi .....	24	12	71	17	32	66	2	10	81	9	17
Missouri .....	22	24	66	19	32	67	1	10	78	11	15
Montana .....	20	36	61	3	24	72	4	6	84	10	14
Nebraska .....	20	40	53	6	21	74	5	7	78	15	18
Nevada .....	26	13	61	27	48	50	2	13	75	11	20
New Hampshire .....	21	32	65	3	26	73	1	8	80	11	12
New Jersey .....	20	35	60	4	25	74	1	23	72	6	20
New Mexico .....	23	19	72	9	32	66	2	12	76	12	21
New York .....	22	23	69	8	31	67	2	19	72	9	14
North Carolina .....	25	7	83	10	47	53	1	5	82	13	20
North Dakota .....	19	45	51	4	19	74	7	9	78	13	18
Ohio .....	24	18	76	6	34	65	1	12	78	10	20
Oklahoma .....	21	34	59	6	25	72	3	10	77	13	21
Oregon .....	20	19	75	6	33	65	2	6	78	16	20
Pennsylvania .....	23	18	73	9	38	62	0	14	81	5	15
Rhode Island .....	22	20	78	2	33	66	0	28	70	2	16
South Carolina .....	23	20	73	6	29	70	2	11	80	9	17
South Dakota .....	15	42	55	3	20	77	3	8	77	15	21
Tennessee .....	25	12	65	23	53	45	1	9	80	11	19
Texas .....	22	28	61	11	24	74	1	6	79	16	19
Utah .....	28	6	49	45	58	41	1	10	79	11	30
Vermont .....	19	44	54	1	23	76	1	10	80	10	19
Virginia .....	22	21	71	8	33	67	1	9	80	11	22
Washington .....	25	13	68	19	44	54	2	6	83	10	30
West Virginia .....	21	26	71	4	20	78	2	12	75	12	23
Wisconsin .....	22	21	74	5	29	69	2	9	82	9	17
Wyoming .....	20	41	56	2	20	76	4	6	81	12	16

<sup>1</sup>As reported by the teachers<sup>2</sup>Includes time spent inside and outside of schoolSOURCE The Carnegie Foundation for the Advancement of Teaching, *The Condition of Teaching: A State-by-State Analysis, 1988* (This table was prepared January 1989)

NOTE —Because of rounding, details may not add to totals

Table 63.—Percentage of teachers involved in making selected decisions, by State: 1987

State	Choosing textbooks	Shaping the curriculum	Tracking students into special classes	Setting promotion and retention policies	Deciding school budgets	Evaluating teacher performance	Selecting new teachers	Selecting new administrators
1	2	3	4	5	6	7	8	9
United States.....	79	63	45	34	20	10	7	7
Alabama.....	71	51	47	38	19	8	4	3
Alaska.....	79	68	55	45	24	13	8	7
Arizona.....	78	61	47	43	18	17	12	9
Arkansas.....	82	51	44	39	9	12	4	3
California.....	74	62	40	41	35	8	17	11
Colorado.....	83	70	55	38	36	14	20	11
Connecticut.....	73	68	47	33	22	13	7	10
Delaware.....	84	71	49	30	21	8	5	12
District of Columbia.....	—	—	—	—	—	—	—	—
Florida.....	64	42	39	21	20	6	5	3
Georgia.....	74	54	52	35	19	20	3	4
Hawaii.....	91	69	53	37	57	14	9	2
Idaho.....	83	67	48	34	17	7	13	8
Illinois.....	86	62	45	39	12	11	4	5
Indiana.....	90	71	45	35	13	7	5	5
Iowa.....	90	75	48	37	15	7	6	10
Kansas.....	90	76	46	37	13	10	5	4
Kentucky.....	85	64	53	45	16	13	3	6
Louisiana.....	63	40	36	27	10	8	1	6
Maine.....	89	82	60	47	29	14	16	14
Maryland.....	61	44	44	24	18	8	4	4
Massachusetts.....	76	71	46	29	29	11	8	13
Michigan.....	87	66	42	41	15	7	7	8
Minnesota.....	88	79	63	45	20	14	17	12
Mississippi.....	81	59	50	36	11	17	4	5
Missouri.....	85	69	42	35	18	8	5	5
Montana.....	90	78	55	44	17	7	7	5
Nebraska.....	87	75	54	32	19	9	5	6
Nevada.....	73	46	38	25	27	6	5	1
New Hampshire.....	79	76	56	42	32	11	20	19
New Jersey.....	73	66	40	33	11	6	2	5
New Mexico.....	88	67	43	34	15	8	4	4
New York.....	78	62	44	36	18	7	9	11
North Carolina.....	76	53	43	36	28	17	4	4
North Dakota.....	92	71	48	43	8	7	4	4
Ohio.....	84	70	40	29	14	11	5	5
Oklahoma.....	92	62	46	37	10	8	3	3
Oregon.....	87	72	56	41	29	10	20	13
Pennsylvania.....	84	74	38	33	14	7	5	9
Rhode Island.....	68	70	40	31	17	6	5	7
South Carolina.....	87	61	46	30	23	16	4	3
South Dakota.....	90	76	55	49	10	9	8	8
Tennessee.....	71	55	45	38	16	13	3	4
Texas.....	78	62	42	24	20	8	4	3
Utah.....	76	63	46	26	23	20	10	4
Vermont.....	93	85	56	50	39	16	17	20
Virginia.....	82	61	41	30	16	14	4	3
Washington.....	78	68	53	36	25	7	18	12
West Virginia.....	67	43	39	27	12	11	4	2
Wisconsin.....	87	77	51	34	29	9	7	8
Wyoming.....	89	81	57	39	34	8	16	14

—Data not available

SOURCE The Carnegie Foundation for the Advancement of Teaching, *Teacher Involvement in Decisionmaking: A State-by-State Profile, September 1988* (This table was prepared October 1988)

Table 64.—Percent of teachers reporting various problems in their school, by State: 1987

State	Disruptive classroom behavior	Student absenteeism	Student apathy	Lack of parental support	Violence against students	Violence against teachers	Alcohol	Drugs other than alcohol	Abused/neglected students	Poor health among students
1	2	3	4	5	6	7	8	9	10	11
United States.....	87	83	88	90	44	24	49	54	89	69
Alabama.....	92	84	87	89	40	22	44	52	83	65
Alaska.....	87	80	84	90	34	17	53	60	92	74
Arizona.....	87	89	90	91	45	22	38	51	90	76
Arkansas.....	90	88	91	92	46	24	53	59	90	74
California.....	90	89	87	90	49	26	42	48	90	74
Colorado.....	88	86	89	90	48	22	51	56	90	74
Connecticut.....	84	75	83	85	42	23	44	48	86	59
Delaware.....	92	86	90	95	54	28	50	54	91	76
District of Columbia.....	—	—	—	—	—	—	—	—	—	—
Florida.....	92	89	92	94	58	38	45	57	88	73
Georgia.....	91	84	91	90	48	28	39	45	89	71
Hawaii.....	93	91	93	95	76	44	45	53	89	74
Idaho.....	88	87	91	92	42	21	55	56	92	72
Illinois.....	79	74	85	89	34	18	39	42	84	62
Indiana.....	89	84	89	91	41	19	51	59	89	71
Iowa.....	80	78	86	87	35	16	63	63	88	61
Kansas.....	81	78	87	86	33	18	52	53	88	67
Kentucky.....	88	86	89	89	38	23	35	45	90	74
Louisiana.....	85	82	89	88	43	29	36	45	83	67
Maine.....	85	79	—	88	32	13	45	48	96	75
Maryland.....	90	78	86	89	50	27	43	49	85	64
Massachusetts.....	84	82	85	85	48	28	56	62	86	63
Michigan.....	87	80	89	89	50	24	45	50	91	72
Minnesota.....	86	80	88	89	39	19	61	59	94	68
Mississippi.....	81	80	82	89	37	22	41	50	77	32
Missouri.....	90	87	89	92	45	24	56	58	90	76
Montana.....	78	77	86	88	32	19	58	55	88	64
Nebraska.....	83	75	88	88	36	18	62	55	88	63
Nevada.....	88	85	92	92	50	30	51	54	92	71
New Hampshire.....	87	76	82	88	38	16	49	50	92	69
New Jersey.....	87	71	83	85	41	21	42	45	81	54
New Mexico.....	83	89	90	89	43	23	58	65	90	71
New York.....	91	82	90	90	46	26	59	64	91	56
North Carolina.....	91	87	92	94	48	32	45	50	89	76
North Dakota.....	81	65	81	85	22	11	57	52	83	53
Ohio.....	87	80	90	90	46	24	55	58	92	71
Oklahoma.....	85	84	90	90	37	23	56	63	91	70
Oregon.....	86	83	86	90	42	15	48	54	93	77
Pennsylvania.....	84	83	89	89	45	25	57	60	89	68
Rhode Island.....	91	83	85	89	53	22	47	54	88	67
South Carolina.....	87	76	85	93	46	27	39	45	86	72
South Dakota.....	74	68	82	84	28	16	55	49	88	64
Tennessee.....	88	88	90	91	41	26	39	47	91	76
Texas.....	81	85	89	92	41	24	51	61	89	71
Utah.....	87	82	86	88	44	18	43	48	86	34
Vermont.....	86	77	83	88	36	14	54	58	95	77
Virginia.....	91	82	88	91	43	25	41	46	88	70
Washington.....	88	87	91	91	44	19	56	62	95	79
West Virginia.....	87	86	88	91	39	21	41	45	89	76
Wisconsin.....	84	76	88	91	39	24	57	55	93	66
Wyoming.....	79	76	83	87	25	10	40	41	89	66

—Data not available

SOURCE The Carnegie Foundation for the Advancement of Teaching, *The Condition of Teaching: A State-by-State Analysis, 1988* (This table was prepared January 1989)

**Table 65.—Job satisfaction of public school teachers: 1984 to 1988**

Item	Percent of teachers				
	1984	1985	1986	1987	1988
1	2	3	4	5	6
Satisfaction with job as a teacher in public schools					
Very satisfied	40	—	33	40	50
Somewhat satisfied	41	—	48	45	37
Somewhat dissatisfied	16	—	15	12	11
Very dissatisfied	2	—	4	2	2
Seriously considered leaving teaching to go into some other occupation	—	51	55	52	—
Likely to leave the teaching profession to go into some other occupation within the next 5 years	—	27	27	22	26

—Data not available

SOURCE Metropolitan Life/Louis Harris Associates, Inc., *The American Teacher*, 1988, copyrighted. (This table was prepared January 1989)

NOTE —Because of rounding, details may not add to totals

**Table 36.—Estimated average annual salary of teachers in public elementary and secondary schools: 1959-60 to 1987-88**

School year	Current dollars			Constant 1987-88 dollars <sup>1</sup>		
	All teachers	Elementary teachers	Secondary teachers	All teachers	Elementary teachers	Secondary teachers
1	2	3	4	5	6	7
1959-60	\$4,995	\$4,815	\$5,276	\$19,693	\$18,983	\$20,801
1961-62	5,515	5,340	5,775	21,255	20,580	22,257
1963-64	5,995	5,805	6,266	22,517	21,803	23,535
1965-66	6,485	6,279	6,761	23,544	22,796	24,546
1967-68	7,423	7,208	7,692	25,285	24,553	26,201
1969-70	8,626	8,412	8,891	26,453	25,797	27,265
1970-71	9,268	9,021	9,568	27,026	26,306	27,901
1971-72	9,705	9,424	10,031	27,321	26,530	28,238
1972-73	10,174	9,893	10,507	27,532	26,771	28,433
1973-74	10,770	10,507	11,077	26,759	26,105	27,521
1974-75	11,641	11,334	12,000	26,037	25,351	26,840
1975-76	12,600	12,280	12,937	26,319	25,651	27,023
1976-77	13,354	12,989	13,776	26,357	25,637	27,190
1977-78	14,138	13,845	14,602	26,260	25,607	27,007
1978-79	15,032	14,681	15,450	25,421	24,827	26,128
1979-80	15,970	15,569	16,459	23,830	23,232	24,560
1980-81	17,644	17,230	18,142	23,595	23,041	24,261
1981-82	19,274	18,853	19,805	23,725	23,207	24,379
1982-83	20,695	20,227	21,291	24,425	23,873	25,129
1983-84	21,921	21,460	22,557	24,949	24,424	25,673
1984-85	23,593	23,182	24,193	25,840	25,390	26,498
1985-86	25,198	24,666	25,866	26,825	26,258	27,536
1986-87	26,556	25,978	27,262	27,656	27,054	28,392
1987-88	28,044	27,423	28,895	28,044	27,423	28,895

<sup>1</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor

SOURCE National Education Association, *Estimates of School Statistics*, and unpublished data (Latest edition 1987-88 Copyright © 1988 by the National Education Association. All rights reserved.) (This table was prepared December 1988)

NOTE —Data for some recent years have been revised since originally published

**Table 67.—Estimated average annual salary of teachers in public elementary and secondary schools, by State: 1969-70 to 1987-88**

State	Current dollars						Constant 1987-88 dollars <sup>1</sup>					Percent change 1979-80 to 1987-88 in constant dollars
	1969-70	1979-80	1983-84	1985-86	1986-87 <sup>2</sup>	1987-88	1969-70	1979-80	1983-84	1985-86	1986-87	
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>United States .....</b>	<b>\$8,626</b>	<b>\$15,970</b>	<b>\$21,921</b>	<b>\$25,198</b>	<b>\$26,556</b>	<b>\$28,044</b>	<b>\$26,453</b>	<b>\$23,830</b>	<b>\$24,949</b>	<b>\$26,825</b>	<b>\$27,856</b>	<b>15.0</b>
Alabama.....	8,818	13,060	17,682	23,090	23,200	23,320	20,908	19,488	20,124	24,581	24,161	18.4
Alaska.....	10,560	27,210	37,807	39,115	39,769	40,424	32,384	40,602	43,029	41,840	41,417	-0.4
Arizona.....	8,711	15,054	21,642	24,680	25,972	27,388	26,713	22,463	24,631	26,273	27,048	18.0
Arkansas.....	8,307	12,299	18,929	19,519	19,904	20,340	19,341	18,352	19,267	20,779	20,729	9.8
California.....	10,315	18,020	24,843	29,130	31,219	33,159	31,632	26,889	28,274	31,011	32,513	18.9
Colorado.....	7,781	18,205	23,278	25,892	27,387	28,651	23,800	24,181	26,491	27,564	28,522	15.8
Connecticut.....	9,282	18,229	22,627	26,810	28,902	33,487	28,403	24,217	25,752	28,328	30,100	27.7
Delaware.....	9,015	18,148	20,934	24,824	27,487	29,575	27,846	24,096	23,826	26,214	28,605	18.5
District of Columbia.....	10,285	22,190	28,167	33,211	33,797	34,705	31,540	33,111	32,627	35,355	35,197	4.8
Florida.....	8,412	14,149	19,177	22,250	23,833	25,198	25,797	21,113	22,190	25,588	24,821	18.2
Georgia.....	7,278	13,853	18,630	23,046	24,200	26,177	22,313	20,871	21,203	24,534	25,203	21.0
Hawaii.....	9,453	19,920	24,357	25,845	26,815	28,785	28,989	29,724	27,721	27,513	27,926	-3.3
Idaho.....	6,890	13,811	17,985	20,969	21,480	22,242	21,129	20,310	20,469	22,323	22,370	8.7
Illinois.....	9,569	17,601	24,191	26,897	28,238	29,663	29,345	26,284	27,532	28,633	29,408	11.5
Indiana.....	8,833	15,599	21,538	24,325	25,581	27,386	27,088	23,278	24,513	25,895	26,841	15.0
Iowa.....	8,355	15,203	20,149	21,890	22,815	24,867	25,622	22,686	22,932	23,090	23,552	8.8
Kansas.....	7,812	15,890	19,411	22,644	23,459	24,647	23,343	20,428	22,092	24,106	24,431	17.1
Kentucky.....	8,953	14,520	19,660	20,948	22,478	24,274	21,322	21,666	22,376	22,300	23,407	10.7
Louisiana.....	7,028	13,760	18,400	20,303	21,196	21,209	21,552	20,532	20,942	21,614	22,074	3.2
Maine.....	7,572	13,071	17,328	19,583	21,257	23,425	23,221	19,504	19,721	20,847	22,138	18.7
Maryland.....	9,383	17,558	23,870	26,800	28,893	30,933	28,774	26,200	27,187	28,530	30,090	15.3
Massachusetts.....	8,764	17,253	22,958	26,800	28,410	30,019	26,878	25,744	26,129	28,530	29,587	14.2
Michigan.....	9,826	19,663	27,104	30,067	31,500	32,926	30,133	29,341	30,848	32,008	32,805	10.9
Minnesota.....	8,658	15,912	24,350	27,360	28,340	29,900	26,551	23,743	27,713	29,126	29,514	20.8
Mississippi.....	5,798	11,850	15,812	18,472	19,447	20,669	17,780	17,682	17,996	19,665	20,253	14.5
Missouri.....	7,799	13,682	19,269	21,945	23,435	24,703	23,917	20,416	21,931	23,362	24,406	17.4
Montana.....	7,606	14,537	20,890	22,482	23,206	23,798	23,325	21,892	23,548	23,933	24,168	8.9
Nebraska.....	7,375	13,518	18,785	20,939	21,834	23,246	22,818	20,168	21,380	22,291	22,739	13.2
Nevada.....	9,215	16,295	22,360	25,610	26,960	27,600	28,259	24,315	25,449	27,263	28,077	11.9
New Hampshire.....	7,771	13,017	17,376	20,263	21,869	24,091	23,831	19,424	19,776	21,571	22,775	19.4
New Jersey.....	9,130	17,161	23,264	27,170	28,718	30,720	27,998	25,607	26,477	28,924	29,908	18.8
New Mexico.....	7,796	14,887	20,571	21,817	23,850	24,351	23,907	22,214	23,412	23,225	24,838	8.8
New York.....	10,338	19,812	27,319	30,490	32,000	34,500	31,697	29,563	31,092	32,458	33,326	14.3
North Carolina.....	7,494	14,117	18,311	22,340	23,879	24,900	22,991	21,065	20,840	23,782	24,868	15.4
North Dakota.....	8,896	13,263	19,260	20,816	21,284	21,660	20,534	19,791	21,920	22,160	22,166	8.8
Ohio.....	8,300	15,289	21,290	24,518	26,288	27,606	25,453	22,784	24,231	26,101	27,377	17.5
Oklahoma.....	6,882	13,107	18,630	21,419	21,468	22,006	21,105	19,558	21,203	22,802	22,358	11.1
Oregon.....	8,818	18,266	23,155	25,660	26,690	28,060	27,042	24,272	26,353	27,317	27,796	13.5
Pennsylvania.....	8,858	18,515	22,703	25,853	27,422	29,174	27,164	24,643	25,839	27,522	28,558	15.5
Rhode Island.....	8,776	18,002	25,337	29,470	31,079	32,858	28,913	26,862	26,837	31,373	32,367	18.2
South Carolina.....	6,927	13,063	17,384	21,595	23,201	24,241	21,243	19,492	19,785	22,989	24,182	19.8
South Dakota.....	8,403	12,348	18,480	18,095	18,781	19,750	19,838	18,425	18,756	19,263	19,559	8.7
Tennessee.....	7,050	13,972	17,910	21,384	22,627	23,785	21,820	20,849	20,384	22,765	23,565	12.3
Texas.....	7,255	14,132	20,170	24,483	24,903	25,655	22,248	21,087	22,956	26,042	25,935	17.8
Utah.....	7,844	14,909	20,007	22,603	23,035	22,621	23,441	22,247	22,771	24,062	23,989	1.7
Vermont.....	7,968	12,484	17,606	20,796	21,835	23,397	24,435	18,628	20,038	22,139	22,740	20.4
Virginia.....	8,070	14,060	19,876	23,095	25,039	27,436	24,748	20,980	22,394	24,586	26,077	23.5
Washington.....	9,225	18,820	24,385	26,209	27,285	28,116	28,290	26,083	27,730	27,901	28,416	0.1
West Virginia.....	7,850	13,710	17,489	20,627	21,448	21,736	23,460	20,458	19,905	21,959	22,335	5.9
Wisconsin.....	8,963	16,006	22,811	26,347	27,815	28,998	27,488	23,884	25,962	28,048	28,968	17.6
Wyoming.....	8,232	16,012	25,197	27,224	28,103	27,260	25,245	23,893	26,677	28,982	29,267	12.4

<sup>1</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor. Price index does not account for different rates of change in the cost of living among States.

<sup>2</sup> Data revised from previously published figures.

SOURCE: National Education Association, *Estimates of School Statistics*, and unpublished data (Latest edition 1987-88. Copyright © 1988 by the National Education Association. All rights reserved.) (This table was prepared December 1988.)

Table 68.—Minimum and average teacher salaries, by State: 1986-87 and 1987-88

State	Minimum (beginning) salary 1986-87	Average salary 1986-87	Minimum (beginning) salary 1987-88	Average salary 1987-88	Minimum (beginning) salary as a percent of average salary, 1987-88	Percent change, 1986-87 to 1987-88	
						Minimum salary	Average salary
1	2	3	4	5	6	7	8
<b>United States</b> .....	<b>\$17,604</b>	<b>\$26,615</b>	<b>\$18,557</b>	<b>\$26,085</b>	<b>66.1</b>	<b>5.4</b>	<b>5.5</b>
Alabama.....	18,200	23,500	18,200	23,201	78.4	(?)	-1.3
Alaska.....	26,000	42,063	26,880	40,510	66.4	3.4	-3.7
Arizona.....	18,000	25,972	19,300	27,388	70.5	7.2	5.5
Arkansas.....	15,891	19,904	15,996	20,340	78.6	0.7	2.2
California.....	20,780	31,276	21,900	33,200	66.0	5.4	6.2
Colorado.....	16,090	27,387	16,813	28,651	58.7	4.5	4.6
Connecticut.....	19,369	29,170	20,703	33,776	61.3	6.9	15.8
Delaware.....	17,758	27,467	19,100	29,573	64.6	7.6	7.7
District of Columbia.....	18,879	33,797	19,116	34,705	55.1	1.3	2.7
Florida.....	18,173	23,833	19,500	25,198	77.4	7.3	5.7
Georgia.....	18,600	24,632	19,400	25,736	75.4	4.3	4.5
Hawaii.....	17,607	26,093	18,698	28,445	65.7	6.2	9.0
Idaho.....	14,246	21,476	14,793	22,242	66.5	3.8	3.6
Illinois.....	16,972	28,212	17,804	29,716	59.9	4.9	5.3
Indiana.....	16,254	25,616	17,300	27,067	63.9	6.4	5.7
Iowa.....	15,428	22,615	18,721	24,867	75.3	21.3	10.0
Kansas.....	16,371	23,459	17,377	24,647	70.5	6.1	5.1
Kentucky.....	15,250	22,467	16,150	24,274	66.5	5.9	8.0
Louisiana.....	14,966	21,196	14,966	21,209	70.6	(?)	0.1
Maine.....	14,229	21,257	15,863	23,425	67.7	11.5	10.2
Maryland.....	17,140	28,893	19,478	30,933	63.0	13.6	7.1
Massachusetts.....	17,600	28,922	18,800	30,800	61.0	6.8	6.5
Michigan.....	18,700	31,528	20,100	34,050	59.0	7.5	8.0
Minnesota.....	18,687	28,339	19,625	29,756	66.0	5.0	5.0
Mississippi.....	15,400	19,448	16,600	20,750	80.0	7.8	6.7
Missouri.....	16,777	23,435	17,717	24,704	71.7	5.6	5.4
Montana.....	—	23,340	—	23,774	—	—	1.9
Nebraska.....	14,697	21,797	15,350	22,995	66.8	4.4	5.5
Nevada.....	17,660	26,962	18,523	27,599	67.1	4.9	2.4
New Hampshire.....	15,500	21,869	17,300	24,019	72.0	11.6	9.8
New Jersey.....	19,300	28,718	20,500	30,788	66.6	6.2	7.2
New Mexico.....	18,153	24,155	17,897	24,523	73.0	-1.4	1.5
New York.....	19,669	32,000	20,650	34,300	60.2	5.0	7.2
North Carolina.....	16,700	23,775	17,600	25,073	70.2	5.4	5.5
North Dakota.....	15,082	21,284	15,218	21,660	70.3	0.9	1.8
Ohio.....	15,765	26,288	16,374	27,606	59.3	3.9	5.0
Oklahoma.....	16,409	22,563	16,432	23,100	71.1	0.1	2.4
Oregon.....	17,367	26,691	18,022	28,080	64.2	3.8	5.2
Pennsylvania.....	17,100	27,422	18,400	20,177	63.1	7.6	6.4
Rhode Island.....	16,400	31,079	17,302	32,858	52.7	5.5	5.7
South Carolina.....	16,948	23,201	17,609	24,241	72.6	3.9	4.5
South Dakota.....	13,870	18,781	15,020	19,758	76.0	8.3	5.2
Tennessee.....	16,086	23,526	16,970	24,748	68.6	5.5	5.2
Texas.....	18,281	24,890	18,800	25,387	74.1	2.8	2.0
Utah.....	15,311	23,035	15,266	22,783	67.0	-0.3	-1.1
Vermont.....	13,877	23,089	14,966	24,507	61.1	7.8	6.1
Virginia.....	16,781	25,041	18,439	27,436	67.2	9.9	9.6
Washington.....	17,334	27,285	17,905	27,960	64.0	3.3	2.5
West Virginia.....	15,055	21,446	15,055	21,736	69.3	(?)	1.4
Wisconsin.....	17,362	27,815	18,332	29,206	62.8	5.6	5.0
Wyoming.....	18,679	28,230	19,000	27,926	68.0	1.7	-1.1

<sup>1</sup> Estimated by the American Federation of Teachers. See NOTE

<sup>2</sup> Preliminary or State estimate

<sup>3</sup> Less than .05 percent

<sup>4</sup> Median salary

— Data not available

NOTE—Data in this table reflect results of surveys conducted by the American Federation of Teachers. Because of differing survey and estimation methods, these data are not entirely comparable with figures appearing in other tables.

SOURCE: American Federation of Teachers, *Survey and Analysis of Salary Trends, 1988* (This table was prepared November 1988)



**Table 69.—Average annual salary of instructional staff<sup>1</sup> in public elementary and secondary schools and average annual earnings of full-time employees in all industries: 1929-30 to 1987-88**

School year	Current dollars		Constant 1987-88 dollars <sup>2</sup>		
	Average salary of instructional staff	Earnings per full-time employee working for wages or salary <sup>3</sup>	Average salary of instructional staff	Earnings per full-time employee working for wages or salary	Ratio of instructional staff salary to salary for all full-time employees
1	2	3	4	5	6
1929-30.....	\$1,420	\$1,386	\$9,610	\$9,380	1 02
1931-32.....	1,417	1,198	11,386	9,626	1 18
1933-34.....	1,227	1,070	10,734	9,360	1 15
1935-36.....	1,283	1,160	10,815	9,779	1 11
1937-38.....	1,374	1,224	11,111	9,898	1 12
1939-40.....	1,441	1,282	11,945	10,627	1 12
1941-42.....	1,507	1,576	11,196	11,709	0 96
1943-44.....	1,728	2,030	11,488	13,496	0 85
1945-46.....	1,995	2,272	12,669	14,428	0 88
1947-48.....	2,639	2,692	13,120	13,384	0 98
1949-50.....	3,010	2,930	14,723	14,332	1 03
1951-52.....	3,450	3,322	15,206	14,642	1 04
1953-54.....	3,825	3,628	16,477	15,628	1 05
1955-56.....	4,156	3,924	17,909	16,909	1 06
1957-58.....	4,702	4,276	19,073	17,345	1 10
1959-60.....	5,174	4,632	20,398	18,262	1 12
1961-62.....	5,700	4,928	21,968	18,992	1 16
1963-64.....	6,240	5,373	23,437	20,181	1 16
1965-66.....	6,935	5,838	25,178	21,195	1 19
1967-68.....	7,630	6,444	25,990	21,950	1 18
1969-70.....	8,840	7,334	27,109	22,491	1 21
1970-71.....	9,698	7,815	28,280	22,789	1 24
1971-72.....	10,213	8,334	28,751	23,461	1 23
1972-73.....	10,634	8,858	28,776	23,970	1 20
1973-74.....	11,254	9,647	27,961	23,968	1 17
1974-75.....	12,167	10,420	27,214	23,306	1 17
1975-76.....	13,124	11,218	27,414	23,432	1 17
1976-77.....	13,840	11,991	27,316	23,667	1 15
1977-78.....	14,698	12,829	27,184	23,727	1 15
1978-79.....	15,764	13,851	26,659	23,424	1 14
1979-80.....	16,715	15,095	24,942	22,524	1 11
1980-81.....	18,404	16,495	24,611	22,058	1 12
1981-82.....	20,327	17,818	25,021	21,933	1 14
1982-83.....	21,641	18,883	25,542	22,286	1 15
1983-84.....	22,994	19,749	26,170	22,477	1 16
1984-85.....	24,757	20,626	27,115	22,591	1 20
1985-86.....	26,405	21,514	28,110	22,902	1 23
1986-87.....	27,746	22,426	28,896	23,355	1 24
1987-88.....	29,299	—	29,299	—	—

<sup>1</sup> Includes supervisors, principals, classroom teachers, and other instructional staff

<sup>2</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor

<sup>3</sup> Calendar-year data from the U.S. Department of Commerce have been converted to a school-year basis by averaging the two appropriate calendar years in each case

—Data not available

SOURCE U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems*, and unpublished data, National Education Association, *Estimates of School Statistics, 1987-88*, and unpublished data (Copyright © 1988 by the National Education Association. All rights reserved), and U.S. Department of Commerce, *Survey of Current Business*, July issues (This table was prepared November 1988)

NOTE—Some data revised from previously published figures

**Table 70.—Average annual salary of instructional staff<sup>1</sup> in public elementary and secondary schools, by State: 1939-40 to 1987-88—Continued**

State or other area	Current dollars								Constant 1987-88 dollars <sup>2</sup>							
	1939-40	1949-50	1959-60	1969-70	1979-80 <sup>3</sup>	1985-86 <sup>4</sup>	1986-87 <sup>4</sup>	1987-88	1939-40	1949-50	1959-60	1969-70	1979-80	1985-86	1986-87	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Vermont . . . . .	981	2,348	4,466	8,225	13,300	22,184	23,293	25,525	8,132	11,485	17,607	25,223	19,846	23,616	24,258	
Virginia . . . . .	899	2,328	4,312	8,200	14,655	23,957	25,671	28,126	7,452	11,387	17,000	25,146	21,868	25,504	26,735	
Washington . . . . .	1,706	3,487	<sup>8</sup> 5,643	9,500	19,735	27,370	28,468	29,344	14,141	17,056	22,247	29,133	29,448	29,137	29,648	
West Virginia . . . . .	1,170	2,425	3,952	7,850	14,395	21,529	22,425	22,711	9,698	11,862	15,581	24,073	21,480	22,919	23,354	
Wisconsin . . . . .	1,379	3,007	<sup>9</sup> 4,870	9,150	16,335	31,500	32,800	35,100	11,431	14,708	19,200	28,060	24,375	33,534	34,159	
Wyoming . . . . .	1,169	2,798	4,937	8,532	16,830	27,461	28,230	27,140	9,690	13,686	19,464	26,164	25,113	29,234	29,400	
<b>Outlying areas</b>																
American Samoa . . . . .	—	—	852	5,130	—	—	—	—	—	—	—	—	—	—	—	
Guam . . . . .	—	—	4,107	7,800	—	—	—	—	—	—	3,359	15,110	—	—	—	
Puerto Rico . . . . .	—	—	<sup>10</sup> 2,360	—	—	—	—	—	—	—	16,192	22,975	—	—	—	
Virgin Islands . . . . .	—	—	3,407	—	—	—	—	—	—	—	9,304	—	—	—	—	
											13,432	—	—	—	—	

<sup>1</sup> Includes supervisors, principals, classroom teachers, and other instructional staff  
<sup>2</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U S Department of Labor. Price index does not account for different rates of change in the cost of living among States  
<sup>3</sup> Estimated  
<sup>4</sup> Estimates revised from previously published data  
<sup>5</sup> Excludes kindergarten teachers  
<sup>6</sup> Includes administrators  
<sup>7</sup> Includes clerical assistants to instructional personnel  
<sup>8</sup> Includes attendance personnel

<sup>9</sup> Excludes vocational schools not operated as part of the regular public school system  
<sup>10</sup> Median salary  
 —Data not available

SOURCE U S Department of Education, National Center for Education Statistics *Statistics of State School Systems*, National Education Association, *Estimates of School Statistics*, and unpublished data (Latest edition 1987-88. Copyright © 1988 by the National Education Association. All rights reserved.) (This table was prepared December 1988.)

**Table 70.—Average annual salary of instructional staff<sup>1</sup> in public elementary and secondary schools, by State: 1939-40 to 1987-88—Continued**

State or other area	Current dollars								Constant 1987-88 dollars <sup>2</sup>						
	1939-40	1949-50	1959-60	1969-70	1979-80 <sup>3</sup>	1985-86 <sup>4</sup>	1986-87 <sup>4</sup>	1987-88	1939-40	1949-50	1959-60	1969-70	1979-80	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Vermont . . . . .	981	2,348	4,466	8,225	13,300	22,184	23,293	25,525	8,132	11,485	17,607	25,223	19,846	23,616	24,258
Virginia . . . . .	899	2,328	4,312	8,200	14,655	23,957	25,671	28,126	7,452	11,387	17,000	25,146	21,868	25,504	26,735
Washington . . . . .	1,706	3,487	<sup>8</sup> 5,643	9,500	19,735	27,370	28,468	29,344	14,141	17,056	22,247	29,133	29,448	29,137	29,648
West Virginia . . . . .	1,170	2,425	3,952	7,850	14,395	21,529	22,425	22,711	9,698	11,862	15,581	24,073	21,480	22,919	23,354
Wisconsin . . . . .	1,379	3,007	<sup>9</sup> 4,870	9,150	16,335	31,500	32,800	35,100	11,431	14,708	19,200	28,060	24,375	33,534	34,159
Wyoming . . . . .	1,169	2,798	4,937	8,532	16,830	27,461	28,230	27,140	9,690	13,686	19,464	26,164	25,113	29,234	29,400
<b>Outlying areas</b>															
American Samoa . . . . .	—	—	852	5,130	—	—	—	—	—	—	—	—	—	—	—
Guam . . . . .	—	—	4,107	7,800	—	—	—	—	—	—	3,359	15,110	—	—	—
Puerto Rico . . . . .	—	—	<sup>10</sup> 2,360	—	—	—	—	—	—	—	16,192	22,975	—	—	—
Virgin Islands . . . . .	—	—	3,407	—	—	—	—	—	—	—	9,304	—	—	—	—
											13,432	—	—	—	—

<sup>1</sup> Includes supervisors, principals, classroom teachers, and other instructional staff  
<sup>2</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U S Department of Labor. Price index does not account for different rates of change in the cost of living among States  
<sup>3</sup> Estimated  
<sup>4</sup> Estimates revised from previously published data  
<sup>5</sup> Excludes kindergarten teachers  
<sup>6</sup> Includes administrators  
<sup>7</sup> Includes clerical assistants to instructional personnel  
<sup>8</sup> Includes attendance personnel

<sup>9</sup> Excludes vocational schools not operated as part of the regular public school system  
<sup>10</sup> Median salary  
 —Data not available

SOURCE U S Department of Education, National Center for Education Statistics *Statistics of State School Systems*, National Education Association, *Estimates of School Statistics*, and unpublished data (Latest edition 1987-88. Copyright © 1988 by the National Education Association. All rights reserved.) (This table was prepared December 1988.)

**Table 71.—Staff employed in public elementary and secondary school systems, by functional area: 1949-50 to fall 1987**

Year	Total	School district administrative staff					Instructional staff							
		Total	Intermediate district staff	School district superintendents	Assistants to superintendents	Supervisors of instruction	Total	Principals and assistant principals	Teachers	Teacher aides	Librarians	Guidance counselors	Psychological personnel	Other instructional staff
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1949-50	1,300,031	33,842	5,843	18,025	(1)	9,774	963,110	43,137	913,671	(2)	(2)	(2)	(2)	6,302
1959-60	2,069,253	42,429	9,901	13,361	5,386	13,775	1,457,329	63,554	1,353,372	(2)	17,363	14,643	2,121	6,277
1969-70	3,367,772	65,292	7,113	13,014	13,818	31,537	2,292,577	90,593	2,023,253	57,418	42,689	48,763	6,168	23,693
Fall 1980	4,167,608	78,784	—	13,289	44,961	20,554	2,856,895	107,061	2,183,538	325,755	48,018	63,973	14,033	116,517
Fall 1984	4,062,819	85,222	—	—	—	—	2,892,135	124,536	2,168,298	288,967	47,024	63,310	(5)	(5)
Fall 1985	4,160,521	87,404	—	—	—	—	2,757,129	129,297	2,206,884	306,860	47,442	66,646	(5)	(5)
Fall 1986	4,233,871	74,541	—	—	—	—	2,822,925	131,564	2,244,445	330,398	47,938	68,580	(5)	(5)
Fall 1987	4,312,469	75,134	—	—	—	—	2,868,577	133,464	2,278,613	337,061	48,215	71,024	(5)	(5)

Percentage distribution														
Year	Total	Intermediate district staff	School district superintendents	Assistants to superintendents	Supervisors of instruction	Total	Principals and assistant principals	Teachers	Teacher aides	Librarians	Guidance counselors	Psychological personnel	Other instructional staff	
1949-50	100.0	2.6	0.4	1.4	0.8	74.1	3.3	70.3	(2)	(2)	(2)	(2)	0.5	
1959-60	100.0	2.0	0.5	0.6	0.3	89.8	3.0	61.8	(2)	0.8	0.7	0.1	0.3	
1969-70	100.0	1.9	0.2	0.4	0.4	68.1	2.7	60.1	1.7	1.3	1.4	0.2	0.7	
Fall 1980	100.0	1.9	—	0.3	0.5	68.8	2.6	52.4	7.8	1.2	1.5	0.3	2.8	
Fall 1984	100.0	3.1	—	—	—	66.3	3.1	53.4	7.1	1.2	1.6	(5)	(5)	
Fall 1985	100.0	3.1	—	—	—	66.3	3.1	53.0	7.4	1.1	1.6	(5)	(5)	
Fall 1986	100.0	3.1	—	—	—	66.7	3.1	53.0	7.8	1.1	1.6	(5)	(5)	
Fall 1987	100.0	3.1	—	—	—	66.5	3.1	52.8	7.8	1.1	1.6	(5)	(5)	

Pupils per staff member														
Year	Total	Intermediate district staff	School district superintendents	Assistants to superintendents	Supervisors of instruction	Total	Principals and assistant principals	Teachers	Teacher aides	Librarians	Guidance counselors	Psychological personnel	Other instructional staff	
1949-50	19.3	748.4	4,297.7	1,393.1	—	2,569.2	26.1	582.1	27.5	(2)	(2)	(2)	3,984.7	
1959-60	18.6	829.3	3,553.4	2,633.2	6,532.2	2,554.1	24.1	553.6	26.0	(2)	2,026.3	2,402.7	16,589.1	
1969-70	13.5	696.8	8,413.4	3,505.3	3,349.9	3,146.5	19.9	503.6	22.5	794.5	1,068.6	935.5	7,396.0	
Fall 1980	9.6	520.2	—	3,088.9	3,911.8	3,199.4	14.3	382.8	18.8	125.8	853.6	640.7	2,920.7	
Fall 1984	9.7	602.5	—	—	—	—	14.6	315.5	18.1	136.0	835.6	620.7	(5)	
Fall 1985	9.5	586.1	—	—	—	—	14.3	305	17.9	128.8	832.8	592.8	(5)	
Fall 1986	9.4	534.4	—	—	—	—	14.1	302	17.7	120.6	831.0	580.9	(5)	
Fall 1987	9.3	532.7	—	—	—	—	14.0	299.9	17.6	118.7	830.1	563.5	(5)	

**Table 71.—Staff employed in public elementary and secondary school systems, by functional area: 1949-50 to fall 1987—Continued**

Year	Support staff						
	Total	Secretarial and clerical personnel	Transportation staff	Food service	Plant operation and maintenance	Health	Recreational and other staff
1	16	17	18	19	20	21	22
1949-50	303,280	31,824	1,626	68,814	105,874	5,412	5,730
1959-60	589,531	75,930	1,311	161,925	192,655	16,104	29,807
1969-70	1,009,913	164,478	1,535	270,338	273,395	26,582	99,791
Fall 1980	1,229,929	223,647	(5)	(5)	(5)	(5)	1,006,282
Fall 1984	1,305,262	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1985	1,335,988	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1986	1,338,205	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1987	1,368,758	(5)	(5)	(5)	(5)	(5)	(5)

Percentage distribution							
Year	Total	Secretarial and clerical personnel	Transportation staff	Food service	Plant operation and maintenance	Health	Recreational and other staff
1949-50	23.3	2.4	0.3	5.3	8.1	0.7	0.4
1959-60	28.2	3.8	0.2	7.8	9.2	0.8	1.4
1969-70	30.0	4.9	0.2	8.0	8.1	0.8	3.0
Fall 1980	29.5	5.4	(5)	(5)	(5)	(5)	24.1
Fall 1984	32.1	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1985	32.1	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1986	31.6	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1987	31.7	(5)	(5)	(5)	(5)	(5)	(5)

Pupils per staff member							
Year	Total	Secretarial and clerical personnel	Transportation staff	Food service	Plant operation and maintenance	Health	Recreational and other staff
1949-50	82.8	789.1	307.6	364.9	237.2	2,668.0	4,382.4
1959-60	59.7	463.4	311.0	217.3	182.6	2,184.7	1,180.3
1969-70	45.2	277.4	260.2	168.7	166.9	1,717.4	457.1
Fall 1980	33.3	183.3	(5)	(5)	(5)	(5)	340.7
Fall 1984	30.1	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1985	29.8	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1986	29.8	(5)	(5)	(5)	(5)	(5)	(5)
Fall 1987	29.2	(5)	(5)	(5)	(5)	(5)	(5)

1 Data included in column 5  
 2 Data included in column 10  
 3 Data not comparable with figures for other years  
 4 Data included in column 22  
 5 Data included in column 18  
 —Data not available

NOTE—Some data have been revised from previously published figures. Because of variations in data collection instruments, some categories are only roughly comparable over time. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems*, Common Core of Data survey, and unpublished estimates. (This table was prepared January 1989.)

Table 72.—Staff employed in public school systems, by type of assignment and State: Fall 1987

(In full-time equivalents)

State or other area	Total	School district staff		School staff						Other support services staff
		Officials and administrators	Administrative support staff	School administrators	School and library support staff	Teachers	Instructional aides	Guidance counselors	Librarians	
1	2	3	4	5	6	7	8	9	10	11
<b>United States<sup>1</sup> ..</b>	<b>4,312,469</b>	<b>75,134</b>	<b>141,347</b>	<b>133,464</b>	<b>188,699</b>	<b>2,278,813</b>	<b>337,061</b>	<b>71,024</b>	<b>48,215</b>	<b>1,038,512</b>
Alabama .....	70,655	1,480	—	1,910	2,147	37,716	3,677	1,023	1,207	21,495
Alaska <sup>2</sup> .....	7,285	196	73	357	—	6,113	277	112	130	27
Arizona .....	59,095	1,207	4,523	1,335	653	30,707	4,564	739	596	14,771
Arkansas .....	47,741	1,215	897	1,306	1,657	25,572	2,587	976	757	12,774
California .....	392,299	10,101	19,603	14,531	21,476	195,864	49,985	5,332	1,188	74,219
Colorado .....	59,263	987	2,253	2,421	3,812	31,168	4,052	990	776	12,857
Connecticut <sup>3</sup> .....	40,214	1,017	—	1,457	—	35,050	—	2,055	635	—
Delaware .....	10,790	145	355	374	442	5,951	718	—	174	119
District of Columbia .....	11,130	445	232	296	172	6,232	636	273	182	2,662
Florida .....	184,608	2,718	—	5,567	—	95,857	17,564	4,020	2,421	56,461
Georgia .....	119,320	637	3,775	4,105	4,014	62,280	11,898	1,319	1,859	29,433
Hawaii .....	18,036	184	—	420	—	7,684	1,339	441	258	7,710
Idaho .....	16,205	299	334	532	556	10,258	923	244	171	2,888
Illinois .....	186,595	1,706	—	4,236	1,654	105,217	11,555	2,686	2,169	57,372
Indiana .....	105,326	1,438	392	2,676	6,931	53,749	9,637	1,485	1,055	27,963
Iowa .....	56,670	612	872	1,425	4,271	30,873	3,050	928	680	13,959
Kansas .....	47,569	459	2,058	1,474	1,939	27,317	2,523	996	923	9,880
Kentucky .....	69,192	1,394	3,930	1,640	2,488	35,239	5,182	915	1,079	17,325
Louisiana .....	88,794	2,125	2,581	2,266	2,102	42,920	7,477	796	1,112	27,415
Maine .....	24,410	492	1,508	830	241	14,204	2,683	441	222	3,781
Maryland .....	73,717	304	2,201	2,327	3,328	40,093	5,316	1,403	1,041	17,704
Massachusetts .....	103,471	2,319	5,572	2,105	2,996	59,517	8,024	2,075	682	20,181
Michigan .....	170,034	2,741	13,330	12,020	5,565	80,081	12,457	3,676	1,551	38,613
Minnesota .....	74,027	1,609	3,260	1,634	3,102	42,132	6,389	855	766	14,280
Mississippi <sup>4</sup> .....	—	—	—	—	—	—	—	—	—	—
Missouri .....	96,736	1,194	—	4,101	—	49,632	3,540	1,902	1,273	35,094
Montana <sup>2</sup> .....	12,477	174	—	487	—	9,659	1,011	323	329	494
Nebraska .....	31,809	514	1,526	1,038	—	17,713	2,472	513	498	7,535
Nevada <sup>2</sup> .....	9,736	179	—	408	—	8,348	—	290	166	345
New Hampshire .....	18,635	147	576	567	1,169	10,363	1,501	481	192	3,639
New Jersey .....	141,257	1,863	12,546	5,119	22,237	76,335	8,193	2,778	1,587	8,594
New Mexico .....	29,347	341	—	726	1,820	15,175	3,070	496	230	6,871
New York .....	327,428	4,086	23,003	6,885	7,845	170,236	23,825	5,028	3,268	83,252
North Carolina .....	114,243	2,040	—	3,643	—	59,771	17,002	1,982	2,043	27,762
North Dakota .....	13,533	343	334	367	471	7,632	899	164	167	3,156
Ohio .....	184,815	5,278	6,087	4,743	14,375	99,641	7,721	2,920	1,701	42,349
Oklahoma .....	63,822	580	958	1,761	3,505	34,515	3,750	1,026	662	17,065
Oregon .....	47,211	895	1,636	1,397	2,387	24,911	3,995	1,064	759	10,167
Pennsylvania .....	185,629	7,808	6,920	3,859	6,981	103,307	10,187	3,169	1,921	41,477
Rhode Island .....	14,569	145	709	526	547	8,934	901	328	220	2,259
South Carolina .....	62,557	790	2,051	1,994	3,032	35,701	5,652	1,170	1,074	11,093
South Dakota .....	14,202	153	592	430	567	8,172	1,178	249	183	2,678
Tennessee .....	83,256	632	—	4,112	4,065	12,082	7,401	1,031	1,318	22,615
Texas .....	377,240	5,942	4,126	12,357	28,743	187,159	27,945	5,334	3,406	102,228
Utah .....	32,264	322	797	804	1,553	17,124	2,561	412	319	8,372
Vermont .....	12,755	374	264	685	680	5,939	1,279	274	175	2,086
Virginia .....	114,439	1,785	679	3,085	5,457	59,928	8,405	2,080	1,754	31,266
Washington .....	68,405	1,006	2,111	2,247	3,599	38,344	5,120	1,240	1,114	13,624
West Virginia .....	41,415	525	1,630	1,308	595	22,702	2,888	558	371	10,838
Wisconsin .....	80,340	1,051	2,119	2,019	4,411	47,721	5,812	1,457	1,136	14,614
Wyoming .....	13,373	333	304	324	798	6,798	1,266	170	133	3,247
<b>Outlying areas</b>										
American Samoa .....	1,206	22	75	64	45	656	24	22	8	290
Guam .....	2,884	11	—	60	128	1,407	73	51	26	1,128
Northern Marianas .....	512	—	16	31	63	305	62	7	8	20
Puerto Rico .....	42,314	313	26	2,230	482	33,069	2,278	615	729	2,572
Virgin Islands .....	3,254	126	268	85	118	1,590	332	68	43	624

<sup>1</sup> U.S. totals include imputations for Connecticut, Mississippi, Montana, and Nevada, which are not reflected in State totals.

<sup>2</sup> Support staff underreported.

<sup>3</sup> Support staff not reported.

<sup>4</sup> Data not reported.

—Data not available or not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, and unpublished estimates. (This table was prepared January 1989.)

**Table 73.—Staff employed in public school systems, by type of assignment and State: Fall 1986**

[In full-time equivalents]

State or other area	Total	School district staff		School staff						Other support services staff
		Officials and administrators	Administrative support staff	School administrators	School and library support staff	Teachers	Instructional aides	Guidance counselors	Librarians	
1	2	3	4	5	6	7	8	9	10	11
<b>United States<sup>1</sup></b>	<b>4,233,671</b>	<b>74,541</b>	<b>138,212</b>	<b>131,564</b>	<b>188,065</b>	<b>2,244,445</b>	<b>330,398</b>	<b>68,580</b>	<b>47,938</b>	<b>1,009,928</b>
Alabama	70,907	1,125	—	1,949	485	36,971	3,812	971	1,192	24,402
Alaska	9,810	349	18	369	1,063	6,448	1,184	166	156	57
Arizona	56,207	1,141	4,293	1,285	619	29,104	4,363	693	583	14,126
Arkansas	46,372	1,230	1,014	1,254	1,387	24,944	2,513	809	837	12,384
California	385,244	9,817	19,466	14,541	21,173	190,484	50,774	5,084	1,187	72,718
Colorado	58,537	1,061	1,982	2,397	4,015	30,704	3,963	976	757	12,682
Connecticut <sup>2</sup>	39,284	1,011	—	1,453	—	34,252	—	1,950	618	—
Delaware	10,597	139	356	383	438	5,883	658	162	117	2,461
District of Columbia	11,945	533	126	295	1,277	5,984	622	155	168	2,785
Florida	177,639	2,584	—	5,336	1,458	91,969	16,333	3,789	2,331	53,639
Georgia	111,317	659	3,739	3,614	3,849	57,881	10,093	1,220	1,848	28,414
Hawaii	15,892	181	—	391	—	7,291	935	427	251	6,416
Idaho	16,039	295	425	519	536	10,234	877	241	165	2,747
Illinois	185,572	1,842	—	4,204	1,605	104,609	11,329	2,764	2,199	57,020
Indiana	104,482	1,244	452	2,897	6,792	52,896	8,820	1,450	1,049	28,882
Iowa	56,825	620	872	1,400	4,280	30,958	2,831	896	679	14,289
Kansas	47,227	445	2,025	1,466	1,896	27,064	2,544	1,002	900	9,885
Kentucky	67,721	1,386	3,842	1,627	2,305	34,507	4,784	859	1,060	17,351
Louisiana	88,591	2,194	2,598	2,267	2,100	42,929	7,477	799	1,112	27,115
Maine	22,966	598	1,310	825	205	13,685	2,307	443	204	3,389
Maryland	72,931	248	2,023	2,289	3,306	39,491	5,034	1,370	1,037	18,133
Massachusetts	101,905	2,320	5,520	2,041	3,121	58,066	8,024	2,134	699	19,980
Michigan	171,931	2,612	13,202	11,979	5,401	83,130	11,920	3,488	1,557	38,642
Minnesota	69,836	1,592	3,109	1,547	2,961	40,957	5,114	860	759	12,937
Mississippi <sup>3</sup>	40,687	788	795	1,203	1,596	26,219	6,878	648	678	1,882
Missouri	91,609	1,212	—	3,631	—	48,902	3,490	1,890	1,280	31,204
Montana <sup>3</sup>	12,613	182	—	494	—	9,818	982	320	328	489
Nebraska	31,576	522	1,511	1,037	—	17,748	2,505	514	500	7,239
Nevada <sup>3</sup>	9,212	171	—	393	—	7,908	—	288	155	297
New Hampshire	18,387	147	576	567	1,106	10,300	1,542	457	186	3,506
New Jersey	139,541	2,429	12,166	5,074	22,289	75,558	7,817	2,357	1,608	10,243
New Mexico	28,548	490	614	708	1,773	14,876	2,591	479	224	6,793
New York	317,782	3,940	22,705	6,748	7,420	168,940	28,399	4,864	3,219	71,547
North Carolina	110,628	1,929	—	3,495	—	58,103	16,482	1,876	2,020	26,723
North Dakota	13,693	348	343	374	464	7,779	672	164	175	3,174
Ohio	182,796	5,238	5,768	4,760	14,279	98,894	7,345	2,927	1,705	41,880
Oklahoma	65,253	573	1,021	1,801	3,806	35,041	3,825	1,014	675	17,497
Oregon	46,598	903	1,582	1,392	2,362	24,615	3,828	1,064	758	10,094
Pennsylvania	184,868	7,808	6,828	3,884	7,012	102,993	9,703	3,150	1,916	41,574
Rhode Island	14,317	142	641	530	504	8,916	861	333	220	2,170
South Carolina	61,847	776	1,978	1,962	3,013	35,349	5,459	1,146	1,075	11,089
South Dakota	13,903	157	573	457	494	8,031	1,103	229	171	2,688
Tennessee	80,968	598	—	4,346	3,913	41,103	6,256	932	1,306	22,514
Texas	374,986	5,892	4,091	12,253	28,501	186,385	27,774	5,346	3,377	101,367
Utah	30,501	371	730	807	1,311	17,752	3,001	378	329	5,822
Vermont <sup>4</sup>	—	—	—	—	—	—	—	—	—	—
Virginia	108,455	1,582	561	2,857	4,886	58,141	8,137	1,905	1,678	28,708
Washington	65,955	1,029	2,008	2,265	3,297	37,065	4,755	1,205	1,092	13,239
West Virginia	41,653	531	1,651	1,319	613	22,931	2,824	548	372	10,864
Wisconsin	79,386	1,042	2,199	2,005	4,790	47,039	5,321	1,439	1,148	14,403
Wyoming	14,326	336	296	324	869	7,201	1,350	173	149	3,628
<b>Outlying areas</b>										
American Samoa	1,162	18	71	67	39	623	45	—	8	291
Guam	2,985	16	—	59	126	1,430	81	60	31	1,182
Northern Marianas	—	—	—	—	—	—	—	—	—	—
Puerto Rico	40,979	320	69	2,043	359	32,361	1,914	578	645	2,690
Virgin Islands	3,258	104	141	79	84	1,606	337	65	42	800

<sup>1</sup> U.S. totals include imputations for Connecticut, Mississippi, Montana, Nevada, and Vermont, which are not reflected in State totals

<sup>2</sup> Support staff not reported

<sup>3</sup> Support staff underreported

<sup>4</sup> Data not reported

—Data not available, not reported, or not applicable

NOTE—Some data have been revised from previously published figures

SOURCE U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, and unpublished estimates (This table was prepared January 1989)

Table 74.—Staff and teachers in public elementary and secondary schools, by State: Fall 1985 to Fall 1987

State or other area	Fall 1985			Fall 1986 <sup>1</sup>			Fall 1987		
	Staff	Teachers	Teachers as a percent of staff	Staff	Teachers	Teachers as a percent of staff	Staff	Teachers	Teachers as a percent of staff
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>2 4,160,521</b>	<b>2,206,884</b>	<b>2 53.0</b>	<b>2 4,233,671</b>	<b>2 2,244,445</b>	<b>2 53.0</b>	<b>2 4,312,469</b>	<b>2 2,278,813</b>	<b>2 52.8</b>
Alabama	68,992	36,138	52.4	70,907	36,971	52.1	70,655	37,716	53.4
Alaska	13,370	6,814	51.0	9,810	6,448	65.7	<sup>3</sup> 7,285	6,113	83.9
Arizona	53,675	27,935	52.0	56,207	29,104	51.8	59,095	30,707	52.0
Arkansas	46,411	24,767	53.4	46,372	24,944	53.8	47,741	25,572	53.6
California	378,883	184,151	48.6	385,244	190,484	49.4	392,299	195,864	49.9
Colorado	58,199	29,894	51.4	58,537	30,704	52.5	59,263	31,168	52.8
Connecticut	<sup>4</sup> 37,720	32,903	<sup>4</sup> 87.2	<sup>4</sup> 39,284	34,252	<sup>4</sup> 87.2	<sup>4</sup> 40,214	35,505	<sup>4</sup> 87.2
Delaware	10,370	5,745	55.4	10,597	5,883	55.5	10,790	5,951	55.2
District of Columbia	10,471	6,137	58.6	11,945	5,984	50.1	11,130	6,232	56.0
Florida	172,552	88,973	51.6	177,639	91,969	51.8	184,608	95,857	51.9
Georgia	108,735	57,374	52.8	111,317	57,881	52.0	119,320	62,280	52.2
Hawaii	17,100	7,276	42.5	15,892	7,291	45.9	18,036	7,684	42.6
Idaho	16,036	10,255	63.9	16,039	10,234	63.8	16,205	10,258	63.3
Illinois	181,515	102,657	56.6	185,572	104,609	56.4	186,595	105,217	56.4
Indiana	102,274	51,976	50.8	104,482	52,896	50.6	105,326	53,749	51.0
Iowa	58,779	31,770	54.0	56,825	30,958	54.5	56,670	30,873	54.5
Kansas	46,549	26,686	57.3	47,227	27,064	57.3	47,569	27,317	57.4
Kentucky	65,557	33,506	51.1	67,721	34,507	51.0	69,192	35,239	50.9
Louisiana	88,403	42,609	48.2	88,591	42,929	48.5	88,794	42,920	48.3
Maine	23,253	14,226	61.2	22,966	13,685	59.6	24,410	14,204	58.2
Maryland	71,264	38,433	53.9	72,931	39,491	54.1	73,717	40,093	54.4
Massachusetts	98,560	56,845	57.7	101,905	58,066	57.0	103,471	59,517	57.5
Michigan	168,603	82,193	48.7	171,931	83,130	48.4	170,034	80,081	47.1
Minnesota	70,721	41,314	58.4	69,836	40,957	58.6	74,027	42,132	56.9
Mississippi	55,580	26,102	47.0	<sup>3</sup> 40,687	26,219	<sup>3</sup> 64.4	—	—	—
Missouri	90,339	48,170	53.3	91,609	48,902	53.4	96,736	49,632	51.3
Montana	<sup>3</sup> 12,752	9,705	<sup>3</sup> 76.1	<sup>1</sup> 12,613	9,818	<sup>3</sup> 77.8	<sup>3</sup> 12,477	9,659	<sup>3</sup> 77.4
Nebraska	30,896	17,687	57.2	31,576	17,748	56.2	31,809	17,713	55.7
Nevada	<sup>3</sup> 8,865	7,751	<sup>3</sup> 87.4	<sup>3</sup> 9,212	7,908	<sup>3</sup> 85.8	<sup>3</sup> 9,736	8,348	<sup>3</sup> 85.7
New Hampshire	16,958	10,104	59.6	18,387	10,300	56.0	18,635	10,363	55.6
New Jersey	137,638	74,236	53.9	139,541	75,558	54.1	141,257	78,335	55.5
New Mexico	27,786	14,781	53.2	28,548	14,876	52.1	29,347	15,175	51.7
New York	311,704	165,573	53.1	317,782	168,940	53.2	327,428	170,236	52.0
North Carolina	109,934	57,638	52.4	110,628	58,103	52.5	114,243	59,771	52.3
North Dakota	13,671	7,796	57.0	13,693	7,779	56.8	13,533	7,652	56.4
Ohio	182,105	98,264	54.0	182,796	98,894	54.1	184,815	99,641	53.9
Oklahoma	66,858	35,752	53.5	65,253	35,041	53.7	63,822	34,515	54.1
Oregon	46,425	24,605	53.0	46,598	24,615	52.8	47,211	24,911	52.8
Pennsylvania	182,910	101,665	55.6	184,868	102,993	55.7	185,629	103,307	55.7
Rhode Island	13,962	8,844	63.3	14,317	8,916	62.3	14,569	8,934	61.3
South Carolina	61,132	34,645	56.7	61,847	35,349	57.2	62,557	35,701	57.1
South Dakota	14,559	8,340	57.3	13,903	8,031	57.8	14,202	8,172	57.5
Tennessee	78,321	40,023	51.1	80,968	41,103	50.8	83,256	42,082	50.5
Texas	357,365	181,051	50.7	374,986	186,385	49.7	377,240	187,159	49.6
Utah	29,486	17,126	58.1	30,501	17,752	58.2	32,264	17,124	53.1
Vermont	12,238	6,397	52.3	—	—	—	12,755	6,938	54.4
Virginia	105,659	57,339	54.3	108,455	58,141	53.6	114,439	59,928	52.4
Washington	64,159	36,202	56.4	65,955	37,065	56.2	68,405	38,344	56.1
West Virginia	41,347	22,733	55.0	41,653	22,931	55.1	41,415	22,702	54.8
Wisconsin	77,805	46,482	59.7	79,386	47,039	59.3	80,340	47,721	59.4
Wyoming	14,374	7,296	50.8	14,326	7,201	50.3	13,373	6,798	50.8
<b>Outlying areas</b>									
American Samoa	—	—	—	1,162	623	53.6	1,206	656	54.4
Guam	2,395	1,329	55.5	2,985	1,430	47.9	2,884	1,407	48.8
Northern Marianas	—	—	—	—	—	—	512	305	59.6
Puerto Rico	41,242	32,683	79.2	40,979	32,361	79.0	42,314	33,069	78.2
Virgin Islands	3,329	1,631	49.0	3,258	1,606	49.3	3,254	1,590	48.9

<sup>1</sup> Some data have been revised from previously published figures<sup>2</sup> U.S. totals include imputations for underreporting and nonreporting States<sup>3</sup> Support staff underreported<sup>4</sup> Support staff not reported

— Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, and unpublished estimates (This table was prepared January 1989)

**Table 75.—Staff, enrollment, and pupil-staff ratios in public elementary and secondary schools, by State:  
Fall 1985 to fall 1987**

State or other area	Fall 1985			Fall 1986 <sup>1</sup>			Fall 1987		
	Staff	Enrollment	Pupil-staff ratio	Staff	Enrollment	Pupil-staff ratio	Staff	Enrollment	Pupil-staff ratio
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<sup>2</sup> 4,160,521	<sup>3</sup> 39,508,625	<sup>2</sup> 9.5	<sup>2</sup> 4,233,671	<sup>3</sup> 39,837,459	<sup>2</sup> 9.4	<sup>2</sup> 4,312,469	<sup>4</sup> 40,024,244	<sup>2</sup> 9.3
Alabama.....	68,992	730,460	10.6	70,907	733,735	10.3	70,655	729,234	10.3
Alaska.....	13,370	107,345	8.0	9,810	107,973	11.0	37,285	105,678	14.5
Arizona.....	53,675	548,252	10.2	56,207	534,538	9.5	59,095	572,421	9.7
Arkansas.....	46,411	433,410	9.3	46,372	437,438	9.4	47,741	437,036	9.2
California.....	378,883	4,255,554	11.2	385,244	4,377,989	11.4	392,299	4,489,322	11.4
Colorado.....	58,199	550,642	9.5	58,537	558,415	9.5	59,263	560,236	9.5
Connecticut.....	<sup>4</sup> 37,720	462,026	<sup>4</sup> 12.2	<sup>4</sup> 39,284	468,847	<sup>4</sup> 11.9	<sup>4</sup> 40,214	465,465	<sup>4</sup> 11.6
Delaware.....	10,370	92,901	9.0	10,597	94,410	8.9	10,790	95,659	8.9
District of Columbia	10,471	87,092	8.3	11,945	85,612	7.2	11,130	86,435	7.8
Florida.....	172,552	1,562,283	9.1	177,639	1,607,320	9.0	184,608	1,664,774	9.0
Georgia.....	108,735	1,079,594	9.9	111,317	1,096,425	9.8	119,320	1,110,947	9.3
Hawaii.....	17,100	164,169	9.6	15,892	164,640	10.4	18,036	166,160	9.2
Idaho.....	16,036	208,669	13.0	10,039	208,391	13.0	16,205	212,444	13.1
Illinois.....	181,515	1,826,478	10.1	185,572	1,825,185	9.8	186,595	1,811,446	9.7
Indiana.....	102,274	966,106	9.4	104,482	966,780	9.3	105,326	964,129	9.2
Iowa.....	58,779	485,332	8.3	56,825	481,286	8.5	56,670	480,826	8.5
Kansas.....	46,549	410,229	8.8	47,227	416,091	8.8	47,569	421,112	8.9
Kentucky.....	65,557	643,833	9.8	67,721	642,778	9.5	69,192	642,696	9.3
Louisiana.....	88,403	788,349	8.9	88,591	795,188	9.0	88,794	793,093	8.9
Maine.....	23,253	206,101	8.9	22,966	211,752	9.2	24,410	211,817	8.7
Maryland.....	71,264	671,560	9.4	72,931	675,747	9.3	73,717	683,797	9.3
Massachusetts.....	98,560	844,330	8.6	101,905	833,918	8.2	103,771	825,320	8.0
Michigan.....	168,603	1,689,828	10.0	171,931	1,681,880	9.8	170,034	1,606,344	9.4
Minnesota.....	70,721	705,140	10.0	69,836	711,134	10.2	74,027	721,431	9.7
Mississippi.....	55,580	471,195	8.5	<sup>3</sup> 40,687	498,639	<sup>3</sup> 12.3	—	505,550	—
Missouri.....	90,339	795,107	8.8	91,609	800,606	8.7	96,736	802,060	8.3
Montana.....	<sup>3</sup> 12,752	153,869	<sup>3</sup> 12.1	<sup>3</sup> 12,613	153,327	<sup>3</sup> 12.2	<sup>3</sup> 12,777	152,207	<sup>3</sup> 12.2
Nebraska.....	30,896	265,819	8.6	31,576	267,139	8.5	31,809	268,100	8.4
Nevada.....	<sup>3</sup> 8,865	154,948	<sup>3</sup> 17.5	<sup>4</sup> 9,212	161,239	<sup>3</sup> 17.5	<sup>3</sup> 9,736	168,353	<sup>3</sup> 17.3
New Hampshire	16,958	160,974	9.5	18,387	163,717	8.9	18,635	166,045	8.9
New Jersey.....	137,638	1,116,194	8.1	139,541	1,146,467	7.9	141,257	1,092,982	7.7
New Mexico.....	27,786	277,551	10.0	28,548	281,943	9.9	29,347	287,229	9.8
New York.....	311,704	2,621,378	8.4	317,782	2,607,719	8.2	327,428	2,594,070	7.9
North Carolina.....	109,934	1,086,165	9.9	110,628	1,085,248	9.8	114,243	1,085,976	9.5
North Dakota.....	13,671	118,570	8.7	13,693	118,703	8.7	13,533	119,004	8.8
Ohio.....	182,105	1,793,965	9.9	182,796	1,793,508	9.8	184,815	1,793,411	9.7
Oklahoma.....	66,858	592,327	8.9	65,253	593,183	9.1	63,822	584,212	9.2
Oregon.....	46,425	447,527	9.6	46,598	449,307	9.6	47,211	455,895	9.7
Pennsylvania.....	182,910	1,683,221	9.2	184,868	1,674,161	9.1	185,629	1,668,542	9.0
Rhode Island.....	13,962	133,442	9.6	14,317	134,126	9.4	14,569	134,061	9.2
South Carolina.....	61,132	606,643	9.9	61,847	611,629	9.9	62,557	614,921	9.8
South Dakota.....	14,559	124,291	8.5	13,903	125,458	9.0	14,202	126,817	8.9
Tennessee.....	78,321	813,753	10.4	80,968	818,073	10.1	83,256	823,783	9.9
Texas.....	357,365	3,131,705	8.8	374,986	3,209,515	8.6	377,240	3,236,787	8.6
Utah.....	29,486	493,395	13.7	30,501	415,994	13.6	32,264	423,386	13.1
Vermont.....	12,238	90,157	7.4	—	92,112	—	12,755	92,755	7.3
Virginia.....	105,659	968,104	9.2	108,455	975,135	9.0	114,439	979,417	8.6
Washington.....	64,159	749,706	11.7	65,955	761,428	11.5	68,405	775,755	11.3
West Virginia.....	41,347	357,923	8.7	41,653	351,837	8.4	41,415	344,236	8.3
Wisconsin.....	77,805	768,234	9.9	79,386	767,819	9.7	80,340	772,363	9.6
Wyoming.....	14,374	102,779	7.2	14,326	100,955	7.0	13,373	98,455	7.4
<b>Outlying areas</b>									
American Samoa.....	—	—	—	1,162	11,055	9.5	1,206	11,248	9.3
Guam.....	2,395	26,043	10.9	2,985	25,676	8.6	2,884	25,936	9.0
Northern Marianas.....	—	—	—	—	—	—	512	5,819	11.4
Puerto Rico.....	41,242	686,894	16.7	40,979	679,489	16.6	42,314	672,837	15.9
Virgin Islands.....	3,329	25,386	7.6	3,258	24,435	7.5	3,254	24,020	7.4

<sup>1</sup> Some data revised from previously published figures

<sup>2</sup> U.S. totals include imputations for underreporting and nonreporting States

<sup>3</sup> Support staff underreported

<sup>4</sup> Support staff not reported

— Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, and unpublished estimates (This table was prepared January 1989)



**Table 76.—Selected characteristics of secondary school principals: 1965, 1977, and 1987**

[Percentage distribution]

Item	1965	1977	1987	Item	1965	1977	1987
1	2	3	4	1	2	3	4
<b>Sex</b>				<b>Years as principal</b>			
Total .....	100	100	100	Total .....	100	100	100
Male .....	89	93	88	1 to 3 .....	22	19	23
Female .....	10	7	12	4 to 5 .....	13	15	10
				6 to 7 .....	11	12	13
				8 to 9 .....	10	11	10
				10 to 14 .....	18	21	22
				15 to 19 .....	10	11	12
				20 or more .....	15	10	11
<b>Race</b>				<b>Undergraduate major</b>			
Total .....	100	100	100	Total .....	100	100	100
White .....	—	96	94	Business .....	6	7	4
Black .....	—	3	4	Education .....	12	12	14
Other .....	—	1	3	Fine arts/humanities .....	31	15	16
				Physical education .....	11	17	16
				Sciences .....	18	20	20
				Social sciences .....	14	26	24
				Other .....	9	2	7
<b>Age</b>				<b>Average work week</b>			
Total .....	100	100	100	Total .....	100	100	100
24 to 34 .....	16	9	3	Fewer than 40 .....	8	0	0
35 to 39 .....	18	16	16	40 to 49 .....	17	17	14
40 to 44 .....	16	22	24	50 to 59 .....	45	61	59
45 to 49 .....	15	22	21	60 or more .....	29	22	27
50 to 54 .....	15	19	19				
55 and over .....	20	13	16	<b>Would make same career choice again</b>			
				Total .....	( <sup>1</sup> )	100	100
<b>Highest degree held</b>				Definitely yes .....	( <sup>1</sup> )	37	43
Total .....	100	100	100	Probably, yes .....	( <sup>1</sup> )	32	29
Less than bachelor's .....	0	0	0	Uncertain .....	( <sup>1</sup> )	15	15
Bachelor's .....	10	1	1	Probably not .....	( <sup>1</sup> )	12	11
Master's .....	39	14	17	Definitely not .....	( <sup>1</sup> )	3	3
Master's degree with additional courses .....	41	56	44				
Special degree or equivalent .....	6	9	16				
Master's degree plus all doctoral courses .....	6	9	8				
Doctoral degree (Ph.D. or Ed.D.) .....	1	9	13				
Other .....	1	2	1				

<sup>1</sup> Data not comparable to later years  
 —Data not available

SOURCE National Association of Secondary School Principals, *High School Leaders and Their Schools*, Vol. I, 1988 (This table was prepared November 1988)

**Table 77.—Secondary school principals' beliefs about educational issues and purposes: 1965, 1977, and 1987**

Beliefs about educational issues	Percent agreeing with statement			Beliefs about educational purposes	Rank		
	1965	1977	1987		1965	1977	1987
1	2	3	4	5	6	7	8
School programs should include instruction on drug/alcohol abuse ...	—	—	92	Acquisition of basic skills	1	1	1
High schools should develop special programs for gifted students.....	19	92	92	Development of positive self-concept and good human relations	7	2	2
High schools should develop special programs for the handicapped, ethnic minority, and non-English-speaking .....	—	75	65	Development/practice of intellectual inquiry and problem solving.....	4	3	3
Computer competence is essential for all students.....	—	—	69	Preparation for a changing world .....	5	8	4
More stringent requirements are needed for all students in traditional academic subjects .....	—	—	63	Development of moral/spiritual values .....	2	4	5
Schools require far too little academic work of students.....	16	56	46	Career planning and training in specific entry-level occupational skills	—	5	6
Standardized testing in all subjects is necessary to improve instruction .....	—	—	40	Understanding of the American value system (political, economic, social)	3	7	7
Disinterested youth or those hostile toward school should not be required to attend high school.....	34	59	47	Development of skills to operate in a technological society.....	8	10	8
School attendance should be compulsory to high school graduation or age 18 .....	39	15	34	Develop knowledge and skills in preparation for family life.....	—	6	9
The academic year should be lengthened	22	12	32	Physical fitness and useful leisure-time sports .....	6	9	10
				Appreciation for and experience with the fine arts .....	—	11	11

—Data not available

SOURCE National Association of Secondary School Principals, *High School Leaders and Their Schools*, Vol 1, 1988 (This table was prepared November 1988)

**Table 78.—Administrative roadblocks reported by secondary school principals: 1965, 1977, and 1987**

Problem	Percent		
	1965	1977	1987
1	2	3	4
Time taken up by administrative detail	87	90	83
Lack of time .....	86	86	79
Inability to obtain funds .....	—	79	76
Apathetic or irresponsible parents .....	—	79	70
New State guidelines and requirements .....	—	—	69
Time to administer/supervise student activities .....	—	—	68
Variations in the ability of teachers .....	88	84	64
Inability to provide teachers time for professional development .....	83	59	62
Insufficient space and facilities .....	78	66	61
Resistance to change by staff .....	64	56	57
Problem students .....	—	76	55
Defective communications among administrative levels .....	41	54	55
Longstanding traditions .....	47	40	51

—Data not available

SOURCE National Association of Secondary School Principals, *High School Leaders and Their Schools*, Vol 1, 1988 (This table was prepared November 1988)

**Table 79.—Public school districts and public and private elementary and secondary schools: 1929-30 to 1987-88**

School year	Public school districts <sup>1</sup>	Public schools <sup>2</sup>			Private schools <sup>2,3</sup>	
		Elementary schools		Secondary schools	Elementary	Secondary
		Total	One-teacher			
1	2	3	4	5	6	7
1929-30	—	238,306	149,282	23,930	9,275	3,258
1931-32	127,531	232,750	143,391	26,409	9,734	3,289
1933-34	—	236,236	139,166	24,714	9,992	3,327
1935-36	—	232,174	131,101	25,652	9,992	3,327
1937-38	119,001	221,660	121,178	25,467	9,992	3,327
1939-40	117,108	—	113,600	—	11,306	3,568
1941-42	115,493	183,112	107,692	25,123	10,285	3,011
1943-44	111,383	169,905	96,302	28,973	10,285	3,011
1945-46	101,382	160,227	86,563	24,314	9,863	3,294
1947-48	94,926	146,760	75,096	25,484	10,071	3,292
1949-50	83,718	128,225	59,652	24,542	10,375	3,331
1951-52	71,094	123,763	50,742	23,746	10,666	3,322
1953-54	63,057	110,875	42,865	25,637	11,739	3,913
1955-56	54,859	104,427	34,964	26,046	12,372	3,887
1957-58	47,594	95,446	25,341	25,507	13,065	3,994
1959-60	40,520	91,853	20,213	25,784	13,574	4,061
1961-62	35,676	81,910	13,333	25,350	14,762	4,129
1963-64	31,705	77,584	9,895	26,431	—	4,451
1965-66	26,983	73,216	6,491	26,597	15,340	4,606
1967-68	22,010	70,879	4,146	27,011	—	—
1970-71	17,995	65,800	1,815	25,352	14,372	3,770
1973-74	16,730	65,070	1,365	25,906	—	—
1975-76	16,376	63,242	1,166	25,330	—	—
1976-77	16,271	62,644	1,111	25,378	16,385	5,904
1978-79	16,014	61,982	1,056	24,504	16,097	5,766
1980-81	15,912	61,069	921	24,362	16,792	5,678
1982-83	15,824	59,656	798	27,988	—	—
1983-84	15,747	59,082	838	23,947	420,872	47,862
1984-85	—	58,827	825	23,916	—	—
1985-86	—	—	—	—	420,252	47,387
1986-87	<sup>5</sup> 15,713	60,784	763	23,389	—	—
1987-88	<sup>5</sup> 15,577	61,490	729	22,937	—	—

<sup>1</sup> Includes operating and nonoperating districts  
<sup>2</sup> Schools with both elementary and secondary programs are included under elementary schools and also under secondary schools  
<sup>3</sup> Data for most years are partly estimated  
<sup>4</sup> This figure is from a sample survey and should not be compared directly with the data for earlier years  
<sup>5</sup> Because of expanded survey coverage, data are not directly comparable with figures for earlier years  
 —Data not available

NOTE—Excludes schools not reported by level, such as special education schools for the handicapped. Some data revised from previously published figures

SOURCE U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Statistics of Public Elementary and Secondary School Systems, Statistics of Nonpublic Elementary and Secondary Schools, Private Schools in American Education*, and Common Core of Data survey (This table was prepared February 1989)

**Table 80.—Public school districts and enrollment, by size of district: 1986-87 and 1987-88**

Enrollment size of district	1986-87			1987-88		
	Number of districts	Percent of districts	Percent of students	Number of districts	Percent of districts	Percent of students
1	2	3	4	5	6	7
<b>Total</b>	<b>15,713</b>	<b>100.0</b>	<b>100.0</b>	<b>15,577</b>	<b>100.0</b>	<b>100.0</b>
25,000 or more	173	1.1	27.9	171	1.1	27.3
10,000 to 24,999	447	2.8	17.1	464	3.0	17.4
5,000 to 9,999	915	5.8	16.5	937	6.0	16.5
2,500 to 4,999	1,823	11.6	16.4	1,912	12.3	16.8
1,000 to 2,499	3,504	22.3	14.7	3,561	22.9	14.7
600 to 999	1,754	11.2	3.5	1,796	11.5	3.6
300 to 599	2,257	14.4	2.5	2,290	14.7	2.5
1 to 299	4,071	25.9	1.3	4,041	25.9	1.3
Size not reported <sup>1</sup>	769	4.9	—	405	2.6	—

<sup>1</sup> Includes school districts reporting enrollment of 0  
 —Data not reported

SOURCE U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared April 1989)

NOTE—Because of rounding, details may not add to totals

**Table 81.—Number and percentage of public elementary and secondary education agencies, by State and type of agency: 1987-88**

State or other area	Total agencies	Regular school districts, including supervisory union components		Regional education service agencies and supervisory union administrative centers		State-operated agencies		Federally-operated and other agencies	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7	8	9	10
<b>United States</b> .....	<b>17,063</b>	<b>15,577</b>	<b>91.3</b>	<b>1,144</b>	<b>6.7</b>	<b>183</b>	<b>1.1</b>	<b>159</b>	<b>0.9</b>
Alabama .....	132	129	97.7	0	0.0	0	0.0	3	2.3
Alaska .....	56	55	98.2	0	0.0	1	1.8	0	0.0
Arizona .....	242	240	99.2	2	0.8	0	0.0	0	0.0
Arkansas .....	352	331	94.0	18	5.1	3	0.9	0	0.0
California .....	1,157	1,084	93.7	67	5.8	6	0.5	0	0.0
Colorado .....	199	177	88.9	21	10.6	1	0.5	0	0.0
Connecticut .....	176	166	94.3	6	3.4	4	2.3	0	0.0
Delaware .....	22	19	86.4	0	0.0	3	13.6	0	0.0
District of Columbia .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Florida .....	67	67	100.0	0	0.0	0	0.0	0	0.0
Georgia .....	186	186	100.0	0	0.0	0	0.0	0	0.0
Hawaii .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Idaho .....	115	115	100.0	0	0.0	0	0.0	0	0.0
Illinois .....	1,069	986	92.2	46	4.3	5	0.5	32	3.0
Indiana .....	331	303	91.5	24	7.3	3	0.9	1	0.3
Iowa .....	468	436	93.2	15	3.2	17	3.6	0	0.0
Kansas .....	304	304	100.0	0	0.0	0	0.0	0	0.0
Kentucky .....	258	178	69.0	0	0.0	78	30.2	2	0.8
Louisiana .....	89	66	74.2	6	6.7	6	6.7	11	12.4
Maine .....	298	200	67.1	97	32.6	0	0.0	1	0.3
Maryland .....	24	24	100.0	0	0.0	0	0.0	0	0.0
Massachusetts .....	428	396	92.5	32	7.5	0	0.0	0	0.0
Michigan .....	624	563	90.2	57	9.1	4	0.6	0	0.0
Minnesota .....	505	436	86.3	69	13.7	0	0.0	0	0.0
Mississippi .....	167	152	91.0	15	9.0	0	0.0	0	0.0
Missouri .....	545	544	99.8	1	0.2	0	0.0	0	0.0
Montana .....	632	550	87.0	80	12.7	2	0.3	0	0.0
Nebraska .....	1,010	891	88.2	112	11.1	7	0.7	0	0.0
Nevada .....	17	17	100.0	0	0.0	0	0.0	0	0.0
New Hampshire .....	229	173	75.5	0	0.0	0	0.0	56	24.5
New Jersey .....	622	604	97.1	15	2.4	3	0.5	0	0.0
New Mexico .....	88	88	100.0	0	0.0	0	0.0	0	0.0
New York .....	763	722	94.6	41	5.4	0	0.0	0	0.0
North Carolina .....	142	140	98.6	0	0.0	2	1.4	0	0.0
North Dakota .....	353	303	85.8	39	11.0	5	1.4	6	1.7
Ohio .....	797	703	88.2	92	11.5	2	0.3	0	0.0
Oklahoma .....	655	611	93.3	20	3.1	0	0.0	24	3.7
Oregon .....	340	304	89.4	29	8.5	6	1.8	1	0.3
Pennsylvania .....	601	501	83.4	98	16.3	2	0.3	0	0.0
Rhode Island .....	41	40	97.6	0	0.0	1	2.4	0	0.0
South Carolina .....	95	91	95.8	0	0.0	3	3.2	1	1.1
South Dakota .....	227	194	85.5	13	5.7	0	0.0	20	8.8
Tennessee .....	141	141	100.0	0	0.0	0	0.0	0	0.0
Texas .....	1,095	1,063	97.1	20	1.8	11	1.0	1	0.1
Utah .....	48	40	83.3	6	12.5	2	4.2	0	0.0
Vermont .....	334	275	82.3	59	17.7	0	0.0	0	0.0
Virginia .....	157	136	86.6	19	12.1	2	1.3	0	0.0
Washington .....	296	296	100.0	0	0.0	0	0.0	0	0.0
West Virginia .....	55	55	100.0	0	0.0	0	0.0	0	0.0
Wisconsin .....	451	431	95.6	20	4.4	0	0.0	0	0.0
Wyoming .....	58	49	84.5	5	8.6	4	6.9	0	0.0
<b>Outlying areas</b>									
American Samoa .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Guam .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Northern Marianas .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Puerto Rico .....	1	1	100.0	0	0.0	0	0.0	0	0.0
Virgin Islands .....	1	1	100.0	0	0.0	0	0.0	0	0.0

SOURCE U.S. Department of Education, National Center for Education Statistics.  
Common Core of Data survey (This table was prepared November 1988.)

Table 82.—Enrollment of the 130 largest public school districts: Fall 1987

Name of school district	State	Rank order <sup>1</sup>	Enrollment, fall 1987	Name of school district	State	Rank order <sup>1</sup>	Enrollment, fall 1987
1	2	3	4	1	2	3	4
New York City Schools	N Y	1	939,933	Davis County	Utah	66	49,684
Los Angeles Unified	Calif	2	568,754	Brevard County	Fla	67	49,510
City Of Chicago	Ill	3	419,537	Ysleta ISD	Tex	68	49,316
Dade County Schools	Fla	4	253,720	Northside ISD	Tex	69	46,822
Philadelphia City	Pa	5	194,698	San Juan Unified	Calif	70	46,710
Houston ISD	Tex	6	191,708	Buffalo City Schools	N Y	71	46,282
Detroit	Mich	7	181,583	Jefferson County	Ala	72	46,233
Hawaii Dept Of Education	Hi	8	168,180	St Louis City	Mo	73	46,128
Broward County	Fla	9	137,366	Sacramento City Unified	Calif	74	46,064
Delaware ISD	Tex	10	130,885	Wichita	Kans	75	45,689
Hillsborough County	Fla	11	118,171	Cumberland County	N C	76	44,216
San Diego City Unified	Calif	12	116,557	Seattle	Wash	77	43,850
Fairfax County	Va	13	112,589	Toledo City	Ohio	78	43,574
Baltimore City	Md	14	110,189	Seminole County	Fla	79	43,511
Memphis City	Tenn	15	107,345	Birmingham City	Ala	80	42,987
Duval County	Fla	16	105,049	Tulsa City	Okla	81	42,738
Prince George's County	Md	17	104,412	Charleston County	S C	82	42,501
Clark County	Nev	18	100,027	Escambia County	Fla	83	42,066
Montgomery County	Md	19	96,271	Corpus Christi ISD	Tex	84	41,650
Jefferson County	Ky	20	93,198	Volusia County	Fla	85	41,829
Milwaukee	Wis	21	91,648	Omaha Public Schools	Nebr	86	41,416
Palm Beach County	Fla	22	89,940	Arlington ISD	Tex	87	41,414
Orange County	Fla	23	88,878	Anchorage	Alaska	88	40,941
Pinellas County	Fla	24	88,866	Fulton County	Ga	89	40,154
D C Public Schools	D C	25	86,435	Minneapolis Special	Minn	90	39,993
Orleans Parish School Board	La	26	84,201	Pittsburgh City	Pa	91	39,921
Albuquerque	N Mex	27	82,416	Oklahoma City	Okla	92	39,149
Baltimore County	Md	28	81,152	North East ISD	Tex	93	38,688
Jefferson County	Colo	29	75,337	Forsyth County—Winston-Salem	N C	94	38,588
Mecklenburg County-Charlotte	N C	30	74,680	Santa Ana Unified	Calif	95	38,184
DeKalb County	Ga	31	73,865	Lee County	Fla	96	37,708
Granite	Utah	32	73,312	Aldine ISD	Tex	97	37,657
Cleveland City	Ohio	33	72,639	Kanawha County	W Va	98	36,636
Mobile County	Ala	34	67,619	Garden Grove Unified	Calif	99	36,289
Nashville-Davidson County	Tenn	35	67,538	Chesterfield County	Va	100	36,056
Fort Worth ISD	Tex	36	67,191	Alpine	Utah	101	36,005
Columbus City	Ohio	37	65,562	Montgomery County Schools	Ala	102	35,964
Atlanta City	Ga	38	65,417	Kansas City	Mo	103	35,500
Anne Arundel County	Md	39	64,432	Brownsville ISD	Tex	104	35,255
Cobb County	Ga	40	64,172	San Bernardino City Unified	Calif	105	35,033
San Francisco Unified	Calif	41	63,881	Prince William County	Va	106	34,960
Long Beach Unified	Calif	42	62,641	Pasadena ISD	Tex	107	34,880
El Paso ISD	Tex	43	61,800	Garland ISD	Tex	108	34,603
Fresno Unified	Calif	44	61,539	Akron City	Ohio	109	34,563
San Antonio ISD	Tex	45	61,501	Washoe County	Nev	110	34,538
Austin ISD	Tex	46	61,402	Cypress-Fairbanks ISD	Tex	111	34,073
Polk County	Fla	47	61,391	Clayton County	Ga	112	33,893
Jordan	Utah	48	61,230	Shelby County	Tenn	113	33,752
Wake County	N C	49	59,687	Richmond County	Ga	114	33,373
Boston	Mass	50	59,445	Calcasieu Parish School Board	La	115	33,192
Denver County	Colo	51	59,439	Saint Paul	Minn	116	32,981
Mesa Unified	Ariz	52	59,367	Chatham County	Ga	117	32,616
Virginia Beach City	Va	53	58,783	Norfolk City	Va	118	32,511
Jefferson Parish School Board	La	54	57,827	Jackson Municipal	Miss	119	32,493
East Baton Rouge Parish School Board	La	55	57,810	Fort Wayne Community Schools	Ind	120	32,405
Tucson Unified	Ariz	56	55,175	Anoka	Minn	121	32,375
Gwinnett County	Ga	57	54,754	Rochester City Schools	N Y	122	32,241
Cincinnati City	Ohio	58	53,078	Richardson ISD	Tex	123	32,080
Portland	Oreg	59	52,996	Mt Diablo Unified	Calif	124	31,783
Caddo Parish School Board	La	60	52,930	Dayton City	Ohio	125	31,392
Oakland Unified	Calif	61	51,298	Gaston County	N C	126	31,217
Newark	N J	62	50,888	Fayette County	Ky	127	31,191
Greenville County	S C	63	50,886	Montebello Unified	Calif	128	31,154
Knox County	Tenn	64	50,533	Stockton City Unified	Calif	129	31,051
Indianapolis Public Schools	Ind	65	50,496	Colorado Springs	Colo	130	30,702

<sup>1</sup> Public school districts ranked by size of enrollment in fall 1987  
 ISD = Independent School District

SOURCE U S Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared April 1989)

Table 83.—Selected statistics for public school districts enrolling more than 20,000 pupils, by State: 1986-87

Name of district, by State	State	1987 Enrollment	Classroom teachers, <sup>1</sup> 1987	Pupils per teacher 1987	Number of schools, 1987	Revenues and expenditures <sup>2</sup> 1986-87 (in thousands of dollars)								Current expenditure per pupil, 1986-87 <sup>4</sup> (in dollars)	
						Revenue receipts				Total expenditures <sup>3</sup>	Current expenditures		Capital outlay		Interest on school debt
						Total	Federal	State	Local		Total	Instruction			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Districts with more than 20,000 students.	—	12,248,325	602,274	20.3	17,307	\$46,460,028	\$3,447,414	\$22,882,129	\$20,130,485	\$45,697,258	\$42,111,097	\$24,677,848	\$2,868,480	\$717,681	\$3,501
Anchorage	Alaska	40,941	1,986	20.8	79	281,874	8,724	202,132	71,018	281,779	233,727	142,704	37,805	10,246	5,502
Birmingham City	Ala	42,987	2,076	20.7	90	110,611	15,396	59,960	35,255	106,538	103,094	56,748	3,372	72	2,328
Huntsville City	Ala	25,127	1,318	19.1	39	71,214	10,382	35,921	24,931	72,993	66,075	37,774	6,020	798	2,587
Jefferson County	Ala	46,233	2,278	20.3	74	110,089	8,984	68,199	35,906	110,028	107,324	64,344	1,152	1,552	2,314
Mobile County	Ala	87,616	3,110	21.7	86	147,389	20,122	91,599	35,668	153,065	141,759	81,873	8,834	2,471	2,068
Montgomery County Schools	Ala	35,964	1,784	20.2	51	78,681	12,212	48,636	17,833	79,197	74,550	44,935	4,647	0	2,079
Mesa Unified.	Ariz	59,387	2,700	22.0	59	173,285	8,014	101,648	65,625	176,868	131,620	78,461	34,814	10,433	2,274
Paradise Valley Unified	Ariz	24,858	1,204	20.8	27	76,174	1,606	41,383	33,205	72,371	62,177	36,242	5,323	4,870	2,467
Tucson Unified	Ariz	55,175	2,320	23.8	87	194,508	10,096	101,110	63,302	198,791	179,838	105,120	18,434	519	3,070
Washington School	Ariz	21,583	1,097	19.7	32	66,660	2,284	42,452	21,923	66,895	58,255	37,944	6,996	1,444	2,509
Little Rock .....	Ark	26,854	1,546	17.4	50	58,510	8,178	17,021	35,312	63,556	56,445	35,027	5,933	1,179	2,925
Pulaski County Special	Ark	22,280	1,186	18.8	37	82,381	4,544	41,114	36,724	81,197	72,997	43,990	5,469	2,731	2,409
ABC Unified.	Calif	21,416	861	24.9	29	81,728	3,335	62,265	18,128	77,922	75,238	45,781	2,354	330	3,379
Anaheim Union High	Calif	21,804	897	24.3	19	97,692	2,345	59,517	31,830	81,543	79,050	46,583	1,737	756	3,311
Bakersfield City Elementary	Calif	21,225	915	23.2	32	85,109	5,476	42,750	18,883	81,398	59,281	35,688	2,116	0	3,062
Capistrano Unified	Calif	21,920	919	23.9	26	83,973	666	30,454	32,853	58,907	54,784	33,181	2,979	1,144	2,826
Compton Unified	Calif	26,205	1,125	23.3	35	109,397	12,312	63,135	13,950	102,853	99,998	54,700	2,764	91	3,786
East Side Union High	Calif	22,507	943	23.9	12	86,540	4,187	52,903	31,450	82,384	78,740	43,708	2,562	1,081	3,451
Fremont Unified	Calif	25,974	1,118	23.2	38	84,761	2,585	58,935	23,241	79,941	78,668	48,156	1,103	170	3,043
Fresno Unified	Calif	61,539	2,818	23.5	84	211,253	17,241	156,572	37,441	199,854	189,893	115,319	9,704	257	3,422
Garden Grove Unified	Calif	36,289	1,474	24.8	57	127,960	6,661	80,710	40,569	121,569	118,292	74,521	3,039	238	3,325
Glendale Unified	Calif	21,332	833	25.6	28	67,797	3,473	48,877	15,648	65,011	62,544	37,865	2,404	62	3,157
Hacienda La Puente Unified	Calif	22,782	874	26.0	35	88,228	4,574	69,813	13,841	84,956	82,772	51,149	2,184	0	3,877
Lodi Unified.....	Calif	21,379	899	23.8	35	81,844	2,118	48,664	11,065	81,120	55,372	34,780	5,137	610	3,045
Long Beach Unified.	Calif	62,641	—	—	—	227,157	19,447	171,101	36,609	215,997	212,101	123,783	3,896	0	3,386
Los Angeles Unified	Calif	568,754	—	—	—	2,379,388	197,359	1,810,356	371,873	2,284,966	2,210,177	1,275,145	71,262	3,527	3,886
Montebello Unified.	Calif	31,154	1,153	27.0	28	109,771	8,953	66,498	14,320	105,819	101,525	60,221	3,729	365	3,418
Moreno Valley Unified	Calif	20,518	829	24.8	20	63,262	2,035	54,896	8,531	54,755	38,442	22,188	16,243	70	2,868
Mt. Diablo Unified	Calif	31,783	1,368	23.2	44	113,244	2,956	69,936	40,352	101,092	98,638	81,447	2,098	358	3,238
Oakland Unified	Calif	51,298	2,217	23.1	93	196,559	19,014	146,033	31,513	201,813	197,847	108,262	2,379	1,587	4,254
Orange Unified	Calif	24,618	1,047	23.5	37	85,398	2,827	45,393	37,379	82,158	79,061	45,550	2,481	638	3,270
Pasadena Unified	Calif	22,064	923	23.9	31	80,228	6,085	58,371	15,792	80,683	78,534	43,755	2,071	58	3,819
Pomona Unified	Calif	23,852	935	25.5	32	82,448	6,548	67,481	8,419	80,980	78,275	46,215	2,665	40	3,447
Poway Unified ..	Calif	20,212	828	24.4	20	57,199	1,242	33,132	22,825	53,394	51,771	31,220	1,418	207	3,056
Richmond Unified	Calif	28,222	1,208	23.4	48	95,872	6,550	63,666	25,656	93,499	92,208	50,938	1,211	80	3,458
Riverside Unified	Calif	27,474	1,096	25.1	36	95,142	4,743	59,858	20,541	82,136	80,001	44,877	1,754	381	3,197
Sacramento City Unified	Calif	48,064	1,906	24.2	71	160,150	13,221	117,332	29,597	180,035	154,153	92,768	5,552	330	3,832
Saddleback Valley Unified	Calif	22,294	899	24.8	29	77,770	1,028	37,225	39,517	67,715	63,587	39,827	3,135	994	3,075
San Bernardino City Unified	Calif	35,033	1,423	24.6	52	113,846	7,193	66,203	20,450	109,885	107,693	62,862	2,087	106	3,514
San Diego City Unified	Calif	118,557	4,773	24.4	154	444,848	32,757	237,486	174,604	432,180	421,837	235,205	9,992	351	3,811
San Francisco Unified	Calif	63,861	2,920	21.9	110	242,950	19,059	181,095	42,796	235,435	220,360	124,003	15,074	0	3,817
San Jose Unified.	Calif	29,333	1,442	20.3	40	117,293	6,818	85,248	45,427	111,036	107,645	65,780	2,361	1,031	3,571
San Juan Unified	Calif	48,710	2,062	22.7	85	158,953	6,246	115,754	36,953	151,436	148,232	84,480	4,926	278	3,342
Santa Ana Unified	Calif	38,184	1,546	24.7	41	133,801	8,198	87,808	37,994	127,765	110,896	89,305	16,323	747	3,192
Stockton City Unified	Calif	31,051	1,295	24.0	42	104,171	10,108	78,271	15,792	104,892	101,828	57,812	2,622	242	3,729
Sweetwater Union High	Calif	26,285	1,029	25.5	20	91,784	4,646	66,867	20,251	89,931	86,706	51,366	3,107	117	3,686
Adams-Arapahoe (Aurora)	Colo	25,951	1,409	18.4	43	102,834	3,869	50,004	48,960	122,083	85,221	47,551	26,832	10,030	3,295
Boulder Valley	Colo	20,835	1,147	18.2	41	66,009	2,122	26,583	57,303	88,621	77,675	42,996	9,131	1,818	3,791
Cherry Creek	Colo	26,739	1,430	18.7	35	119,001	873	31,135	86,993	127,967	95,043	54,965	24,033	8,891	3,554
Colorado Springs ..	Colo	30,702	1,612	19.0	53	109,724	5,360	48,044	56,299	104,049	96,160	57,662	7,760	129	3,180
Denver County	Colo	59,439	3,511	18.9	113	288,970	19,138	66,553	201,282	257,201	240,372	168,828	16,685	184	3,990

Table 83.—Selected statistics for public school districts enrolling more than 20,000 pupils, by State: 1986-87—Continued

Name of district, by State	State	1987 Enrollment	Class-room teachers, <sup>1</sup> 1987	Pupils per teacher 1987	Number of schools, 1987	Revenues and expenditures <sup>2</sup> 1986-87 (in thousands of dollars)								Current expenditure per pupil, 1986-87 <sup>4</sup> (in dollars)	
						Revenue receipts				Total expenditures <sup>3</sup>	Current expenditures		Capital outlay		Interest on school debt
						Total	Federal	State	Local		Total	Instruction			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Jefferson County	Colo	75,337	3,555	21.2	123	296,587	6,966	135,123	154,498	298,185	282,933	165,072	12,658	2,593	3,726
Northglenn-Thornton	Colo	20,602	1,094	18.8	33	75,899	1,826	41,656	32,416	80,745	61,273	35,357	14,347	5,125	3,130
Hartford	Conn	25,058	1,835	15.3	31	104,008	12,907	62,618	28,482	94,794	93,045	70,462	535	1,214	3,895
D C Public Schools	D C	86,435	5,498	15.7	188	441,372	44,771	0	396,601	439,554	403,419	254,805	36,135	0	4,601
Alachua County	Fla	23,927	1,333	17.9	38	86,265	7,266	53,203	25,796	93,614	80,305	41,225	10,384	2,925	3,526
Bay County	Fla	21,541	1,193	18.1	32	69,798	6,454	45,298	18,046	68,812	65,636	37,331	2,872	104	3,148
Brevard County	Fla	49,510	2,853	17.4	68	168,880	10,731	91,115	67,033	167,957	151,607	84,456	15,580	770	3,230
Broward County	Fla	137,366	7,104	19.3	165	564,894	29,963	243,805	291,126	538,235	488,640	258,081	45,836	3,758	3,800
Dade County Schools	Fla	253,720	14,014	18.1	292	1,026,930	82,435	521,069	423,426	1,018,743	936,261	540,212	78,428	4,053	3,965
Duval County	Fla	105,049	5,623	18.7	146	351,048	28,597	223,919	93,532	343,928	321,699	172,310	20,886	1,543	3,172
Escambia County	Fla	42,066	2,402	17.5	68	143,187	13,146	94,755	35,287	140,519	134,598	72,543	5,281	641	3,287
Hillsborough County	Fla	118,171	6,962	17.0	165	451,587	37,725	261,614	152,249	465,399	397,655	214,206	60,939	6,808	3,517
Lee County	Fla	37,708	1,923	19.6	59	142,277	9,128	50,522	82,626	138,442	118,178	58,915	19,559	705	3,520
Leon County	Fla	24,927	1,414	17.6	40	94,672	7,170	58,941	28,562	94,348	86,853	46,016	4,850	636	3,765
Manatee County	Fla	23,766	1,316	18.1	38	92,073	6,137	39,686	46,250	88,452	78,452	42,633	8,889	1,111	3,544
Marion County	Fla	26,433	1,469	18.0	35	90,549	7,595	56,557	26,397	93,712	85,598	46,656	7,908	206	3,461
Okaloosa County	Fla	24,662	1,388	17.8	34	78,338	6,489	49,583	22,266	74,366	72,668	38,717	1,203	495	3,094
Orange County	Fla	88,878	5,042	17.6	127	327,465	21,301	169,593	136,570	308,383	286,081	158,127	19,194	1,108	3,498
Palm Beach County	Fla	89,944	5,587	16.1	124	371,914	19,228	110,277	242,410	374,709	325,930	175,933	47,696	1,083	4,061
Pasco County	Fla	30,305	1,743	17.4	40	110,029	6,929	63,560	39,540	103,292	94,879	49,913	6,861	1,552	3,335
Pinellas County	Fla	88,866	5,321	16.7	129	359,679	19,296	168,747	171,636	345,217	310,752	176,090	32,916	1,549	3,576
Polk County	Fla	61,391	3,504	17.5	102	204,080	17,512	122,677	63,891	200,128	186,912	104,930	12,443	773	3,236
Sarasota County	Fla	26,123	1,533	17.0	34	121,020	6,352	36,500	78,168	119,113	102,108	53,614	15,906	1,098	4,115
Seminole County	Fla	43,511	2,264	19.2	45	135,461	6,352	84,211	44,898	134,038	116,947	64,729	16,443	647	2,890
Volusia County	Fla	41,829	2,232	18.7	59	149,440	8,817	72,915	67,708	146,199	126,235	68,455	14,070	5,893	3,250
Atlanta City ...	Ga	65,417	3,737	17.5	113	309,010	15,139	124,895	168,976	281,352	267,194	129,675	14,158	0	3,966
Bibb County	Ga	24,346	1,335	18.2	39	80,586	7,181	46,021	27,404	74,927	69,308	39,017	5,025	595	2,783
Chatham County	Ga	32,616	1,792	18.2	50	118,799	9,224	62,072	47,503	104,666	99,115	54,045	5,484	67	3,122
Clayton County	Ga	33,893	1,796	18.9	41	95,566	3,751	49,419	42,396	93,379	88,106	47,651	4,118	1,154	2,728
Cobb County	Ga	64,172	3,538	18.1	74	177,640	4,892	83,742	89,206	179,690	148,871	81,345	25,079	5,740	2,507
De Kalb County	Ga	73,865	4,100	18.0	103	313,216	5,221	133,904	174,092	267,635	248,401	132,986	16,295	2,938	2,846
Fulton County	Ga	40,154	2,203	18.2	72	159,813	4,529	58,283	97,001	127,274	117,641	67,131	7,838	1,795	3,089
Gwinnett County	Ga	54,754	2,945	18.6	54	158,707	2,073	81,786	74,848	144,517	121,711	67,025	18,078	4,727	2,553
Muscookee County	Ga	30,570	1,836	18.7	53	139,324	11,800	59,487	68,038	130,886	125,825	55,906	4,312	549	4,135
Richmond County	Ga	33,373	1,766	18.9	50	99,621	7,863	55,039	36,719	86,169	82,350	46,441	2,162	1,656	2,545
Hawaii Dept Of Education	Hi	166,160	9,270	17.9	229	536,251	58,523	455,827	21,901	536,251	488,293	302,165	47,958	0	3,019
Boise City ISD	Idaho	22,047	1,088	20.3	40	52,430	3,566	24,962	23,901	52,571	49,678	36,910	1,635	1,257	2,170
City Of Chicago	Ill	419,537	21,753	19.3	597	1,704,896	207,052	877,238	620,606	1,621,231	1,567,355	869,748	41,863	12,013	3,637
Rockford	Ill	27,655	1,846	16.8	55	99,448	5,370	45,888	48,199	93,099	86,929	51,844	3,027	3,144	3,072
School District 48	Ill	26,141	1,323	19.8	49	83,241	3,584	35,435	44,221	77,951	73,722	47,008	1,677	2,552	2,686
Evansville-Vanderburgh Schools	Ind	22,727	1,312	17.3	36	78,451	4,939	37,242	36,269	76,760	70,955	38,829	5,624	182	3,154
Fort Wayne Community Schools	Ind	32,405	1,839	19.8	54	103,791	5,714	53,146	44,932	105,338	97,089	52,617	7,096	1,173	3,002
Gary Community Schools	Ind	27,673	1,436	19.3	43	94,469	8,828	55,047	30,593	95,075	89,576	47,010	4,010	1,489	3,116
Indianapolis Public Schools	Ind	50,496	2,912	17.3	91	213,070	17,826	118,891	76,554	191,754	178,411	92,377	13,343	0	3,430
South Bend Community Schools	Ind	21,861	1,288	17.0	36	74,149	4,324	37,103	32,722	75,781	67,175	36,797	8,181	424	3,081
Des Moines Independent Community	Iowa	30,429	1,821	16.7	63	109,173	6,913	57,367	44,893	109,551	103,581	84,887	5,429	541	3,361
Kansas City	Kans	23,239	1,196	19.4	48	81,729	4,103	51,727	25,899	79,130	74,701	44,541	4,036	442	3,231
Shawnee Mission Public School	Kans	30,343	1,866	16.3	54	110,569	1,612	27,379	81,578	111,855	103,219	68,597	8,401	234	3,405

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Table 83.—Selected statistics for public school districts enrolling more than 20,000 pupils, by State: 1986-87—Continued

Name of district, by State	State	1987 Enrollment	Class-room teachers, <sup>1</sup> 1987	Pupils per teacher 1987	Number of schools, 1987	Revenues and expenditures <sup>2</sup> 1986-87 (in thousands of dollars)									Current expenditure per pupil, 1986-87 <sup>4</sup> (in dollars)
						Revenue receipts				Total expenditures <sup>3</sup>	Current expenditures			Interest on school debt	
						Total	Federal	State	Local		Total	Instruction	Capital outlay		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Wichita.....	Kans	45,689	2,400	19.0	94	162,220	4,945	61,476	95,800	156,219	145,822	85,316	9,153	1,244	3,230
Fayette County.....	Ky	31,191	1,918	16.3	54	76,023	5,623	41,044	29,356	84,454	78,738	55,350	2,630	3,086	2,600
Jefferson County.....	Ky	93,198	5,287	17.6	159	246,703	23,748	139,543	83,413	307,368	285,992	176,479	14,018	7,358	3,001
Caddo Parish School Board	La	52,930	2,506	21.1	72	132,438	13,437	79,061	39,940	150,369	141,817	73,192	7,159	1,392	2,743
Calcasieu Parish School Board	La	33,192	1,484	22.4	58	81,595	7,331	50,069	24,195	100,509	82,339	39,778	14,663	3,518	2,421
East Baton Rouge Parish School Board	La	57,810	3,443	16.8	102	148,870	15,258	96,890	38,922	180,628	173,674	80,786	6,234	721	2,878
Jefferson Parish School Board	La	57,827	3,147	18.4	85	145,161	14,432	91,333	39,396	199,641	167,281	81,855	24,195	8,165	2,893
Lafayette Parish School Board	La	27,571	1,571	17.5	40	62,913	6,010	42,283	14,620	75,769	67,698	36,851	1,547	6,523	2,417
Orleans Parish School Board	La	84,201	4,663	18.1	120	224,549	41,250	122,383	60,916	275,149	250,972	118,240	20,700	3,477	2,940
Rapides Parish School Board	La	24,324	1,207	20.2	49	61,684	9,219	40,754	11,711	64,451	61,961	30,466	1,812	678	2,557
St. Tammany Parish School Board	La	26,415	1,471	18.0	42	61,076	4,299	37,878	18,900	88,845	67,847	34,966	16,946	4,052	2,581
Terrebonne Parish School Board	La	21,210	1,167	18.2	42	46,434	5,407	30,405	10,622	55,012	52,031	25,270	2,407	573	2,420
Anne Arundel County	Md	64,432	3,555	18.1	113	234,902	11,045	69,671	154,186	207,580	198,076	120,200	8,864	640	3,116
Baltimore City.....	Md	110,189	5,696	19.3	179	375,492	50,202	182,528	142,762	381,358	348,272	204,000	9,457	3,629	3,110
Baltimore County	Md	81,152	4,945	16.4	149	349,888	11,926	72,168	265,793	344,619	324,643	188,000	17,427	2,549	4,021
Carroll County..	Md	20,664	1,085	19.0	32	61,661	2,834	25,061	33,765	60,661	56,086	34,660	4,424	151	2,848
Frederick County...	Md	25,242	1,389	18.2	41	83,692	3,704	28,671	51,317	82,845	73,756	43,325	8,013	1,076	3,100
Howard County	Md	26,653	1,469	18.1	44	1,472,727	3,164	23,860	87,704	112,852	100,860	56,979	11,127	865	4,030
Montgomery County	Md	96,271	5,570	17.3	156	468,411	13,100	60,468	394,841	474,656	437,184	268,821	30,855	6,817	4,707
Prince George's County	Md	104,412	5,692	18.3	171	398,125	2,392	131,744	243,989	386,405	369,254	204,265	15,035	2,116	3,564
Boston	Mass	59,445	—	—	119	349,431	37,421	106,282	205,729	331,569	313,645	180,711	5,640	12,284	5,768
Springfield	Mass	22,915	—	—	42	88,037	9,510	63,638	14,889	85,778	84,569	52,440	243	965	3,548
Worcester	Mass	20,323	—	—	48	86,083	10,111	44,480	31,484	88,295	83,449	48,841	4,180	667	4,171
Detroit	Mich	181,583	—	—	280	768,900	78,388	435,952	254,560	744,389	714,702	398,274	17,971	11,696	3,511
Flint City.....	Mich	30,449	—	—	54	128,466	8,488	55,671	64,307	131,477	129,898	63,203	1,579	0	3,896
Grand Rapids City	Mich	27,155	—	—	80	130,961	8,043	48,256	74,662	114,744	108,312	58,871	3,273	2,160	2,724
Lansing	Mich	22,689	—	—	43	99,571	4,968	31,600	63,003	96,744	93,991	50,186	1,908	846	3,671
Livonia Community Schools	Mich	24,031	—	—	41	92,022	959	24,313	66,750	86,646	81,377	47,417	1,476	3,793	3,266
Anoka	Minn	32,375	1,708	19.0	38	110,751	3,352	70,259	37,141	109,786	103,587	56,575	5,407	793	343
Minneapolis Special	Minn	39,993	2,089	19.1	55	185,012	12,098	62,077	110,837	189,317	170,016	89,570	14,441	4,860	4,508
Saint Paul	Minn	32,981	1,782	18.5	51	151,155	11,036	60,737	79,382	147,509	137,667	72,426	6,126	3,716	4,590
Jackson Municipal	Miss	32,493	—	—	55	92,337	11,648	39,090	41,599	85,170	82,143	41,934	2,175	853	2,664
Kansas City	Mo	35,500	2,137	16.6	74	138,253	14,087	42,186	81,979	139,334	134,499	76,735	4,785	50	3,715
Parkway	Mo	23,306	1,231	18.9	25	82,444	537	15,196	66,711	81,067	75,162	45,639	4,127	1,778	3,357
Springfield	Mo	23,229	1,286	18.1	56	63,973	3,309	21,583	39,081	67,059	61,034	39,345	5,349	676	2,603
St. Louis City	Mo	46,128	3,401	13.6	129	239,323	28,405	116,603	94,315	225,152	219,089	120,136	5,732	331	4,545
Lincoln Public Schools	Nebr	25,974	1,567	16.6	46	95,846	4,952	16,330	74,564	91,100	86,605	43,936	4,505	0	3,518
Omaha Public Schools	Nebr	41,416	2,240	18.5	82	154,985	10,469	38,721	105,795	151,907	144,908	70,539	6,999	0	3,568
Clark County	Nev	100,027	4,438	22.5	125	318,582	13,884	208,304	96,394	301,579	284,933	166,509	12,831	3,815	3,116
Washoe County	Nev	34,538	1,663	20.8	62	115,553	2,550	72,152	40,850	113,783	104,890	64,667	5,873	3,020	3,236
Buncombe County	NC	21,939	1,321	16.6	38	79,022	3,832	43,398	31,792	76,226	62,511	37,892	12,584	1,131	2,857
Cumberland County	NC	44,216	2,399	18.4	69	123,106	13,256	79,645	30,202	124,327	119,763	76,120	3,993	571	2,718
Forsyth County—Winston-Salem	NC	38,588	2,417	16.0	55	129,311	7,372	75,567	46,372	125,514	122,622	76,747	1,776	1,116	3,126
Gaston County	NC	31,217	1,667	18.7	54	88,163	5,855	59,039	23,269	88,924	81,562	54,537	4,753	609	2,535
Greensboro City	NC	20,908	1,266	16.5	38	78,881	4,348	43,517	30,815	75,524	73,425	46,560	2,099	0	3,380
Guilford County	NC	23,984	1,427	16.8	40	83,613	3,623	45,881	34,109	78,947	74,600	45,179	3,108	1,238	3,125
Mecklenburg County—Charlotte	NC	74,680	3,888	19.2	106	261,191	15,232	145,396	100,563	253,425	244,264	147,475	8,293	868	3,353

ELEMENTARY AND SECONDARY: SCHOOL DISTRICTS



Table 83.—Selected statistics for public school districts enrolling more than 20,000 pupils, by State: 1986-87—Continued

Name of district, by State	State	1987 Enrollment	Class-room teachers, <sup>1</sup> 1987	Pupils per teacher 1987	Number of schools, 1987	Revenues and expenditures <sup>2</sup> 1986-87 (in thousands of dollars)									Current expenditure per pupil, 1986-87 <sup>4</sup> (in dollars)
						Revenue receipts				Total expenditures <sup>3</sup>	Current expenditures		Capital outlay	Interest on school debt	
						Total	Federal	State	Local		Total	Instruc-tion			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Wake County	N C	59,687	3,422	17.4	80	185,785	8,576	107,708	69,500	180,549	170,007	104,619	10,038	504	2,951
Jersey City	N J	28,865	1,812	15.9	37	164,024	15,437	100,881	47,706	147,950	140,838	95,199	4,783	2,329	4,557
Newark	N J	50,888	3,329	15.3	82	306,807	43,800	202,336	60,670	281,931	274,436	169,348	7,495	0	5,023
Paterson	N J	22,500	1,589	14.2	33	116,917	12,194	79,287	25,436	109,414	92,572	64,100	13,964	1,878	3,834
Albuquerque	N Mex	22,116	4,424	18.6	117	254,587	20,184	213,417	20,986	261,821	227,752	102,730	32,800	1,269	3,057
Buffalo City Schools	N Y	46,282	2,974	15.6	74	230,784	22,371	135,405	73,007	233,971	226,897	129,539	5,102	1,972	5,136
New York City Schools	N Y	939,933	52,953	17.8	993	5,012,085	384,658	1,921,006	2,706,421	4,486,907	4,250,852	2,891,277	173,144	62,911	4,584
Rochester City Schools	N Y	32,241	2,270	14.2	54	184,801	12,943	81,644	90,214	187,994	176,663	106,106	8,260	3,071	5,469
Syracuse City Schools	N Y	21,640	1,911	11.3	33	112,701	7,339	54,433	50,929	117,990	108,018	64,957	7,099	2,874	5,141
Akron City	Ohio	34,563	1,863	18.6	58	134,244	11,899	64,250	58,095	136,274	128,738	86,906	7,151	384	3,704
Cincinnati City	Ohio	53,078	2,757	19.3	87	227,078	19,075	105,026	102,977	221,135	208,590	135,154	7,900	4,645	4,052
Cleveland City	Ohio	72,639	3,578	20.3	130	364,652	23,478	163,054	178,170	375,993	362,988	202,603	6,432	4,573	4,929
Columbus City	Ohio	65,562	3,568	18.4	139	284,922	25,829	120,351	138,742	264,852	256,055	161,283	4,920	3,876	3,832
Dayton City	Ohio	31,392	1,510	20.8	42	146,465	16,506	65,343	64,612	143,075	137,454	79,266	5,621	0	4,632
Toledo City	Ohio	43,574	2,240	19.5	66	176,531	11,650	85,412	79,469	169,634	165,853	101,392	2,567	1,214	3,831
Oklahoma City	Okla	39,149	1,892	20.7	84	120,266	10,653	61,273	48,340	129,942	108,667	67,715	19,031	2,245	2,730
Tulsa City	Okla	42,738	2,040	21.0	89	137,753	8,250	68,850	60,654	140,111	130,679	88,444	9,296	136	2,969
Beaverton	Oreg	21,921	1,098	20.0	36	89,391	1,884	17,283	70,224	86,088	80,682	46,716	3,584	1,822	3,760
Portland	Oreg	52,996	2,289	23.1	100	264,915	15,662	45,630	203,623	251,851	229,072	119,626	15,915	6,864	4,434
Salem/Keizer	Oreg	25,726	1,074	24.0	48	93,826	4,974	28,779	90,074	109,563	91,603	51,263	13,886	4,074	3,628
Philadelphia City	Pa	194,698	10,756	18.1	255	849,089	100,139	447,948	301,002	871,675	798,785	439,458	34,836	38,054	4,014
Pittsburgh City	Pa	39,921	2,437	16.4	79	206,698	15,621	84,999	106,078	253,468	215,327	111,777	30,530	7,610	5,347
Aiken County	SC	22,892	1,149	19.9	37	60,173	4,357	32,539	23,277	64,639	52,690	29,358	9,791	2,158	2,478
Berkeley County	SC	26,129	1,373	19.0	36	65,085	7,800	36,594	20,687	63,358	55,043	30,628	5,102	3,212	2,346
Charleston County	SC	42,501	2,464	17.2	70	119,616	12,739	52,038	54,839	121,050	107,417	58,506	6,854	6,779	2,693
Greenville County	SC	50,886	2,971	17.1	92	132,674	6,091	67,176	59,406	138,351	123,906	70,750	10,066	4,379	2,539
Horry County	SC	23,271	1,401	16.6	35	66,114	6,086	24,534	35,495	67,054	58,578	31,710	4,921	3,556	2,736
Richland	SC	27,438	1,630	16.8	52	95,415	9,566	37,704	48,145	92,513	84,910	46,409	3,737	3,866	3,174
Chattanooga City	Tenn	23,077	1,194	19.3	52	67,152	11,349	23,990	31,813	72,014	64,966	42,448	6,199	849	2,652
Hamilton County	Tenn	21,436	1,150	18.6	37	48,412	2,937	20,095	25,379	47,095	45,139	32,590	1,230	726	2,208
Knox County	Tenn	50,533	2,531	20.0	94	131,972	13,631	49,697	68,644	122,650	115,986	82,151	2,426	4,239	4,408
Memphis City	Tenn	107,345	5,225	20.5	163	301,460	35,098	105,834	160,528	362,939	270,936	179,194	87,929	4,074	2,485
Nashville—Davidson County	Tenn	67,538	3,868	17.5	119	210,969	15,006	68,151	127,812	216,934	187,336	123,201	25,367	4,231	2,916
Shelby County	Tenn	33,758	1,892	20.0	36	65,769	5,355	27,158	33,256	61,540	57,145	39,293	2,979	1,417	1,875
Aldine ISD	Tex	37,657	1,871	19.1	35	102,526	5,058	45,823	51,845	96,847	86,954	52,024	7,649	2,244	2,343
Alief ISD	Tex	24,980	1,310	19.1	26	100,611	492	21,303	78,817	88,284	77,061	43,303	5,532	5,690	3,244
Amarillo ISD	Tex	27,532	1,597	17.2	47	83,336	4,800	43,985	34,551	83,215	75,911	44,963	6,619	685	2,745
Arlington ISD	Tex	41,414	2,218	18.7	47	120,306	3,623	37,440	79,243	125,106	103,851	62,077	12,100	9,156	2,638
Austin ISD	Tex	51,402	3,879	15.8	103	243,201	12,414	69,445	161,342	297,341	223,841	123,217	64,302	9,199	3,739
Beaumont ISD	Tex	20,794	1,194	17.4	32	77,794	6,049	27,034	44,711	79,267	68,350	38,651	10,629	288	3,360
Brownsville ISD	Tex	35,255	1,986	17.8	35	112,847	15,352	79,391	18,104	114,838	92,675	59,161	19,143	3,016	2,787
Clear Creek ISD	Tex	20,053	1,112	18.0	21	68,795	1,487	20,645	46,663	66,321	56,504	33,535	6,265	3,552	2,962
Conroe ISD	Tex	21,155	1,268	16.4	29	77,281	2,128	28,394	46,759	67,444	67,444	38,309	5,709	6,484	3,214
Corpus Christi ISD	Tex	41,850	2,172	19.3	61	122,964	10,329	67,831	45,004	123,644	113,264	65,238	9,276	1,104	2,897
Cypress—Fairbanks ISD	Tex	34,073	2,119	16.1	32	123,078	1,060	31,819	90,398	133,462	122,147	246,217	37,338	8,972	3,219
Dallas ISD	Tex	130,885	6,804	19.0	188	459,393	35,313	119,022	305,058	468,456	422,147	246,217	37,338	8,972	3,219
Ector County ISD	Tex	25,770	1,457	17.7	35	93,884	4,693	29,989	49,003	83,012	75,389	43,549	6,396	1,227	2,843
El Paso ISD	Tex	61,800	3,392	18.2	74	185,605	22,040	115,102	46,462	188,631	164,066	96,876	17,210	7,355	2,685



Table 83.—Selected statistics for public school districts enrolling more than 20,000 pupils, by State: 1986-87—Continued

Name of district, by State	State	1987 Enrollment	Class-room teachers, <sup>1</sup> 1987	Pupils per teacher 1987	Number of schools, 1987	Revenues and expenditures <sup>2</sup> 1986-87 (in thousands of dollars)									Current expenditure per pupil, 1986-87 <sup>4</sup> (in dollars)
						Revenue receipts				Total expenditures <sup>3</sup>	Current expenditures			Interest on school debt	
						Total	Federal	State	Local		Total	Instruction	Capital outlay		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fort Bend ISD	Tex	28,738	1,467	19.6	30	101,015	1,776	33,153	66,086	101,623	74,556	40,418	21,817	5,249	2,792
Fort Worth ISD	Tex	67,191	3,184	21.1	110	208,858	17,548	93,710	97,600	210,531	195,281	112,892	8,106	7,144	2,938
Garland ISD	Tex	34,603	1,776	19.5	52	104,717	3,138	47,271	54,308	112,596	83,208	51,635	14,270	12,118	2,579
Houston ISD	Tex	191,708	10,499	18.3	239	640,535	61,443	204,553	374,539	642,129	585,061	335,734	45,377	11,691	3,018
Irving ISD	Tex	21,238	1,197	17.7	28	69,056	2,197	20,449	46,410	66,047	59,967	33,758	3,851	2,229	2,910
Killeen ISD	Tex	21,338	1,211	17.6	26	53,141	11,779	33,171	8,191	54,619	44,562	27,008	9,467	590	2,390
Klein ISD	Tex	23,853	1,371	17.4	23	69,490	954	34,190	54,346	78,499	67,033	38,915	4,936	6,531	2,842
Laredo ISD	Tex	22,005	1,264	17.4	27	69,291	11,239	51,145	6,907	64,479	61,744	38,612	1,624	1,110	2,779
Lubbock ISD	Tex	30,677	1,991	15.4	58	97,021	7,589	49,859	39,573	96,864	89,666	48,847	6,451	747	3,012
Mesquite ISD	Tex	22,898	1,105	20.7	32	61,754	1,514	34,628	25,613	70,336	50,410	27,083	11,747	8,179	2,365
North East ISD	Tex	38,688	2,128	18.2	39	109,100	4,122	42,868	62,110	109,248	99,984	60,094	4,782	4,482	2,711
Northside ISD	Tex	46,822	2,549	18.4	57	130,200	7,511	65,970	56,719	147,716	113,851	66,314	24,189	9,676	2,689
Pasadena ISD	Tex	34,880	1,867	18.7	43	111,213	4,194	51,823	55,196	108,601	101,820	58,201	4,627	2,154	2,902
Plano ISD	Tex	28,231	1,649	17.1	34	111,301	2,355	27,837	81,110	114,423	81,807	50,755	18,315	14,302	2,950
Richardson ISD	Tex	32,080	1,940	16.5	50	137,182	101	26,298	110,784	131,017	118,452	65,466	2,144	10,422	3,522
San Antonio ISD	Tex	61,501	3,393	18.1	97	208,152	24,641	128,926	54,585	201,583	192,038	116,420	7,227	2,319	3,185
Spring Branch ISD	Tex	25,089	1,530	16.4	34	101,388	2,850	19,140	79,399	97,618	91,870	47,167	1,328	4,420	3,603
Ysleta ISD	Tex	49,316	2,778	17.8	48	149,967	12,153	104,162	33,652	141,542	121,184	73,656	11,702	8,656	2,541
Alpine	Utah	36,005	1,473	24.4	45	83,463	3,220	55,621	24,622	83,068	66,450	43,053	12,387	4,231	1,957
Davis County	Utah	49,684	2,110	23.5	69	123,923	7,772	80,375	35,776	133,681	110,333	69,162	16,862	6,487	2,348
Granite	Utah	73,312	3,316	22.1	98	181,690	7,557	106,383	67,751	188,781	162,616	101,916	23,128	3,035	2,315
Jordan	Utah	61,230	2,746	22.3	67	146,265	7,376	92,812	46,077	143,513	128,640	80,982	11,388	3,485	2,176
Salt Lake City	Utah	23,760	1,089	21.8	46	82,361	6,443	27,046	48,872	83,052	73,324	3,178	8,767	961	2,992
Weber County	Utah	24,243	1,082	22.4	39	61,369	3,881	37,735	19,753	69,405	55,204	31,151	11,578	2,623	2,339
Chesapeake City	Va	24,673	1,495	16.5	35	88,987	4,647	44,015	40,324	86,832	78,786	47,457	6,388	1,658	3,107
Chesterfield County	Va	36,056	2,363	15.3	48	125,859	3,344	59,367	63,148	136,836	116,053	66,095	16,665	4,119	3,148
Fairfax County	Va	112,599	7,499	15.0	179	531,110	16,772	129,969	378,369	590,059	547,938	288,963	31,532	10,590	4,378
Henrico County	Va	28,309	1,864	15.2	49	118,410	3,961	46,926	67,523	117,542	111,101	61,344	5,091	1,351	3,617
Newport News City	Va	24,404	1,521	16.0	33	94,136	7,246	45,719	41,171	99,107	90,355	49,586	7,763	968	3,495
Norfolk City	Va	32,511	2,299	14.1	56	135,486	16,436	61,717	57,333	144,632	140,323	75,080	4,309	0	3,944
Prince William County	Va	34,960	2,199	15.9	52	139,156	3,281	60,129	75,746	141,055	132,911	72,792	5,329	2,814	3,633
Richmond City	Va	24,796	1,860	13.3	61	145,616	12,438	47,495	85,683	154,077	143,968	74,828	9,889	219	5,097
Virginia Beach City	Va	58,763	3,376	17.4	66	192,334	12,170	94,480	85,684	183,607	162,674	100,543	17,237	3,696	2,714
Lake Washington	Wash	20,533	927	22.1	37	75,308	2,203	51,977	21,128	80,899	67,055	36,401	11,096	2,748	3,548
Seattle	Wash	43,850	2,325	18.9	108	191,255	17,393	120,786	53,076	198,200	181,454	94,457	12,594	4,153	4,157
Spokane	Wash	27,757	1,407	19.7	58	95,923	6,619	67,079	22,225	97,031	89,762	48,300	5,555	1,714	3,224
Tacoma	Wash	29,487	1,566	18.8	66	135,148	9,629	88,273	37,245	135,833	114,775	63,352	15,543	5,515	4,048
Kanawha County	W Va	36,636	2,383	15.4	112	122,330	9,969	65,790	46,571	115,817	112,948	69,562	2,816	53	2,966
Madison Metropolitan	Wis	21,846	1,409	15.5	42	106,129	4,580	25,232	76,317	105,099	99,927	65,014	4,348	824	4,744
Milwaukee	Wis	91,648	5,565	16.5	145	405,323	35,986	219,897	149,440	423,566	402,376	252,965	21,190	0	4,681
Racine	Wis	21,955	1,376	16.0	37	87,351	4,152	46,184	37,014	78,777	86,249	55,494	1,924	605	4,258

<sup>1</sup> Data exclude teachers reported as working in school district offices rather than in schools

<sup>2</sup> Current expenditures by local school districts only. Excludes expenditures by State education agencies for local school districts

<sup>3</sup> Includes expenditures not shown separately

<sup>4</sup> Current expenditure per pupil based on fall enrollment collected by the Bureau of the Census

ISD—Independent school district

—Data not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey, U.S. Department of Commerce, "Survey of Local Government Finances" (This table was prepared March 1989)

Table 84.—Public elementary and secondary schools, by type of school: 1967-68 to 1987-88

Type of school	School year											
	1967-68	1970-71	1972-73	1974-75	1976-77	1978-79	1980-81	1982-83	1983-84	1984-85	1986-87	1987-88
1	2	3	4	5	6	7	8	9	10	11	12	13
Total, all public schools . . . . .	—	—	—	—	—	—	85,982	84,740	84,178	84,007	83,455	83,248
Total, regular schools <sup>1</sup> . . . . .	94,197	89,372	88,864	87,456	86,501	84,816	83,688	82,039	81,418	81,147	82,190	82,248
Schools with elementary grades only												
Total <sup>2</sup> . . . . .	67,186	64,020	62,942	61,759	61,123	60,312	59,326	58,051	57,471	57,231	58,801	59,311
Middle schools <sup>3</sup> . . . . .	—	2,080	2,308	3,224	4,180	5,879	6,003	6,875	6,885	6,893	7,452	7,641
One-teacher schools . . . . .	4,146	1,815	1,475	1,247	1,111	1,056	921	798	838	825	763	729
Other elementary schools . . . . .	63,040	60,125	59,159	57,288	55,832	53,377	52,402	50,378	49,748	49,513	50,586	50,941
Schools with secondary grades only												
Total <sup>4</sup> . . . . .	23,318	23,572	23,919	23,837	23,857	22,834	22,619	22,383	22,336	22,320	21,406	20,758
Junior high schools <sup>5</sup> . . . . .	7,437	7,750	7,878	7,690	7,434	6,282	5,890	5,948	5,936	5,916	5,142	4,900
3-year or 4-year high schools . . . . .	10,751	11,265	11,550	11,480	11,658	11,410	10,758	11,678	11,670	11,671	11,453	11,279
5-year or 6-year high schools . . . . .	4,650	3,887	3,962	4,122	4,130	4,429	4,193	4,067	4,046	4,021	4,197	4,048
Other and unclassified high schools <sup>6</sup> . . . . .	480	670	529	545	635	713	1,778	690	684	712	614	531
Combined elementary-secondary schools . . . . .	3,693	1,780	2,003	1,860	1,521	1,670	1,743	1,605	1,611	1,596	1,983	2,179
Other schools <sup>7</sup> . . . . .	—	—	—	—	—	—	2,294	2,701	2,760	2,860	1,265	1,000

<sup>1</sup> Excludes special education, alternative, and other schools not classified by grade span

<sup>2</sup> Includes schools beginning with grade 6 or below and with no grade higher than 8

<sup>3</sup> Includes schools with grade spans beginning with 4, 5, or 6 and ending with grade 6, 7, or 8.

<sup>4</sup> Includes schools with no grade lower than 7

<sup>5</sup> Includes schools with grades 7 and 8 or grades 7 through 9

<sup>6</sup> Includes schools with other grade spans, incomplete high schools, and vocational/technical high schools when separately reported

<sup>7</sup> Includes special education, alternative, and other schools not classified by grade span

—Data not available

SOURCES U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems*, and Common Core of Data survey (This table was prepared December 1988.)

Table 85.—Public elementary and secondary schools, by type and size of school: 1987-88

Enrollment size of school	Number of schools, by type					Enrollment, by type of school <sup>1</sup>				
	Total <sup>2</sup>	Elementary <sup>3</sup>	Secondary <sup>4</sup>	Combined elementary/secondary <sup>5</sup>	Other <sup>2</sup>	Total <sup>2</sup>	Elementary <sup>3</sup>	Secondary <sup>4</sup>	Combined elementary/secondary <sup>5</sup>	Other <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11
<b>Total</b> .....	<b>83,248</b>	<b>59,311</b>	<b>20,758</b>	<b>2,179</b>	<b>1,000</b>	<b>39,914,335</b>	<b>24,438,862</b>	<b>14,438,779</b>	<b>915,585</b>	<b>121,309</b>
<b>Percent<sup>a</sup></b> .....	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>
Under 100 .....	9.01	7.03	10.25	24.97	62.80	0.95	0.84	0.85	2.74	21.24
100 to 199 .....	11.31	11.23	10.80	14.23	19.90	3.48	4.03	2.29	4.90	23.52
200 to 299 .....	12.90	14.46	9.11	9.78	8.60	5.62	8.60	3.25	5.68	17.27
300 to 399 .....	14.93	17.78	8.26	8.81	3.30	10.67	14.65	4.16	7.36	9.24
400 to 499 .....	13.78	16.18	8.19	8.90	2.10	12.61	17.08	5.30	9.50	7.72
500 to 599 .....	11.10	12.55	7.92	7.80	1.10	12.40	16.15	6.25	10.14	5.00
600 to 699 .....	7.80	8.43	6.59	5.83	0.70	10.28	12.81	6.14	8.97	3.75
700 to 799 .....	5.36	5.22	6.11	4.08	0.40	8.16	9.17	6.57	7.25	2.36
800 to 999 .....	5.82	4.68	9.10	7.11	0.40	10.53	9.73	11.68	15.06	2.82
1,000 to 1,499 .....	5.17	2.22	13.46	6.20	0.70	12.67	6.01	23.67	17.49	7.08
1,500 to 1,999 .....	1.71	0.19	6.02	1.42	(?)	5.99	0.76	14.92	5.71	(?)
2,000 to 2,999 .....	0.99	0.02	3.72	0.73	(?)	4.72	0.13	12.58	3.90	(?)
3,000 or more .....	0.13	0.01	0.46	0.14	(?)	0.91	0.06	2.34	1.31	(?)
<b>Average enrollment<sup>a</sup></b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>490</b>	<b>424</b>	<b>696</b>	<b>420</b>	<b>121</b>

<sup>1</sup> These enrollment data should be regarded as approximations only. Totals differ from those reported in other tables because this table represents data reported by schools rather than by States or school districts.

<sup>2</sup> Includes special education, alternative, and other schools not classified by grade span.

<sup>3</sup> Includes schools beginning with grade 6 or below and with no grade higher than 8.

<sup>4</sup> Includes schools with no grade lower than 7.

<sup>5</sup> Includes schools with elementary and secondary grades.

<sup>6</sup> Data by size of school for those schools reporting enrollment.

<sup>7</sup> Less than 0.005 percent.

—Data not applicable.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey. (This table was prepared December 1988.)

Table 86.—Public elementary and secondary schools, by type and State: 1987-88

State or other area	Total, all schools <sup>1</sup>	Schools with elementary grades only <sup>2</sup>	Schools with secondary grades only <sup>3</sup>	Combined elementary/secondary schools <sup>4</sup>				Unclassified schools <sup>5</sup>
				Total	Prekindergarten, kindergarten, or first grade to grade 12	Other schools ending with grade 12	Other combined schools	
1	2	3	4	5	6	7	8	9
<b>United States . . . . .</b>	<b>83,248</b>	<b>59,311</b>	<b>20,758</b>	<b>2,179</b>	<b>1,305</b>	<b>398</b>	<b>476</b>	<b>1,000</b>
Alabama . . . . .	1,298	837	280	181	146	8	27	0
Alaska . . . . .	456	169	66	221	166	6	49	0
Arizona . . . . .	965	707	229	18	15	2	1	11
Arkansas . . . . .	1,112	672	432	8	5	0	3	0
California . . . . .	7,123	5,086	1,797	115	59	35	21	125
Colorado . . . . .	1,323	922	371	16	4	4	8	14
Connecticut . . . . .	970	717	227	9	6	1	2	17
Delaware . . . . .	167	107	44	16	11	2	3	0
District of Columbia . . . . .	188	125	41	2	0	0	2	20
Florida . . . . .	2,379	1,746	450	183	102	39	42	0
Georgia . . . . .	1,724	1,306	380	38	19	17	2	0
Hawaii . . . . .	225	164	53	10	8	1	1	2
Idaho . . . . .	565	367	174	10	7	1	2	14
Illinois . . . . .	4,263	3,118	980	21	12	6	3	144
Indiana . . . . .	1,926	1,408	447	35	18	13	4	36
Iowa . . . . .	1,633	1,061	531	23	3	14	6	18
Kansas . . . . .	1,463	1,003	458	2	0	0	2	0
Kentucky . . . . .	1,399	1,028	337	0	0	0	0	34
Louisiana . . . . .	1,599	1,117	378	88	52	17	19	16
Maine . . . . .	749	597	137	12	9	2	1	3
Maryland . . . . .	1,206	945	227	22	12	6	4	12
Massachusetts . . . . .	1,795	1,384	379	25	16	5	4	7
Michigan . . . . .	3,620	2,709	792	51	28	14	9	68
Minnesota . . . . .	1,570	1,019	526	25	12	3	10	0
Mississippi . . . . .	955	608	224	110	82	17	11	13
Missouri . . . . .	2,150	1,504	603	10	0	6	4	33
Montana . . . . .	775	558	213	1	0	0	1	3
Nebraska . . . . .	1,557	1,147	377	13	8	4	1	0
Nevada . . . . .	305	222	74	6	1	4	1	3
New Hampshire . . . . .	435	323	86	16	6	4	6	10
New Jersey . . . . .	2,246	1,747	424	3	1	2	0	72
New Mexico . . . . .	648	468	173	2	1	0	1	5
New York . . . . .	3,971	2,713	1,000	169	101	28	40	89
North Carolina . . . . .	1,952	1,419	468	40	18	9	13	25
North Dakota . . . . .	691	431	247	13	5	6	2	0
Ohio . . . . .	3,743	2,724	986	33	13	10	10	0
Oklahoma . . . . .	1,889	1,241	633	6	1	2	3	9
Oregon . . . . .	1,214	898	306	8	2	2	4	2
Pennsylvania . . . . .	3,313	2,443	787	41	15	9	17	42
Rhode Island . . . . .	298	230	59	2	1	0	1	7
South Carolina . . . . .	1,103	827	262	14	10	1	3	0
South Dakota . . . . .	790	496	284	0	0	0	0	10
Tennessee . . . . .	1,578	1,159	337	57	40	2	15	25
Texas . . . . .	5,787	4,051	1,390	346	218	69	59	0
Utah . . . . .	725	478	211	6	0	1	5	30
Vermont . . . . .	333	270	46	14	14	0	0	3
Virginia . . . . .	1,761	1,319	379	28	9	10	9	35
Washington . . . . .	1,852	1,275	498	79	43	15	21	0
West Virginia . . . . .	1,084	739	289	26	6	0	20	30
Wisconsin . . . . .	2,002	1,423	563	4	0	0	4	12
Wyoming . . . . .	389	284	103	1	0	1	0	1
<b>Outlying areas</b>								
American Samoa . . . . .	30	24	6	0	0	0	0	0
Guam . . . . .	37	30	5	1	1	0	0	1
Northern Marianas . . . . .	26	22	4	0	0	0	0	0
Puerto Rico . . . . .	1,756	1,229	315	189	4	0	185	23
Virgin Islands . . . . .	34	24	8	1	0	0	1	1

<sup>1</sup> Includes special education, alternative, and other schools not classified by grade span<sup>2</sup> Includes schools beginning with grade 6 or below and with no grade higher than 8<sup>3</sup> Includes schools with no grade lower than 7<sup>4</sup> Includes schools with both elementary and secondary grades<sup>5</sup> Schools not reported by grade span

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared December 1988)

Table 87.—Public elementary schools, by grade span and State: 1987-88

State or other area	Total	Schools, by grade span					
		Prekinder- garten, or 1st grade to grades 3 or 4	Prekinder- garten, or 1st grade to grade 5	Prekinder- garten, or 1st grade to grade 6	Prekinder- garten, or 1st grade to grade 8	Grades 4, 5, or 6 to 6, 7, or 8	Other and unclassified grade spans <sup>1</sup>
1	2	3	4	5	6	7	8
<b>United States.....</b>	<b>59,311</b>	<b>5,034</b>	<b>13,046</b>	<b>21,518</b>	<b>5,552</b>	<b>7,641</b>	<b>8,520</b>
Alabama.....	837	75	188	228	123	147	76
Alaska.....	169	7	14	103	17	10	18
Arizona.....	707	47	57	332	155	64	52
Arkansas.....	672	74	62	405	5	76	50
California.....	5,086	229	952	2,655	538	475	237
Colorado.....	922	58	230	439	16	121	58
Connecticut.....	717	62	184	256	55	98	62
Delaware.....	107	40	5	17	1	18	26
District of Columbia.....	125	6	2	102	6	4	5
Florida.....	1,746	46	741	443	20	226	270
Georgia.....	1,306	108	386	276	41	216	278
Hawaii.....	164	1	8	137	12	4	2
Idaho.....	367	40	58	175	23	40	31
Illinois.....	3,118	314	462	815	774	386	367
Indiana.....	1,408	57	406	647	55	166	77
Iowa.....	1,061	139	252	386	35	172	77
Kansas.....	1,003	88	157	421	177	111	49
Kentucky.....	1,028	31	267	266	272	126	66
Louisiana.....	1,117	138	235	266	66	193	219
Maine.....	597	83	67	110	112	81	144
Maryland.....	945	25	427	274	15	138	66
Massachusetts.....	1,384	222	334	397	74	208	149
Michigan.....	2,709	209	704	859	58	360	519
Minnesota.....	1,019	100	120	590	14	79	116
Mississippi.....	608	77	55	183	49	89	155
Missouri.....	1,504	103	249	575	156	178	243
Montana.....	558	45	44	141	219	38	71
Nebraska.....	1,147	64	76	558	268	38	143
Nevada.....	222	5	61	103	18	20	15
New Hampshire.....	323	50	50	98	41	40	44
New Jersey.....	1,747	219	360	394	302	254	218
New Mexico.....	468	21	139	192	9	68	39
New York.....	2,713	215	582	1,267	61	336	252
North Carolina.....	1,419	138	358	406	153	245	119
North Dakota.....	431	12	10	275	57	10	67
Ohio.....	2,724	316	575	1,049	130	399	255
Oklahoma.....	1,241	102	210	335	307	157	130
Oregon.....	898	63	237	324	128	118	28
Pennsylvania.....	2,443	262	634	966	58	291	232
Rhode Island.....	230	28	29	110	5	21	37
South Carolina.....	827	99	248	145	30	175	130
South Dakota.....	496	32	56	179	124	46	59
Tennessee.....	1,159	107	192	370	247	143	100
Texas.....	4,051	407	1,328	864	154	784	514
Utah.....	478	12	101	314	3	40	8
Vermont.....	270	30	16	129	63	19	13
Virginia.....	1,319	120	399	327	8	193	272
Washington.....	1,275	79	258	521	58	142	217
West Virginia.....	739	70	87	438	60	57	27
Wisconsin.....	1,423	130	314	522	169	187	101
Wyoming.....	284	29	60	134	11	34	16
<b>Outlying areas</b>							
American Samoa.....	24	0	0	0	23	0	1
Guam.....	30	0	21	0	0	6	3
Northern Marianas.....	22	0	0	1	2	1	18
Puerto Rico.....	1,229	151	32	749	7	42	248
Virgin Islands.....	24	1	0	23	0	0	0

<sup>1</sup> Schools not reported by grade span

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared December 1988)

NOTE—Excludes schools not reported by level, such as special education schools for the handicapped

Table 88.—Public secondary schools, by grade span and State: 1987-88

State	Total	Schools, by grade span						
		Grades 7 to 8 and 7 to 9	Grades 7 to 12	Grades 8 to 12	Grades 9 to 12	Grades 10 to 12	Other spans ending with grade 12	Other and unclassified grade spans <sup>1</sup>
1	2	3	4	5	6	7	8	9
<b>United States</b> .....	<b>20,752</b>	<b>4,900</b>	<b>3,549</b>	<b>499</b>	<b>9,820</b>	<b>1,459</b>	<b>81</b>	<b>450</b>
Alabama .....	280	29	79	12	137	11	2	10
Alaska .....	66	16	11	1	29	1	1	7
Arizona .....	229	89	7	1	120	10	0	2
Arkansas .....	432	78	233	4	38	63	1	15
California .....	1,797	514	81	42	953	154	9	44
Colorado .....	371	107	69	0	149	39	2	5
Connecticut .....	227	61	15	4	136	7	1	3
Delaware .....	44	13	4	2	21	3	0	1
District of Columbia .....	41	26	0	0	12	2	0	1
Florida .....	450	99	48	10	220	37	1	35
Georgia .....	380	69	20	78	191	10	1	11
Hawaii .....	53	22	6	1	24	0	0	0
Idaho .....	174	56	38	1	53	23	0	3
Illinois .....	980	279	18	4	639	14	8	18
Indiana .....	447	103	112	2	213	14	0	3
Iowa .....	531	98	166	5	233	29	0	0
Kansas .....	458	111	54	2	271	18	1	1
Kentucky .....	337	58	52	4	187	17	0	19
Louisiana .....	378	76	78	8	192	13	1	10
Maine .....	137	28	18	2	82	6	0	1
Maryland .....	227	51	8	3	148	10	1	6
Massachusetts .....	379	91	41	9	221	15	0	2
Michigan .....	792	181	129	28	400	45	0	9
Minnesota .....	526	85	293	6	92	45	2	3
Mississippi .....	224	49	44	11	73	33	1	13
Missouri .....	603	98	226	20	220	29	1	9
Montana .....	213	40	1	1	167	3	0	1
Nebraska .....	377	50	231	4	64	25	0	3
Nevada .....	74	21	19	2	25	6	0	1
New Hampshire .....	86	17	19	0	41	4	0	5
New Jersey .....	424	85	38	14	260	18	2	7
New Mexico .....	173	49	33	2	71	12	1	5
New York .....	1,000	251	219	15	410	70	1	34
North Carolina .....	468	137	31	5	219	63	0	13
North Dakota .....	247	20	182	8	21	11	3	2
Ohio .....	986	253	129	24	512	49	7	12
Oklahoma .....	633	139	58	2	313	96	7	18
Oregon .....	306	76	30	6	178	15	0	1
Pennsylvania .....	787	181	194	15	274	95	9	19
Rhode Island .....	59	20	7	3	24	5	0	0
South Carolina .....	262	52	24	14	146	16	1	9
South Dakota .....	284	107	0	0	165	10	0	2
Tennessee .....	337	81	42	3	170	36	0	5
Texas .....	1,390	289	186	21	790	48	4	52
Utah .....	211	69	26	2	54	49	5	6
Vermont .....	46	0	33	0	13	0	0	0
Virginia .....	379	92	16	71	163	26	0	11
Washington .....	498	133	68	16	224	45	3	9
West Virginia .....	289	97	37	1	89	60	4	1
Wisconsin .....	563	126	57	8	331	38	1	2
Wyoming .....	103	28	19	2	42	11	0	1
<b>Outlying areas</b>								
American Samoa .....	6	0	0	0	5	0	0	1
Guam .....	5	0	0	0	5	0	0	0
Northern Marianas .....	4	0	0	0	0	2	0	2
Puerto Rico .....	315	156	19	2	2	123	2	11
Virgin Islands .....	8	5	0	0	2	1	0	0

<sup>1</sup> Schools not reported by grade span

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared December 1988)

NOTE—Excludes schools not reported by level, such as special education schools for the handicapped

Table 89.—High school graduates compared with population 17 years of age: 1869-70 to 1988-89

[Numbers in thousands]

School year	Population 17 years old <sup>1</sup>	High school graduates					Graduates as a percent of 17-year-old population
		Total <sup>2</sup>	Sex		Control		
			Men	Women	Public <sup>3</sup>	Private <sup>4</sup>	
1	2	3	4	5	6	7	8
1869-70	815	16	7	9	—	—	2.0
1879-80	946	24	11	13	—	—	2.5
1889-90	1,259	44	19	25	22	22	3.5
1899-1900	1,489	95	38	57	62	33	6.4
1909-10	1,786	156	64	93	111	45	8.8
1919-20	1,855	311	124	188	231	80	18.8
1929-30	2,296	667	300	367	592	75	29.0
1939-40	2,403	1,221	579	643	1,143	78	50.8
1947-48	2,261	1,190	563	627	1,073	117	52.8
1949-50	2,034	1,200	571	629	1,063	136	59.0
1951-52	2,086	1,197	569	627	1,056	141	57.4
1953-54	2,135	1,276	613	664	1,129	147	59.8
1955-56	2,242	1,415	680	735	1,252	163	63.1
1956-57	2,272	1,434	690	744	1,270	164	63.1
1957-58	2,325	1,506	725	781	1,332	174	64.8
1958-59	2,458	1,627	784	843	1,435	192	66.2
1959-60	2,672	1,858	895	963	1,627	231	69.5
1960-61	2,892	1,964	955	1,009	1,725	239	67.9
1961-62	2,768	1,918	938	980	1,678	240	69.3
1962-63	2,740	1,943	956	987	1,710	233	70.9
1963-64	2,978	2,285	1,120	1,163	2,008	275	76.7
1964-65	3,684	2,658	1,311	1,347	2,360	298	72.1
1965-66	3,489	2,665	1,323	1,342	2,367	298	76.4
1966-67	3,500	2,672	1,328	1,344	2,374	298	78.3
1967-68	3,532	2,695	1,338	1,357	2,395	300	76.3
1968-69	3,659	2,822	1,399	1,423	2,522	300	77.1
1969-70	3,757	2,889	1,430	1,459	2,589	300	76.9
1970-71	3,872	2,937	1,454	1,483	2,637	300	75.9
1971-72	3,973	3,001	1,487	1,514	2,699	302	75.5
1972-73	4,049	3,036	1,500	1,536	2,730	306	75.0
1973-74	4,132	3,073	1,512	1,561	2,763	310	74.4
1974-75	4,256	3,133	1,542	1,591	2,823	310	73.6
1975-76	4,272	3,148	1,552	1,596	2,837	311	73.7
1976-77	4,272	3,155	1,548	1,607	2,840	315	73.9
1977-78	4,286	3,127	1,531	1,596	2,825	302	73.0
1978-79	4,327	3,117	1,523	1,594	2,817	300	72.0
1979-80	4,262	3,043	1,491	1,552	2,748	295	71.4
1980-81	4,207	3,020	1,483	1,537	2,725	295	71.8
1981-82	4,121	2,995	1,471	1,524	2,705	290	72.7
1982-83	3,939	2,888	1,437	1,451	2,598	290	73.3
1983-84	3,753	2,767	—	—	2,495	272	73.7
1984-85	3,658	2,677	—	—	2,414	263	73.2
1985-86	3,621	2,642	—	—	2,382	260	73.0
1986-87 <sup>5</sup>	3,696	2,698	—	—	2,433	265	73.0
1987-88 <sup>6</sup>	3,779	2,793	—	—	2,493	300	73.9
1988-89 <sup>6</sup>	3,761	2,781	—	—	2,491	291	74.0

<sup>1</sup> Derived from *Current Population Reports, Series P-25*

<sup>2</sup> Includes graduates of public and private schools

<sup>3</sup> Data for 1929-30 and preceding years are from *Statistics of Public High Schools* and exclude graduates of high schools which failed to report to the Office of Education

<sup>4</sup> For most years, private school data have been estimated based on periodic private school surveys. For years through 1957-58, private includes data for subcollegiate departments of institutions of higher education and residential schools for exceptional children

<sup>5</sup> Data have been revised from previously published figures

<sup>6</sup> Estimated

—Data not available

NOTE—Includes graduates of regular day school programs. Excludes graduates of other programs, when separately reported, and recipients of high school equivalency certificates. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public High Schools, Biennial Survey of Education in the United States, Statistics of State School Systems, Statistics of Nonpublic Elementary and Secondary Schools*, Common Core of Data surveys, and U.S. Department of Commerce, Bureau of the Census, *Current Population Reports, Series P-25* (This table was prepared January 1989.)



Table 90.—General Educational Development (GED) credentials issued and age of test takers: 1974 to 1987

Year	Total, in thousands <sup>1</sup>	Percentage distribution of GED test takers, by age				
		19 years old or less	20- to 24-year-olds	25- to 29-year-olds	30- to 34-year-olds	35 years old or over
1	2	3	4	5	6	7
1974 .....	294	35	27	13	9	17
1975 .....	340	33	26	14	9	18
1976 .....	333	31	28	14	10	17
1977 .....	332	40	24	13	8	14
1978 .....	381	31	27	13	10	18
1979 .....	426	37	28	12	13	11
1980 .....	479	37	27	13	8	15
1981 .....	489	37	27	13	8	14
1982 .....	486	37	28	13	8	15
1983 .....	465	34	29	14	8	15
1984 .....	427	32	28	15	9	16
1985 .....	413	32	26	15	10	16
1986 .....	428	32	26	15	10	17
1987 .....	444	33	24	15	10	18

<sup>1</sup> Number of persons receiving high school equivalency certificates based on the GED test

SOURCE: American Council on Education, General Educational Development Testing Service, *GED Statistical Report*, various years (This table was prepared January 1989)

NOTE—Because of rounding, details may not add to totals

Table 91.—Public high school graduates, by State: 1969-70 to 1988-89

State	1969-70	1974-75	1979-80	1980-81	1983-84	1984-85	1985-86	1986-87	Estimated 1987-88	Estimated 1988-89	Percent change, 1980-81 to 1988-89
1	2	3	4	5	6	7	8	9	10	11	12
<b>United States</b>	<b>2,598,727</b>	<b>2,822,638</b>	<b>2,747,678</b>	<b>2,725,285</b>	<b>2,494,885</b>	<b>2,414,020</b>	<b>2,382,457</b>	<b>2,433,018</b>	<b>2,492,791</b>	<b>2,490,631</b>	<b>-8.6</b>
Alabama	45,286	46,633	45,190	44,894	42,021	40,002	39,620	42,463	<sup>2</sup> 43,799	45,476	1.3
Alaska	3,297	4,220	5,223	5,343	5,457	5,184	5,464	5,692	<sup>2</sup> 5,907	5,900	10.4
Arizona	22,040	25,665	29,633	28,416	28,332	27,877	27,531	29,549	<sup>2</sup> 29,777	<sup>3</sup> 30,000	9.1
Arkansas	26,068	26,836	29,052	29,577	27,049	26,342	26,227	27,101	<sup>2</sup> 27,664	28,765	-2.7
California	260,908	273,411	249,217	242,172	232,199	225,448	229,026	237,414	<sup>2</sup> 248,345	<sup>3</sup> 253,854	4.8
Colorado	30,312	34,963	36,804	35,897	32,954	32,255	32,621	34,200	35,352	33,800	-5.8
Connecticut	34,755	<sup>4</sup> 42,792	37,683	38,369	33,679	32,126	33,571	31,141	33,000	32,500	-15.3
Delaware	6,985	8,235	7,582	7,349	6,410	5,893	5,791	5,895	<sup>2</sup> 5,963	5,781	-21.3
District of Columbia <sup>5</sup>	4,980	5,367	4,959	4,848	4,073	3,940	3,875	3,894	<sup>2</sup> 3,894	3,940	-18.7
Florida	70,478	86,481	87,324	88,755	85,908	81,140	83,029	82,184	88,262	91,208	2.8
Georgia	56,859	59,803	61,621	62,963	60,718	58,654	59,082	60,018	<sup>2</sup> 61,765	62,285	-1.1
Hawaii	10,407	11,283	11,493	11,472	10,454	10,092	9,958	10,371	<sup>2</sup> 10,751	10,709	-6.7
Idaho	12,296	12,631	13,187	12,679	11,732	12,148	12,059	12,243	<sup>2</sup> 13,407	13,400	5.7
Illinois	126,864	<sup>4</sup> 141,316	135,579	136,795	122,561	117,027	114,319	116,075	119,090	116,158	-15.1
Indiana	69,984	74,104	73,143	73,381	65,710	63,308	59,817	60,364	64,492	64,541	-12.0
Iowa	44,063	43,605	43,445	42,635	37,248	36,087	34,279	34,580	34,219	34,116	-20.0
Kansas	33,394	32,458	30,890	29,397	26,730	25,983	25,587	26,933	<sup>2</sup> 27,148	27,296	-7.1
Kentucky	37,473	42,368	41,203	41,714	39,645	37,999	37,288	36,948	<sup>2</sup> 39,672	40,685	-2.5
Louisiana	43,641	47,691	46,297	46,189	39,400	39,742	39,965	39,084	<sup>2</sup> 38,783	<sup>3</sup> 38,480	-16.7
Maine	14,003	14,830	15,445	15,554	13,935	13,924	13,006	13,692	<sup>2</sup> 13,758	14,647	-5.8
Maryland	46,462	55,408	54,270	54,050	50,684	48,299	46,700	46,107	47,120	45,800	-15.3
Massachusetts	63,865	<sup>4</sup> 79,000	73,802	74,831	65,885	63,411	—	61,010	<sup>2</sup> 61,595	<sup>3</sup> 60,668	-18.9
Michigan	121,000	135,509	124,316	124,372	—	105,908	101,042	—	<sup>3</sup> 100,503	<sup>3</sup> 99,004	-20.4
Minnesota	60,480	66,535	64,898	64,166	55,376	53,352	51,988	53,533	<sup>2</sup> 52,126	52,984	-17.4
Mississippi	29,853	27,243	27,586	28,083	26,324	25,315	25,134	26,201	27,696	26,835	-4.4
Missouri	55,315	62,375	62,265	60,359	53,388	51,290	49,204	50,840	<sup>2</sup> 51,316	52,500	-13.0
Montana	11,520	12,293	12,135	11,634	10,224	10,016	9,761	10,073	<sup>2</sup> 8,948	<sup>2</sup> 8,890	-23.6
Nebraska	21,280	22,249	22,410	21,411	18,674	18,036	17,845	18,129	<sup>3</sup> 18,560	<sup>3</sup> 18,581	-13.3
Nevada	5,449	7,232	8,473	9,063	8,726	8,572	8,784	—	<sup>2</sup> 9,397	9,772	7.8
New Hampshire	8,516	11,050	11,722	11,552	11,478	11,052	10,648	<sup>2</sup> 10,796	<sup>2</sup> 11,021	11,241	-2.7
New Jersey	86,498	<sup>4</sup> 96,000	94,564	93,168	85,569	81,547	78,781	79,376	79,959	75,211	-19.3
New Mexico	16,060	18,438	18,424	17,711	15,914	15,622	15,468	15,701	15,868	15,592	-13.0
New York	190,000	210,780	204,064	198,411	174,762	166,752	162,165	163,765	165,900	159,400	-19.7
North Carolina	68,886	70,094	70,862	69,395	66,803	67,245	65,865	65,421	<sup>2</sup> 68,147	69,047	-0.5
North Dakota	11,150	10,690	9,928	9,924	8,569	8,146	7,610	7,821	<sup>2</sup> 8,438	8,043	-19.0
Ohio	142,248	158,179	144,169	143,503	127,837	122,281	119,561	124,923	<sup>2</sup> 125,085	126,625	-11.8
Oklahoma	36,293	37,809	39,305	38,875	35,254	34,626	34,452	35,514	<sup>2</sup> 36,145	36,500	-6.1
Oregon	32,236	30,668	23,939	28,729	27,214	26,870	26,286	27,165	<sup>2</sup> 28,058	28,300	-1.5
Pennsylvania	151,014	163,124	146,458	144,645	132,412	127,226	122,871	121,219	125,200	119,550	-17.5
Rhode Island	10,146	11,042	10,864	10,719	9,652	9,201	8,749	8,627	<sup>2</sup> 8,694	9,001	-16.0
South Carolina	34,940	38,312	38,697	38,347	36,800	34,500	<sup>4</sup> 34,500	<sup>4</sup> 33,000	36,300	36,800	-4.0
South Dakota	11,757	11,725	10,689	10,385	8,638	8,206	7,870	8,074	<sup>2</sup> 8,415	8,275	-20.3
Tennessee	49,000	49,363	49,845	50,646	44,711	43,293	43,263	44,731	<sup>2</sup> 47,904	46,093	-9.0
Texas	139,046	159,487	171,449	171,685	161,581	<sup>5</sup> 159,234	161,150	168,430	<sup>2</sup> 171,318	179,375	4.5
Utah	18,395	19,668	20,035	19,886	19,606	19,890	19,774	20,930	<sup>2</sup> 22,226	22,966	15.5
Vermont	6,095	6,455	6,733	6,424	6,002	5,769	5,794	5,968	6,218	6,166	-4.0
Virginia	58,562	65,570	66,621	67,126	62,177	60,959	63,113	65,008	66,731	66,000	-1.7
Washington	50,425	50,990	50,402	50,046	44,919	45,431	45,805	49,873	51,754	51,306	2.5
West Virginia	26,139	24,631	23,369	23,580	22,613	22,262	21,870	22,401	<sup>2</sup> 22,406	22,572	-4.3
Wisconsin	66,753	70,979	69,332	67,743	62,189	58,851	58,340	56,872	<sup>2</sup> 58,429	57,000	-15.9
Wyoming	5,363	5,648	6,072	6,161	5,764	5,687	5,587	5,933	<sup>2</sup> 6,148	6,213	0.8
<b>Outlying areas</b>											
American Samoa	<sup>6</sup> 367	448	—	—	—	—	608	647	—	—	—
Guam	972	1,117	—	—	—	1,099	840	898	—	—	—
Northern Marianas	—	—	—	—	265	—	—	289	—	—	—
Puerto Rico	24,917	27,071	—	—	33,166	31,519	31,597	30,137	—	—	—
Trust Territory of the Pacific	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands	<sup>6</sup> 432	641	—	—	998	1,008	1,044	1,170	—	—	—

<sup>1</sup> National total includes estimates for nonresponding States

<sup>2</sup> Actual fall 1988 count

<sup>3</sup> Data estimated by the National Center for Education Statistics (NCES)

<sup>4</sup> Data estimated by reported State

<sup>5</sup> Beginning in 1983-84 graduates from adult programs are excluded

<sup>6</sup> Data are for 1970-71

—Data not reported

NOTE—Data include graduates of regular day school programs, but exclude graduates of other programs and persons receiving high school equivalency certificates. They also exclude graduates of subcollegiate departments of institutions of higher education, Federal schools for American Indians and on Federal installations, and residential schools for exceptional children. All 1987-88 and 1988-89 numbers are State estimates unless otherwise indicated.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys (This table was prepared January 1989)



**Table 92.—Percentage of high school dropouts among persons 14 to 34 years old, by age, race/ethnicity, and sex: October 1970, 1975, 1980, and 1986**

Year, race/ethnicity, and sex	Total, 14 to 34 years	14 and 15 years	16 and 17 years	18 and 19 years	20 and 21 years	22 to 24 years	25 to 29 years	30 to 34 years
1	2	3	4	5	6	7	8	9
<b>October 1970</b>								
All races.....	17.0	1.8	8.0	16.2	16.6	18.7	22.5	26.5
Male.....	16.2	1.7	7.1	16.0	16.1	17.9	21.4	26.2
Female.....	17.7	1.9	8.9	16.3	16.9	19.4	23.6	28.8
White <sup>1</sup> .....	15.2	1.7	7.3	14.1	14.6	16.3	19.9	24.6
Male.....	14.4	1.7	6.3	13.3	14.1	15.3	19.0	24.2
Female.....	16.0	1.8	8.4	14.8	15.1	17.2	20.7	24.9
Black <sup>1</sup> .....	30.0	2.4	12.8	31.2	29.6	37.8	44.4	43.5
Male.....	30.4	2.0	13.3	36.4	29.6	39.5	43.1	45.9
Female.....	29.5	2.8	12.4	26.6	29.6	36.4	45.6	41.5
<b>October 1975</b>								
Total.....	14.1	1.8	8.6	16.0	16.6	14.5	15.4	20.5
Male.....	13.2	1.6	7.6	15.5	16.4	14.0	14.4	18.9
Female.....	15.0	2.0	9.6	16.5	16.7	15.0	16.5	22.0
White <sup>1</sup> .....	12.8	1.7	8.4	14.7	14.8	12.6	14.0	18.6
Male.....	12.1	1.4	7.3	13.7	14.5	12.6	13.2	17.4
Female.....	13.5	1.9	9.6	15.6	15.0	12.7	14.7	19.7
Black <sup>1</sup> .....	23.4	2.6	10.2	25.4	28.7	27.8	27.9	38.8
Male.....	21.9	2.4	9.7	27.7	30.4	25.9	25.5	33.1
Female.....	24.7	2.8	10.7	23.4	27.3	29.2	29.9	39.6
Hispanic origin <sup>2</sup> .....	33.0	4.0	13.2	30.1	31.6	41.7	42.9	48.7
Male.....	29.9	1.9	11.1	26.3	30.2	40.0	40.6	45.0
Female.....	35.7	6.2	15.5	33.5	32.7	43.2	44.8	51.9
<b>October 1980</b>								
All races.....	13.0	1.7	8.8	15.7	15.9	15.2	13.9	14.6
Male.....	13.2	1.3	8.9	16.9	17.8	16.4	13.8	14.0
Female.....	12.8	2.2	8.8	14.7	14.3	14.0	14.0	15.2
White <sup>1</sup> .....	12.1	1.7	9.2	14.9	14.5	13.9	12.7	13.4
Male.....	12.4	1.2	9.3	16.1	15.6	15.4	12.7	13.1
Female.....	11.8	2.1	9.2	13.8	13.4	12.6	12.7	13.6
Black <sup>1</sup> .....	18.8	2.0	6.9	21.2	24.8	24.0	22.6	23.5
Male.....	19.0	1.5	7.2	22.7	31.3	24.9	22.1	21.9
Female.....	18.7	2.5	6.6	19.8	19.6	23.3	22.9	24.8
Hispanic origin <sup>2</sup> .....	35.2	3.7	16.5	39.0	41.6	40.6	40.9	45.4
Male.....	35.6	3.3	18.1	43.1	41.4	42.9	40.1	43.9
Female.....	34.9	7.9	15.0	34.6	41.9	38.6	41.7	47.0
<b>October 1986</b>								
All races.....	11.9	2.4	6.1	12.3	14.8	14.3	13.9	12.8
Male.....	12.4	2.4	6.5	13.1	16.3	15.3	14.3	13.0
Female.....	11.4	2.5	5.7	11.5	13.4	13.4	13.5	12.1
White <sup>1</sup> .....	11.3	2.2	6.5	11.9	14.3	14.3	13.3	11.3
Male.....	12.1	2.2	6.9	12.8	15.9	15.0	14.2	11.9
Female.....	10.6	2.2	6.0	11.0	12.9	13.0	12.4	10.7
Black <sup>1</sup> .....	15.5	3.4	4.7	14.9	18.1	17.3	18.2	20.8
Male.....	15.5	3.0	4.7	14.6	19.8	19.4	16.7	21.7
Female.....	15.5	3.8	4.7	15.2	16.7	15.6	19.4	20.1
Hispanic origin <sup>2</sup> .....	32.2	3.7	14.5	26.8	34.9	38.2	38.5	40.5
Male.....	33.9	3.7	14.4	29.1	38.7	40.8	40.3	39.8
Female.....	30.4	3.7	14.7	24.1	30.9	35.1	36.7	41.1

<sup>1</sup> Includes persons of Hispanic origin

<sup>2</sup> Persons of Hispanic origin may be of any race

Source: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, Nos. 222, 303, 362, 392, 409, and 429, and unpublished data (This table was prepared October 1987.)

NOTE—Dropouts are persons who are not enrolled in school and who are not high school graduates. People who have received GED credentials are counted as graduates. Data are based upon sample surveys of the civilian noninstitutional population.

**Table 93.—Students with handicaps exiting the educational system, by age, handicapping condition, and basis of exit: United States and outlying areas, 1985-86**

Student characteristics	All reasons for exit		Graduated with diploma		Graduated with certificate		Reached maximum age <sup>1</sup>		Dropped out <sup>2</sup>		Other reasons for exit <sup>3</sup>	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Age group</b>												
3 to 15	60,532	100.0	—	—	—	—	—	—	9,302	15.4	51,230	84.6
16 to 21	213,623	100.0	90,921	42.6	36,871	17.3	5,182	2.4	56,156	26.3	24,493	11.5
16	23,265	100.0	833	3.6	803	3.5	111	0.5	13,309	57.2	8,209	35.3
17	40,346	100.0	14,458	35.8	4,128	10.2	120	0.3	14,580	36.1	7,060	17.5
18	73,300	100.0	41,645	56.8	11,905	16.2	203	0.3	14,412	19.7	5,135	7.0
19	38,504	100.0	21,832	56.7	7,492	19.5	177	0.5	6,740	17.5	2,263	5.9
20	13,488	100.0	5,651	41.9	3,482	25.8	430	3.2	2,894	21.5	1,031	7.6
21	24,720	100.0	6,502	26.3	9,061	36.7	4,141	16.8	4,221	17.1	795	3.2
<b>Handicapping condition</b>												
All conditions, 16 to 21	213,623	100.0	90,921	42.6	36,871	17.3	5,182	2.4	56,156	26.3	24,493	11.5
Learning disabled	103,967	100.0	51,628	49.7	13,150	12.6	590	0.6	26,644	25.6	11,955	11.5
Speech impaired	13,445	100.0	5,032	37.4	3,399	25.3	103	0.8	2,381	17.7	2,530	18.8
Mentally retarded	53,581	100.0	18,447	34.4	15,136	28.2	3,018	5.6	12,858	24.0	4,122	7.7
Emotionally disturbed	28,968	100.0	9,691	33.5	2,534	8.7	657	2.3	11,803	40.7	4,283	14.8
Hard of hearing/deaf	3,703	100.0	2,066	55.8	711	19.2	74	2.0	486	13.1	366	9.9
Orthopedically impaired	2,647	100.0	1,426	53.9	492	18.6	104	3.9	384	14.5	241	9.1
Other health impaired	3,049	100.0	1,094	35.9	456	15.0	132	4.3	941	30.9	426	14.0
Visually handicapped	1,448	100.0	865	59.7	174	12.0	48	3.3	180	12.4	181	12.5
Multihandicapped	2,634	100.0	640	24.3	749	28.4	399	15.1	466	17.7	380	14.4
Deaf-blind	181	100.0	32	17.7	70	38.7	57	31.5	13	7.2	9	5.0

<sup>1</sup> Upper age limits for service eligibility vary by State

<sup>2</sup> These figures reflect an estimate of those who were actually known to have dropped out and does not include youth who simply stopped coming to school or whose status was unknown

<sup>3</sup> Includes students who died or no longer received special education services but reason for exit unknown

—Data not available or not applicable

NOTE—It can be assumed that a substantial proportion of the "Other" category includes students who are no longer in school and have neither graduated nor reached

the maximum age. Therefore, the overall dropout figure probably exceeds 26 percent. Since exiting data have been collected for only 2 years, caution should be exercised in their interpretation

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services, *The Tenth Annual Report to Congress on the Implementation of The Education of the Handicapped Act, 1988* (This table was prepared October 1988)

**Table 94.—Employment status, wages earned, and living arrangements of special education students out of high school more than 1 year: 1987<sup>1</sup>**

Type of handicap	Percent of youth working for pay		Average hourly wage earned	Percent earning		Percent living	
	Full-time	Part-time		Less than \$3.00	More than \$5.00	Independently <sup>2</sup>	With parents
1	2	3	4	5	6	7	8
<b>All conditions</b>	<b>29.2</b>	<b>17.2</b>	<b>\$4.35</b>	<b>11.9</b>	<b>21.0</b>	<b>17.3</b>	<b>68.9</b>
Learning disabled	37.9	19.3	4.63	7.6	25.0	22.0	66.6
Speech impaired	28.8	21.2	4.09	13.9	26.5	13.2	73.0
Mentally retarded	19.8	11.6	3.68	24.7	11.5	9.2	75.7
Emotionally disturbed	18.5	21.5	3.94	16.3	12.4	15.1	65.9
Hard of hearing	22.9	22.6	4.08	6.5	26.2	16.6	77.8
Deaf	23.6	14.7	4.08	3.4	6.6	20.2	71.6
Orthopedically impaired	1.3	12.6	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	11.8	76.8
Other health impaired	13.9	14.9	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	15.8	70.8
Visually handicapped	10.0	14.3	3.12	29.3	10.6	26.0	64.4
Multihandicapped	1.3	4.4	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	3.1	50.2
Deaf-blind	0.0	9.5	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Data based on students who completed, reached maximum age for services, or dropped out of high school during the 1985-86 school year

<sup>2</sup> Living independently includes living alone, with a spouse or roommate in military housing, or in a college dormitory

<sup>3</sup> Too few cases to report

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services, *The Eleventh Annual Report to Congress on the Implementation of The Education of the Handicapped Act, 1989* (This table was prepared December 1988)

**Table 95.—National Assessment of Educational Progress in reading for ages 9, 13, and 17, by selected characteristics of participants: 1974-75, 1979-80, and 1983-84**

Selected characteristics of participants	Reading proficiency score								
	Age 9			Age 13			Age 17 *		
	1974-75	1979-80	1983-84	1974-75	1979-80	1983-84	1974-75	1979-80	1983-84
1	2	3	4	5	6	7	8	9	10
<b>All participants</b>	<b>209.6</b>	<b>213.5</b>	<b>213.2</b>	<b>254.8</b>	<b>257.4</b>	<b>257.8</b>	<b>284.5</b>	<b>284.5</b>	<b>288.2</b>
<b>Sex</b>									
Male ..	204.2	208.5	210.0	248.4	252.8	253.5	279.2	281.1	283.4
Female ..	215.1	218.5	216.3	261.2	261.8	262.3	289.6	287.9	293.1
<b>Race</b>									
White ...	215.9	219.7	220.1	260.9	263.1	263.4	290.7	291.0	294.0
Black ..	181.9	188.9	188.4	224.4	231.9	236.8	244.0	246.1	263.5
Hispanic ..	182.9	189.1	193.0	231.1	236.0	239.2	254.7	261.7	268.7
<b>Television watched per day</b>									
0 to 2 hours ...	—	217.4	219.6	—	261.3	266.8	—	288.2	295.3
3 to 5 hours.....	—	220.0	219.8	—	256.4	261.9	—	278.2	284.4
6 hours or more	—	208.8	202.2	—	243.8	246.2	—	263.7	270.1
<b>Parental education</b>									
Not high school graduate	189.9	193.0	197.1	237.5	237.4	241.5	264.1	263.2	269.5
Graduated high school	211.2	211.7	211.4	253.4	252.8	253.8	280.6	276.9	280.6
Post high school...	221.1	224.9	224.3	268.9	269.7	268.4	297.7	296.5	300.0
<b>Reading material in the home <sup>2</sup></b>									
0 to 2 items	195.8	199.3	201.0	232.9	239.2	241.2	257.2	264.5	266.7
3 items	211.5	214.7	217.3	248.7	253.0	255.8	276.2	279.4	283.4
4 items	222.2	224.6	225.9	265.3	265.4	265.5	292.6	291.3	294.7
<b>Region</b>									
Northeast	214.2	219.6	217.1	257.6	258.9	261.0	287.4	284.0	290.8
Southeast ..	200.8	208.9	207.2	248.2	251.9	257.0	276.7	280.3	284.3
Central	215.1	215.1	217.2	260.3	263.4	259.3	290.0	287.2	289.2
West .....	206.5	211.0	211.4	252.0	254.9	254.5	281.1	285.1	288.7
<b>Type of community</b>									
Rural <sup>3</sup> ..	204.0	210.3	205.8	247.9	254.3	255.5	281.3	278.1	282.8
Disadvantaged metropolitan <sup>4</sup>	185.1	186.0	194.4	229.1	241.6	239.6	261.0	258.3	265.9
Advantaged metropolitan <sup>5</sup>	226.2	231.9	231.4	271.5	275.2	274.7	301.2	299.1	303.8

<sup>1</sup> All participants of this age were in school.

<sup>2</sup> The 4 items for the scale were (1) newspaper subscription, (2) magazine subscription, (3) more than 25 books in home, and (4) encyclopedia at home.

<sup>3</sup> Students in this group attend schools in communities with a population under 10,000 where most of the residents are farmers or farm workers.

<sup>4</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are on welfare or are not regularly employed.

<sup>5</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are in professional or managerial positions.

— Data not available.

NOTE—The NAEP scores have been evaluated at certain performance levels. A score of 300 (adept) implies an ability to find, understand, summarize, and explain relatively complicated literary and informational material. A score of 250 (intermediate) implies an ability to search for specific information, interrelate ideas, and make generalizations about literature, science, and social studies materials. A score of 200 (basic) implies an ability to understand, combine ideas, and make inferences based on short uncomplicated passages about specific or sequentially related information. A score of 150 implies an ability to follow written directions and select phrases to describe pictures.

SOURCE: U.S. Department of Education, National Institute of Education, National Assessment of Educational Progress, *The Reading Report Card* (This table was prepared May 1986).

**Table 96.—National Assessment of Educational Progress in reading for grades 3, 7, and 11,  
by selected characteristics of participants: 1985-86**

Selected characteristics of participants	Reading proficiency score		
	Grade 3	Grade 7	Grade 11
1	2	3	4
<b>Total ..</b>	<b>38.1</b>	<b>48.9</b>	<b>56.1</b>
<b>Sex</b>			
Male	37.3	47.5	54.5
Female	38.9	50.3	57.7
<b>Race</b>			
White...	39.8	50.3	57.3
Black	33.4	45.2	51.5
Hispanic	33.2	44.4	51.3
<b>Region</b>			
Northeast	39.1	50.7	57.4
Southeast	37.2	48.1	54.8
Central ..	39.3	49.0	56.5
West	36.9	48.0	55.4
<b>Type of community</b>			
Disadvantaged urban <sup>1</sup>	31.9	43.8	51.2
Advantaged urban <sup>2</sup>	41.2	51.6	59.5
<b>Score quartile</b>			
Upper quartile	47.4	58.2	67.4
Lower quartile	25.9	38.1	43.4

<sup>1</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are on welfare or are not regularly employed.

<sup>2</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are in professional or managerial positions.

NOTE —These reading proficiency levels are on a different scale from the proficiency levels previously reported in National Assessment studies and should not be compared with those results.

SOURCE U.S. Department of Education, National Assessment of Educational Progress, *Who Reads Best?* (This table was prepared August 1988.)

**Table 97.—Percentage of students at or above selected reading proficiency levels, by race/ethnicity, and age: 1970-71 to 1983-84**

Year, age, and race/ethnicity	Rudimentary <sup>1</sup>	Basic <sup>2</sup>	Intermediate <sup>3</sup>	Adept <sup>4</sup>	Advanced <sup>5</sup>
1	2	3	4	5	6
<b>1970-71</b>					
9-year-olds .....	90.4	58.3	15.6	1.1	(9)
White .....	94.2	65.1	18.3	1.3	(9)
Black .....	70.3	22.3	1.3	0.0	(9)
Hispanic .....	—	—	—	—	—
13-year-olds .....	99.7	92.3	57.0	9.3	(9)
White .....	99.9	96.7	63.8	10.9	(9)
Black .....	98.3	72.2	20.4	0.4	(9)
Hispanic .....	—	—	—	—	—
17-year-olds .....	(9)	96.6	80.0	37.2	4.9
White .....	(9)	98.4	85.4	41.4	5.5
Black .....	(9)	83.6	41.1	6.9	0.2
Hispanic .....	—	—	—	—	—
<b>1974-75</b>					
9-year-olds .....	93.3	61.7	14.0	0.7	(9)
White .....	95.9	68.4	16.6	0.8	(9)
Black .....	81.5	32.0	1.9	0.0	(9)
Hispanic .....	82.3	33.5	3.2	0.0	(9)
13-year-olds .....	99.6	92.8	57.5	9.7	(9)
White .....	100.0	96.2	64.3	11.5	(9)
Black .....	98.0	75.3	23.9	1.5	(9)
Hispanic .....	98.2	81.4	29.8	1.3	(9)
17-year-olds .....	(9)	97.5	82.0	36.1	3.5
White .....	(9)	99.1	87.5	40.6	4.0
Black .....	(9)	86.0	45.0	7.1	0.0
Hispanic .....	(9)	92.4	56.5	12.9	0.5
<b>1979-80</b>					
9-year-olds .....	94.4	65.1	17.0	0.8	(9)
White .....	96.8	71.7	20.3	1.0	(9)
Black .....	85.3	39.4	3.9	0.0	(9)
Hispanic .....	84.3	37.6	4.4	0.0	(9)
13-year-olds .....	99.8	94.3	59.3	10.9	(9)
White .....	99.9	96.7	66.0	13.1	(9)
Black .....	99.4	84.1	29.6	1.4	(9)
Hispanic .....	99.4	85.2	33.7	2.7	(9)
17-year-olds .....	(9)	97.9	82.8	34.8	3.1
White .....	(9)	99.3	88.9	39.9	3.6
Black .....	(9)	88.8	45.8	6.1	0.0
Hispanic .....	(9)	96.5	63.2	12.7	0.4
<b>1983-84</b>					
9-year-olds .....	93.9	64.2	18.1	1.0	(9)
White .....	96.4	71.1	22.0	1.2	(9)
Black .....	83.6	39.3	4.5	0.1	(9)
Hispanic .....	88.2	43.8	4.7	0.0	(9)
13-year-olds .....	99.8	94.5	60.3	11.3	(9)
White .....	99.9	96.5	66.9	13.6	(9)
Black .....	99.4	87.1	35.3	2.3	(9)
Hispanic .....	100.0	86.3	39.4	1.7	(9)
17-year-olds .....	(9)	98.6	63.6	39.2	4.9
White .....	(9)	99.2	88.9	45.1	5.8
Black .....	(9)	96.5	65.8	15.5	0.8
Hispanic .....	(9)	96.8	69.1	19.9	1.5

<sup>1</sup> Able to follow brief written directions and select phrases to describe pictures

<sup>2</sup> Able to understand combined ideas and make references based on short uncompleted passages about specific or sequentially related information

<sup>3</sup> Able to search for specific information, interrelate ideas, and make generalizations about literature, science, and social studies materials

<sup>4</sup> Able to find, understand, summarize, and explain relatively complicated literary and informational material

<sup>5</sup> Able to understand the links between ideas even when those links are not explicitly stated and to make appropriate generalizations even when the texts lack clear introductions or explanations

<sup>6</sup> Virtually no students were able to read at this level

<sup>7</sup> Includes Hispanic

<sup>8</sup> Virtually all students were able to read material at this level

— Data not available

SOURCE: U.S. Department of Education, National Institute of Education, National Assessment of Educational Progress, *The Reading Report Card* (This table was prepared May 1986)

**Table 98.—Percentage distribution of students and average reading proficiency by principals' ratings of school problems, by grade and type of problem: 1984**

Grade and school problem	Percentage distribution of students, by extent of problem in school				Average reading proficiency of students, by extent of problem in school			
	Not a problem	Minor	Moderate	Serious	Not a problem	Minor	Moderate	Serious
1	2	3	4	5	6	7	8	9
<b>4th grade</b>								
Student absenteeism.. . . .	47.4	40.1	10.6	2.0	222.7	215.1	205.5	202.8
Lack of parent interest.. . . .	29.0	35.5	29.7	5.8	228.9	218.7	208.9	196.0
Discipline.....	31.2	51.9	15.8	1.1	225.8	216.2	206.8	196.6
Lack of teacher commitment/ motivation.....	49.2	42.0	8.5	0.3	219.9	216.5	208.5	196.3
Teacher absenteeism.....	49.9	34.4	5.5	0.2	221.4	212.0	210.6	200.3
Teacher turnover.....	74.2	21.8	3.6	0.4	219.5	211.7	207.6	225.0
Low standards for students . . .	61.0	31.3	6.4	1.3	221.1	213.3	205.7	211.1
Vandalism.....	57.4	38.3	4.3	0.0	220.4	214.5	205.7	—
<b>8th grade</b>								
Student absenteeism . . . . .	33.1	47.7	17.4	1.8	267.0	260.0	253.6	243.7
Lack of parent interest . . . . .	23.6	36.7	30.9	8.8	270.3	263.5	254.2	248.0
Discipline.....	18.3	58.2	22.9	0.5	269.0	261.4	254.2	247.4
Lack of teacher commitment/ motivation.....	33.3	54.7	11.0	1.0	264.2	259.8	256.7	252.8
Teacher absenteeism.....	46.2	46.7	6.3	0.9	263.7	260.1	248.1	247.5
Teacher turnover.....	66.0	27.1	5.1	1.8	262.0	259.6	259.1	249.1
Low standards for students . . .	44.8	44.7	9.8	0.6	265.7	258.5	251.0	252.0
Vandalism.....	45.1	47.6	7.2	0.2	263.2	260.2	251.0	237.0
<b>11th grade</b>								
Student absenteeism.....	16.1	33.7	39.6	10.5	296.7	293.2	287.5	275.4
Lack of parent interest.....	18.9	32.6	35.9	12.6	301.7	293.4	284.8	275.1
Discipline.....	14.7	61.2	22.5	1.5	298.6	291.0	280.9	271.8
Lack of teacher commitment/ motivation.....	17.2	57.8	21.8	3.1	297.5	289.8	285.4	275.8
Teacher absenteeism.....	29.4	50.6	18.2	1.8	293.5	289.3	286.1	276.7
Teacher turnover. . . . .	58.8	32.1	8.3	0.9	290.9	290.3	281.8	266.6
Low standards for students . . .	41.4	39.3	18.1	1.2	295.1	288.2	282.3	288.4
Vandalism . . . . .	27.9	58.7	12.7	0.7	292.3	289.8	285.2	267.4

—Data not available

NOTE—The NAEP scores have been evaluated at certain performance levels. A score of 300 (adept) implies an ability to find, understand, summarize, and explain relatively complicated literary and informational material. A score of 250 (intermediate) implies an ability to search for specific information, interrelate ideas, and make generalizations about literature, science, and social studies materials. A score of 200 (basic)

implies an ability to understand, combine ideas, and make inferences based on short uncomplicated passages about specific or sequentially related information. A score of 150 implies an ability to follow written directions and select phrases to describe pictures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "School Climate and Reading Performance," October 1988. (This table was prepared November 1988.)



Table 99.—Writing performance of 4th, 8th, and 11th graders, by selected characteristics of students: 1984

Selected characteristics of students	Grade 4	Grade 8	Grade 11	Selected characteristics of students	Grade 4	Grade 8	Grade 11
1	2	3	4	1	2	3	4
All students ....	158	205	219				
Sex				Parents level of education			
Male .....	150	196	209	Not high school graduate .....	143	189	199
Female .....	166	214	229	Graduated high school .....	154	202	215
Race/ethnicity				Post high school .....	166	213	227
White .....	163	211	224	Number of types or reading materials in the home <sup>6</sup>			
Black.....	138	186	200	0 to 2 .....	147	186	197
Hispanic .....	146	188	200	3.....	154	198	205
Asian-American .....	163	211	219	4.....	159	203	216
Reading proficiency				5.....	164	210	223
Rudimentary <sup>1</sup> .....	133	—	—	Region			
Basic <sup>2</sup> .....	145	177	183	Northeast .....	161	209	222
Intermediate <sup>3</sup> .....	160	195	202	Southeast.....	154	203	216
Adept <sup>4</sup> .....	171	210	216	Central.....	160	206	220
Advanced <sup>5</sup> .....	180	222	227	West .....	157	203	217
Hours of TV viewing daily				Size and type of community			
0 to 2 hours .....	164	211	222	Rural <sup>7</sup> .....	153	203	213
3 to 5 hours.....	160	207	216	Disadvantaged urban <sup>8</sup> .....	142	188	201
6 hours or more.....	150	196	207	Advantaged urban <sup>9</sup> .....	170	221	228

<sup>1</sup> Able to follow brief written directions and select phrases to describe pictures

<sup>2</sup> Able to understand, combine ideas, and make references based on short, uncompleted passages about specific or sequentially related information

<sup>3</sup> Able to search for specific information, uncorrelated ideas, and make generalizations about literature, science, and social studies material

<sup>4</sup> Able to find, understand, summarize, and explain relatively complicated literary and informational material

<sup>5</sup> Able to understand the links between ideas, even when those links are not explicitly stated, and to make appropriate generalizations, even when the texts lack clear introductions and explanations

<sup>6</sup> Indicates availability of five types of reading and reference materials—a dictionary, an encyclopedia, books, newspapers, and magazines

<sup>7</sup> Students in this group attend schools in communities with a population under 10,000 where most of the residents are farmers or farm workers

<sup>8</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are on welfare or are not regularly employed

<sup>9</sup> Students in this group attend schools in or around cities with a population greater than 200,000 where a high proportion of the residents are in professional or managerial positions

—Data not applicable

NOTE—The writing scale score ranges from 0 to 400 and is defined as the average of a respondent's estimated scores on 10 specific writing tasks. The average response method is used to estimate average writing achievement for each participant as if each had performed all 10 writing tasks.

SOURCE U.S. Department of Education, Office of Educational Research and Improvement. National Assessment of Educational Progress, *The Writing Report Card* (This table was prepared June 1987.)

**Table 100.—Percentage of students writing at a minimal level or better,<sup>1</sup> by sex and race/ethnicity, by age:  
1974, 1979, 1984**

Age, writing task, and year	All students	Sex		Race/ethnicity		
		Male	Female	White	Black	Hispanic
1	2	3	4	5	6	7
<b>Age 9</b>						
Informative writing						
1979 .....	53.4	47.1	59.4	58.4	33.5	29.1
1984 .....	55.7	50.9	60.7	59.7	36.0	51.9
Persuasive writing						
1979 .....	63.7	58.8	68.7	68.0	44.1	45.4
1984 .....	58.2	51.1	65.8	62.6	40.1	50.9
Imaginative writing						
1974 .....	36.7	30.9	42.6	41.3	17.3	22.4
1979 .....	41.4	36.8	46.1	43.6	29.9	36.6
1984 .....	54.6	50.7	58.2	57.3	44.8	46.2
<b>Age 13</b>						
Informative writing						
1979 .....	74.4	66.5	80.6	77.3	60.6	65.7
1984 .....	81.4	78.6	84.2	84.9	64.4	78.8
Persuasive writing						
1979 .....	27.8	27.8	27.9	30.1	18.2	18.6
1984 .....	34.1	33.6	34.6	37.0	26.2	19.9
Imaginative writing						
1974 .....	69.0	63.5	74.1	70.8	57.1	67.0
1979 .....	60.7	55.8	65.9	62.3	53.1	58.3
1984 .....	66.7	61.1	73.1	65.3	75.3	65.7
<b>Age 17<sup>2</sup></b>						
Informative writing						
1979 .....	87.1	81.6	91.8	89.4	72.8	78.1
1984 .....	89.0	87.4	90.7	91.3	79.5	86.1
Persuasive writing						
1979 .....	60.6	58.7	62.4	62.7	52.5	46.3
1984 .....	63.8	62.3	65.4	67.2	55.7	52.9
Imaginative writing						
1974 .....	76.4	72.1	80.1	77.6	70.3	67.8
1979 .....	71.3	66.0	76.7	72.5	64.7	55.2
1984 .....	75.1	70.6	79.5	76.4	68.4	76.2

<sup>1</sup> Standards for minimal performance level differ by grade level.

<sup>2</sup> All participants of this age group were in school.

NOTE—Informative writing is used to share knowledge and convey messages, instructions, and ideas. Persuasive writing attempts to bring about some action or change. Imaginative writing provides a special way of sharing our experiences and understanding the world. Five levels of proficiency were defined for each task: non-rateable, unsatisfactory, minimal, adequate, and elaborated. Non-rateable responses included those that were blank, off-task, and unreadable. Unsatisfactory responses were those that failed to

reflect a basic understanding of the purpose of the writing. Minimal responses recognized the elements needed to complete the task, but were not managed well enough to ensure that the intended purpose of the writing was achieved. Adequate responses included the features critical to accomplishing the purpose of the writing and were likely to have the intended effect. Elaborated responses went beyond the merely adequate, reflecting a higher level of coherence and elaboration.

SOURCE: U.S. Department of Education, Office of Educational Research and Improvement, National Assessment of Educational Progress, *Writing Trends Across the Decade, 1974-1984* (This table was prepared June 1987.)

**Table 101.—Student values and attitudes toward writing, by grade level: 1984**

Statements about writing	Percentage of students reporting the statement is true more than half the time, by grade level		
	Grade 4	Grade 8	Grade 11
1	2	3	4
Writing is important . . . . .	78.6	72.6	69.2
Writing helps me learn about myself . . . . .	53.6	44.6	49.5
Writing helps me study . . . . .	74.0	71.5	65.9
Writing helps me come up with new ideas . . . . .	69.6	61.7	59.9
Writing helps me think more clearly . . . . .	56.1	44.0	51.2
Writing helps me tell others what I think . . . . .	57.6	50.6	55.3
Writing helps tell others what I feel . . . . .	54.8	50.3	55.9
Writing helps me understand my own feelings . . . . .	54.4	43.3	48.4
Writing can help me get a good job . . . . .	46.0	50.7	57.3
Writing helps me share my ideas . . . . .	63.5	56.6	61.2
Writing helps me show people I know something . . . . .	68.4	61.5	62.5
People who write well have a better chance of getting good jobs . . . . .	53.8	45.7	56.1
People who write well are more influential . . . . .	51.0	47.4	56.4
I like to write . . . . .	57.0	41.2	39.4
I am a good writer . . . . .	57.8	42.1	40.7
I think writing is a waste of time . . . . .	19.7	13.5	8.3
People like what I write . . . . .	53.2	36.5	36.7
I write on my own outside of school . . . . .	48.2	35.4	28.8
I don't like to write things that will be graded . . . . .	36.0	31.7	30.4
If I didn't have to write for school, I wouldn't write anything . . . . .	31.4	18.9	16.2

SOURCE U.S. Department of Education, Office of Educational Research and Improvement, National Assessment of Educational Progress, *The Writing Report Card* (This table was prepared June 1987)

**Table 102.—National Assessment of Educational Progress in literature and U.S. history for 11th graders, by student characteristics: Spring 1986**

Student characteristic	Percentage distribution	Average score		Student characteristic	Percentage distribution	Average score	
		History	Literature			History	Literature
1	2	3	4	1	2	3	4
<b>United States</b>	<b>100.0</b>	<b>285.0</b>	<b>295.0</b>				
<b>Sex</b>				<b>Parents' level of education</b>			
Male	51.1	290.7	282.8	No high school diploma	8.5	260.8	266.2
Female	48.9	279.0	287.3	Graduated high school	27.2	273.8	273.4
				Post high school	22.0	289.7	288.3
				Graduated college	39.1	297.7	297.6
<b>Race</b>				<b>Reading materials in the home</b>			
White	76.9	290.8	289.9	0 to 3 types	13.5	265.1	265.4
Black	12.9	263.1	257.5	4 types	23.9	279.6	279.3
Hispanic	7.1	262.5	264.8	5 types	62.5	291.6	291.7
<b>Region</b>				<b>Parents living at home</b>			
Northeast	24.0	293.8	293.0	Both	78.4	290.5	290.3
Southeast	21.0	278.4	282.6	One parent	18.3	280.5	282.1
Central	28.8	286.8	284.3	Neither	3.3	268.3	271.6
West	26.2	280.2	280.4	<b>Mothers working outside the home</b>			
<b>Size and type of community</b>				Full time	52.8	287.6	288.1
Rural	4.5	275.1	273.7	Part time	19.8	293.3	292.5
Urban disadvantaged	5.3	262.0	265.2	Not at all	24.7	286.3	286.2
Urban advantaged	13.5	301.1	301.4				
<b>School program</b>							
Academic	52.3	298.8	298.7				
General	37.8	271.4	271.7				
Vocational/technical	10.0	266.3	265.9				

NOTE—As with the NAEP reading scale, these scales range from 0 to 500. For the literature and U.S. history scales, the mean and standard deviation were set to 285 and 40, respectively. These values were chosen to be similar to the mean and standard deviation for 11th graders on the 1983-84 reading scale.

SOURCE U.S. Department of Education, National Assessment of Educational Progress "Literature and U.S. History" (This table was prepared in August 1988)

**Table 103.—Percentage of students at or above five mathematics proficiency levels, by race/ethnicity and age: 1977-78, 1981-82, and 1985-86**

Year, age, and race/ ethnicity	Simple arithmetic facts	Beginning skills and understanding	Basic operations and beginning problem solving	Moderately complex procedures and reasoning	Multi-step problem and algebra
1	2	3	4	5	6
<b>1977-78</b>					
9-year-olds . . . . .	96.5	70.3	19.4	0.8	( <sup>1</sup> )
White . . . . .	98.3	76.0	22.5	0.9	( <sup>1</sup> )
Black . . . . .	87.8	42.5	4.3	( <sup>1</sup> )	( <sup>1</sup> )
Hispanic . . . . .	93.5	54.3	10.8	0.5	( <sup>1</sup> )
13-year-olds . . . . .	( <sup>2</sup> )	94.5	64.9	17.9	0.9
White . . . . .	( <sup>2</sup> )	97.5	72.9	21.4	1.1
Black . . . . .	( <sup>2</sup> )	79.5	28.9	2.1	( <sup>1</sup> )
Hispanic . . . . .	( <sup>2</sup> )	85.9	35.6	3.4	0.1
17-year-olds . . . . .	( <sup>2</sup> )	99.8	92.1	51.4	7.4
White . . . . .	( <sup>2</sup> )	100.0	95.8	57.3	8.6
Black . . . . .	( <sup>2</sup> )	98.7	70.0	18.0	0.4
Hispanic . . . . .	( <sup>2</sup> )	99.3	77.4	22.1	1.1
<b>1981-82</b>					
9-year-olds . . . . .	97.2	71.5	18.7	0.6	( <sup>1</sup> )
White . . . . .	98.6	76.9	21.5	0.7	( <sup>1</sup> )
Black . . . . .	90.4	46.7	4.5	( <sup>1</sup> )	( <sup>1</sup> )
Hispanic . . . . .	95.0	55.0	9.2	( <sup>1</sup> )	( <sup>1</sup> )
13-year-olds . . . . .	( <sup>2</sup> )	97.6	71.6	17.8	0.5
White . . . . .	( <sup>2</sup> )	99.1	78.5	20.9	0.6
Black . . . . .	( <sup>2</sup> )	89.0	38.1	3.3	( <sup>1</sup> )
Hispanic . . . . .	( <sup>2</sup> )	96.1	54.2	6.2	0.2
17-year-olds . . . . .	( <sup>2</sup> )	99.9	92.9	48.3	5.4
White . . . . .	( <sup>2</sup> )	100.0	96.3	54.5	6.3
Black . . . . .	( <sup>2</sup> )	99.6	75.3	17.3	0.6
Hispanic . . . . .	( <sup>2</sup> )	99.9	81.3	20.6	0.5
<b>1985-86</b>					
9-year-olds . . . . .	97.8	73.9	20.8	0.6	( <sup>1</sup> )
White . . . . .	98.9	79.2	24.5	0.7	( <sup>1</sup> )
Black . . . . .	93.0	53.3	5.4	( <sup>1</sup> )	( <sup>1</sup> )
Hispanic . . . . .	96.4	58.7	8.0	( <sup>1</sup> )	( <sup>1</sup> )
13-year-olds . . . . .	( <sup>2</sup> )	98.5	73.1	15.9	0.4
White . . . . .	( <sup>2</sup> )	99.2	78.7	18.6	0.5
Black . . . . .	( <sup>2</sup> )	95.5	49.4	4.0	0.1
Hispanic . . . . .	( <sup>2</sup> )	96.1	55.2	5.4	0.3
17-year-olds . . . . .	( <sup>2</sup> )	99.9	96.0	51.1	6.4
White . . . . .	( <sup>2</sup> )	99.9	98.3	58.0	7.6
Black . . . . .	( <sup>2</sup> )	100.0	86.0	21.7	0.3
Hispanic . . . . .	( <sup>2</sup> )	98.9	90.8	26.8	1.2

<sup>1</sup>Virtually no students were able to perform at this level

<sup>2</sup>Virtually all students were able to perform at this level

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress, *The Mathematics Report Card*, prepared by Educational Testing Service. (This table was prepared January 1989.)

**Table 104.—Mathematics proficiency scores for 9-, 13-, and 17-year-olds, by selected characteristics of students: 1977-78, 1981-82, and 1985-86**

Selected characteristics of students	9-year-olds			13-year-olds			17-year-olds		
	1977-78	1981-82	1985-86	1977-78	1981-82	1985-86	1977-78	1981-82	1985-86
1	2	3	4	5	6	7	8	9	10
All students . . . . .	219	219	222	264	269	269	300	299	302
<b>Sex</b>									
Male . . . . .	217	217	222	264	269	270	304	302	305
Female . . . . .	220	221	222	265	268	268	297	296	299
<b>Race/ethnicity</b>									
White . . . . .	224	224	227	272	274	274	306	304	308
Black . . . . .	192	195	202	230	240	249	268	272	279
Hispanic . . . . .	203	204	205	238	252	254	276	277	283
<b>Television watched per day</b>									
0 to 2 hours . . . . .	—	218	222	—	273	276	305	303	310
3 to 5 hours . . . . .	—	227	229	—	269	271	296	294	289
6 or more hours . . . . .	—	215	213	—	256	255	279	280	282
<b>Reading materials in the home<sup>1</sup></b>									
0 to 2 items . . . . .	201	203	208	239	250	255	277	281	281
3 items . . . . .	221	221	224	260	267	266	296	295	297
4 items . . . . .	231	231	234	275	279	276	308	306	309
<b>Region</b>									
Northeast . . . . .	227	226	226	273	277	277	307	304	307
Southeast . . . . .	209	210	218	253	258	264	292	292	297
Central . . . . .	224	221	226	269	273	266	305	302	304
West . . . . .	214	219	217	260	266	270	296	294	299
<b>Parental education</b>									
Less than high school . . . . .	200	199	201	245	251	252	280	279	279
Graduated high school . . . . .	219	218	218	263	263	263	294	293	293
Some college . . . . .	230	225	229	273	275	274	305	304	305
Graduated college . . . . .	231	229	231	284	282	280	317	312	314

<sup>1</sup>The 4 items in the scale were newspaper subscription, magazine subscription, more than 25 books in the home, and encyclopedia in the home  
—Data not available

NOTE.—Performers at the 150 level know some basic addition and subtraction facts, and most can add two-digit numbers without regrouping. They recognize simple situations in which addition and subtraction apply. Performers at the 200 level have considerable understanding of two-digit numbers and know some basic multiplication and division facts. Performers at the 250 level have an initial understanding of the four basic operations. They can also compare information from graphs and charts, and are developing an ability to analyze simple logical relations. Performers at the 300 level can compute

decimals, simple fractions, and percents. They can identify geometric figures, measure lengths and angles, and calculate areas of rectangles. They are developing the skills to operate with signed numbers, exponents, and square roots. Performers at the 350 level can apply a range of reasoning skills to solve multi-step problems. They can solve routine problems involving fractions and percents, recognize properties of basic geometric figures, and work with exponents and square roots.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress, *The Mathematics Report Card*, prepared by Educational Testing Service. (This table was prepared January 1989.)

**Table 105.—Percentage of students at or above five science proficiency levels, by race/ethnicity and age: 1976-77, 1981-82, and 1985-86**

Year, age, and race/ ethnicity	Know everyday science facts	Understand simple scientific principles	Apply basic scientific information	Analyze scientific procedures and data	Integrate specialized scientific information
1	2	3	4	5	6
<b>1976-77</b>					
9-year-olds.....	93.6	67.9	26.2	3.5	( <sup>1</sup> )
White.....	97.8	76.5	31.3	4.3	( <sup>1</sup> )
Black.....	83.1	42.1	3.8	0.5	( <sup>1</sup> )
Hispanic.....	73.1	27.7	8.5	0.1	( <sup>1</sup> )
13-year-olds.....	( <sup>2</sup> )	85.9	49.2	10.9	0.7
White.....	( <sup>2</sup> )	91.9	56.7	13.1	0.9
Black.....	( <sup>2</sup> )	63.1	19.1	2.3	0.2
Hispanic.....	( <sup>2</sup> )	57.1	15.1	1.2	( <sup>1</sup> )
17-year-olds.....	( <sup>2</sup> )	97.2	81.8	41.7	8.5
White.....	( <sup>2</sup> )	99.2	88.4	47.4	9.9
Black.....	( <sup>2</sup> )	92.7	61.7	19.1	2.0
Hispanic.....	( <sup>2</sup> )	84.5	40.9	8.3	0.6
<b>1981-82</b>					
9-year-olds.....	95.0	70.4	24.8	2.2	( <sup>1</sup> )
White.....	98.1	78.0	30.1	2.7	( <sup>1</sup> )
Black.....	84.6	41.8	3.8	( <sup>1</sup> )	( <sup>1</sup> )
Hispanic.....	81.2	38.7	4.4	0.4	( <sup>1</sup> )
13-year-olds.....	( <sup>2</sup> )	89.6	51.5	9.4	0.4
White.....	( <sup>2</sup> )	94.5	58.7	11.2	0.4
Black.....	( <sup>2</sup> )	74.5	25.8	2.4	( <sup>1</sup> )
Hispanic.....	( <sup>2</sup> )	66.8	18.6	0.8	( <sup>1</sup> )
17-year-olds.....	( <sup>2</sup> )	95.8	76.8	37.5	7.2
White.....	( <sup>2</sup> )	98.7	85.0	44.0	8.8
Black.....	( <sup>2</sup> )	86.1	46.6	12.5	1.4
Hispanic.....	( <sup>2</sup> )	81.0	36.5	6.7	0.1
<b>1985-86</b>					
9-year-olds.....	96.3	71.4	27.6	3.4	( <sup>1</sup> )
White.....	98.5	78.4	32.6	4.3	( <sup>1</sup> )
Black.....	89.6	49.1	8.8	0.2	( <sup>1</sup> )
Hispanic.....	87.5	45.1	10.7	0.4	( <sup>1</sup> )
13-year-olds.....	( <sup>2</sup> )	91.8	53.4	9.4	0.2
White.....	( <sup>2</sup> )	96.4	61.9	11.8	0.3
Black.....	( <sup>2</sup> )	76.1	27.6	1.6	( <sup>1</sup> )
Hispanic.....	( <sup>2</sup> )	74.3	20.2	0.9	( <sup>1</sup> )
17-year-olds.....	( <sup>2</sup> )	96.7	80.8	41.4	7.5
White.....	( <sup>2</sup> )	98.6	87.6	48.8	9.0
Black.....	( <sup>2</sup> )	92.9	61.6	15.5	0.5
Hispanic.....	( <sup>2</sup> )	89.8	52.9	12.3	1.0

<sup>1</sup> Virtually no students were able to perform at this level

<sup>2</sup> Virtually all students were able to perform at this level

SOURCE: U.S. Department of Education, National Center for Education Statistics, *The Science Report Card, 1988*, prepared by Educational Testing Service (This table was prepared January 1989)

**Table 106.—Eighth graders' achievement on history, mathematics, reading, and science tests: 1988**

Achievement test and score quartile	Distribution of eighth graders' achievement by score quartile <sup>1</sup>													
	Sex		Race/ethnicity					Socioeconomic status <sup>2</sup>			Control of school			
	Male	Female	White	Black	Hispanic	Asian	American Indian	Low	Middle	High	Public	Catholic	Other private	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
History.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lower quartile ..	25.3	25.3	19.6	41.9	30.4	21.7	43.1	44.4	23.5	9.8	27.1	12.6	11.2	
Lower middle quartile.....	22.2	26.8	23.0	31.9	26.2	19.9	31.0	28.2	26.5	16.9	25.1	21.0	13.5	
Upper middle quartile.....	25.3	26.0	28.2	17.4	20.1	26.4	18.4	18.1	27.9	28.5	25.0	31.3	28.5	
Upper quartile ..	27.3	21.8	29.2	8.8	13.3	32.1	7.4	9.2	22.1	44.8	22.8	35.1	41.8	
Mathematics ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Lower quartile ..	25.4	25.0	18.3	49.0	39.2	18.8	46.3	44.3	23.8	9.3	26.8	16.9	8.3	
Lower middle quartile.....	24.4	26.0	24.1	28.7	30.1	19.7	29.1	30.8	26.9	16.1	25.6	24.7	17.6	
Upper middle quartile.....	24.4	24.3	27.0	15.1	19.9	22.3	16.3	17.0	27.0	26.2	23.7	28.6	28.4	
Upper quartile ..	25.8	24.8	30.6	7.2	10.8	39.2	8.3	7.9	22.3	48.5	23.8	29.7	45.7	
Reading ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Lower quartile ..	30.4	21.3	19.9	45.0	38.2	23.5	44.9	44.0	24.2	11.1	27.7	13.8	10.4	
Lower middle quartile.....	25.0	25.0	23.5	29.4	30.5	22.6	30.0	29.1	27.0	16.9	25.6	23.1	16.6	
Upper middle quartile.....	22.7	25.6	26.2	16.6	20.1	24.6	18.5	18.5	25.8	26.3	23.7	28.2	25.8	
Upper quartile ..	21.9	28.2	30.4	9.0	11.2	29.3	6.6	8.4	23.0	45.7	23.0	34.9	47.2	
Science.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Lower quartile ..	25.4	25.9	19.2	47.7	37.8	22.0	46.9	42.3	24.7	11.1	27.2	17.2	11.0	
Lower middle quartile.....	21.7	26.7	22.4	30.1	30.7	23.0	27.4	29.2	25.5	16.9	24.3	25.3	21.1	
Upper middle quartile.....	25.7	26.0	28.8	15.9	20.6	24.6	17.4	19.3	27.3	29.4	25.2	31.3	29.4	
Upper quartile ..	27.1	21.4	29.6	6.3	10.9	30.3	8.3	9.1	22.6	42.5	23.4	26.1	38.5	

<sup>1</sup> Twenty-five percent of all students fall into each one of the quartile groupings

<sup>2</sup> Socioeconomic status was measured by a composite score on parental education and occupations, family income, and household characteristics. The "Low" SES group is the lowest quartile, the "Middle" SES group is the middle two quartiles, and the "High" SES group is the upper quartile

NOTE—Because of rounding, details may not add to totals. Data are preliminary

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988" survey (This table was prepared June 1989)

**Table 107.—Science proficiency scores for 9-, 13-, and 17-year-olds, by selected characteristics of students: 1976-77, 1981-82, and 1985-86**

Selected characteristics of students	9-year-olds			13-year-olds			17-year-olds		
	1976-77	1981-82	1985-86	1976-77	1981-82	1985-86	1976-77	1981-82	1985-86
1	2	3	4	5	6	7	8	9	10
<b>All students...</b>	<b>219.9</b>	<b>220.9</b>	<b>224.3</b>	<b>247.4</b>	<b>250.2</b>	<b>251.4</b>	<b>289.6</b>	<b>283.3</b>	<b>288.5</b>
<b>Sex</b>									
Male	222.1	221.0	227.3	251.1	255.7	256.1	297.1	291.9	294.9
Female	217.7	220.7	221.3	243.8	245.0	246.9	282.3	275.2	282.3
<b>Race/ethnicity</b>									
White	229.6	229.1	231.9	256.1	257.3	259.2	297.7	293.2	297.5
Black	191.9	189.0	199.4	208.1	217.2	221.6	262.3	248.7	259.3
Hispanic	174.9	187.1	196.2	213.4	225.5	226.1	240.3	234.8	252.8
<b>Region</b>									
Northeast	224.5	221.8	228.2	255.3	254.1	257.6	296.4	284.4	292.2
Southeast	205.1	214.0	218.6	235.1	238.7	247.1	276.4	276.2	283.5
Central	225.3	226.3	227.9	253.8	253.9	249.4	294.1	289.3	294.4
West	220.9	219.9	222.1	243.0	252.4	252.3	286.6	280.9	283.2
<b>Parental education</b>									
Less than high school	198.5	198.2	203.6	223.5	225.4	229.4	265.4	258.6	257.5
Graduated high school	223.0	218.1	219.6	245.4	243.2	244.8	284.4	275.3	277.0
Some college	237.2	229.2	235.8	260.3	258.9	257.8	295.7	290.1	295.1
Graduated college	232.3	230.6	235.2	266.5	263.5	264.4	309.3	300.2	303.8

NOTE—Performers at the 150 level know some general scientific facts of the type that could be learned from everyday experiences. Performers at the 200 level are developing some understanding of simple scientific principles, particularly in the life sciences. Performers at the 250 level can interpret data from simple tables and make inferences about the outcomes of experimental procedures. They exhibit knowledge and understanding of the life sciences, and also demonstrate some knowledge of basic information from the physical sciences. Performers at the 300 level can evaluate the appropriateness of the design of an experiment and have the skill to apply their scientific knowledge in interpreting information from text and graphs. These students also exhibit a

growing understanding of principles from the physical sciences. Performers at the 350 level can infer relationships and draw conclusions using detailed scientific knowledge from the physical sciences, particularly chemistry. They also can apply basic principles of genetics and interpret the societal implications of research in this field.

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress, *The Science Report Card, 1988*, prepared by Educational Testing Service. (This table was prepared January 1989.)



**Table 108.—Scholastic Aptitude Test score averages for college-bound high school seniors, by sex: 1966-67 to 1987-88**

School year	Verbal score			Mathematical score		
	Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7
1966-67	466	463	468	492	514	467
1967-68	466	464	466	492	512	470
1968-69	463	459	466	493	513	470
1969-70	460	459	461	488	509	465
1970-71	455	454	457	488	507	466
1971-72	453	454	452	484	505	461
1972-73	445	446	443	481	502	460
1973-74	444	447	442	480	501	459
1974-75	434	437	431	472	495	449
1975-76	431	433	430	472	497	446
1976-77	429	431	427	470	497	445
1977-78	429	433	425	468	494	444
1978-79	427	431	423	467	493	443
1979-80	424	428	420	466	491	443
1980-81	424	430	418	466	492	443
1981-82	426	431	421	467	493	443
1982-83	425	430	420	468	493	443
1983-84	426	433	420	471	495	449
1984-85	431	437	425	475	499	452
1985-86	431	437	426	475	501	451
1986-87	430	435	425	476	500	453
1987-88	428	435	422	476	498	455

NOTE—Possible scores on each part of the SAT range from 200 to 800. Data for the years 1966-67 through 1970-71 are estimates derived from the test scores of all participants.

SOURCE: College Entrance Examination Board, *College-Bound Seniors, 1988 Profile of SAT and Achievement Test Takers* (Copyright © 1988 by the College Entrance Examination Board. All rights reserved.) (This table was prepared September 1988.)

**Table 109.—Scholastic Aptitude Test score averages, by race/ethnicity: 1975-76 to 1987-88**

Racial/ethnic background	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1986-87	1987-88
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>SAT—Verbal</b>												
All students	431	429	429	427	424	424	426	425	426	431	430	428
White	451	448	446	444	442	442	444	443	445	449	447	445
Black	332	330	332	330	330	332	341	339	342	346	351	353
Mexican-American	371	370	370	370	372	373	377	375	376	382	379	382
Puerto Rican	364	355	349	345	350	351	330	358	358	368	360	355
Asian-American	414	405	401	396	396	397	398	395	398	404	405	408
American Indian	388	390	387	386	390	391	388	388	390	392	393	393
Other	410	402	399	393	394	388	392	386	388	391	405	410
<b>SAT—Mathematics</b>												
All students	472	470	468	467	466	466	467	468	471	475	476	476
White	493	489	485	483	482	483	483	484	487	490	489	490
Black	354	357	354	358	360	362	366	369	373	376	377	384
Mexican-American	410	408	402	410	413	415	416	417	420	426	424	426
Puerto Rican	401	397	388	388	394	398	403	403	405	409	400	402
Asian-American	518	514	510	511	509	513	513	514	519	518	521	522
American Indian	420	421	419	421	426	425	424	425	427	426	432	435
Other	458	457	450	447	449	447	449	446	450	448	455	460

NOTE—Possible scores on each part of the SAT range from 200 to 800. No race/ethnic group data are available prior to 1975-76. No data are available for 1985-86 due to changes in the Student Descriptive Questionnaire completed when students registered for the test.

SOURCE: College Entrance Examination Board, *National Report on College-Bound Seniors, 1988* (Copyright © 1988 by the College Entrance Examination Board. All rights reserved.) (This table was prepared October 1988.)

Table 110.—Distribution of Scholastic Aptitude Test scores, by sex of student: 1975-76 to 1987-88

Year	Number of test takers	Percent of students with specified scores											
		200 or higher	2250 or higher	300 or higher	350 or higher	400 or higher	450 or higher	500 or higher	550 or higher	600 or higher	650 or higher	600 or higher	650 or higher
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Verbal</b>													
<b>Total</b>													
1975-76	999,809	100.00	96.26	89.26	77.47	60.27	43.01	28.11	15.58	8.20	3.55	1.23	0.25
1980-81	994,046	100.00	95.46	87.32	75.34	58.44	40.64	25.76	13.87	7.00	3.01	1.03	0.21
1984-85	977,361	100.00	95.96	88.81	77.22	60.62	43.23	27.38	15.33	7.88	3.55	1.16	0.19
1985-86	1,000,748	100.00	95.81	88.92	77.55	61.77	43.17	29.03	15.75	7.87	3.25	0.99	0.14
1986-87	1,080,426	100.00	96.08	88.57	76.62	60.18	43.02	27.85	15.44	8.14	3.42	1.07	0.13
1987-88	1,134,364	100.00	95.81	88.62	76.44	60.53	42.38	26.91	14.94	7.32	3.22	0.92	0.09
<b>Men</b>													
1975-76	494,626	100.00	96.39	89.54	77.90	60.90	43.65	28.69	16.04	8.49	3.69	1.29	0.23
1980-81	478,448	100.00	95.97	88.50	77.16	60.73	42.89	27.53	15.33	7.67	3.30	1.13	0.23
1984-85	471,992	100.00	96.30	89.71	78.69	62.58	45.35	29.21	16.1	8.79	4.06	1.34	0.21
1985-86	481,477	100.00	96.19	89.87	79.10	63.74	45.17	29.77	16.02	8.71	3.68	1.11	0.15
1986-87	520,326	100.00	96.23	89.12	77.72	61.79	44.91	29.71	16.93	9.22	4.02	1.26	0.15
1987-88	544,065	100.00	96.14	89.54	78.21	62.92	45.04	29.25	16.70	8.44	3.82	1.13	0.11
<b>Women</b>													
1975-76	505,193	100.00	96.14	88.97	77.05	59.65	42.38	27.55	15.13	7.92	3.42	1.17	0.24
1980-81	515,598	100.00	94.99	86.23	73.66	56.32	38.56	24.11	12.80	6.39	2.73	0.94	0.18
1984-85	505,369	100.00	95.64	87.96	75.66	58.79	41.26	25.66	14.04	7.02	3.07	0.98	0.16
1985-86	519,271	100.00	95.46	88.04	76.11	59.95	41.31	26.42	14.57	7.09	2.85	0.88	0.12
1986-87	560,100	100.00	95.93	88.07	75.60	58.67	41.26	26.13	14.05	7.14	2.87	0.90	0.11
1987-88	590,299	100.00	95.50	87.76	74.82	58.33	39.93	24.76	13.32	6.29	2.66	0.74	0.06
<b>Mathematics</b>													
<b>Total</b>													
1975-76	999,776	100.00	98.78	93.65	83.55	70.87	57.16	41.82	26.94	16.34	8.49	3.75	1.16
1980-81	993,672	100.00	98.85	92.99	82.77	70.48	55.57	40.59	25.98	14.45	7.08	2.71	0.66
1984-85	977,361	100.00	99.15	93.99	83.83	71.85	57.98	43.36	29.33	17.08	8.63	3.58	0.82
1985-86	1,000,747	100.00	98.91	93.63	84.64	71.98	57.41	42.32	29.29	17.95	9.56	4.08	1.01
1986-87	1,080,426	100.00	98.91	93.30	84.22	71.61	57.40	42.37	29.67	18.32	9.94	3.66	1.02
1987-88	1,134,364	100.00	99.08	93.93	84.62	72.17	57.43	43.03	29.55	17.60	9.26	3.78	0.91
<b>Men</b>													
1975-76	494,619	100.00	99.13	95.37	87.63	77.29	65.30	43.93	22.71	12.70	6.02	1.99	
1980-81	478,301	100.00	99.20	94.98	87.17	77.17	63.99	49.45	33.92	20.38	10.75	4.46	1.17
1984-85	471,995	100.00	99.37	95.53	87.73	78.05	65.78	51.80	37.09	23.09	12.59	5.65	1.41
1985-86	481,477	100.00	99.24	95.38	88.49	78.26	65.53	51.16	37.47	24.49	14.00	6.44	1.73
1986-87	520,326	100.00	99.16	94.91	87.75	77.36	64.90	50.74	37.66	24.82	14.47	6.15	1.75
1987-88	544,065	100.00	99.31	95.37	87.91	77.48	64.40	50.71	36.91	23.63	13.43	5.96	1.57
<b>Women</b>													
1975-76	505,157	100.00	98.45	91.96	79.56	64.59	49.20	33.17	19.12	10.11	4.37	1.53	0.34
1980-81	515,371	100.00	98.53	91.14	78.69	64.27	47.76	32.37	18.60	8.94	3.66	1.09	0.19
1984-85	505,366	100.00	98.95	92.56	80.19	66.06	50.70	35.48	22.08	11.46	4.94	1.65	0.26
1985-86	519,270	100.00	98.61	92.01	81.07	66.16	49.87	34.12	21.70	11.88	5.45	1.89	0.34
1986-87	560,100	100.00	98.67	91.80	80.93	66.26	50.44	34.59	22.25	12.29	5.74	1.73	0.33
1987-88	590,299	100.00	98.87	92.60	81.58	67.28	51.00	35.94	22.78	12.05	5.42	1.77	0.30

NOTE—Possible scores on each part of the SAT range from 200 to 800. In some years, mathematics and verbal test results were not available for each student.

SOURCE: College Entrance Examination Board, *National Report on College-Bound Seniors*, various years (Copyright © 1988 by the College Entrance Examination Board. All rights reserved.) (This table was prepared December 1988.)

Table 111.—Scholastic Aptitude Test score averages, by class rank<sup>1</sup> and sex: 1975-76 to 1985-86

Test and year	Class rank											
	Top tenth		Second tenth		Second fifth		Third fifth		Fourth fifth		Lowest fifth	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Verbal</b>												
1975-76	528	519	459	453	418	412	377	365	356	338	345	321
1976-77	523	513	455	449	413	412	377	367	356	337	351	323
1977-78	521	510	456	446	418	410	379	366	359	338	351	323
1978-79	521	507	454	443	417	408	377	365	356	336	348	323
1979-80	516	505	452	441	416	406	376	364	355	335	350	325
1980-81	520	503	455	441	419	406	379	363	360	335	354	321
1981-82	518	505	456	443	421	409	381	366	360	337	358	324
1982-83	516	502	454	441	419	409	382	367	363	338	356	326
1983-84	521	503	459	443	424	410	386	368	366	339	357	322
1984-85	524	508	463	448	427	415	389	374	369	345	361	327
1985-86	522	508	461	448	424	413	389	373	372	347	368	332
Change, 1976 to 1986	-6	-11	2	-5	6	1	12	8	16	9	23	11
<b>Mathematics</b>												
1975-76	616	547	532	472	479	426	424	376	395	344	381	332
1976-77	611	543	531	470	481	426	426	377	387	345	388	335
1977-78	605	539	527	466	477	426	423	378	387	348	386	336
1978-79	604	537	526	466	477	426	423	379	383	348	385	337
1979-80	602	539	525	467	476	427	423	381	394	349	388	339
1980-81	601	538	527	468	479	428	425	381	397	349	391	340
1981-82	603	539	528	469	481	429	427	382	398	349	392	337
1982-83	605	541	530	470	480	430	427	381	399	350	392	340
1983-84	607	548	533	476	484	435	429	385	399	352	387	337
1984-85	610	550	538	481	488	439	434	390	403	356	393	342
1985-86	614	550	539	479	486	436	434	387	406	357	402	345
Change, 1976 to 1986	-2	3	7	7	7	10	10	11	11	13	21	13

<sup>1</sup> Self-reported class rankSOURCE: College Entrance Examination Board, *National Report on College-Bound Seniors*, various years (Copyright © 1986 by the College Entrance Examination Board. All rights reserved.) (This table was prepared May 1987.)

NOTE—Possible scores on each part of the SAT range from 200 to 800

**Table 112.—Scholastic Aptitude Test score averages, by intended area of study:<sup>1</sup> 1977-78 to 1987-88**

Test and year	Arts and humanities	Intended area of study								
		Biological sciences and related areas	Business, commerce, and communications	Computer and information sciences	Education	Engineering	Mathematics	Physical sciences	Social sciences and related areas	Miscellaneous <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11
<b>Verbal</b>										
1977-78	439	436	409	420	396	448	464	499	448	422
1978-79	436	435	408	419	392	445	459	498	446	420
1979-80	434	433	406	417	389	444	455	495	448	419
1980-81	434	433	406	416	391	446	456	498	446	420
1981-82	436	434	409	417	394	449	455	496	450	424
1982-83	438	432	409	413	394	448	453	496	451	421
1983-84	440	434	410	411	398	453	457	501	451	423
1984-85	445	439	414	413	404	453	459	506	454	429
1986-87	447	438	415	403	408	456	475	507	452	410
1987-88	444	434	414	400	407	453	468	500	447	409
Change, 1977-78 to 1987-88	5	-2	5	-20	11	5	4	1	-1	-13
<b>Mathematics</b>										
1977-78	454	474	448	499	422	540	585	566	464	461
1978-79	452	472	448	498	420	536	580	561	463	458
1979-80	452	472	445	496	418	535	577	560	463	459
1980-81	453	472	446	492	418	534	572	558	463	459
1981-82	452	470	446	489	419	537	569	558	464	461
1982-83	454	470	445	484	418	539	572	560	466	460
1983-84	456	475	449	483	425	543	578	564	467	463
1984-85	462	480	455	488	432	545	578	569	471	469
1986-87	469	482	459	476	437	554	602	576	472	453
1987-88	471	482	462	470	442	547	596	568	472	455
Change, 1977-78 to 1987-88	17	8	14	-20	20	7	11	2	8	-6

<sup>1</sup> Students indicated their first and second choices of fields of study. Only their first choices are reported here.

<sup>2</sup> Includes "trade and vocational," "other," and "undecided" through 1984-85. Data for 1986-87 and 1987-88 exclude "other."

NOTE.—Possible scores on each part of the SAT range from 200 to 800. No data are

available for 1985-86 due to changes in the Student Descriptive Questionnaire completed when students registered for the test.

SOURCE: College Entrance Examination Board, *National Report on College-Bound Seniors*, various years. (Copyright © 1988 by the College Entrance Examination Board. All rights reserved.) (This table was prepared December 1988.)

Table 113.—Scholastic Aptitude Test score averages, by State: 1974-75 to 1987-88

State	1974-75		1979-80		1980-81		1984-85		1985-86		1986-87		1987-88		Percent of graduates taking SAT 1988 <sup>1</sup>
	Verbal	Math	Verbal	Math	Verbal	Math	Verbal	Math	Verbal	Math	Verbal	Math	Verbal	Math	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>United States</b>	<b>434</b>	<b>472</b>	<b>424</b>	<b>466</b>	<b>424</b>	<b>466</b>	<b>431</b>	<b>475</b>	<b>431</b>	<b>475</b>	<b>430</b>	<b>476</b>	<b>428</b>	<b>476</b>	—
Alabama...	426	457	448	482	457	488	481	513	476	514	478	515	480	520	9
Alaska	461	481	450	482	449	486	446	477	445	479	445	479	441	475	43
Arizona	496	525	475	516	476	514	473	512	466	509	463	505	455	500	22
Arkansas	482	510	480	514	477	510	481	517	482	519	480	521	479	516	7
California	435	473	424	472	426	475	424	480	423	481	424	482	424	484	44
Colorado	479	515	468	515	467	513	473	521	466	514	466	514	460	511	29
Connecticut	442	471	431	466	430	463	440	475	440	474	439	473	436	472	81
Delaware	439	476	431	469	429	470	444	474	442	475	440	470	433	466	62
District of Columbia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Florida	441	474	424	464	424	463	421	463	426	469	423	470	422	468	49
Georgia	397	427	389	425	390	426	399	438	402	440	400	440	404	444	63
Hawaii	414	478	396	472	390	464	401	476	403	477	404	477	408	480	52
Idaho	493	524	482	518	486	523	472	510	475	512	473	502	467	501	16
Illinois	460	510	458	507	459	508	468	522	466	519	463	521	464	520	18
Indiana	418	463	407	450	406	451	415	460	415	459	415	459	412	458	55
Iowa	523	568	508	554	515	566	521	576	519	576	515	574	513	577	5
Kansas	503	540	497	538	502	542	504	550	498	544	498	547	494	541	10
Kentucky	470	507	471	507	474	509	491	529	483	519	479	519	475	515	10
Louisiana	456	491	462	499	461	494	473	503	474	507	473	509	476	513	10
Maine	437	471	427	467	426	465	432	466	434	466	433	466	430	466	59
Maryland	436	471	422	463	423	461	435	475	436	475	437	477	433	475	60
Massachusetts	434	469	423	464	422	462	434	472	436	473	435	474	432	474	73
Michigan	451	498	452	505	456	508	467	517	462	514	459	513	457	513	13
Minnesota	506	552	491	544	486	539	481	537	482	540	472	531	470	531	17
Mississippi	477	503	481	508	473	502	469	528	485	516	487	521	482	519	4
Missouri	465	500	458	508	462	504	475	518	476	519	474	518	471	519	14
Montana	500	547	488	544	485	539	492	547	485	541	479	530	471	529	20
Nebraska	459	507	484	539	489	537	497	549	493	549	488	545	487	545	10
Nevada	465	497	445	485	445	487	441	480	445	485	439	484	440	486	24
New Hampshire	449	485	441	485	439	479	450	489	450	485	450	488	446	487	68
New Jersey	424	454	415	452	414	450	425	464	424	465	425	467	424	469	69
New Mexico	486	516	482	524	474	510	484	521	489	527	484	525	478	524	12
New York	441	484	424	465	427	471	427	473	427	471	425	469	420	469	72
North Carolina	399	428	393	429	391	427	398	435	399	436	400	438	401	440	58
North Dakota	510	554	499	549	494	544	513	568	508	556	509	558	498	555	5
Ohio	456	499	455	499	457	500	460	504	460	503	455	499	452	499	23
Oklahoma	480	514	478	518	485	526	497	531	487	521	486	520	483	522	9
Oregon	440	468	428	465	431	469	444	484	444	486	444	484	441	482	50
Pennsylvania	430	470	423	463	421	459	428	465	429	465	428	463	424	462	63
Rhode Island	432	469	417	458	415	452	429	466	432	466	433	465	431	469	64
South Carolina	382	412	375	409	374	406	391	424	395	431	397	435	400	438	57
South Dakota	523	561	500	551	519	561	534	575	531	567	513	563	511	559	6
Tennessee	477	511	480	513	475	514	489	521	486	521	487	524	485	524	13
Texas	431	467	416	455	415	455	419	459	419	458	416	459	417	462	45
Utah	516	553	515	546	511	548	511	543	506	541	503	540	498	536	6
Vermont	439	476	432	468	427	467	441	478	442	474	440	474	437	472	64
Virginia	431	463	423	460	424	461	435	473	435	473	434	473	430	472	63
Washington	489	522	476	521	472	517	465	508	461	502	455	496	448	494	37
West Virginia	462	502	462	499	458	495	468	507	462	502	458	496	451	496	14
Wisconsin	492	544	472	533	477	533	477	534	478	536	475	534	473	534	14
Wyoming	506	548	484	525	478	528	495	539	484	534	483	533	474	527	12

<sup>1</sup> Based on the number of high school graduates in 1988 as projected by the Western Interstate Commission for Higher Education, and number of 1988 seniors who took the SAT

—Data not available

NOTE—Possible scores on each part of the SAT range from 200 to 800. Rankings of

States based on SAT scores alone are invalid because of the varying proportions of students in each State taking the tests

SOURCE: College Entrance Examination Board, "National SAT Scores Show Little Change for Third Straight Year, But Averages for Most Ethnic Groups Continue to Rise" (Copyright © 1988 by the College Entrance Examination Board. All rights reserved.) (This table was prepared December 1988.)

Table 114.—American College Testing (ACT) score<sup>1</sup> averages, by sex: 1976 to 1988

Type of test and sex	1976	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Composite, total	199	186	184	185	186	185	185	184	183	185	186	188	187	188
Male	203	195	192	193	193	193	193	192	191	193	194	196	195	196
Female	194	178	178	178	179	179	178	178	176	179	179	181	181	181
English, total	185	177	177	179	179	179	178	179	178	181	181	185	184	185
Male	176	171	170	174	174	173	173	173	173	175	176	179	179	180
Female	194	183	182	183	184	183	182	184	18.2	186	186	189	189	190
Math, total	200	176	174	175	175	174	17.3	172	16.9	173	172	173	172	172
Male	211	193	18.9	191	19.1	18.9	18.9	18.6	18.4	18.6	18.6	18.8	18.6	18.4
Female	188	162	161	162	162	162	160	160	15.7	161	160	160	161	161
Social studies, total	197	174	173	171	17.2	17.2	17.2	173	17.1	173	174	17.6	175	174
Male	203	18.7	18.2	180	18.1	18.2	18.3	18.1	18.0	18.1	18.3	18.6	18.4	18.4
Female	190	164	165	164	164	164	164	166	16.4	165	166	169	16.7	166
Natural science, total	208	211	209	209	211	211	210	20.8	20.9	210	212	214	214	214
Male	216	224	223	223	223	224	223	22.2	22.4	224	22.6	227	22.6	228
Female	200	200	196	198	202	20.0	20.0	19.7	19.6	199	20.0	202	201	20.2

<sup>1</sup> Scores on each test range from 1 to 36SOURCE The American College Testing Program, *High School Profile Report, 1988*  
(This table was prepared May 1989)

**Table 115.—Average number of Carnegie units earned by high school graduates in various subject fields, by student characteristic: 1982 and 1987**

Characteristic	Total	English	History/ social studies	Math	Computer science	Science	Foreign language	Vocational education <sup>1</sup>	Arts	Physical education	Other <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11	12
<b>1982 graduates</b>											
<b>All students . . .</b>	<b>21.2</b>	<b>3.80</b>	<b>3.10</b>	<b>2.54</b>	<b>0.11</b>	<b>2.19</b>	<b>1.05</b>	<b>3.98</b>	<b>1.39</b>	<b>1.93</b>	<b>1.14</b>
<b>Sex</b>											
Male . . . . .	21.0	3.76	3.09	2.61	0.13	2.25	0.86	3.91	1.23	2.06	1.06
Female . . . . .	21.5	3.84	3.12	2.46	0.10	2.13	1.23	4.05	1.55	1.81	1.20
<b>Race</b>											
White . . . . .	21.4	3.78	3.15	2.59	0.12	2.27	1.13	3.89	1.45	1.89	1.12
Black . . . . .	20.5	3.90	2.97	2.44	0.10	1.99	0.73	4.15	1.18	1.98	1.07
Hispanic . . . . .	20.8	3.79	2.94	2.22	0.07	1.79	0.78	4.55	1.27	2.13	1.25
Asian . . . . .	22.0	3.94	3.04	3.11	0.19	2.56	1.81	2.56	1.22	2.21	1.34
<b>Academic track</b>											
Academic . . . . .	22.6	4.17	3.52	3.34	0.15	3.01	1.71	2.16	1.39	1.92	1.18
Vocational . . . . .	20.8	3.48	2.69	1.74	0.06	1.43	0.35	7.54	0.96	1.80	0.78
Both . . . . .	24.7	4.41	3.74	2.99	0.12	2.58	0.55	6.56	0.89	2.01	0.77
Neither . . . . .	19.4	3.44	2.71	1.91	0.09	1.53	0.70	3.96	1.70	2.00	1.32
<b>Control</b>											
Public . . . . .	21.1	3.77	3.05	2.46	0.11	2.14	0.94	4.21	1.42	1.98	0.98
Private . . . . .	22.7	4.10	3.52	3.16	0.08	2.57	1.95	2.09	1.20	1.50	2.51
<b>1987 graduates</b>											
<b>All students . . .</b>	<b>23.0</b>	<b>4.03</b>	<b>3.33</b>	<b>2.97</b>	<b>0.43</b>	<b>2.59</b>	<b>1.46</b>	<b>3.65</b>	<b>1.43</b>	<b>1.97</b>	<b>1.14</b>
<b>Sex</b>											
Male . . . . .	22.9	4.01	3.31	3.03	0.47	2.66	1.29	3.67	1.24	2.13	1.07
Female . . . . .	23.1	4.05	3.35	2.92	0.40	2.53	1.63	3.64	1.60	1.81	1.21
<b>Race</b>											
White . . . . .	23.1	3.99	3.30	2.98	0.45	2.64	1.50	3.69	1.48	1.94	1.11
Black . . . . .	22.5	4.14	3.31	2.90	0.35	2.39	1.12	4.01	1.20	2.01	1.11
Hispanic . . . . .	22.9	4.23	3.23	2.77	0.36	2.33	1.27	3.57	1.35	2.40	1.37
Asian . . . . .	24.5	4.31	3.64	3.72	0.57	3.17	2.17	2.08	1.12	2.57	1.14
<b>Academic track</b>											
Academic . . . . .	23.8	4.24	3.62	3.46	0.50	3.10	1.95	2.23	1.50	1.94	1.21
Vocational . . . . .	22.1	3.61	2.73	1.99	0.24	1.65	0.49	7.74	0.94	1.91	0.83
Both . . . . .	24.2	4.22	3.47	3.00	0.34	2.46	0.83	6.40	0.79	1.88	0.79
Neither . . . . .	20.7	3.57	2.76	2.07	0.40	1.68	0.89	4.08	1.83	2.12	1.29
<b>Control</b>											
Public . . . . .	22.9	4.01	3.31	2.92	0.43	2.57	1.37	3.88	1.44	2.06	0.94
Private . . . . .	23.7	4.25	3.53	3.44	0.44	2.81	2.37	1.52	1.26	1.08	2.96

<sup>1</sup> Includes non-occupational vocational education: vocational general introduction, agriculture, business, marketing, health, occupational home economics, trade and industry, and technical courses.

<sup>2</sup> Includes personal and social courses, religion and theology, and all other courses not included in the other subject field.

NOTE—The Carnegie unit is a standard of measurement that represents one credit for the completion of a 1-year course.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "1987 High School Transcript Study" (This table was prepared December 1988.)

**Table 116.—Average number of Carnegie units earned by high school graduates in vocational education courses, by student characteristic: 1982 and 1987**

Characteristic	Total	Non-occupational vocational education	Vocational general introduction	Agriculture	Business	Marketing	Health	Occupational home economics	Trade and industry	Technical
1	2	3	4	5	6	7	8	9	10	11
<b>1982 graduates</b>										
All students	3.98	1.84	0.37	0.17	0.78	0.08	0.04	0.09	0.60	0.01
Sex										
Male	3.91	1.75	0.36	0.29	0.29	0.07	0.02	0.04	1.07	0.02
Female	4.05	1.93	0.38	0.06	1.23	0.09	0.06	0.14	0.15	0.01
Race										
White	3.89	1.78	0.36	0.18	0.80	0.08	0.03	0.09	0.53	0.02
Black	4.15	1.96	0.41	0.06	0.74	0.10	0.10	0.10	0.67	0.01
Hispanic	4.55	2.17	0.43	0.18	0.73	0.07	0.05	0.10	0.81	0.01
Asian	2.56	1.37	0.18	0.05	0.45	0.03	0.03	0.03	0.41	0.01
Academic track										
Academic	2.16	1.28	0.18	0.04	0.37	0.03	0.02	0.04	0.19	0.01
Vocational	7.54	2.13	0.77	0.51	1.83	0.18	0.08	0.17	1.85	0.02
Both	6.66	1.95	0.54	0.54	1.78	0.21	0.12	0.14	1.37	0.01
Neither	3.96	2.34	0.36	0.09	0.59	0.08	0.03	0.11	0.34	0.02
Control										
Public	4.21	1.94	0.36	0.18	0.81	0.09	0.04	0.10	0.65	0.01
Private	2.09	1.03	0.20	0.04	0.55	0.03	0.02	0.03	0.18	0.01
<b>1987 graduates</b>										
All students	3.65	1.84	0.34	0.17	0.68	0.10	0.05	0.10	0.56	0.01
Sex										
Male	3.67	1.61	0.31	0.28	0.34	0.07	0.03	0.05	0.96	0.02
Female	3.64	1.67	0.37	0.06	1.01	0.12	0.07	0.15	0.18	0.01
Race										
White	3.69	1.66	0.33	0.20	0.69	0.10	0.04	0.09	0.57	0.01
Black	4.01	1.83	0.44	0.09	0.74	0.11	0.09	0.19	0.50	0.02
Hispanic	3.57	1.64	0.30	0.06	0.70	0.11	0.05	0.09	0.62	0.00
Asian	2.08	1.01	0.20	0.01	0.44	0.08	0.03	0.05	0.25	0.01
Academic track										
Academic	2.23	1.29	0.20	0.04	0.42	0.03	0.02	0.04	0.18	0.01
Vocational	7.74	2.22	0.72	0.58	1.54	0.31	0.13	0.28	1.95	0.01
Both	6.40	1.67	0.58	0.59	1.49	0.23	0.13	0.23	1.46	0.02
Neither	4.08	2.35	0.40	0.10	0.58	0.10	0.04	0.12	0.38	0.01
Control										
Public	3.88	1.74	0.36	0.19	0.71	0.11	0.05	0.11	0.60	0.01
Private	1.52	0.73	0.15	0.01	0.43	0.01	0.01	0.00	0.17	0.01

NOTE—The Carnegie unit is a standard of measurement that represents one credit for the completion of a 1 year course

SOURCE: U.S. Department of Education, National Center for Education Statistics, "1987 High School Transcript Study" (This table was prepared December 1988)



**Table 117.—Percentage of high school graduates earning minimum credits in selected combinations of academic courses: 1982 and 1987**

II students	Year of graduation and course combinations taken <sup>1</sup>	Sex		Race/ethnicity			
		Male	Female	White	Black	Hispanic	Asian
1	2	3	4	5	6	7	8
<b>1982 graduates</b>							
4 ENG, 3 SS, 3 SCI, 3 MATH, .5 COMP, & 2 FL <sup>2</sup> .....	1.9	2.0	1.7	2.2	0.7	0.5	6.0
4 ENG, 3 SS, 3 SCI, 3 MATH, & .5 COMP <sup>3</sup> .....	2.7	3.3	2.1	3.1	1.0	0.9	7.1
4 ENG, 3 SS, 3 SCI, 3 MATH, & 2 FL .....	8.8	8.5	9.2	10.1	5.2	3.5	17.0
4 ENG, 3 SS, 3 SCI, & 3 MATH .....	13.4	14.3	12.6	14.9	10.1	6.3	21.0
4 ENG, 3 SS, 2 SCI, & 2 MATH .....	29.2	29.1	29.3	30.2	28.1	23.5	34.5
<b>1987 graduates</b>							
4 ENG, 3 SS, 3 SCI, 3 MATH, .5 COMP, & 2 FL <sup>2</sup> .....	12.0	13.3	10.9	12.7	8.3	5.5	24.3
4 ENG, 3 SS, 3 SCI, 3 MATH, & .5 COMP <sup>3</sup> .....	16.3	18.4	14.4	17.2	11.7	8.8	28.1
4 ENG, 3 SS, 3 SCI, 3 MATH, & 2 FL .....	20.9	20.9	20.9	21.8	16.1	11.8	41.9
4 ENG, 3 SS, 3 SCI, & 3 MATH .....	28.6	30.1	27.2	29.7	24.3	17.9	48.3
4 ENG, 3 SS, 2 SCI, & 2 MATH .....	54.6	54.6	54.7	53.5	57.2	55.1	71.8
Increase from 1982 to 1987, in percentage points							
<b>Difference from 1982 to 1987</b>							
4 ENG, 3 SS, 3 SCI, 3 MATH, .5 COMP, & 2 FL <sup>2</sup> .....	10.2	11.2	9.2	10.5	7.6	5.0	18.2
4 ENG, 3 SS, 3 SCI, 3 MATH, & .5 COMP <sup>3</sup> .....	13.6	15.1	12.3	14.1	10.7	7.7	21.0
4 ENG, 3 SS, 3 SCI, 3 MATH, & 2 FL .....	12.1	12.4	11.8	11.7	10.9	8.4	24.9
4 ENG, 3 SS, 3 SCI, & 3 MATH .....	15.2	15.8	14.7	14.8	14.2	11.6	27.2
4 ENG, 3 SS, 2 SCI, & 2 MATH .....	25.4	25.5	25.4	23.4	29.1	31.6	37.3

<sup>1</sup> ENG = English; SS = Social Studies; SCI = Science; COMP = Computer Science, and FL = Foreign Language

<sup>2</sup> The National Commission on Excellence in Education recommended that all college-bound high school students follow these courses as a minimum

<sup>3</sup> The National Commission on Excellence in Education recommended that all high school students follow these courses as a minimum

NOTE —Calculations based on unrounded figures

SOURCE U.S. Department of Education, National Center for Education Statistics, "1987 High School Transcript Study," unpublished calculations. (This table was prepared December 1988)

**Table 118.—High school courses taken by persons age 16 and over,<sup>1</sup> by sex, race, and age: Spring 1984**

[Numbers in thousands]

Courses taken	Total	Sex		Race		Age					
		Men	Women	White	Black	16 to 24 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	65 years old and over
1	2	3	4	5	6	7	8	9	10	11	12
<b>Persons over 18 who have attended 12 years of school or more</b>	<b>129,856</b>	<b>62,334</b>	<b>67,522</b>	<b>114,366</b>	<b>12,180</b>	<b>25,512</b>	<b>35,177</b>	<b>25,716</b>	<b>16,634</b>	<b>14,380</b>	<b>12,438</b>
<b>Number of persons completing courses</b>											
Algebra ..	102,696	50,837	51,859	90,689	9,272	20,106	27,554	20,314	12,882	11,437	10,404
Trigonometry or geometry ..	71,429	37,456	33,973	63,582	5,662	13,764	19,804	14,409	8,105	7,685	7,662
Chemistry or physics ..	62,352	33,812	28,540	54,268	5,922	11,771	17,111	12,714	7,579	6,979	6,197
English, 3 years or more	121,383	57,852	63,531	107,092	11,486	24,262	32,638	24,291	15,407	13,268	11,519
Foreign language, 2 years or more ..	56,855	24,384	32,471	50,493	4,456	10,187	16,093	11,622	6,422	5,867	6,665
Industrial arts, shop, or home economics, 2 years or more	73,883	36,243	37,640	63,758	8,230	15,300	20,708	14,896	9,874	7,701	5,404
Business courses, 2 years or more ..	54,297	16,043	38,254	47,865	5,190	10,967	14,165	11,280	7,315	6,184	4,386
<b>Percentage of persons completing courses</b>											
Algebra ..	79.1	81.6	76.8	79.3	76.1	78.8	78.3	79.0	77.4	79.5	83.6
Trigonometry or geometry ..	55.0	60.1	50.3	55.6	46.5	54.0	56.3	56.0	48.7	53.4	61.6
Chemistry or physics ..	48.0	54.2	42.3	47.5	48.6	49.1	48.6	49.4	45.6	48.5	49.8
English, 3 years or more	93.5	92.8	94.1	93.6	94.3	95.1	92.8	94.5	92.6	92.3	92.6
Foreign language, 2 years or more ..	43.8	39.1	48.1	44.2	36.6	39.9	45.7	45.2	38.6	40.3	53.6
Industrial arts, shop, or home economics, 2 years or more	56.9	58.1	55.7	55.7	67.6	60.0	58.9	57.9	59.4	53.6	43.4
Business courses, 2 years or more ..	41.8	25.7	56.7	41.9	42.6	43.0	40.3	43.9	44.0	43.0	35.3

<sup>1</sup> Includes only persons completing 12 years of school or more

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports, Series P-70, No. 11, "Educational Background and Economic Status: Spring 1984"* (This table was prepared October 1987)

NOTE—Data are based on sample surveys of the civilian noninstitutional population

**Table 119.—Eighth graders' attitudes about selected classes, by selected student and school characteristics: 1988**

Class subject and attitude	Percent who agree with statement													
	All 8th graders	Sex		Race/ethnicity					Socioeconomic status <sup>1</sup>			Control of school attended		
		Male	Female	White	Black	Hispanic	Asian	American Indian	Low	Middle	High	Public	Catholic	Other private
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Mathematics class</b>														
Look forward to	56.6	58.7	54.6	52.8	69.2	64.2	67.6	63.7	62.7	55.9	52.3	57.0	53.8	53.8
Afraid to ask questions	20.9	18.6	23.2	19.3	22.0	28.6	23.1	32.5	25.7	20.3	17.7	21.4	19.0	14.8
Useful in my future	88.0	89.0	86.9	87.4	89.3	89.7	90.4	85.1	88.0	87.8	88.3	88.0	88.3	86.6
<b>English class</b>														
Look forward to	56.9	52.0	61.6	52.2	72.8	67.5	63.6	66.0	62.7	55.7	53.8	57.8	46.4	56.9
Afraid to ask questions	15.4	15.6	15.3	14.2	16.7	20.7	17.4	19.6	19.4	15.5	11.5	15.7	15.2	11.0
Useful in my future	84.1	80.6	87.6	82.9	87.9	88.1	88.0	80.7	83.3	83.4	86.4	84.1	84.0	85.1
<b>Social studies class</b>														
Look forward to	58.5	62.1	55.0	56.0	67.6	63.3	64.0	60.2	58.5	57.8	59.9	59.0	54.0	55.8
Afraid to ask questions	15.1	14.1	16.1	13.7	16.5	20.8	19.1	22.2	19.4	15.2	10.7	15.4	13.6	12.1
Useful in my future	59.1	61.0	57.3	56.9	66.7	63.0	64.7	64.3	61.2	57.2	60.9	59.3	55.4	61.5
<b>Science class</b>														
Look forward to	61.3	65.1	57.5	59.0	68.3	66.6	67.2	64.3	62.9	60.5	61.2	61.7	54.7	63.4
Afraid to ask questions	14.9	14.2	15.5	13.5	16.0	20.8	16.2	25.6	18.7	14.8	11.5	15.2	14.0	11.0
Useful in my future	68.7	72.3	65.2	67.6	71.7	70.4	74.5	67.6	68.1	67.6	71.4	68.9	64.3	70.6

<sup>1</sup> Socioeconomic status was measured by a composite score on parental education and occupations, family income, and household characteristics. The "Low" SES group is the lowest quartile, the "Middle" SES group is the middle two quartiles, and the "High" SES group is the upper quartile.

NOTE—Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988" survey (This table was prepared June 1989).

**Table 120.—Expected occupations of 8th graders at age 30, by selected student and school characteristics: 1988**

Expected occupation at age 30	Percent who agree with statement													
	All 8th graders	Sex		Race/ethnicity					Socioeconomic status <sup>1</sup>			Control of school attended		
		Male	Female	White	Black	Hispanic	Asian	American Indian	Low	Middle	High	Public	Catholic	Other private
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Craftsperson or operator</b>	4.2	7.6	0.9	4.3	3.2	5.3	3.6	6.6	7.1	4.3	1.4	4.5	2.4	2.0
Farmer or farm manager	1.0	1.7	0.3	1.2	0.1	0.6	0.6	0.3	1.0	1.2	0.5	1.0	0.3	1.0
Housewife/homemaker	2.3	0.2	4.4	2.5	0.9	2.9	1.1	3.1	3.2	1.9	2.2	2.2	2.1	3.8
Laborer or farm worker	0.6	1.0	0.1	0.5	0.6	0.8	0.7	0.2	1.1	0.4	0.3	0.6	0.2	0.1
Military, police, or security officer	9.6	14.9	4.3	9.0	11.4	11.0	7.0	17.0	11.5	10.2	6.5	10.0	6.4	6.0
Professional, business, or managerial	28.6	19.6	37.6	28.7	29.3	26.0	34.9	23.0	20.1	27.6	38.9	27.6	36.2	36.9
Business owner	6.2	6.8	5.6	6.3	5.8	5.7	6.4	5.7	4.7	6.4	7.2	6.0	7.6	8.0
Technical	6.2	8.3	4.2	5.7	8.0	7.3	7.6	6.5	6.4	6.6	5.1	6.4	5.6	4.2
Salesperson, clerical, or office worker	2.8	1.2	4.5	2.7	2.9	3.8	2.3	2.3	3.8	2.9	1.7	2.9	2.1	1.8
Science or engineering professional	5.9	8.5	3.3	6.1	4.2	4.8	9.7	6.4	3.4	5.3	9.4	5.6	7.5	7.6
Service worker	4.9	2.1	7.7	4.9	6.4	3.9	2.3	3.4	7.2	5.0	2.5	5.1	3.2	3.0
Other employment	17.0	17.6	16.5	17.7	16.3	15.1	13.4	11.9	15.7	17.9	16.6	17.0	17.7	16.4
Don't know	10.5	10.4	10.6	10.2	10.4	12.5	10.5	13.5	14.3	10.1	7.5	10.8	8.3	9.1

<sup>1</sup> Socioeconomic status was measured by a composite score on parental education and occupations, family income, and household characteristics. The "Low" SES group is the lowest quartile, the "Middle" SES group is the middle two quartiles, and the "High" SES group is the upper quartile.

NOTE—Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988" survey (This table was prepared June 1989).

**Table 121.—Sex education in public and private schools: 1986**

[Percent of all teenagers]

Sex education, by grade level and content of class	All teenagers	Age of student responding			Region			
		12-13 years	14-15 years	16-17 years	First	Midwest	South	West
		3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9
<b>Ever had sex education course or class</b>	<b>59</b>	<b>42</b>	<b>60</b>	<b>73</b>	<b>65</b>	<b>54</b>	<b>45</b>	<b>80</b>
Beginning in								
1st to 4th grade	6	13	4	4	7	7	2	6
5th grade	20	40	19	10	16	20	20	23
6th grade	18	21	19	16	28	13	12	20
7th grade	18	19	22	14	23	12	14	22
8th grade	13	5	13	17	14	9	13	15
9th grade	15	—	17	21	5	24	25	6
10th grade or later	7	—	(1)	16	4	6	10	8
In one grade or more								
Just one grade	49	52	46	50	43	50	62	42
In more than one grade	49	44	52	49	56	46	38	55
Contents of sex education class								
Biological facts about reproduction	52	83	89	92	97	82	89	88
Coping with sexual development	46	66	83	83	85	76	84	71
Different types of birth control	39	48	63	79	71	55	74	65
Preventing sexual abuse	32	56	55	53	46	49	61	62
Facts about abortion	32	39	57	59	57	45	54	60
Where to get contraceptives	30	31	45	67	55	45	60	44
Percent who have had comprehensive sex education <sup>2</sup>	35	40	60	70	64	49	64	62

<sup>1</sup> Less than 5 percent

<sup>2</sup> "Comprehensive" sex education includes at least four of the six content areas listed above

—Data not applicable

SOURCE Planned Parenthood Federation of America, Inc., Louis Harris and Associates, Inc., *American Teens Speak: Sex, Myths, TV, and Birth Control*, September–October 1986 (This table was prepared November 1988)

**Table 122.—Public attitudes toward sex education and provision of birth control information, referrals, and contraceptives in the public schools: 1988**

Adult characteristics <sup>1</sup>	Percentage of adults who favor the following practices in public schools		
	Teaching sex education	Dispensing birth control information and contraceptives	School clinic referrals to family planning clinics
	2	3	4
1	2	3	4
<b>Total</b>	<b>89</b>	<b>73</b>	<b>80</b>
Race			
White	88	71	81
Black	92	88	75
Hispanic	90	73	73
Education			
Less than high school	80	65	71
High school graduate	90	72	81
Some college	92	80	86
4 years college or more	94	78	82
Marital status			
Married	87	68	78
Were married	86	70	79
Never been married	94	86	86
Perception of teenage pregnancies as a serious problem			
Serious problem	89	73	80
Not a serious problem	88	74	74

<sup>1</sup> Adults, 18 years old and older

SOURCE Planned Parenthood Federation of America, Inc., Louis Harris and Associates, Inc., *Public Attitudes Toward Teenage Pregnancy, Sex Education and Birth Control*, May 1988 (This table was prepared November 1988)

**Table 123.—Participation of high school seniors in extracurricular activities, by selected student characteristics: 1972 and 1982**

Student characteristics	Percent of seniors participating in activities								
	Athletics <sup>1</sup>	Debating, drama, band, chorus <sup>2</sup>	Subject-matter clubs	Vocational education clubs	Newspaper, magazine, or yearbook clubs	Student council, government, political clubs	Hobby clubs	Cheerleaders, pep club, majorettes	Honorary clubs
1	2	3	4	5	6	7	8	9	10
<b>All 1972 seniors</b>	<b>44.5</b>	<b>32.9</b>	<b>25.8</b>	<b>23.0</b>	<b>20.4</b>	<b>19.6</b>	<b>18.7</b>	<b>17.3</b>	<b>14.8</b>
<b>Sex</b>									
Male	58.2	26.9	20.4	16.0	14.7	18.6	23.7	5.3	11.1
Female	32.1	39.8	31.2	29.8	26.7	21.0	13.3	29.6	19.4
<b>Race</b>									
White	44.5	32.6	25.0	21.9	20.7	19.2	18.3	17.3	15.7
Black	49.7	40.6	33.1	33.1	21.2	25.5	19.7	20.5	11.6
<b>Father's highest level of education</b>									
Less than high school <sup>1</sup>	39.3	31.1	24.1	30.0	19.4	15.4	16.9	15.6	12.5
High school graduate <sup>3</sup>	46.7	32.9	25.7	21.9	21.4	20.2	18.0	19.6	16.1
College graduate <sup>4</sup>	51.4	40.2	28.6	12.4	24.2	27.6	20.8	17.5	23.1
<b>High school curriculum</b>									
General	43.3	33.0	22.3	24.3	17.5	15.5	19.4	15.5	7.0
Academic	53.4	39.7	29.6	14.8	25.7	26.7	17.7	20.2	25.2
Vocational	31.3	21.9	22.9	37.2	15.4	12.1	18.7	15.2	6.6
<b>All 1982 seniors</b>	<b>51.5</b>	<b>34.6</b>	<b>20.6</b>	<b>23.6</b>	<b>18.3</b>	<b>16.3</b>	<b>20.0</b>	<b>13.7</b>	<b>15.6</b>
<b>Sex</b>									
Male	61.7	25.8	16.4	20.2	13.3	13.1	23.5	4.1	12.1
Female	41.8	42.9	24.6	26.7	23.1	19.3	16.7	22.8	18.8
<b>Race</b>									
White	51.1	34.0	19.7	22.2	19.1	15.6	19.1	13.5	16.8
Black	54.5	43.1	23.9	30.0	16.0	19.7	19.5	16.8	12.5
<b>Father's highest level of education</b>									
Less than high school	43.4	29.4	21.2	31.0	14.6	12.2	18.4	11.8	10.6
High school graduate <sup>3</sup>	52.4	33.8	19.8	24.1	17.9	15.9	19.9	14.6	14.9
College graduate <sup>4</sup>	62.6	42.4	23.1	13.4	25.9	24.1	21.0	14.4	26.8
<b>High school curriculum</b>									
General	49.5	33.1	16.7	22.9	15.0	11.6	20.8	12.6	7.7
Academic	61.1	41.9	25.4	12.7	25.5	24.7	19.6	15.7	28.4
Vocational	40.7	26.0	18.7	40.2	12.4	10.5	19.5	12.4	7.7

<sup>1</sup>In 1972, includes participation in team athletics, intramurals, letterman's clubs, and sports clubs. In 1982, includes varsity athletic teams and other athletic teams—in or out of school.

<sup>2</sup>In 1972, includes debating, drama, band, and chorus. In 1982, includes debating, drama, band, orchestra, chorus, and dance.

<sup>3</sup>Includes attendance at a vocational trade or business school or 2-year college, or attendance at a 4-year college resulting in less than a bachelor's degree.

<sup>4</sup>Includes those with a bachelor's or higher-level degree.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Longitudinal Study of 1972" and High School and Beyond surveys (This table was prepared August 1987.)

Table 124.—Eighth graders' attitudes about school climate, by student and school characteristics: 1988

Statements about school climate	Percent who strongly agree or agree with statement													
	All 8th graders	Sex		Race/ethnicity					Socioeconomic status <sup>1</sup>			Control of school attended		
		Male	Female	White	Black	Hispanic	Asian	American Indian	Low	Middle	High	Public	Catholic	Other private
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Students get along well with teachers . . . . .	87.1	87.6	88.5	88.1	80.5	88.4	73.0	85.2	64.3	88.2	71.5	85.6	75.4	80.5
There is real school spirit	68.6	67.2	69.9	69.8	65.0	64.9	68.7	67.4	67.9	68.9	68.7	68.1	70.5	74.0
Rules for behavior are strict . . . . .	68.5	70.9	68.1	68.5	68.7	68.4	67.3	65.4	68.2	68.1	68.4	67.1	78.4	77.2
Discipline is fair . . . . .	69.1	67.3	70.9	69.7	65.0	70.7	72.5	63.5	67.1	68.3	72.7	68.9	69.4	72.7
Other students often disrupt class . . . . .	77.9	78.2	77.5	77.3	80.5	79.1	78.1	79.0	79.1	78.5	75.6	79.0	70.8	87.8
Teaching is good . . . . .	80.2	78.9	81.5	80.0	80.0	81.3	83.4	76.7	78.8	79.5	83.0	79.6	82.9	87.4
Teachers are interested in students . . . . .	75.2	74.9	75.6	74.7	76.6	76.8	78.6	68.5	74.0	74.8	77.3	73.9	83.0	87.2
Teachers praise my effort when I work hard . . . . .	63.3	63.0	63.5	60.3	72.1	70.7	70.8	63.3	68.8	61.7	63.0	82.3	66.9	74.8
I often feel "put down" by my teachers . . . . .	21.8	23.4	20.1	21.7	21.5	22.6	17.1	30.5	23.7	21.9	19.6	21.8	22.4	19.3
Teachers listen to what I have to say . . . . .	68.4	66.9	69.9	67.1	73.2	70.6	74.9	62.1	68.9	66.9	70.9	67.5	73.3	78.2
I don't feel safe at this school . . . . .	11.8	13.3	10.3	9.9	18.0	18.1	12.2	17.4	15.3	12.1	7.9	12.5	7.8	5.8
Disruptions by other students interfere with my learning . . . . .	39.6	39.3	39.9	35.7	54.9	44.9	45.1	55.2	48.0	39.4	32.1	41.0	31.8	28.0
Misbehaving students often get away with it . . . . .	52.8	57.5	48.0	51.9	53.4	55.7	55.3	59.0	52.7	52.2	53.9	53.3	50.5	45.9

<sup>1</sup> Socioeconomic status was measured by a composite score on parental education and occupations, family income, and household characteristics. The "Low" SES group is the lowest quartile; the "Middle" SES group is the middle two quartiles, and the "High" SES group is the upper quartile.

NOTE—Data are preliminary

SOURCE U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988" survey (This table was prepared June 1989)

Table 125.—Eighth graders' attendance patterns, by student and school characteristics: 1988

Attendance pattern	Percent of 8th graders													
	All 8th graders	Sex		Race/ethnicity					Socioeconomic status <sup>1</sup>			Control of school attended		
		Male	Female	White	Black	Hispanic	Asian	American Indian	Low	Middle	High	Public	Catholic	Other private
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Number of days missed over the past 4 weeks														
None . . . . .	45.2	49.2	41.3	44.8	50.0	41.8	57.9	32.6	39.4	48.0	49.2	44.1	53.5	52.8
1 or 2 days . . . . .	33.7	32.2	35.3	35.1	27.8	31.9	28.5	35.1	32.9	33.3	35.0	33.9	32.8	32.5
3 or 4 days . . . . .	13.3	11.7	15.0	13.6	13.8	16.1	7.3	21.0	16.2	13.4	10.4	13.9	8.5	9.5
5 or more days . . . . .	7.7	6.9	8.5	7.2	8.4	10.2	6.2	11.2	11.4	7.1	5.4	8.1	5.1	5.2
Number of times late over the past 4 weeks														
None . . . . .	63.1	62.5	63.7	66.3	53.8	52.4	66.2	52.9	59.1	63.9	65.4	62.8	69.3	57.8
1 or 2 days . . . . .	25.2	25.4	25.1	24.2	28.6	28.1	23.5	28.9	26.3	24.7	25.3	25.3	22.6	26.8
3 or more days . . . . .	11.7	12.1	11.2	9.5	17.6	19.5	10.3	16.2	14.6	11.4	9.3	11.9	8.1	13.3
Cut classes														
Never or almost never . . . . .	91.1	89.4	92.8	92.0	91.0	85.6	91.7	67.3	88.3	91.3	93.6	90.6	95.8	94.2
At least sometimes . . . . .	8.9	10.6	7.1	8.0	9.0	14.4	8.3	12.7	11.7	8.7	6.4	9.4	4.2	5.8

<sup>1</sup> Socioeconomic status was measured by a composite score on parental education and occupations, family income, and household characteristics. The "Low" SES group is the lowest quartile; the "Middle" SES group is the middle two quartiles, and the "High" SES group is the upper quartile.

NOTE—Data are preliminary

SOURCE U.S. Department of Education, National Center for Education Statistics, "National Education Longitudinal Study of 1988" survey (This table was prepared June 1989)

**Table 126.—Incidence of student infractions, disciplinary actions, and perceived changes in amount of classroom disruption in public secondary schools, by school characteristics: 1983-84**

Disruption or disciplinary action	All public secondary schools	Type <sup>1</sup>		School size			Metropolitan status			District size		
		Junior high	Senior high	Less than 400	400 to 999	1,000 or more	Rural	Suburban	Urban	Less than 1,000	1,000 to 24,999	25,000 or more
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Percent of schools with occurrences</b>												
<b>Student infractions</b>												
Student caught selling illegal drugs at school	35	31	39	10	38	63	21	46	51	11	40	4 <sup>2</sup>
Theft of personal item reported to school <sup>2</sup>	82	80	84	71	85	93	79	84	89	72	84	87
Law violations reported to police by school authorities	72	70	75	62	71	88	64	76	88	61	73	85
<b>Disciplinary actions</b>												
Suspension for disciplinary reasons	96	97	95	89	98	99	92	98	100	88	97	99
In-school alternative to suspension	69	75	66	63	71	75	66	75	65	57	74	66
Expulsion	37	31	42	29	35	51	35	35	45	27	37	50
Transfer to special school for disruptive students	33	39	30	14	28	50	19	43	52	12	34	56
<b>Occurrences per 100 students <sup>3</sup></b>												
<b>Student infractions</b>												
Student caught selling illegal drugs at school	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.5	0.1	0.2	0.4
Theft of personal item reported to school <sup>2</sup>	1.2	0.8	1.4	1.7	0.9	1.1	1.4	1.0	1.3	2.0	1.0	1.1
Law violations reported to police by school authorities	0.8	0.7	0.8	1.0	0.7	0.9	0.7	0.8	1.5	0.9	0.7	1.2
<b>Disciplinary actions</b>												
Suspension for disciplinary reasons	10.0	10.2	9.9	7.1	11.1	13.7	6.6	10.9	18.8	4.7	10.4	15.3
In-school alternative to suspension	9.9	10.1	9.9	6.0	10.9	13.1	7.1	12.1	12.9	4.9	11.2	11.3
Expulsion	0.3	0.2	0.3	0.4	0.2	0.2	0.2	0.2	0.6	0.3	0.2	0.5
Transfer to special school for disruptive students	0.3	0.3	0.4	0.2	0.3	0.6	0.1	0.4	0.9	0.1	0.2	0.9
<b>Percent of school administrators</b>												
<b>Perceived change in amount of classroom disruption between 1980 and 1985 <sup>4</sup></b>												
Less	66	59	73	60	69	68	65	71	58	66	66	66
Same	22	28	18	27	20	19	24	20	22	22	23	17
More	12	13	10	13	11	13	12	9	20	11	11	16

<sup>1</sup> Some schools have both elementary and secondary grades. These schools are not shown separately because their number is small. These schools are included in the totals and in analyses by other school characteristics.

<sup>2</sup> Includes only thefts of items valued at \$10 or more reported by students to school authorities.

<sup>3</sup> Based on all schools, including those reporting no occurrences.

<sup>4</sup> School authorities compared current disruptive classroom behavior with that of 5 years ago on a 5-point scale ranging from "much less now" to "much more now." Percents have been adjusted for "don't know" responses. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Discipline in Public Secondary Schools" (This table was prepared October 1986).

**Table 127.—Teacher perceptions of changes in disruptive student behavior, by school characteristics: 1986-87**

School characteristics	Percent of teachers indicating that compared to 5 years ago disruptive behavior is—				
	Much less now	Somewhat less now	About the same	Somewhat more now	Much more now
1	2	3	4	5	6
<b>All teachers</b>	<b>10</b>	<b>17</b>	<b>28</b>	<b>25</b>	<b>19</b>
School level <sup>1</sup>					
Elementary	8	12	27	29	24
Middle school and junior high	13	22	24	22	20
Senior high school	12	23	32	22	12
School enrollment					
Less than 400	11	16	28	25	21
400 to 999	10	17	28	26	19
1,000 or more	10	19	30	24	17
Metropolitan status					
Urban <sup>2</sup> . . . .	15	16	20	23	26
Suburban <sup>3</sup>	8	16	32	26	18
Rural <sup>4</sup> . . . .	11	19	28	26	16

<sup>1</sup> Elementary schools include all schools in which the lowest grade is less than 6 and the highest grade is less than 9, middle schools and junior high schools include all schools in which the lowest grade is greater than 5 and the highest grade is less than 10, Senior high schools include all schools in which the lowest grade is greater than 6 and the highest grade is greater than 9. The small number of combined schools, which offer elementary and secondary-level education, are not shown by level of school, but are included in other totals.

<sup>2</sup> Within Standard Metropolitan Statistical Areas, outside central city  
<sup>4</sup> Outside of Standard Metropolitan Statistical Areas

NOTE—Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, Fast Response Survey System, "Public School Teacher Perspectives on School Discipline" (This table was prepared December 1987)

<sup>2</sup> Within Standard Metropolitan Statistical Areas, inside central city

**Table 128.—Percent of teachers rating selected factors as limiting their ability to maintain order, by school level and metropolitan status: 1986-87**

Factors rated as limiting teachers much or very much <sup>1</sup>	All teachers	School level <sup>2</sup>			Metropolitan status		
		Elementary school	Middle and junior high school	Senior high school	Urban <sup>3</sup>	Suburban <sup>4</sup>	Rural <sup>5</sup>
1	2	3	4	5	6	7	8
Lack of or inadequate alternative placement programs for disruptive students	39	43	39	35	52	36	36
Lack of student interest in learning	38	31	43	47	45	37	36
School or district restrictions on the use of strict penalties	22	21	25	23	34	21	17
Lack of administrative support	20	19	20	23	26	18	19
Likelihood of complaint from parents	19	23	17	14	23	18	18
Principal/administrative fear of being sued for disciplining students	18	19	15	18	21	17	18
Teacher fear of being sued for disciplining students	18	22	14	14	21	15	21
Lack of or inadequate teacher training in discipline procedures and school law	1	15	17	13	20	13	13
Court decisions on student misconduct	15	13	19	17	24	14	11
Teacher fear of being viewed as unable to control students	15	15	16	15	22	12	13
Fear of student reprisal	6	5	5	6	11	3	5
Lack of or inadequate security personnel	6	3	7	10	14	5	4

<sup>1</sup> Teachers responded on a 6-point scale with 0—"not at all", 1—"very little", 4—"much", and 5—"very much". Percents are based on teachers who indicated the factor limited them "much" or "very much."

<sup>2</sup> Within Standard Metropolitan Statistical Areas, inside central city  
<sup>4</sup> Within Standard Metropolitan Statistical Areas, outside central city  
<sup>5</sup> Outside of Standard Metropolitan Statistical Areas

NOTE—Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, Fast Response Survey System, "Public School Teacher Perspectives on School Discipline" (This table was prepared December 1987)

<sup>2</sup> Elementary schools include all schools in which the lowest grade is less than 6 and the highest grade is less than 9, middle schools and junior high schools include all schools in which the lowest grade is greater than 5 and the highest grade is less than 10, senior high schools include all schools in which the lowest grade is greater than 6 and the highest grade is greater than 9. The small number of combined schools, which offer both elementary and secondary-level education, are not shown by level of school but are included in other totals



**Table 129.—Trends in drug use among high school seniors, by type of drug and frequency of use: 1975 to 1988**

Type of drug and frequency of use	Class of 1975	Class of 1976	Class of 1977	Class of 1978	Class of 1979	Class of 1980	Class of 1981	Class of 1982	Class of 1983	Class of 1984	Class of 1985	Class of 1986	Class of 1987	Class of 1988
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Percentage reporting having ever used drugs														
Alcohol .....	90.4	91.9	92.5	93.1	93.0	93.2	92.6	92.8	92.6	92.6	92.2	91.3	92.2	92.0
Any illicit drug abuse ..	55.2	58.3	61.6	64.1	65.1	65.4	65.6	64.4	62.9	61.6	60.6	57.6	56.6	—
Marijuana only .....	19.0	22.9	25.8	27.6	27.7	26.7	22.8	23.3	22.5	21.3	20.9	19.9	20.8	—
Any illicit drug other than marijuana <sup>1</sup> ..	36.2	35.4	35.6	36.5	37.4	38.7	42.8	41.1	40.4	40.3	39.7	37.7	35.8	—
Use of selected drugs														
Cocaine .....	9.0	9.7	10.8	12.9	15.4	15.7	16.5	16.0	16.2	16.1	17.3	16.9	15.2	12.1
Heroin .....	2.2	1.8	1.8	1.6	1.1	1.1	1.1	1.2	1.2	1.3	1.2	1.1	1.2	1.1
LSD .....	11.3	11.0	9.8	9.7	9.5	9.3	9.8	9.6	8.9	8.0	7.5	7.2	8.4	7.7
Marijuana/hashish ..	47.3	52.8	56.4	59.2	60.4	60.3	59.5	58.7	57.0	54.9	54.2	50.9	50.2	47.2
PCP .....	—	—	—	—	12.8	9.6	7.8	6.0	5.6	5.0	4.9	4.8	3.0	2.9
Percentage reporting use of drugs in the past 12 months														
Alcohol .....	84.8	85.7	87.0	87.7	88.1	87.9	87.0	86.8	87.3	86.0	85.6	84.5	85.7	85.3
Any illicit drug abuse ..	45.0	48.1	51.1	53.8	54.2	53.1	52.1	49.4	47.4	45.8	46.3	44.3	41.7	—
Marijuana only .....	18.8	22.7	25.1	26.7	26.0	22.7	18.1	19.3	19.0	17.8	16.9	18.4	17.6	—
Any illicit drug other than marijuana <sup>1</sup> ..	26.2	25.4	26.0	27.1	28.2	30.4	34.0	30.1	28.4	28.0	27.4	25.9	24.1	—
Use of selected drugs														
Cocaine .....	5.6	6.0	7.2	9.0	12.0	12.3	12.4	11.5	11.4	11.6	13.1	12.7	10.3	7.9
Heroin .....	1.0	0.8	0.8	0.8	0.5	0.5	0.5	0.6	0.6	0.5	0.6	0.5	0.5	0.5
LSD .....	7.2	6.4	5.5	6.3	6.6	6.5	6.5	6.1	5.4	4.7	4.4	4.5	5.2	4.8
Marijuana/hashish ..	40.0	44.5	47.6	50.2	50.8	48.8	46.1	44.3	42.3	40.0	40.6	38.8	36.3	33.1
PCP .....	—	—	—	—	7.0	4.4	3.2	2.2	2.6	2.3	2.9	2.4	1.3	1.2
Percentage reporting use of drugs in the past 30 days														
Alcohol .....	68.2	68.3	71.2	72.1	71.8	72.0	70.7	69.7	69.4	67.2	65.9	65.3	66.4	63.9
Any illicit drug abuse ..	30.7	34.2	37.6	38.9	38.9	37.2	36.9	32.5	30.5	29.2	29.7	27.1	24.7	—
Marijuana only .....	15.3	20.3	22.4	23.8	22.2	18.8	15.2	15.5	15.1	14.1	14.8	13.9	13.1	—
Any illicit drug other than marijuana <sup>1</sup> ..	15.4	13.9	15.2	15.1	16.8	18.4	21.7	17.0	15.4	15.1	14.9	13.2	11.6	—
Use of selected drugs														
Cocaine .....	1.9	2.0	2.9	3.9	5.7	5.2	5.8	5.0	4.9	5.8	6.7	6.2	4.3	3.4
Heroin .....	0.4	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2
LSD .....	2.3	1.9	2.1	2.1	2.4	2.3	2.5	2.4	1.9	1.5	1.6	1.7	1.8	1.8
Marijuana/hashish ..	27.1	32.2	35.4	37.1	36.5	33.7	31.6	28.5	27.0	25.2	25.7	23.4	21.0	18.0
PCP .....	—	—	—	—	2.4	1.4	1.4	1.0	1.3	1.0	1.6	1.3	0.6	0.3

<sup>1</sup> Other illicit drugs include any use of hallucinogens, cocaine, and heroin, or any use of other opiates, stimulants, sedatives, or tranquilizers not under a doctor's orders  
—Data not available

NOTE—A revised questionnaire was used in 1982 and later years to reduce the inappropriate reporting of nonprescription stimulants. This slightly reduced the positive responses for some types of drug abuse.

SOURCE: U.S. Department of Health and Human Services, Alcohol, Drug Abuse, and Mental Health Administration, *Drug Use Among American High School Students and Other Young Adults, National Trends Through 1987* and press release dated March 1987 (This table was prepared March 1988)

**Table 130.—Percent of districts indicating a change in student alcohol and drug abuse over a 2-year period, by selected school district characteristics: 1984-85 to 1986-87**

District characteristic	Alcohol			Drugs		
	Decreased	Remained the same	Increased	Decreased	Remained the same	Increased
1	2	3	4	5	6	7
Total ..	16	56	29	47	42	11
<b>Metropolitan status</b>						
Urban ..	16	49	35	30	39	31
Suburban . . .	14	59	28	47	46	8
Rural . . . . .	16	55	29	47	41	12
<b>Size</b>						
Less than 2,500	16	59	25	46	44	9
2,500-9,999	13	46	41	49	35	16
10,000 or more. . .	16	43	41	43	36	20
<b>Region</b>						
Northeast . . . . .	16	52	32	51	43	6
Central . . . . .	14	57	29	16	44	9
Southeast . . . . .	16	50	34	50	39	11
West . . . . .	17	59	24	44	40	16

NOTE --Data reported by school district administrators. Percentages may not add to 100 because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "District Efforts in Substance Abuse Education" (This table was prepared August 1988)

**Table 131.—Ages for compulsory school attendance and compulsory provision of services for special education students, by State: 1988**

State	Compulsory attendance (December 1988)	Compulsory provision of services for special education (October 1988)	State	Compulsory attendance (December 1988)	Compulsory provision of services for special education (October 1988)
1	2	3	1	2	3
Alabama	7 to 16	<sup>1</sup> 6 to 20	Missouri	7 to 16	5 to 20
Alaska	<sup>2</sup> 7 to 16	3 to 21	Montana	<sup>6</sup> 7 to 16	<sup>7</sup> 6 to 18
Arizona	8 to 16	<sup>1</sup> 6 to 21	Nebraska	7 to 16	Birth to 20
Arkansas	7 to 17	5 to 20	Nevada	7 to 17	5 to 21
California	6 to 16	5 to 21	New Hampshire	6 to 16	3 to 20
Colorado	7 to 16	<sup>3</sup> 5 to 20	New Jersey	6 to 16	<sup>3</sup> 3 to 21
Connecticut	7 to 16	3 to 21	New Mexico	6 to 18	3 to 21
Delaware	5 to 16	4 to 20	New York	<sup>8</sup> 6 to 16	5 to 21
District of Columbia	7 to 17	3 to 21	North Carolina	7 to 16	5 to 20
Florida	6 to 16	<sup>4</sup> 5 to 18	North Dakota	7 to 16	3 to 20
Georgia	7 to 16	5 to 21	Ohio	6 to 18	5 to 21
Hawaii	6 to 18	3 to 20	Oklahoma	7 to 18	4 to 21
Idaho	7 to 16	<sup>1</sup> 6 to 20	Oregon	7 to 18	<sup>9</sup> 6 to 20
Illinois	7 to 16	3 to 21	Pennsylvania	8 to 17	<sup>10</sup> 6 to 21
Indiana	7 to 16	<sup>3</sup> 5 to 17	Rhode Island	6 to 16	3 to 20
Iowa	7 to 16	Birth to 20	South Carolina	<sup>11</sup> 5 to 17	5 to 20
Kansas	7 to 16	5 to 21	South Dakota	<sup>6</sup> 7 to 16	3 to 20
Kentucky	<sup>5</sup> 6 to 16	5 to 20	Tennessee	7 to 17	4 to 21
Louisiana	7 to 17	3 to 20	Texas	<sup>12</sup> 7 to 16	3 to 21
Maine	7 to 17	5 to 19	Utah	6 to 18	3 to 21
Maryland	6 to 16	Birth to 20	Vermont	7 to 16	<sup>3</sup> 5 to 21
Massachusetts	6 to 16	3 to 21	Virginia	5 to 17	2 to 21
Michigan	6 to 16	Birth to 25	Washington	8 to 18	3 to 21
Minnesota	7 to 16	Birth to 20	West Virginia	6 to 16	5 to 22
Mississippi	6 to 14	5 to 20	Wisconsin	6 to 18	3 to 20
			Wyoming	7 to 16	<sup>9</sup> 6 to 20

<sup>1</sup> In districts where kindergarten is available, special education services are available, all local school systems provide kindergarten

<sup>2</sup> Ages 7 to 16 or high school graduation

<sup>3</sup> In some cases a local school system may choose to begin services as of a child's birthdate

<sup>4</sup> Children are eligible for 13 years of schooling beginning in kindergarten

<sup>5</sup> Must have parental signature for leaving school between ages of 16 and 18

<sup>6</sup> May leave after completion of eighth grade

<sup>7</sup> In some cases a local school system may choose to begin services as of a child's birthdate. In districts where kindergarten is available, special education services are available

<sup>8</sup> The ages are 6 to 17 for New York City and Buffalo

<sup>9</sup> In districts where kindergarten is available, special education services are available

<sup>10</sup> In some cases a local school system may choose to begin services as of a child's birthdate. In districts where kindergarten is available, special education services are available, all local school systems provide kindergarten

<sup>11</sup> Permits parental waiver of kindergarten at age 5

<sup>12</sup> Must complete academic year in which 16th birthday occurs

NOTE—The Education of the Handicapped Act (EHA) Amendments of 1986 make it mandatory for all States receiving EHA funds to serve all 5- to 18-year-old handicapped children at present and all 3- to 5-year-old handicapped children by 1991

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services, *The Eleventh Annual Report to Congress on the Implementation of The Education of the Handicapped Act, 1989*, Education Commission of the States, "Compulsory School Age Requirements, March 1987," and unpublished revisions. (This table was prepared January 1989)

**Table 132.—Average number of days per school year, classes per day, hours of class per day, and minutes per class in public high schools, by selected school characteristics: 1984-85**

School characteristic	Days per school year	Credit classes per day	Hours of class per day	Minutes per class
1	2	3	4	5
<b>United States average</b>	<b>178.0</b>	<b>6.1</b>	<b>5.14</b>	<b>51.1</b>
District enrollment size				
Less than 2,500	177.5	6.1	5.22	51.0
2,500 to 9,999	179.0	5.8	4.92	50.9
10,000 or more	179.1	5.9	5.19	53.2
Metropolitan status				
In SMSA, <sup>1</sup> inside central city	179.0	5.9	4.98	51.2
In SMSA, <sup>1</sup> outside central city	179.0	5.9	4.92	49.7
Outside SMSA <sup>1</sup>	177.4	6.1	5.26	51.8
Region				
North Atlantic	180.2	6.0	4.45	44.8
Great Lakes and Plains	177.8	6.0	5.10	51.2
Southeast	177.9	5.8	5.33	54.9
West and Southwest	176.7	6.3	5.61	53.2

<sup>1</sup> Standard Metropolitan Statistical Area

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fast Response Survey System, "Public High School Graduation Requirements" (This table was prepared January 1988)

Table 133.—State requirements for high school graduation, in Carnegie units: 1980 and 1987

State	1980		1987							First graduating class to which these requirements apply	Notes	
	All courses	All courses	Subject areas									
			English/ language arts	Social studies	Mathematics	Science	Physical education/ health	Electives	Other courses			
1	2	3	4	5	6	7	8	9	10	11	12	
Alabama												
Standard	20	22	4	3	2	2	15	9	5 home or personal management	1989	Must become computer literate through related coursework	
Advanced diploma	—	22	4	4	3	3	15	4	5 home or personal management, 2 foreign language courses	1989		
Alaska	19	21	4	3	2	2	1	9		1985	Social studies options 3 units or 2 units social studies and 1 practical arts Science and mathematics may be 3 science and 2 mathematics, or 2 science and 3 mathematics	
Arizona	16	20	4	3	2	2	—	9		1991		
Arkansas	16	20	4	3	2 or 3	2 or 3	1	65	5 fine arts	1988		
California	(1)	13	3	3	2	2	2	—	1 visual/performing arts or foreign language	1981	The State board has published "Model Graduation Requirements" to be used by local districts as a guide. These include specifics in core subjects plus computer studies and foreign language	
Colorado	—	—	—	—	—	—	—	—		—		Local boards determine requirements. State has constitutional prohibition against State requirements
Connecticut	(2)	20	4	3	3	2	1	6	1 arts or vocational education	1988	Electives must include life skills seminar, or a test can be taken and passed in lieu of the seminar	
Delaware	18	19	4	3	2	2	15	65		1987		
District of Columbia Comprehensive	18	20.5	4	2	2	2	15	8	1 foreign language	1985		
Career/vocational	—	23	4	2	2	2	15	15	1 foreign language, 9 specialized preparatory	1985		
Florida												
Standard	(2)	24	4	3	3	3	1	9	5 practical or vocational education, 5 performing arts, or speech or debate	1989	2 of the science units must include a lab	
Academic scholars	—	26	4	3	4	4	1	7	2 foreign language, 1 fine arts	1984	2 of the science units must include a lab	
Georgia												
Standard	20	21	4	3	2	2	1	8	1 fine arts, vocational education, computer technology, or ROTC	1988		
Advanced	—	21	4	3	3	3	1	4		1988	2 of the science units must include a lab	
Hawaii	20	20	4	4	2	2	15	6	5 guidance	1983	2 of the science units must include a lab	

Table 133.—State requirements for high school graduation, in Carnegie units: 1980 and 1987—Continued

State	1980	1987								First graduating class to which these requirements apply	Notes
	All courses	All courses	Subject areas						Other courses		
			English/ language arts	Social studies	Mathematics	Science	Physical education/ health	Electives			
1	2	3	4	5	6	7	8	9	10	11	12
Idaho	18	21	4	2	2	2	15	6	.5 each: reading, speech, and consumer education; 1 humanities, 1 history/ government	1988	Practical arts may substitute for the 1 unit of humanities.
Illinois	16	16	3	2	2	1	4.5	2.25	.25 consumer education, 1 art, foreign language, music, or vocational education	1988	One year of mathematics may be computer technology. One year of social studies must be U.S. history or half U.S. history and half American government.
Indiana											
Standard	16	19.5	4	2	2	2	15	8		1989	State does not use standard Carnegie units
Academic honors	—	24	4	3	4	4	15	4 or 5		1990	All districts must offer the Academic Honors Program
Iowa	—	—	—	1.5	—	—	1	—		—	Legislative requirements in effect for many years. Local districts determine remaining requirements.
Kansas	17	21	4	3	2	2	1	8	1, local board determines	1989	
Kentucky											
Standard	18	20	4	2	3	2	1	7	1 additional mathematics, science, social studies, or vocational education	1987	
Commonwealth diploma	—	22	5	2	3	3	1	7	1 foreign language in advanced placement courses	1986	Additional language course, 1 elective, and 1 additional unit of mathematics or science must be in advanced placement course.
Louisiana											
Standard	20	23	4	3	3	3	2	7.5	.5 computer literacy	1989	
Louisiana scholar program	—	23	4	3	3	3	2	7.5	.5 computer literacy	1987	
Regent's scholar program	—	24	4	3.5	3	3	2	4.5	3 foreign language, 1 fine arts	1983	
Maine	( <sup>2</sup> )	16	4	2	2	2	1.5	3.5	1 fine arts	1989	American history is required. All students must pass computer proficiency standards.
Maryland	20	20	4	3	3	2	1	5	1 fine, 1 practical arts	1989	After grade 11, 4 credits must be earned. Students can earn Statewide certificate of merit with fulfillment of additional requirements.
Massachusetts	( <sup>2</sup> )	( <sup>2</sup> )	—	1	—	—	4	—		—	Legislative requirements in effect for many years. American history required, local boards determine additional requirements.

Table 133.—State requirements for high school graduation, in Carnegie units: 1980 and 1987—Continued

State	1980		1987							First graduating class to which these requirements apply	Notes	
	All courses	All courses	Subject areas									
			English/language arts	Social studies	Mathematics	Science	Physical education/health	Electives	Other courses			
1	2	3	4	5	6	7	8	9	10	11	12	
Michigan	(4)	(4)	—	5	—	—	—	—	—	—	—	Legislative requirements in effect for many years. Local boards determine additional requirements. The State board, in January 1984, published graduation requirement guidelines which local districts are urged to incorporate.
Minnesota	15	20	4	3	1	1	15	9	5	—	1982	
Mississippi	16	18	4	2	2	2	—	—	8	—	1989	2 of the science units must include a lab
Missouri												
Standard diploma	20	22	3	2	2	2	1	10	1 practical arts, 1 fine arts	—	1988	
College preparatory studies certificate	20	24	4	3	3	3	1	8	1 practical arts, 1 fine arts	—	1988	For college preparation, specific core subjects must be taken and 3 electives must be in advanced courses
Montana	16	20	4	1.5 or 2	2	1	1	10.5 or 10	—	—	1986	Core requirements in effect for several years. Social studies requirement has 2 alternatives
Nebraska	(2)	(2)	—	—	—	—	—	—	—	—	1991	For graduation, 200 credit hours required, with at least 80 percent in core curriculum courses. Local boards determine specific requirements. State does not use standard Carnegie units
Nevada	19	22.5	4	2	2	2	2.5	8.5	1 arts/humanities, .5 computer literacy	—	1992	Computer literacy may be waived by demonstration of competency
New Hampshire	16	19.75	4	2.5	2	2	1.25	4	5 arts, 5 computer science, 3 from 2 of the following: arts, foreign language, practical arts, or vocational education	—	1989	
New Jersey	—	21.5	4	2	3	2	4	4	1 fine, practical or performing arts, 5 career exploration, 1 world history/cultures	—	1992	110 credit hours required for graduation. State does not use standard Carnegie units.
New Mexico	20	23	4	3	3	2	1	9	1 communication skills	—	1990	The State board requires that all students must achieve computer literacy prior to graduation. Emphasis in communication skills and writing. Students preparing for college have advanced curriculum

Table 133.—State requirements for high school graduation, in Carnegie units: 1980 and 1987—Continued

State	1980	1987								First graduating class to which these requirements apply	Notes
	All courses	All courses	Subject areas						Other courses		
			English/language arts	Social studies	Mathematics	Science	Physical education/health	Electives			
1	2	3	4	5	6	7	8	9	10	11	12
New York											
Local diploma.....	16	18 5	4	4	2	2	5	vanes	1 art and/or music, 3 to 5 A sequence of specific courses must be chosen by the student; choices vary for the two different diplomas	—	Half-unit is health only, 2 non-credit units of physical education beyond the total.
Regents' diploma.....	18	18 5	4	4	2	2	.5	vanes		1989	For Regents' diploma, students must pass comprehensive exams in subject areas
North Carolina											
Standard.....	16	20	4	2	2	2	1	9		1987	1 science class must include a lab
Scholars program.....	—	22	4	4	3	3	2	1	1 vocational education, 1 arts education	1984	
North Dakota.....	17	17	4	3	2	2	1	5		1984	
Ohio.....	17	18	3	2	2	1	1	9		1988	
Oklahoma											
High school graduation	18 0	20	4	2	2	2	—	10		1987	
College preparatory...	10 5	15	4	2	3	2	—	—	4 from foreign language, computer science, economics, English, geography, government, mathematics, history, sociology, science, speech, psychology	1988	Slight variations between 2-year and 4-year colleges. If foreign language elected, 2 years in same language. Total hour requirement is less for college preparatory; curriculum is more rigorous and restrictive.
Oregon.....	21	22	3	3 5	2	2	2	8	5 career development, 1 applied arts, fine arts, or foreign language	1988	
Pennsylvania.....	13	21	4	3	3	3	1	5	2 arts/humanities	1989	Local boards determine the remaining 5 units Computer science can be option instead of arts and humanities
Rhode Island											
Basic diploma.....	16	16	4	1	1	1	—	9		1989	
Career bound....	16	16	4	2	2	2	—	6		1989	
College bound.....	16	16	4	2	3	2	—	4	2 foreign language courses, 5 arts, 5 computer literacy	1988	
South Carolina											
Standard.....	18	20	4	3	3	2	1	7		1987	
Academic achievement honors.....	—	22	4	3	3	2	1	7	2 foreign language	1986	
South Dakota.....	16	20	4	3	2	2	—	8	5 computer studies, 5 fine arts	1989	Increased total number of requirements being phased in: 19 in 1988, and 20 in 1989
Tennessee											
Standard diploma.....	18	20	4	1 5	2	2	1 5	9		1987	
Honors, general education	—	20 5	4	3	3	3	1 5	2	2 in same foreign language, 2 fine/visual or performing arts	1987	
Honors, vocational education.....	—	20 5	4	3	3	3	1 5	2	4 in same vocational education program	1987	



Table 133.—State requirements for high school graduation, in Carnegie units: 1980 and 1987—Continued

State	1980		1987							First graduating class to which these requirements apply	Notes
	All courses	All courses	Subject areas								
			English/language arts	Social studies	Mathematics	Science	Physical education/health	Electives	Other courses		
1	2	3	4	5	6	7	8	9	10	11	12
Texas											
High school graduation.....	18	21	4	2.5	3	2	2	7	.5 economics or free enterprise	1988	
Advanced honors program..	18	22	4	2.5	3	3	1.5	2	.5 economics or free enterprise, 2 foreign language courses, 1 computer science, 1 fine arts	1988	Five units of the 22 must be in honors classes.
Utah.....	15	24	3	3	2	2	2	9.5	1.5 arts, 1 vocational education; coursework must include computer science	1988	The State board makes specific course recommendations for college entry, vocational, etc.
Vermont.....	—	14.5	4	3	2 or 3	2 or 3	1.5	—	1 arts	1989	Must have a total of 5 units in mathematics and/or science.
Virginia											
Standard diploma.....	18	21	4	3	2	2	2	6	1 additional mathematics or science, 1 fine or practical arts	1989	
Advanced studies diploma....	18	23	4	3	3	3	2	4	3 foreign language courses, 1 fine/practical arts	1989	Must have a lab in each science class. Sequence must include earth science, biology, chemistry, and physics.
Washington.....	—	19	3	2.5	2	2	2	5.5	1 occupational education; 1 fine/visual or performing arts	1991	
West Virginia.....	18	21	4	3	2	2	2	7	1 applied arts, fine or performing arts, or a second language	1989	
Wisconsin.....	( <sup>2</sup> )	13	4	3	2	2	2	—		1989	Electives are the option of local school districts. The State recommends that districts require a total of 22 units.
Wyoming.....	18	18	( <sup>2</sup> )	1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	Local boards determine remaining requirements	—	Requirements in effect for a number of years. Local boards determine remaining requirements to reach the minimum of 18 total units.

<sup>1</sup> State permits local board to set minimum academic standard

<sup>2</sup> Local boards determine requirements

<sup>3</sup> State requires four credits in English/language arts. Local board determines remaining requirements

<sup>4</sup> State requires one-half credit in social studies. Local board determines remaining requirements

—Data not available or not applicable

NOTE—Local school districts frequently have other graduation requirements in addition to State requirements

SOURCE: Education Commission of the States, Clearinghouse Notes, "Changes in Minimum High School Graduation Requirements, 1980 and 1985, September 1985", and "Minimum High School Graduation Course Requirements in the States, April 1987" (This table was prepared September 1988)

**Table 134.—States using minimum-competency testing, by government level setting standards, grade levels assessed, and expected uses of standards: November 1985**

States using minimum-competency testing	Government level setting standards	Grade levels assessed	Expected uses					First graduating class assessed
			Grade promotion	High school graduation	Early exit	Remediation	Other	
1	2	3	4	5	6	7	8	9
Alabama	State	3,6,9,11		X		X	X	1985
Arizona	State/local	8,12	(1)	X				1976
Arkansas	State	3,4,6,8				X		
California	State/local	4-11,16 yr old+	X	X	X	X		1979
Colorado	Local	9,12		(2)				
Connecticut <sup>3</sup>	State	4,6,8				X	X	
Delaware	State	1-8,11		X			X	1981
Florida	State/local	3,5,8,11	X	X	X			1983
Georgia	State	K,1,3,6,8,10	(4)	X		X	X	1985
Hawaii <sup>5</sup>	State	3,9-12		X		X	X	1983
Idaho	State	8-12				X	X	1982
Illinois	Local	Local option					(2)	
Indiana	Local	3,6,8,10				X	X	
Kansas <sup>6</sup>	State	2,4,6,8,10					(2)	
Kentucky <sup>7</sup>		K-12	X	X		X		
Louisiana <sup>8</sup>	State	2,3,4,5	X			X		
Maryland	State	7,9		X		X	X	1982
Massachusetts	Local	Local option				X		
Michigan	State	4,7,10				X	(2)	
Mississippi	State	3,5,8,11		X			X	* 1987
Missouri	State	8+					X	
Nebraska	Local	5+					X	
Nevada	State	3,6,9,11		X		X		1982
New Hampshire <sup>10</sup>	State	4,8,12	(2)	(2)			(2)	
New Jersey	State	9-12		X		X	X	1985
New Mexico	State	Local option, 10-12					X	1981
New York	State	3,5,6,8-12		X		X		1979
North Carolina <sup>11</sup>	State	3,6,8,10		X			X	1980
Ohio	Local	Local option <sup>12</sup>					(2)	1990
Oklahoma <sup>13</sup>	None	3,6,9,12					X	
Oregon	Local	Local option		X				1978
Pennsylvania	State	3,5,8				X		
South Carolina <sup>14</sup>	State	1,2,3,6,8,11	X	X		X	X	1990
Tennessee <sup>15</sup>	State/local	3,6,8,9-12	X	X		X	X	1982
Texas <sup>16</sup>	State	1,3,5,7,9,11,12		X		X		1987
Utah	Local	Local option				X	X	1988
Vermont	State	1-8	(17)			X	X	1981
Virginia	State/local	K-6,10-12		X			X	1981
Wisconsin	Local	1-4,5-8,9-10	(2)	(2)		X		
Wyoming	Local	Local option				X		

<sup>1</sup> Legislation in 1983 called for development of a minimum course of study and criteria for high school graduation standards and for grade-to-grade promotion. Local school districts were to implement standards.

<sup>2</sup> Local option.  
<sup>3</sup> A new program of State testing for grade 4 began in 1985 and expanded to grades 6 and 8 in 1986. The ninth grade State proficiency test, begun in 1980, was administered for the final time in 1986.

<sup>4</sup> Beginning in fall 1985, third grade students had to demonstrate acceptable performance on criterion-referenced tests in mathematics and reading before promotion to the fourth grade. Beginning in 1988-89 school year, students must pass school readiness test to be eligible for first grade.

<sup>5</sup> Students have three options: paper-and-pencil test, performance test, or course. First time taken (grade 9) must be paper-and-pencil test.

<sup>6</sup> The Kansas Minimum Competency Assessment (MCA) was re-established by 1984 legislative action (SB 473). The MCA will be in effect for 5 school years, 1984-85 through 1988-89.

<sup>7</sup> Legislation in 1984 required the State superintendent to recommend process of using test results for promotion and graduation to the 1986 legislature.

<sup>8</sup> Grade 8 was added beginning with 1986-87 school year.

<sup>9</sup> Although first class assessed graduated in 1987, the first class required to pass for graduation will be the class of 1989.

<sup>10</sup> Students are tested in elementary, middle, and high school. Some local districts test at grades other than 4, 6, and 12.

<sup>11</sup> Grades 3, 6, and 8 are given an annual standardized achievement test. Local school districts use the results as a diagnostic tool.

<sup>12</sup> Locally-based tests in the areas of English composition, mathematics, and reading are required at least once in grades 1-4. Tests in grades 5-8 and 9-11 will be implemented no later than 1989-90.

<sup>13</sup> Test was given in Oklahoma during the 1978-79 school year. There has been no followup to the program. However, a plan for Statewide testing was submitted for legislative action in January 1985.

<sup>14</sup> The South Carolina Education Improvement Act of 1984 specified that the 11th-grade test being used to gather baseline data be replaced in 1985-86 school year with an exit examination in the 10th grade. All students graduating in 1990 and after must pass the examination.

<sup>15</sup> Local districts use the State-designated tests at grades 3, 6, and 8 for remediation and to advise on grade retention. The Tennessee high school test, first taken at grade 9, is required for graduation.

<sup>16</sup> Texas HB 72 (1984) mandated the new testing program. New requirements became effective in 1985-86 school year.

<sup>17</sup> Vermont Basic Competency Program requires students to master the basics before they complete eighth grade.

NOTE—Some States have dates for assessing the first high school graduating class but do not expect to use the results to determine whether students will graduate.

SOURCE: Education Commission of the States, Cleanhouse Notes, "State Activity—Minimum Competency Testing, as of November 1985" (This table was prepared September 1986).

**Table 135.—States requiring testing for initial certification of teachers, by authorization year enacted, year effective, and test used: April 1987**

State	Authority <sup>1</sup>	Enacted	Effective	Test used <sup>2</sup>
1	2	3	4	5
Alabama.....	St Bd	1980	1981	State
Arizona.....	Leg	1980	1980	State
Arkansas.....	Leg	1979	1983	NTE
California.....	Leg.	1981	1982	State
Colorado.....	Leg.	1981	1983	California Achievement
Connecticut.....	St Bd	1982	1985	State
Delaware.....	St. Bd.	1982	1983	Preprofessional Skills
Florida.....	Leg	1978	1980	State
Georgia.....	St Bd.	1975	1980	State
Hawaii.....	St Bd.	1986	1986	NTE
Idaho.....	Leg.	1987	1988	NTE
Illinois.....	Leg.	1985	1988	State
Indiana.....	Leg	1984	1985	NTE
Kansas.....	Leg.	1984	1986	To be determined
Kentucky.....	Leg.	1984	1985	NTE
Louisiana.....	Leg.	1977	1978	NTE
Maine.....	Leg.	1984	1988	NTE
Maryland.....	St. Bd	1986	1986	NTE
Massachusetts.....	Leg.	1985	(?)	NTE
Michigan.....	Leg.	1986	1991	To be determined
Mississippi.....	Leg.	1975	1977	To be determined <sup>4</sup>
Missouri.....	Leg	1985	1988	NTE
Montana.....	B.P.E.	1985	1986	To be determined
Nebraska.....	Leg.	1984	1989	NTE
Nevada.....	St. Bd.	1984	(?)	To be determined <sup>4</sup>
New Hampshire.....	St Bd.	1984	1985	To be determined
New Jersey.....	St. Bd.	1984	1985	NTE
New Mexico.....	St. Bd.	1981	1983	NTE
New York.....	St Bd.	1980	1984	NTE
North Carolina.....	St. Bd.	1964	1964	NTE
Ohio <sup>5</sup> .....	St Bd.	1986	1987	NTE
Oklahoma.....	Leg	1980	1982	State
Oregon.....	O.T.S.P.C.	1984	1985	C.B.E.S.T.
Pennsylvania.....	St Bd.	1985	1987	State
Rhode Island.....	St. Bd.	1985	1986	NTE Core Battery
South Carolina.....	Leg.	1979	1982	NTE and State
South Dakota.....	St Bd	1985	1986	NTE
Tennessee.....	St. Bd	1980	1981	NTE
Texas.....	Leg.	1981	1986	State
Virginia.....	Leg	1979	1980	NTE
Washington.....	St Bd	1984	(?)	To be determined <sup>6</sup>
West Virginia <sup>7</sup> .....	St. Bd.	1982	1985	State
Wisconsin.....	S.P.I.	1986	1990	To be determined

<sup>1</sup> St. Bd = State Board of Education, Leg = Legislature, B.P.E = Board of Public Education, O.T.S.P.C. = Oregon Teacher Standards and Practice Commission, S.P.I. = Superintendent of Public Instruction

<sup>2</sup> NTE = National Teacher Examination, State = State developed test, C.B.E.S.T. = California Basic Education Skills Test

<sup>3</sup> Effective year is yet to be determined

<sup>4</sup> For basic skills and subject-matter competencies

<sup>5</sup> Required for individuals entering Ohio-approved education programs after July 1987

<sup>6</sup> State and undetermined tests will be used

<sup>7</sup> Required for individuals entering West Virginia-approved education programs as of fall 1985

SOURCE: Education Commission of the States, Clean-house Notes, "States Requiring Testing for Initial Certification of Teachers, April 1987" (This table was prepared June 1987)

**Table 136.—Percent of public high schools having or strengthening various policies, programs, or practices: 1987-88**

Policy, program, or practice	In operation in 1987-88								Instituted or last strengthened since 1982-83			
	Total	District status			School enrollment				Total	District status		
		Rural	Sub-urban	Urban	Less than 300	300 to 799	800 to 1,499	1,500 or more		Rural	Sub-urban	Urban
1	2	3	4	5	6	7	8	9	10	11	12	13
Strict sanctions for disruptive students	98	98	99	95	97	97	98	98	49	55	40	51
Minimum academic standards for participation in athletics	96	97	96	97	96	96	97	96	47	44	49	53
Special recognition for academically outstanding students <sup>1</sup>	92	91	93	97	87	92	96	97	59	62	55	57
Programs to reduce absenteeism or tardiness	90	91	88	96	90	89	91	95	66	68	63	68
Instruction of students in study skills	77	76	76	84	72	78	77	83	61	61	60	66
Required in-service training of teachers in effective use of class time	73	76	68	75	77	72	72	68	65	71	59	53
Measures to reduce administrative burden on teachers	73	69	77	74	66	72	74	82	63	67	59	63
Nonfinancial recognition for outstanding teachers	70	66	72	85	56	73	75	85	54	54	54	56
Policy/guidelines on amount of required homework	47	42	48	85	38	47	50	58	52	50	50	63
Financial recognition for outstanding teachers	20	17	21	25	18	17	19	29	82	79	87	80

<sup>1</sup> Besides honor roll

SOURCE U.S. Department of Education, National Center for Education Statistics, "Public High School Principals' Perceptions of Academic Reform, May 1988" (This table was prepared November 1988)

**Table 137.—States requiring education, minimum curriculum standards, and teacher certification on substance abuse education, by State: 1986-87**

State	State requires substance abuse education	Minimum curriculum standards provided	Certification requirement for all teachers	State	State requires substance abuse education	Minimum curriculum standards provided	Certification requirement for all teachers
1	2	3	4	1	2	3	4
<b>Total number with requirement</b>	<b>39</b>	<b>32</b>	<b>11</b>				
Alabama	X	X		Missouri			X
Alaska		X		Montana			
Arizona	X	X		Nebraska	X		
Arkansas	X	X	X	Nevada	X	X	X
California	X	X		New Hampshire	X		
Colorado	X	X		New Jersey	X		X
Connecticut	X			New Mexico	X	X	
Delaware	X	X		New York	X	X	X
District of Columbia	X	X	X	North Carolina			
Florida	X	X		North Dakota	X		
Georgia	X	X		Ohio	X		X
Hawaii		X		Oklahoma			
Idaho	X			Oregon	X		
Illinois	X	X	X	Pennsylvania	X	X	
Indiana	X		X	Rhode Island	X	X	
Iowa	X	X		South Carolina	X		
Kansas				South Dakota			
Kentucky	X	X	X	Tennessee		X	
Louisiana	X	X		Texas	X	X	
Maine	X	X		Utah	X	X	
Maryland	X	X		Vermont	X	X	
Massachusetts	X			Virginia	X	X	
Michigan		X		Washington	X	X	
Minnesota	X	X	X	West Virginia	X	X	
Mississippi				Wisconsin	X	X	
				Wyoming			

SOURCE U.S. Department of Education, National Center for Education Statistics, "State Efforts in Substance Abuse Education" (This table was prepared August 1988)

Table 138.—Revenues for public elementary and secondary schools, by source of funds: 1919-20 to 1986-87

School year	In thousands				Percentage distribution			
	Total	Federal	State	Local (including intermediate) <sup>1</sup>	Total	Federal	State	Local (including intermediate) <sup>1</sup>
1	2	3	4	5	6	7	8	9
1919-20.....	\$970,121	\$2,475	\$160,085	\$807,561	100.0	0.3	16.5	83.2
1929-30.....	2,088,557	7,334	353,670	1,727,553	100.0	0.4	16.9	82.7
1939-40.....	2,260,527	39,810	684,354	1,536,363	100.0	1.8	30.3	68.0
1941-42.....	2,416,580	34,305	759,993	1,622,281	100.0	1.4	31.4	67.1
1943-44.....	2,604,322	35,886	859,183	1,709,253	100.0	1.4	33.0	65.6
1945-46.....	3,059,845	41,378	1,062,057	1,956,409	100.0	1.4	34.7	63.9
1947-48.....	4,311,534	120,270	1,676,362	2,514,902	100.0	2.8	38.9	58.3
1949-50.....	5,437,044	155,848	2,165,689	3,115,507	100.0	2.9	39.8	57.3
1951-52.....	6,423,816	227,711	2,478,596	3,717,507	100.0	3.5	38.6	57.9
1953-54.....	7,866,852	355,237	2,944,103	4,567,512	100.0	4.5	37.4	58.1
1955-56.....	9,686,677	441,442	3,828,886	5,416,350	100.0	4.6	39.5	55.9
1957-58.....	12,181,513	486,484	4,800,368	6,894,661	100.0	4.0	39.4	56.6
1959-60.....	14,746,618	651,639	5,768,047	8,326,932	100.0	4.4	39.1	56.5
1961-62.....	17,527,707	760,975	6,789,190	9,977,542	100.0	4.3	38.7	56.9
1963-64.....	20,544,182	896,956	8,078,014	11,569,213	100.0	4.4	39.3	56.3
1965-66.....	25,356,858	1,996,954	9,920,219	13,439,686	100.0	7.9	39.1	53.0
1967-68.....	31,903,064	2,806,469	12,275,536	16,821,063	100.0	8.8	38.5	52.7
1969-70.....	40,266,923	3,219,557	16,062,776	20,984,589	100.0	8.0	39.9	52.1
1970-71.....	44,511,292	3,753,461	17,409,086	23,348,745	100.0	8.4	39.1	52.5
1971-72.....	50,003,645	4,467,969	19,133,256	26,402,420	100.0	8.9	38.3	52.8
1972-73.....	52,117,930	4,525,000	20,843,520	26,749,412	100.0	8.7	40.0	51.3
1973-74.....	58,230,892	4,930,351	24,113,409	29,187,132	100.0	8.5	41.4	5.1
1974-75.....	64,445,239	5,811,595	27,211,116	31,422,528	100.0	9.0	42.2	40.0
1975-76.....	71,206,073	6,318,345	31,776,101	33,111,627	100.0	8.9	44.6	46.5
1976-77.....	75,322,532	6,629,498	32,688,903	36,004,134	100.0	8.8	43.4	47.8
1977-78.....	81,443,160	7,694,194	35,013,266	38,735,700	100.0	9.4	43.0	47.6
1978-79.....	87,994,143	8,600,116	40,132,136	39,261,891	100.0	9.8	45.6	44.6
1979-80.....	96,881,165	9,503,537	45,348,814	42,028,813	100.0	9.8	46.8	43.4
1980-81.....	105,949,087	9,768,262	50,182,659	45,998,166	100.0	9.2	47.4	43.4
1981-82.....	110,191,257	8,186,466	52,436,435	49,568,356	100.0	7.4	47.6	45.0
1982-83.....	117,497,502	8,339,990	56,282,157	52,875,354	100.0	7.1	47.9	45.0
1983-84.....	126,055,419	8,576,547	60,232,981	57,245,892	100.0	6.8	47.8	45.4
1984-85.....	137,294,678	9,105,569	67,168,684	61,020,425	100.0	6.6	48.9	44.4
1985-86.....	149,127,779	9,975,622	73,619,575	65,532,582	100.0	6.7	49.4	43.9
1986-87.....	158,827,473	10,145,899	79,022,572	69,659,003	100.0	6.4	49.8	43.9

<sup>1</sup> Includes a relatively small amount from nongovernmental sources (gifts and tuition and transportation fees from patrons). These sources accounted for 0.4 percent of total revenues in 1967-68.

<sup>2</sup> Revised from previously published figures.

NOTE—Beginning in 1980-81, revenues for State education agencies are excluded.

Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*, and Common Core of Data survey (This table was prepared November, 1988).

**Table 139.—Revenues for public elementary and secondary schools, by source and State: 1986-87**

[Amounts in thousands of dollars]

State or other area	Revenues, by source						
	Total	Federal		State		Local and other <sup>1</sup>	
		Amount	Percent of total	Amount	Percent of total	Amount	Percent of total
1	2	3	4	5	6	7	8
<b>United States <sup>2</sup></b> .....	<b>\$158,827,473</b>	<b>\$10,145,899</b>	<b>6.4</b>	<b>\$79,022,572</b>	<b>49.8</b>	<b>\$69,659,003</b>	<b>43.9</b>
Alabama.....	2,070,639	241,402	11.7	1,372,963	66.3	456,274	22.0
Alaska.....	731,150	85,277	11.7	465,599	63.7	180,274	24.7
Arizona.....	2,106,564	189,004	9.0	1,017,425	48.3	900,134	42.7
Arkansas.....	1,111,619	128,173	11.5	608,757	54.9	374,689	33.7
California.....	17,219,479	1,217,998	7.1	11,961,834	69.5	4,039,647	23.5
Colorado.....	2,395,723	117,590	4.9	935,154	39.0	1,342,978	56.1
Connecticut.....	2,606,381	114,873	4.4	1,043,373	40.0	1,448,136	55.6
Delaware.....	429,392	32,998	7.7	297,291	69.2	99,103	23.1
District of Columbia.....	439,795	45,460	10.3	2,725	0.6	391,610	69.0
Florida.....	6,610,567	475,228	7.2	3,581,688	54.2	2,553,651	38.6
Georgia.....	3,708,383	263,083	7.1	2,213,166	59.7	1,232,134	33.2
Hawaii.....	592,815	70,191	11.8	522,096	88.1	528	0.1
Idaho.....	544,525	48,203	8.9	342,286	62.9	154,036	28.3
Illinois.....	6,025,415	261,452	4.3	2,358,188	39.1	3,405,775	56.5
Indiana.....	3,563,524	176,260	4.9	2,070,469	58.1	1,316,795	37.0
Iowa.....	1,846,332	94,574	5.1	621,104	44.5	930,654	50.4
Kansas.....	1,681,665	80,984	4.8	712,445	42.4	888,236	52.8
Kentucky.....	1,656,267	192,268	11.6	1,069,039	64.5	394,960	23.8
Louisiana.....	2,416,437	277,627	11.5	1,331,213	55.1	807,587	33.4
Maine.....	779,817	49,681	6.4	391,503	50.2	338,633	43.4
Maryland.....	3,223,020	164,249	5.1	1,241,094	38.5	1,817,678	56.4
Massachusetts.....	4,103,291	201,765	4.9	1,650,688	45.1	2,050,838	50.0
Michigan.....	7,242,874	425,532	5.9	2,525,785	34.9	4,291,557	59.3
Minnesota.....	3,101,661	131,723	4.2	1,765,775	56.9	1,204,163	38.8
Mississippi.....	1,076,279	112,610	10.5	701,829	65.2	261,840	24.3
Missouri.....	2,749,630	172,986	6.3	1,132,198	41.2	1,444,447	52.5
Montana.....	632,958	53,807	8.5	302,825	47.8	276,325	43.7
Nebraska.....	1,005,585	61,695	6.1	226,670	22.5	717,221	71.3
Nevada.....	595,821	26,432	4.4	235,572	39.5	333,817	56.0
New Hampshire.....	647,069	21,828	3.4	38,076	5.9	587,165	90.7
New Jersey.....	6,592,990	290,771	4.4	2,837,625	43.0	3,464,594	52.5
New Mexico.....	1,008,277	123,188	12.2	757,266	75.1	127,823	12.7
New York.....	15,757,034	782,061	4.8	6,688,733	42.4	8,306,241	52.7
North Carolina.....	3,473,998	274,713	7.9	2,294,416	66.0	904,870	26.0
North Dakota.....	421,752	39,714	9.4	214,063	50.8	167,975	39.8
Ohio.....	6,293,631	348,646	5.5	3,122,676	49.6	2,822,109	44.8
Oklahoma.....	1,727,848	95,973	5.6	1,097,712	63.5	534,163	30.9
Oregon.....	1,863,501	123,033	6.6	522,195	28.0	1,218,273	65.4
Pennsylvania.....	8,259,284	418,455	5.1	3,825,204	46.3	4,015,625	48.6
Rhode Island.....	630,222	28,235	4.5	268,310	42.6	333,677	52.9
South Carolina.....	1,987,657	175,915	8.9	1,113,738	56.0	698,004	35.1
South Dakota.....	417,550	49,341	11.8	113,409	27.2	254,800	61.0
Tennessee.....	2,063,971	228,487	11.1	918,665	44.5	916,820	44.4
Texas.....	11,900,931	846,464	7.1	5,603,133	47.1	5,451,335	45.8
Utah.....	1,153,356	69,986	6.1	627,118	54.4	456,252	39.6
Vermont.....	388,013	19,738	5.1	133,284	34.4	234,990	60.6
Virginia.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Washington.....	3,118,233	196,047	6.3	2,258,430	72.4	663,756	21.3
West Virginia.....	1,237,866	93,293	7.5	864,138	69.8	280,434	22.7
Wisconsin.....	3,303,237	154,314	4.7	1,141,259	34.5	2,007,664	60.8
Wyoming.....	609,195	22,551	3.7	261,877	43.0	324,767	53.3
<b>Outlying areas</b>							
American Samoa.....	20,479	13,523	66.0	—	—	6,956	34.0
Guam.....	92,078	10,709	11.6	—	—	81,369	88.4
Northern Marianas.....	14,908	5,180	34.7	—	—	9,728	65.3
Puerto Rico.....	936,115	280,937	30.0	—	—	655,178	70.0
Virgin Islands.....	99,249	17,425	17.6	—	—	81,824	82.4

<sup>1</sup> Includes revenues from local and intermediate sources, gifts, and tuition and fees from patrons

<sup>2</sup> Includes estimates for the nonreporting State

<sup>3</sup> Data not reported.

—Data not available or not applicable

NOTE—Excludes revenues for State education agencies. Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared November 1988.)

Table 140.—Revenues for public elementary and secondary schools, by source and State: 1985-86

[Amounts in thousands of dollars]

State or other area	Revenues, by source						
	Total	Federal		State		Local and other <sup>1</sup>	
		Amount	Percent of total	Amount	Percent of total	Amount	Percent of total
1	2	3	4	5	6	7	8
<b>United States<sup>2</sup></b> .....	<b>\$149,127,779</b>	<b>\$9,975,622</b>	<b>6.7</b>	<b>\$73,619,575</b>	<b>49.4</b>	<b>\$65,532,582</b>	<b>43.9</b>
Alabama.....	1,986,491	235,322	11.8	1,321,745	66.5	429,424	21.6
Alaska.....	722,810	79,741	10.2	539,205	66.9	163,864	20.9
Arizona.....	2,007,020	215,210	10.7	1,014,147	50.5	777,663	38.7
Arkansas.....	1,079,996	123,116	11.4	611,501	56.6	345,379	32.0
California.....	16,007,881	1,171,779	7.3	11,025,142	68.9	3,810,960	23.8
Colorado.....	2,267,016	110,024	4.9	881,499	38.9	1,275,493	56.3
Connecticut.....	2,277,099	80,594	3.5	914,975	40.2	1,281,530	56.3
Delaware.....	407,394	33,103	8.1	280,218	68.8	94,073	23.1
District of Columbia.....	409,605	45,337	11.1	1,249	0.3	363,019	88.6
Florida.....	5,962,508	452,356	7.6	3,221,331	54.0	2,288,822	38.4
Georgia.....	3,366,707	275,316	8.2	1,923,713	57.1	1,167,678	34.7
Hawaii.....	590,739	62,187	10.5	528,023	89.4	529	0.1
Idaho.....	486,636	46,415	9.5	279,168	57.4	161,053	33.1
Illinois.....	5,729,776	260,796	4.6	2,206,971	38.5	3,262,009	56.9
Indiana.....	3,277,072	158,627	4.8	1,888,764	57.6	1,229,681	37.5
Iowa.....	1,702,969	88,962	5.2	733,255	43.1	880,752	51.7
Kansas.....	1,643,294	79,459	4.8	725,160	44.1	838,675	51.0
Kentucky.....	1,505,838	200,835	13.3	949,256	63.0	355,747	23.6
Louisiana.....	2,588,291	274,425	10.6	1,416,359	54.7	897,506	34.7
Maine.....	721,744	44,833	6.2	361,824	50.1	315,088	43.7
Maryland.....	2,905,374	157,973	5.4	1,130,209	38.9	1,617,193	55.7
Massachusetts.....	3,775,554	189,481	5.0	1,575,964	41.7	2,010,109	53.2
Michigan.....	6,892,074	404,502	5.9	2,403,943	34.9	4,083,629	59.3
Minnesota.....	2,886,042	122,686	4.3	1,606,933	55.7	1,156,423	40.1
Mississippi.....	996,395	119,613	12.0	644,898	64.7	231,884	23.3
Missouri.....	2,445,181	159,811	6.5	992,401	40.6	1,292,969	52.9
Montana.....	632,539	44,012	7.0	310,239	49.0	278,288	44.0
Nebraska.....	942,535	61,156	6.5	228,657	24.3	652,722	69.3
Nevada.....	494,762	24,514	5.0	231,906	46.9	238,342	48.2
New Hampshire.....	531,410	22,492	4.2	36,440	6.9	472,478	88.9
New Jersey.....	6,076,354	288,910	4.8	2,613,375	43.0	3,174,069	52.2
New Mexico.....	964,520	120,014	12.4	726,954	75.4	117,551	12.2
New York.....	14,682,429	840,343	5.7	6,028,229	41.1	7,813,857	53.2
North Carolina.....	3,223,445	284,176	8.8	2,133,317	66.2	805,951	25.0
North Dakota.....	425,481	38,145	9.0	225,941	53.1	161,396	37.9
Ohio.....	6,398,460	363,563	5.7	2,916,557	45.6	3,118,340	48.7
Oklahoma.....	1,669,323	98,093	5.9	1,056,184	63.3	515,046	30.9
Oregon.....	1,763,012	115,942	6.6	503,279	28.5	1,143,791	64.9
Pennsylvania.....	7,730,882	391,724	5.1	3,556,828	46.0	3,782,330	48.9
Rhode Island.....	572,270	28,212	4.9	234,943	41.1	309,115	54.0
South Carolina.....	1,860,283	173,066	9.3	1,074,818	57.8	612,399	32.9
South Dakota.....	394,421	47,621	12.1	107,903	27.4	238,897	60.6
Tennessee.....	1,898,860	231,928	12.2	809,483	42.6	857,448	45.2
Texas.....	11,345,065	834,484	7.4	5,400,940	47.6	5,109,641	45.0
Utah.....	1,113,449	63,805	5.7	619,104	55.6	430,540	38.7
Vermont.....	352,625	20,504	5.8	114,292	32.4	217,829	61.8
Virginia.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Washington.....	2,935,529	179,207	6.1	2,174,259	74.1	582,063	19.8
West Virginia.....	1,208,625	94,918	7.9	827,195	68.4	286,511	23.7
Wisconsin.....	3,078,103	146,890	4.8	1,127,285	36.6	1,803,928	58.6
Wyoming.....	653,862	23,770	3.6	246,549	37.7	383,542	58.7
<b>Outlying areas</b>							
American Samoa.....	14,997	12,220	81.5	—	—	2,777	18.5
Guam.....	77,780	10,191	13.1	—	—	67,588	86.9
Northern Marianas.....	13,146	4,584	34.9	8,562	65.1	—	—
Puerto Rico.....	856,809	278,720	32.5	—	—	578,090	67.5
Virgin Islands.....	106,555	17,625	16.5	—	—	88,929	83.5

<sup>1</sup> Includes revenues from local and intermediate sources, gifts, and tuition and fees from patrons.<sup>2</sup> Includes estimates for the nonreporting State.<sup>3</sup> Data not reported.

—Data not available or not applicable.

NOTE—Excludes revenues for State education agencies. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared November 1988).

Table 141.—Summary of expenditures for public elementary and secondary education, by purpose: 1919-20 to 1979-80

Purpose of expenditures	1919-20	1929-30	1939-40	1949-50	1959-60	1969-70	1971-72	1973-74	1975-76	1979-80
1	2	3	4	5	6	7	8	9	10	11
Amounts in thousands of dollars										
<b>Total expenditures, all schools</b>	<b>\$1,036,151</b>	<b>\$2,316,790</b>	<b>\$2,344,049</b>	<b>\$5,837,643</b>	<b>\$15,613,255</b>	<b>\$40,653,429</b>	<b>\$48,050,283</b>	<b>\$56,970,355</b>	<b>\$70,600,573</b>	<b>\$95,961,561</b>
Current expenditures, all schools	864,396	1,853,377	1,955,166	4,722,887	12,461,955	34,853,578	42,213,093	50,477,845	62,607,754	87,581,727
Public elementary and secondary schools	861,120	1,843,552	1,941,799	4,687,274	12,329,389	34,217,773	41,917,782	50,024,638	62,054,105	86,984,142
Administration	36,752	78,580	91,571	220,050	528,408	1,606,646	1,875,504	2,275,726	2,808,956	4,263,757
Instruction	632,556	1,317,727	1,403,285	3,112,340	8,350,738	23,270,158	28,148,306	32,608,652	39,687,404	53,257,937
Plant operation	115,707	216,072	194,365	427,587	1,085,036	2,537,257	3,145,231	3,815,224	6,675,499	9,744,785
Plant maintenance	30,432	78,810	73,321	214,164	422,586	974,941	1,179,540	1,476,349	6,675,499	9,744,785
Fixed charges	9,286	50,270	50,116	261,469	909,323	3,266,920	4,096,404	5,626,662	7,321,317	11,793,934
Other school services <sup>1</sup>	36,387	101,993	129,141	451,663	1,033,297	2,561,856	3,372,790	4,222,025	5,560,928	7,923,729
Summer schools	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	13,263	106,481	90,554	93,829	101,318	24,753
Adult education <sup>2</sup>	3,277	9,825	13,367	35,614	26,858	128,778	—	—	—	—
Community colleges	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	34,492	138,813	—	—	—	—
Community services	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	57,953	261,731	304,765	359,378	452,330	572,832
Capital outlay <sup>3</sup>	153,543	370,878	257,974	1,014,176	2,661,786	4,659,072	4,458,949	4,978,976	6,146,435	6,506,167
Interest on school debt	18,212	92,536	130,909	100,578	489,514	1,170,782	1,378,236	1,513,534	1,846,384	1,873,666
Percentage distribution										
Total expenditures, all schools	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Current expenditures, all schools	83.4	80.0	83.4	80.9	79.8	85.7	87.9	88.6	88.7	91.2
Public elementary and secondary schools	83.1	79.6	82.8	80.3	79.0	84.1	87.0	87.8	87.9	90.6
Administration	3.5	3.4	3.9	3.8	3.4	3.9	3.9	4.0	4.0	4.4
Instruction	61.0	56.9	59.9	53.3	53.5	57.2	58.6	57.2	56.2	55.5
Plant operation	11.2	9.3	8.3	7.3	6.9	6.2	6.5	6.7	9.5	10.2
Plant maintenance	2.9	3.4	3.1	3.7	2.7	2.4	2.5	2.6	9.5	10.2
Fixed charges	0.9	2.2	2.1	4.5	5.8	8.0	8.5	9.9	10.4	12.3
Other school services <sup>1</sup>	3.5	4.4	5.5	7.7	6.6	6.3	7.0	7.4	7.9	8.3
Summer schools	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	0.1	0.3	0.2	0.2	0.1	( <sup>4</sup> )
Adult education <sup>2</sup>	0.3	0.4	0.6	0.6	0.2	0.3	—	—	—	—
Community colleges	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	0.2	0.3	—	—	—	—
Community services	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	0.4	0.6	0.6	0.6	0.6	0.6
Capital outlay <sup>3</sup>	14.8	16.0	11.0	17.4	17.0	11.5	9.3	8.7	8.7	6.8
Interest on school debt	1.8	4.0	5.6	1.7	3.1	2.9	2.9	2.7	2.6	2.0

<sup>1</sup> Prior to 1959-60, items included under "other school services" were listed under "auxiliary services." a more comprehensive classification which also included community services

<sup>2</sup> Prior to 1959-60, data shown for adult education represent combined expenditures for adult education, summer schools, and community colleges

<sup>3</sup> Prior to 1969-70, excludes capital outlay by State and local schoolhousing authorities

<sup>4</sup> Less than 0.05 percent

—Data not available

NOTE—Beginning in 1959-60, includes Alaska and Hawaii. Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems*, and Common Core of Data survey (This table was prepared March 1986)



Table 142.—Current expenditures for public elementary and secondary education, by State: 1959-60 to 1988-89

[In thousands of dollars]

State or other area	1959-60	1969-70	1979-80	1980-81	1981-82	1982-83
1	2	3	4	5	6	7
<b>United States</b>	<b>\$12,329,389</b>	<b>\$34,217,773</b>	<b>\$86,864,142</b>	<b>\$94,321,093</b>	<b>\$101,108,524</b>	<b>\$108,267,717</b>
Alabama	171,130	422,730	1,148,713	1,393,137	1,423,748	1,486,521
Alaska	20,641	81,374	377,947	478,368	550,784	625,818
Arizona	104,054	281,941	940,753	1,075,382	1,152,564	1,242,928
Arkansas	83,896	235,063	666,849	709,394	755,680	801,194
California	* 1,481,908	3,831,595	9,172,158	9,936,842	10,727,266	11,050,354
Colorado	136,760	369,218	1,243,049	1,369,823	1,500,214	1,605,885
Connecticut	185,336	586,710	1,227,892	1,440,881	1,543,483	1,711,013
Delaware	33,425	106,747	269,108	270,439	275,210	294,222
District of Columbia	45,817	141,138	298,448	225,155	312,940	340,027
Florida	276,506	961,273	2,786,468	3,336,857	3,552,127	3,747,760
Georgia	208,096	599,371	1,808,028	1,688,714	1,976,268	2,123,586
Hawaii	42,499	141,324	351,889	395,036	425,342	484,858
Idaho	42,719	103,107	313,927	352,912	371,290	398,996
Illinois	663,849	1,896,067	4,579,355	4,773,179	4,928,668	5,108,290
Indiana	318,073	809,105	1,851,292	1,698,194	2,133,789	2,239,069
Iowa	197,768	527,086	1,186,659	1,337,504	1,400,580	1,474,443
Kansas	153,346	362,593	830,133	956,281	1,044,483	1,131,758
Kentucky	132,068	353,265	1,051,459	1,086,472	1,157,486	1,233,797
Louisiana	230,402	503,217	1,303,902	1,767,692	1,857,207	1,908,595
Maine	51,485	155,907	385,492	401,355	447,360	484,744
Maryland	209,600	721,794	1,783,056	1,637,159	2,062,775	2,118,972
Massachusetts	324,408	907,341	2,638,734	2,794,782	2,673,115	2,792,653
Michigan	605,048	1,799,945	4,642,847	5,186,249	5,221,346	5,351,620
Minnesota	287,376	781,243	1,786,768	1,900,322	2,035,842	2,075,572
Mississippi	100,020	232,760	756,018	716,878	753,648	869,764
Missouri	242,447	620,030	1,504,968	1,643,258	1,715,761	1,772,111
Montana	54,070	127,178	358,118	380,092	418,027	456,519
Nebraska	87,692	231,812	581,615	629,017	699,487	759,197
Nevada	23,770	87,773	281,901	287,752	338,208	364,768
New Hampshire	33,185	101,570	295,400	340,518	372,027	402,307
New Jersey	459,413	1,343,561	3,638,533	3,648,914	4,080,209	4,340,980
New Mexico	73,396	183,736	515,451	560,213	647,967	713,599
New York	1,383,706	4,111,839	8,760,500	9,259,948	10,258,454	10,985,481
North Carolina	238,059	878,193	1,880,862	2,112,417	2,191,269	2,208,325
North Dakota	40,254	97,695	228,493	254,197	307,659	318,784
Ohio	632,932	1,639,805	3,839,578	4,149,858	4,357,731	4,600,475
Oklahoma	151,181	339,105	1,055,844	1,193,373	1,481,497	1,560,103
Oregon	154,691	403,844	1,126,812	1,292,624	1,352,825	1,417,393
Pennsylvania	732,486	1,912,644	4,584,320	4,955,115	5,158,163	5,508,931
Rhode Island	48,686	145,443	462,046	395,389	394,485	454,062
South Carolina	118,939	367,689	99,064	1,006,088	1,096,871	1,158,595
South Dakota	47,899	109,375	238,132	242,215	273,794	292,102
Tennessee	175,152	473,226	1,319,373	1,429,938	1,488,430	1,577,915
Texas	605,577	1,518,181	4,997,661	5,310,181	5,939,849	7,442,159
Utah	69,755	179,981	518,251	587,848	626,218	702,162
Vermont	24,132	78,921	189,811	224,901	247,035	267,530
Virginia	207,399	704,877	1,881,519	2,045,412	2,191,853	2,414,130
Washington	239,069	699,984	1,825,782	1,791,477	1,844,060	2,206,231
West Virginia	108,873	249,404	693,366	754,889	904,080	957,707
Wisconsin	254,626	777,288	1,508,523	2,035,879	2,142,172	2,305,552
Wyoming	32,175	69,584	226,067	271,153	317,328	382,182
<b>Outlying areas</b>						
American Samoa	308	—	—	—	—	—
Guam	3,020	18,652	—	—	50,000	51,173
Northern Marianas	—	—	—	—	—	7,714
Puerto Rico	54,375	—	—	713,000	870,000	745,360
Trust Territory of the Pacific	—	—	—	—	—	—
Virgin Islands	1,782	—	—	—	62,000	70,975

Table 142.—Current expenditures for public elementary and secondary education, by State: 1959-60 to 1988-89—Continued

[In thousands of dollars]

State or other area	1983-84	1984-85 <sup>1</sup>	1985-86	1986-87	Estimated 1987-88 <sup>2</sup>	Estimated 1988-89 <sup>2</sup>
1	8	9	10	11	12	13
<b>United States.....</b>	<b>\$115,392,342</b>	<b>\$126,337,491</b>	<b>\$137,164,965</b>	<b>\$146,589,146</b>	<b><sup>3</sup>\$156,535,253</b>	<b><sup>3</sup>\$167,324,897</b>
Alabama.....	1,396,804	1,590,856	1,761,154	1,775,997	1,899,500	2,323,800
Alaska.....	892,418	754,967	818,219	769,015	836,422	869,879
Arizona.....	1,326,552	1,436,844	1,649,832	1,836,908	2,354,751	( <sup>4</sup> )
Arkansas.....	903,510	1,005,347	1,085,943	1,118,904	1,090,817	1,130,000
California.....	12,143,642	13,477,768	15,040,898	16,512,668	( <sup>4</sup> )	( <sup>4</sup> )
Colorado.....	1,897,085	1,868,058	2,018,579	2,129,964	2,253,720	2,397,958
Connecticut.....	1,818,683	2,117,798	2,144,094	2,414,708	2,680,000	2,900,000
Delaware.....	323,760	353,191	391,558	418,116	435,680	457,464
District of Columbia.....	371,113	387,918	406,910	441,135	<sup>6</sup> 488,662	526,941
Florida.....	4,071,134	4,589,068	5,092,668	5,850,083	8,142,971	6,864,156
Georgia.....	2,301,496	2,629,681	2,979,980	3,451,882	3,842,715	4,287,594
Hawaii.....	500,554	521,692	575,456	576,749	<sup>6</sup> 595,066	608,967
Idaho.....	417,426	467,532	492,092	513,011	<sup>6</sup> 564,182	592,400
Illinois.....	5,332,566	5,662,354	6,066,390	6,463,564	8,574,000	8,800,000
Indiana.....	2,434,738	2,696,072	2,851,080	3,106,616	3,385,000	3,688,000
Iowa.....	1,532,171	1,599,874	1,644,359	1,725,428	1,863,462	1,938,001
Kansas.....	1,209,537	1,315,469	1,423,225	1,488,814	1,554,182	1,631,870
Kentucky.....	1,354,120	1,384,722	1,434,962	1,583,158	1,755,722	1,790,837
Louisiana.....	1,950,869	2,191,478	2,333,748	2,260,393	( <sup>4</sup> )	( <sup>4</sup> )
Maine.....	540,351	599,189	688,673	760,446	825,609	918,426
Maryland.....	2,322,890	2,446,771	2,634,209	2,845,404	3,086,900	3,380,887
Massachusetts.....	2,898,355	3,139,486	3,403,505	3,744,131	( <sup>4</sup> )	( <sup>4</sup> )
Michigan.....	5,386,379	5,735,303	6,184,767	6,427,558	( <sup>4</sup> )	( <sup>4</sup> )
Minnesota.....	2,253,402	2,461,571	2,637,722	2,818,390	3,004,403	3,160,632
Mississippi.....	982,605	1,023,720	1,058,301	1,112,535	( <sup>4</sup> )	( <sup>4</sup> )
Missouri.....	1,965,436	2,106,539	2,277,576	2,515,846	2,580,719	2,761,369
Montana.....	502,290	538,245	567,901	583,861	( <sup>4</sup> )	( <sup>4</sup> )
Nebraska.....	813,214	870,019	911,983	948,149	( <sup>4</sup> )	( <sup>4</sup> )
Nevada.....	374,201	397,254	495,147	513,014	( <sup>4</sup> )	( <sup>4</sup> )
New Hampshire.....	431,288	473,151	522,604	589,850	571,120	599,076
New Jersey.....	4,666,185	4,897,534	5,735,895	6,099,473	6,500,000	7,000,000
New Mexico.....	721,641	784,442	808,036	865,789	<sup>6</sup> 1,103,318	1,216,243
New York.....	11,879,638	12,681,301	13,686,039	14,724,687	15,755,522	18,701,000
North Carolina.....	2,353,506	2,674,774	2,991,747	3,193,337	3,581,720	3,814,532
North Dakota.....	337,961	365,341	379,470	374,941	382,440	390,089
Ohio.....	5,051,057	5,504,161	5,856,999	6,111,461	6,500,000	7,000,000
Oklahoma.....	1,581,443	1,575,487	1,740,981	1,707,396	1,750,000	1,780,000
Oregon.....	1,475,990	1,560,242	1,662,372	1,747,125	1,940,000	2,037,000
Pennsylvania.....	5,843,482	6,660,369	6,750,520	7,176,866	7,400,000	7,850,000
Rhode Island.....	486,328	525,824	569,935	608,318	681,116	753,168
South Carolina.....	1,314,792	1,556,552	1,708,603	1,827,266	1,953,347	2,088,128
South Dakota.....	314,627	338,800	360,832	368,266	350,294	367,800
Tennessee.....	1,627,147	1,836,012	1,990,889	2,167,026	<sup>6</sup> 2,130,743	2,312,000
Texas.....	7,642,784	8,996,478	9,642,812	10,152,521	<sup>6</sup> 10,687,903	11,168,859
Utah.....	730,904	813,817	906,484	932,740	( <sup>4</sup> )	1,002,007
Vermont.....	290,206	313,026	348,164	378,264	397,781	421,627
Virginia.....	2,584,005	2,845,540	3,183,707	3,444,952	3,728,804	3,999,515
Washington.....	2,373,841	2,565,957	2,702,852	3,090,836	<sup>6</sup> 3,090,872	3,312,436
West Virginia.....	988,532	1,090,514	1,164,882	1,229,069	<sup>6</sup> 1,168,930	1,103,650
Wisconsin.....	2,455,671	2,855,729	2,893,797	3,086,878	<sup>6</sup> 3,312,841	3,511,612
Wyoming.....	424,251	453,874	488,616	489,825	472,327	458,157
<b>Outlying areas</b>						
American Samoa.....	—	13,348	14,997	19,497	—	—
Guam.....	54,251	58,815	78,545	78,278	—	—
Northern Marianas.....	5,534	9,394	12,556	15,714	—	—
Puerto Rico.....	822,589	856,743	842,827	881,552	—	—
Trust Territory of the Pacific.....	—	34,002	—	—	—	—
Virgin Islands.....	70,411	—	76,751	94,918	—	—

<sup>1</sup> Data revised from previously published figures.

<sup>2</sup> Data estimated by State education agencies.

<sup>3</sup> U.S. total includes NCES imputations for nonreporting States.

<sup>4</sup> Data not reported.

<sup>5</sup> Includes an estimated \$144,942,000 for summer schools, adult education, and community colleges.

<sup>6</sup> Actual data.

NOTE—Beginning in 1980-81, expenditures for State administration are excluded. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems*, and Common Core of Data survey (This table was prepared January 1989).

Table 143.—Current expenditures for public elementary and secondary education, by function and State: 1986-87

(Amounts in thousands of dollars)

State or other area	Current expenditures, by function						
	Total	Instruction		Support services		Noninstructional	
		Amount	Percent of total	Amount	Percent of total	Amount	Percent of total
1	2	3	4	5	6	7	8
<b>United States</b> .....	<b>\$146,589,146</b>	<b>\$89,559,041</b>	<b>61.1</b>	<b>\$51,904,714</b>	<b>35.4</b>	<b>\$5,125,391</b>	<b>3.5</b>
Alabama .....	1,775,997	1,130,136	63.6	539,105	30.4	106,756	6.0
Alaska .....	769,015	508,151	66.1	241,689	31.4	19,174	2.5
Arizona .....	1,836,908	1,058,852	57.6	724,469	39.4	53,586	2.9
Arkansas .....	1,118,904	694,090	62.0	372,051	33.3	52,763	4.7
California .....	16,512,668	9,264,208	56.1	6,741,066	40.8	507,394	3.1
Colorado .....	2,129,964	1,271,614	59.7	812,991	38.2	45,359	2.1
Connecticut .....	2,414,708	1,551,106	64.2	820,742	34.0	42,859	1.8
Delaware .....	418,116	279,436	66.8	128,639	30.8	10,041	2.4
District of Columbia .....	441,135	282,403	64.0	134,272	30.4	24,460	5.5
Florida .....	5,650,383	3,234,977	57.3	2,223,946	39.4	191,160	3.4
Georgia .....	3,451,882	2,169,086	62.8	1,189,963	34.5	82,833	2.7
Hawaii .....	576,749	352,509	61.1	193,565	33.6	30,675	5.3
Idaho .....	513,011	313,385	61.1	176,247	34.4	23,378	4.6
Illinois .....	6,463,564	3,862,345	59.8	2,375,572	36.8	225,647	3.5
Indiana .....	3,106,616	1,952,446	62.8	1,084,723	34.9	69,447	2.2
Iowa .....	1,725,428	991,684	57.5	682,326	39.5	51,417	3.0
Kansas .....	1,486,814	863,987	58.1	571,344	38.4	51,483	3.5
Kentucky .....	1,583,158	1,158,089	73.2	348,481	22.0	76,588	4.8
Louisiana .....	2,260,393	1,292,319	57.2	804,938	35.6	163,136	7.2
Maine .....	760,446	522,807	68.8	214,883	28.3	22,755	3.0
Maryland .....	2,845,404	1,793,494	63.0	994,370	34.9	57,550	2.0
Massachusetts .....	3,744,131	2,448,329	65.4	1,196,833	32.0	98,968	2.6
Michigan .....	6,427,556	3,662,912	57.0	2,614,909	40.7	149,735	2.3
Minnesota .....	2,818,390	1,768,267	62.7	918,538	32.6	131,585	4.7
Mississippi .....	1,112,535	690,719	62.1	330,678	29.7	91,138	8.2
Missouri .....	2,515,846	1,541,808	61.3	909,931	36.2	64,107	2.5
Montana .....	583,861	366,171	62.7	190,282	32.6	27,408	4.7
Nebraska .....	948,149	603,861	63.7	318,088	33.5	26,200	2.8
Nevada .....	513,014	309,757	60.4	195,988	38.2	7,268	1.4
New Hampshire .....	589,850	383,427	65.0	198,375	33.6	8,048	1.4
New Jersey .....	6,099,473	3,871,290	63.5	2,043,734	33.5	184,448	3.0
New Mexico .....	865,789	498,202	57.5	323,560	37.4	44,027	5.1
New York .....	14,724,687	9,645,110	65.5	4,619,447	31.4	460,130	3.1
North Carolina .....	3,193,337	2,094,563	65.6	966,844	30.3	131,930	4.1
North Dakota .....	374,941	230,538	61.5	127,722	34.1	16,682	4.4
Ohio .....	6,111,461	3,541,035	57.9	2,370,717	38.8	199,710	3.3
Oklahoma .....	1,707,396	1,110,882	65.1	535,254	31.3	61,260	3.6
Oregon .....	1,747,125	992,077	56.8	692,747	39.7	62,100	3.6
Pennsylvania .....	7,176,886	4,377,194	61.0	2,575,903	35.9	223,789	3.1
Rhode Island .....	608,318	407,519	67.0	184,668	30.4	16,130	2.7
South Carolina .....	1,827,266	1,116,218	61.1	618,629	33.9	92,416	5.1
South Dakota .....	368,266	219,929	59.7	126,286	34.3	22,051	6.0
Tennessee .....	2,167,026	1,514,878	69.9	508,728	23.5	143,420	6.6
Texas .....	10,152,521	6,066,336	59.8	3,493,531	34.4	592,654	5.8
Utah .....	932,740	614,264	65.9	282,289	30.3	36,187	3.9
Vermont .....	378,264	240,677	63.6	130,665	34.5	6,922	1.8
Virginia .....	3,444,952	2,241,056	65.1	1,117,993	32.5	85,903	2.5
Washington .....	2,808,636	1,638,310	58.3	1,075,030	38.3	95,296	3.4
West Virginia .....	1,229,069	592,721	48.2	574,025	46.7	62,323	5.1
Wisconsin .....	3,086,878	1,928,688	62.5	1,102,026	35.7	56,164	1.8
Wyoming .....	489,825	295,188	60.3	185,911	38.0	8,726	1.8
<b>Outlying areas</b>							
American Samoa .....	19,497	9,551	49.0	6,545	33.6	3,400	17.4
Guam .....	78,278	56,654	72.4	18,589	23.7	3,035	3.9
Northern Marianas .....	15,714	8,539	54.3	5,351	34.0	1,824	11.6
Puerto Rico .....	881,552	594,367	67.4	162,322	18.4	124,863	14.2
Virgin Islands .....	94,918	67,661	71.3	19,694	20.7	7,564	8.0

NOTE—Excludes expenditures for State education agencies. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey (This table was prepared November 1988.)

Table 144.—Current expenditures for public elementary and secondary education, by function and State: 1985-86

[Amounts in thousands of dollars]

State or other area	Current expenditures, by function						
	Total	Instruction		Support services		Noninstructional	
		Amount	Percent of total	Amount	Percent of total	Amount	Percent of total
1	2	3	4	5	6	7	8
<b>United States.....</b>	<b>\$137,164,965</b>	<b>33,462,935</b>	<b>60.8</b>	<b>\$48,852,935</b>	<b>35.6</b>	<b>\$4,849,095</b>	<b>3.5</b>
Alabama.....	1,761,154	1,118,483	63.5	537,691	30.5	104,980	6.0
Alaska.....	818,219	541,546	66.2	255,421	31.2	21,252	2.6
Arizona.....	1,849,832	955,559	57.9	662,152	40.1	32,121	1.9
Arkansas.....	1,085,943	676,420	62.3	356,083	33.0	51,440	4.7
California.....	15,040,898	8,415,884	56.0	6,111,299	40.6	513,715	3.4
Colorado.....	2,018,579	1,200,851	59.5	774,383	38.4	43,344	2.1
Connecticut.....	2,144,094	1,363,717	63.6	743,232	34.7	37,145	1.7
Delaware.....	391,558	253,967	64.9	127,644	32.6	9,946	2.5
District of Columbia.....	406,910	254,805	62.6	130,747	32.1	21,358	5.2
Florida.....	5,092,668	2,895,109	56.8	2,012,092	39.5	185,467	3.6
Georgia.....	2,979,980	1,885,703	63.3	1,007,347	33.8	86,931	2.9
Hawaii.....	575,458	350,880	61.0	192,369	33.4	32,207	5.6
Idaho.....	492,092	315,056	64.0	155,781	31.7	21,254	4.3
Illinois.....	6,066,390	3,556,582	58.6	2,305,962	38.0	203,846	3.4
Indiana.....	2,851,080	1,781,592	62.5	1,020,017	35.8	49,370	1.7
Iowa.....	1,644,359	946,421	57.6	654,675	39.8	43,263	2.6
Kansas.....	1,423,225	828,211	58.2	544,936	38.3	50,078	3.5
Kentucky.....	1,434,962	1,026,444	71.5	330,205	23.0	78,313	5.5
Louisiana.....	2,333,748	1,297,610	55.6	864,985	37.1	171,154	7.3
Maine.....	686,673	468,318	68.0	200,221	29.1	20,134	2.9
Maryland.....	2,634,209	1,637,924	62.2	940,400	35.7	55,884	2.1
Massachusetts.....	3,403,505	2,213,363	65.0	1,099,116	32.3	91,026	2.7
Michigan.....	6,164,767	3,500,600	56.8	2,537,865	41.0	146,302	2.4
Minnesota.....	2,637,722	1,610,216	61.0	901,381	34.2	126,125	4.8
Mississippi.....	1,058,301	651,050	61.5	321,565	30.4	85,686	8.1
Missouri.....	2,277,576	1,392,684	61.1	822,362	36.1	62,530	2.7
Montana.....	567,901	355,125	62.5	186,364	32.8	26,411	4.7
Nebraska.....	911,983	576,959	63.3	311,042	34.1	23,982	2.6
Nevada.....	495,147	296,488	59.9	192,810	38.9	5,849	1.2
New Hampshire.....	522,604	340,222	65.1	174,181	33.3	8,202	1.6
New Jersey.....	5,735,895	3,618,725	63.1	1,948,348	34.0	168,822	2.9
New Mexico.....	808,036	455,058	56.3	310,485	38.4	42,494	5.3
New York.....	13,686,039	8,178,233	67.1	4,072,574	29.8	435,233	3.2
North Carolina.....	2,991,747	1,958,425	65.5	898,757	30.0	134,565	4.5
North Dakota.....	379,470	231,927	61.1	130,338	34.3	17,205	4.5
Ohio.....	5,856,999	3,409,066	58.2	2,291,306	39.1	156,627	2.7
Oklahoma.....	1,740,981	1,110,373	63.8	568,132	32.6	62,476	3.6
Oregon.....	1,682,372	939,291	56.5	663,996	39.9	59,085	3.6
Pennsylvania.....	6,750,520	4,098,291	60.7	2,433,506	36.0	218,722	3.2
Rhode Island.....	589,935	380,740	64.6	173,820	30.5	15,376	2.7
South Carolina.....	1,708,603	1,073,964	62.8	577,888	33.8	96,751	5.7
South Dakota.....	360,832	214,777	59.5	124,794	34.6	21,260	5.9
Tennessee.....	1,990,689	1,335,799	67.1	467,968	23.5	137,122	6.9
Texas.....	9,642,812	5,706,235	59.2	3,400,414	35.3	535,563	5.6
Utah.....	906,464	588,867	65.0	281,510	31.1	36,108	4.0
Vermont.....	346,184	221,502	64.0	118,213	34.1	6,449	1.9
Virginia.....	3,183,707	2,063,945	64.8	1,032,852	32.4	86,810	2.7
Washington.....	2,702,662	1,400,891	51.8	1,210,360	44.8	91,401	3.4
West Virginia.....	1,164,682	689,776	59.3	436,938	37.5	58,188	5.0
Wisconsin.....	2,893,797	1,795,468	62.0	1,045,452	36.1	52,877	1.8
Wyoming.....	488,616	293,095	60.0	168,858	38.7	6,664	1.4
<b>Outlying areas</b>							
American Samoa.....	14,997	8,890	59.3	3,850	25.7	2,258	15.1
Guam.....	78,545	38,603	49.1	36,830	46.9	3,112	4.0
Northern Marianas.....	12,558	7,335	58.4	3,279	26.1	1,942	15.5
Puerto Rico.....	642,827	537,191	83.6	164,066	19.5	141,570	16.8
Virgin Islands.....	76,751	52,197	68.0	17,470	22.8	7,084	9.2

NOTE.—Excludes expenditures for State education agencies. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data survey. (This table was prepared November 1988.)

Table 145.—Total and current expenditure per pupil in public elementary and secondary schools: 1919-20 to 1988-89

School year	Expenditure per pupil in average daily attendance				Expenditure per pupil in fall enrollment <sup>1</sup>			
	Current dollars		Constant 1987-88 <sup>2</sup> dollars		Current dollars		Constant 1987-88 <sup>2</sup> dollars	
	Total expenditure	Current expenditure	Total expenditure	Current expenditure	Total expenditure	Current expenditure	Total expenditure	Current expenditure
1	2	3	4	5	6	7	8	9
1919-20 .....	\$64	\$53	\$385	\$324	\$48	\$40	\$291	\$243
1929-30 .....	108	87	734	587	90	72	608	486
1931-32 .....	97	81	778	652	82	69	659	552
1933-34 .....	76	67	667	590	65	57	567	502
1935-36 .....	88	74	741	626	74	63	627	530
1937-38 .....	100	84	806	678	86	72	692	582
1939-40 .....	106	88	876	730	92	76	760	633
1941-42 .....	110	98	817	730	94	84	700	625
1943-44 .....	125	117	829	778	105	99	698	655
1945-46 .....	146	136	926	866	124	116	789	738
1947-48 .....	205	181	1,018	902	179	158	889	788
1949-50 .....	260	210	1,274	1,029	231	187	1,130	913
1951-52 .....	314	246	1,386	1,084	275	215	1,214	949
1953-54 .....	351	265	1,512	1,141	312	236	1,344	1,014
1955-56 .....	387	294	1,668	1,268	354	269	1,525	1,159
1957-58 .....	447	341	1,815	1,384	408	311	1,655	1,262
1959-60 .....	471	375	1,857	1,479	440	350	1,735	1,382
1961-62 .....	517	419	1,993	1,615	485	393	1,870	1,515
1963-64 .....	559	460	2,098	1,729	520	428	1,953	1,609
1965-66 .....	654	538	2,374	1,952	607	499	2,204	1,812
1967-68 .....	786	658	2,679	2,242	732	612	2,492	2,086
1969-70 .....	955	816	2,929	2,502	878	750	2,692	2,300
1970-71 .....	1,049	911	3,060	2,657	970	842	2,828	2,455
1971-72 .....	1,128	990	3,175	2,786	1,034	907	2,911	2,555
1972-73 .....	1,211	1,077	3,276	2,914	1,116	993	3,021	2,687
1973-74 .....	1,384	1,207	3,389	2,999	1,244	1,101	3,091	2,736
1974-75 .....	1,545	1,365	3,455	3,052	1,424	1,258	3,184	2,813
1975-76 .....	1,697	1,504	3,545	3,141	1,564	1,385	3,267	2,894
1976-77 .....	1,816	1,638	3,585	3,232	1,673	1,509	3,303	2,978
1977-78 .....	2,002	1,823	3,704	3,371	1,842	1,677	3,406	3,101
1978-79 .....	2,210	2,020	3,737	3,417	2,029	1,855	3,432	3,138
1979-80 .....	2,491	2,272	3,716	3,390	2,290	2,089	3,417	3,117
1980-81 .....	<sup>3</sup> 2,762	2,490	<sup>3</sup> 3,693	3,330	<sup>3</sup> 2,540	2,291	<sup>3</sup> 3,397	3,083
1981-82 .....	<sup>3</sup> 2,997	2,726	<sup>3</sup> 3,690	3,355	<sup>3</sup> 2,773	2,521	<sup>3</sup> 3,413	3,104
1982-83 .....	<sup>3</sup> 3,232	2,955	<sup>3</sup> 3,815	3,488	<sup>3</sup> 2,987	2,730	<sup>3</sup> 3,525	3,223
1983-84 .....	<sup>3</sup> 3,506	3,173	<sup>3</sup> 3,991	3,612	<sup>3</sup> 3,240	2,932	<sup>3</sup> 3,688	3,337
1984-85 .....	<sup>3</sup> 3,783	3,470	<sup>3</sup> 4,122	3,801	<sup>3</sup> 3,486	3,215	<sup>3</sup> 3,819	3,521
1985-86 .....	<sup>3</sup> 4,069	3,756	<sup>3</sup> 4,331	3,998	<sup>3</sup> 3,761	3,472	<sup>3</sup> 4,004	3,696
1986-87 .....	<sup>3</sup> 4,365	3,977	<sup>3</sup> 4,546	4,142	<sup>3</sup> 4,039	3,680	<sup>3</sup> 4,206	3,832
1987-88 .....	<sup>3</sup> 4,645	<sup>4</sup> 4,227	<sup>3</sup> 4,645	<sup>4</sup> 4,227	<sup>3</sup> 4,297	<sup>4</sup> 3,911	<sup>3</sup> 4,297	<sup>4</sup> 3,911
1988-89 .....	<sup>3</sup> 4,931	<sup>4</sup> 4,499	<sup>3</sup> 4,724	<sup>4</sup> 4,310	<sup>3</sup> 4,563	<sup>4</sup> 4,163	<sup>3</sup> 4,370	<sup>4</sup> 3,987

<sup>1</sup> Data for 1919-20 to 1953-54 are based on school-year enrollment<sup>2</sup> Based on the consumer price index, prepared by the Bureau of Labor Statistics, U S Department of Labor<sup>3</sup> Estimated<sup>4</sup> Preliminary data

"other programs" such as summer schools and community services are included in both "total" and "current" expenditures. Some data have been revised from previously published figures

NOTE—Beginning in 1980-81, two changes in definitions were made. State administration expenditures are excluded from both "total" and "current" expenditures, and

SOURCE: U S Department of Education, National Center for Education Statistics, *Statistics of State School Systems, Revenues and Expenditures for Public Elementary and Secondary Education*, and Common Core of Data survey (This table was prepared May 1989)

**Table 146.—Current expenditure per pupil in average daily attendance in public elementary and secondary schools, by State: 1959-60 to 1986-87**

State or other area	Current dollars										
	1959-60	1969-70	1974-75	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86 <sup>2</sup>	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
<b>United States.....</b>	<b>\$375</b>	<b>\$816</b>	<b>\$1,365</b>	<b>\$2,272</b>	<b>\$2,490</b>	<b>\$2,726</b>	<b>\$2,955</b>	<b>\$3,173</b>	<b>\$3,470</b>	<b>\$3,756</b>	<b>\$3,977</b>
Alabama.....	241	544	931	1,812	1,985	2,083	2,177	2,055	2,325	2,565	2,573
Alaska.....	546	1,123	2,439	4,728	5,688	6,312	7,325	6,627	7,843	6,304	6,010
Arizona.....	404	720	1,216	1,971	2,258	2,462	2,597	2,751	3,009	3,336	3,544
Arkansas.....	225	568	693	1,574	1,701	1,841	1,771	2,235	2,482	2,658	2,733
California.....	424	867	1,367	2,268	2,475	2,671	2,733	2,963	3,256	3,543	3,728
Colorado.....	396	736	1,267	2,421	2,653	2,914	3,171	3,373	3,697	3,975	4,147
Connecticut.....	436	951	1,556	2,420	2,676	3,188	3,636	4,023	4,738	4,743	5,435
Delaware.....	456	900	1,514	2,661	3,016	3,198	3,456	3,849	4,184	4,610	4,825
District of Columbia.....	431	1,016	1,779	3,259	3,441	3,792	4,260	4,786	5,103	5,337	5,742
Florida.....	316	732	1,304	1,889	2,401	2,443	2,739	2,932	3,241	3,529	3,784
Georgia.....	253	588	1,055	1,825	1,708	2,019	2,169	2,352	2,657	2,966	3,374
Hawaii.....	325	841	1,378	2,322	2,604	2,862	3,239	3,334	3,465	3,807	3,767
Idaho.....	290	603	1,016	1,659	1,856	1,945	2,070	2,146	2,362	2,484	2,585
Illinois.....	436	909	1,516	2,587	2,704	2,936	3,100	3,298	3,538	3,781	4,108
Indiana.....	369	728	1,114	1,882	2,010	2,306	2,480	2,725	3,051	3,275	3,566
Iowa.....	368	644	1,259	2,326	2,668	2,674	3,095	3,274	3,467	3,619	3,808
Kansas.....	348	771	1,270	2,173	2,559	2,615	3,058	3,284	3,560	3,829	3,933
Kentucky.....	233	545	905	1,701	1,784	1,906	2,100	2,311	2,390	2,486	2,733
Louisiana.....	377	648	1,130	1,792	2,469	2,590	2,691	2,694	2,990	3,167	3,069
Maine.....	283	692	1,108	1,624	1,934	2,221	2,458	2,700	3,024	3,472	3,660
Maryland.....	393	916	1,565	2,598	2,914	3,234	3,445	3,656	4,102	4,447	4,777
Massachusetts.....	409	859	1,461	2,619	2,840	3,137	3,378	3,595	4,026	4,562	5,145
Michigan.....	415	904	1,524	2,640	3,037	3,140	3,307	3,556	3,848	4,176	4,353
Minnesota.....	425	904	1,544	2,387	2,673	2,905	3,065	3,395	3,674	3,941	4,180
Mississippi.....	206	501	677	1,664	1,805	1,706	1,979	2,244	2,350	2,362	2,350
Missouri.....	344	709	1,149	1,936	2,172	2,342	2,466	2,748	2,958	3,169	3,472
Montana.....	411	782	1,351	2,476	2,683	2,996	3,269	3,604	3,847	4,091	4,184
Nebraska.....	337	736	1,271	2,150	2,384	2,774	2,984	3,221	3,471	3,634	3,756
Nevada.....	430	769	1,188	2,088	2,076	2,424	2,613	2,690	2,629	3,440	3,573
New Hampshire.....	347	723	1,180	1,916	2,265	2,509	2,750	2,980	3,271	3,542	3,833
New Jersey.....	388	1,016	1,783	3,191	3,254	3,674	4,007	4,496	4,504	5,570	5,953
New Mexico.....	363	707	1,114	2,034	2,329	2,703	2,902	2,928	3,153	3,195	3,558
New York.....	562	1,327	2,308	3,462	3,741	4,280	4,686	5,117	5,492	6,011	6,497
North Carolina.....	237	612	1,092	1,754	2,001	2,107	2,138	2,303	2,625	2,948	3,129
North Dakota.....	367	690	1,111	1,920	2,275	2,727	2,652	3,028	3,339	3,483	3,437
Ohio.....	385	730	1,167	2,075	2,303	2,492	2,676	2,962	3,265	3,527	3,671
Oklahoma.....	311	604	1,027	1,926	2,199	2,673	2,805	2,659	2,650	3,146	3,099
Oregon.....	488	925	1,561	2,692	3,100	3,299	3,504	3,677	3,889	4,141	4,337
Pennsylvania.....	409	862	1,514	2,535	2,824	3,059	3,354	3,648	4,237	4,325	4,616
Rhode Island.....	413	891	1,604	2,601	2,927	3,040	3,570	3,938	4,267	4,667	4,965
South Carolina.....	220	613	1,032	1,752	1,734	1,907	2,017	2,163	2,783	3,058	3,237
South Dakota.....	347	690	1,071	1,908	1,991	2,300	2,486	2,685	2,892	3,051	3,097
Tennessee.....	238	566	991	1,635	1,794	1,895	2,027	2,101	2,365	2,612	2,827
Texas.....	332	624	1,063	1,916	2,006	2,229	2,731	2,784	3,124	3,296	3,409
Utah.....	322	626	1,024	1,857	1,819	1,672	2,014	2,053	2,220	2,390	2,415
Vermont.....	344	807	1,366	1,997	2,475	2,793	3,061	3,359	3,651	4,031	4,399
Virginia.....	274	708	1,200	1,970	2,179	2,384	2,656	2,670	3,157	3,520	3,760
Washington.....	420	915	1,395	2,568	2,542	2,850	3,211	3,465	3,725	3,881	3,964
West Virginia.....	258	670	1,047	1,920	2,146	2,593	2,765	2,879	3,244	3,526	3,784
Wisconsin.....	413	883	1,409	2,477	2,738	2,935	3,233	3,513	3,615	4,188	4,523
Wyoming.....	450	856	1,426	2,527	2,967	3,417	4,045	4,523	4,799	5,144	5,201
<b>Outlying areas</b>											
American Samoa.....	—	—	880	—	—	—	—	—	1,262	1,367	1,646
Guam.....	236	820	1,820	—	—	2,133	2,166	2,301	2,469	3,383	3,344
Northern Marianas.....	—	—	—	—	—	—	1,731	1,142	1,693	2,552	3,099
Puerto Rico.....	106	—	742	—	—	961	1,112	1,247	1,319	1,325	1,399
Trust Territory.....	—	—	—	—	—	—	—	—	792	—	—
Virgin Islands.....	271	—	1,542	—	—	2,646	2,757	2,710	—	3,233	4,161

Table 146.—Current expenditure per pupil in average daily attendance in public elementary and secondary schools, by State: 1959-60 to 1986-87—Continued

State or other area	Constant 1986-87 dollars <sup>1</sup>										
	1959-60	1969-70	1974-75	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	13	14	15	16	17	18	19	20	21	22	23
<b>United States.....</b>	<b>\$1,420</b>	<b>\$2,403</b>	<b>\$2,931</b>	<b>\$3,255</b>	<b>\$3,197</b>	<b>\$3,222</b>	<b>\$3,349</b>	<b>\$3,468</b>	<b>\$3,650</b>	<b>\$3,839</b>	<b>\$3,977</b>
Alabama.....	913	1,602	1,999	2,309	2,549	2,438	2,467	2,246	2,445	2,622	2,573
Alaska.....	2,068	3,306	5,237	6,774	7,304	7,461	8,301	9,428	8,249	8,488	8,010
Arizona.....	1,528	2,120	2,611	2,824	2,900	2,910	2,643	3,007	3,164	3,410	3,544
Arkansas.....	852	1,671	1,918	2,256	2,184	2,176	2,233	2,442	2,610	2,717	2,733
California.....	1,605	2,554	2,936	3,249	3,178	3,157	3,098	3,238	3,424	3,622	3,728
Colorado.....	1,500	2,173	2,763	3,469	3,458	3,444	3,594	3,686	3,888	4,063	4,147
Connecticut.....	1,651	2,801	3,343	3,466	3,592	3,768	4,121	4,397	4,983	4,848	5,435
Delaware.....	1,725	2,650	3,251	4,099	3,875	3,780	3,916	4,206	4,401	4,712	4,825
District of Columbia.....	1,632	2,999	3,820	4,670	4,419	4,482	4,827	5,209	5,366	5,456	5,742
Florida.....	1,202	2,156	2,801	2,707	3,084	2,888	3,104	3,204	3,408	3,608	3,794
Georgia.....	960	1,731	2,266	2,329	2,193	2,386	2,459	2,570	2,794	3,032	3,374
Hawaii.....	1,229	2,475	2,959	3,327	3,344	3,383	3,671	3,644	3,644	3,891	3,787
Idaho.....	1,097	1,776	2,182	2,377	2,383	2,299	2,346	2,345	2,485	2,539	2,585
Illinois.....	1,660	2,678	3,256	3,706	3,472	3,470	3,513	3,605	3,721	3,865	4,106
Indiana.....	1,396	2,144	2,393	2,697	2,581	2,726	2,811	2,978	3,209	3,348	3,556
Iowa.....	1,392	2,486	2,703	3,333	3,425	3,397	3,507	3,578	3,646	3,700	3,808
Kansas.....	1,316	2,270	2,728	3,114	3,286	3,327	3,466	3,588	3,744	3,914	3,933
Kentucky.....	682	1,605	1,943	2,437	2,291	2,253	2,380	2,526	2,513	2,541	2,733
Louisiana.....	1,408	1,908	2,428	2,568	3,171	3,061	3,050	2,944	3,145	3,258	3,069
Maine.....	1,070	2,039	2,390	2,613	2,483	2,625	2,785	2,950	3,181	3,549	3,850
Maryland.....	1,487	2,704	3,362	3,722	3,741	3,822	3,904	4,216	4,314	4,546	4,777
Massachusetts.....	1,548	2,530	3,180	4,039	3,775	3,708	3,828	3,929	4,234	4,664	5,145
Michigan.....	1,571	2,662	3,274	3,783	3,899	3,711	3,747	3,866	4,047	4,269	4,353
Minnesota.....	1,610	2,661	3,316	3,420	3,433	3,434	3,496	3,710	3,864	4,028	4,180
Mississippi.....	779	1,475	1,883	2,384	2,062	2,016	2,243	2,453	2,472	2,414	2,350
Missouri.....	1,302	2,086	2,467	2,774	2,789	2,768	2,797	3,003	3,111	3,260	3,472
Montana.....	1,555	2,302	2,902	3,548	3,446	3,544	3,727	3,938	4,046	4,181	4,194
Nebraska.....	1,276	2,168	2,729	3,080	3,062	3,196	3,381	3,520	3,650	3,714	3,756
Nevada.....	1,629	2,266	2,552	2,992	2,668	2,865	2,961	2,940	2,976	3,516	3,573
New Hampshire.....	1,315	2,129	2,534	2,745	2,909	2,966	3,116	3,257	3,440	3,620	3,933
New Jersey.....	1,467	2,992	3,829	4,573	4,179	4,343	4,542	4,913	4,736	5,694	5,953
New Mexico.....	1,373	2,082	2,392	2,914	2,991	3,195	3,289	3,200	3,316	3,266	3,558
New York.....	2,126	3,907	4,958	4,961	4,804	5,059	5,311	5,592	5,776	6,144	6,497
North Carolina.....	898	1,803	2,345	2,514	2,570	2,490	2,423	2,516	2,761	3,014	3,129
North Dakota.....	1,388	2,031	2,387	2,751	2,921	3,223	3,232	3,309	3,511	3,560	3,437
Ohio.....	1,382	2,150	2,507	2,973	2,957	2,945	3,033	3,259	3,455	3,605	3,671
Oklahoma.....	1,179	1,780	2,205	2,760	2,823	3,159	3,179	3,124	2,997	3,216	3,099
Oregon.....	1,697	2,722	3,252	3,857	3,980	3,899	3,972	4,019	4,080	4,233	4,337
Pennsylvania.....	1,550	2,596	3,352	3,632	3,626	3,605	3,801	3,986	4,456	4,421	4,616
Rhode Island.....	1,565	2,624	3,445	3,727	3,758	3,593	4,045	4,303	4,509	4,771	4,985
South Carolina.....	833	1,804	2,217	2,510	2,227	2,254	2,286	2,386	2,927	3,126	3,237
South Dakota.....	1,313	2,031	2,300	2,733	2,556	2,719	2,817	2,934	3,042	3,119	3,097
Tennessee.....	901	1,667	2,128	2,343	2,303	2,240	2,298	2,296	2,508	2,670	2,827
Texas.....	1,258	1,838	2,284	2,745	2,576	2,635	3,095	3,042	3,285	3,371	3,409
Utah.....	1,221	1,844	2,199	2,374	2,336	2,213	2,262	2,243	2,335	2,443	2,415
Vermont.....	1,302	2,377	2,933	2,861	3,178	3,301	3,469	3,671	3,840	4,121	4,399
Virginia.....	1,038	2,084	2,576	2,823	2,798	2,818	3,010	3,136	3,318	3,599	3,780
Washington.....	1,592	2,695	2,995	3,680	3,265	3,132	3,639	3,787	3,918	3,967	3,964
West Virginia.....	978	1,973	2,249	2,751	2,755	3,065	3,134	3,147	3,411	3,607	3,784
Wisconsin.....	1,584	2,599	3,026	3,549	3,516	3,469	3,664	3,839	4,012	4,260	4,523
Wyoming.....	1,705	2,521	3,063	3,620	3,810	4,039	4,584	4,943	5,047	5,227	5,201
<b>Outlying areas</b>											
American Samoa.....	—	—	1,890	—	—	—	—	—	1,327	1,417	1,846
Guam.....	895	2,414	3,909	—	—	2,521	2,477	2,515	2,618	3,458	3,344
Northern Mariana Islands.....	—	—	—	—	—	—	1,962	1,248	1,780	2,608	3,099
Puerto Rico.....	422	—	1,594	—	—	1,136	1,260	1,363	1,387	1,354	1,399
Trust Territory.....	—	—	—	—	—	—	—	—	833	—	—
Virgin Islands.....	1,025	—	3,312	—	—	3,127	3,124	2,962	—	3,295	4,161

<sup>1</sup> Based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor. These data do not reflect differences in inflation rates from State to State.

<sup>2</sup> Some data revised from previously published figures.

<sup>3</sup> Estimated by the National Center for Education Statistics.

—Date not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of State School Systems* and Common Core of Data survey (This table was prepared November 1988).

## CHAPTER 3

# Postsecondary Education

A salient characteristic of postsecondary education in this country is its diversity. A great variety of types of colleges and universities offers a wide range of programs. For example, a junior college usually offers only the first 2 years of training at the college level, but a university normally offers a full undergraduate course leading to a bachelor's degree as well as first-professional and graduate programs leading to advanced degrees. Vocational and technical institutions offer training programs which are designed to prepare students for specific careers. Other types of postsecondary education providers, such as community groups, churches, and businesses, offer learning opportunities to adults. This variety of institutions serves a wide scope of individual needs but poses many problems of coverage and definitions for researchers.

In recent decades, postsecondary education has become more accessible to all segments of the population. The growth of public junior colleges and low-cost institutions means that the expenses of students attending these institutions can be held to a minimum. Federal and other programs also have attracted many students to higher education who otherwise would have found it difficult to finance a college education.

The Center has undertaken a major expansion in data collection at the postsecondary level in a survey called Integrated Postsecondary Education Data System (IPEDS). IPEDS obtains data from each college and university on its enrollment; faculty and faculty salaries; degrees conferred; and finances, including revenues, expenditures, and property. This new annual study provides a comprehensive overview of postsecondary education by incorporating a survey system with a consistent set of definitions and survey forms for all types of postsecondary institutions.

This chapter provides an overview of the latest statistics from the IPEDS surveys. It also provides historical data that enable the reader to observe long-range trends in American higher education. In addition, it presents summary data from the Bureau of the Census on the characteristics and the majors of college students; and from the Equal Employment Opportunity Commission on the race ethnicity, academic rank, and sex of college faculty members.

Additional data on postsecondary institutions from the survey, "Participation in Adult Education," compare adult learning activities by demographic characteristics of participants. Data on price indexes and on the number of degrees held by the general population may be found in chapter 1. Chapter 4 contains tabulations on Federal funding for postsecondary education. Information on employment outcomes for college graduates can be found in chapter 5. Chapter 7 contains data on college libraries. Further information on survey methodologies can be found in the Guide to Sources in the appendix.

## Highlights

- College enrollment increased more than 40 percent between 1970 and 1980. Since 1980 enrollments have risen more slowly. Between 1980 and 1987, enrollment increased about 6 percent from 12.1 million to a record 12.8 million. Most of this growth was in part-time enrollment. Between 1980 and 1987, the number of men enrolled remained steady, while the number of women increased by 10 percent. (Table 148)
- The number of older students has been growing more rapidly than the number of younger students. Between 1970 and 1985, the enrollment of students under age 25 increased by 15 percent. During the same time period, enrollment of persons 25 and over rose by 114 percent. From 1985 to 1990, the Center projects a rise of 8 percent in enrollments of both age groups. (Table 150)
- There have been some differing enrollment trends at the undergraduate, graduate, and first-professional levels. Undergraduate enrollment increased rapidly during the 1970s, but it fell between 1983 and 1985. Between 1985 and 1987, undergraduate enrollment rose about 4 percent. Graduate enrollment had been steady at about 1.3 million in the late 1970s and early 1980s, but rose about 6 percent between 1985 and 1987. Enrollment in first-professional programs has shown small decreases, dropping about 4 percent between 1984 and 1987. (Tables 158, 159, 160, and 161)
- In the last several years, the number of women in graduate schools has exceeded the number of

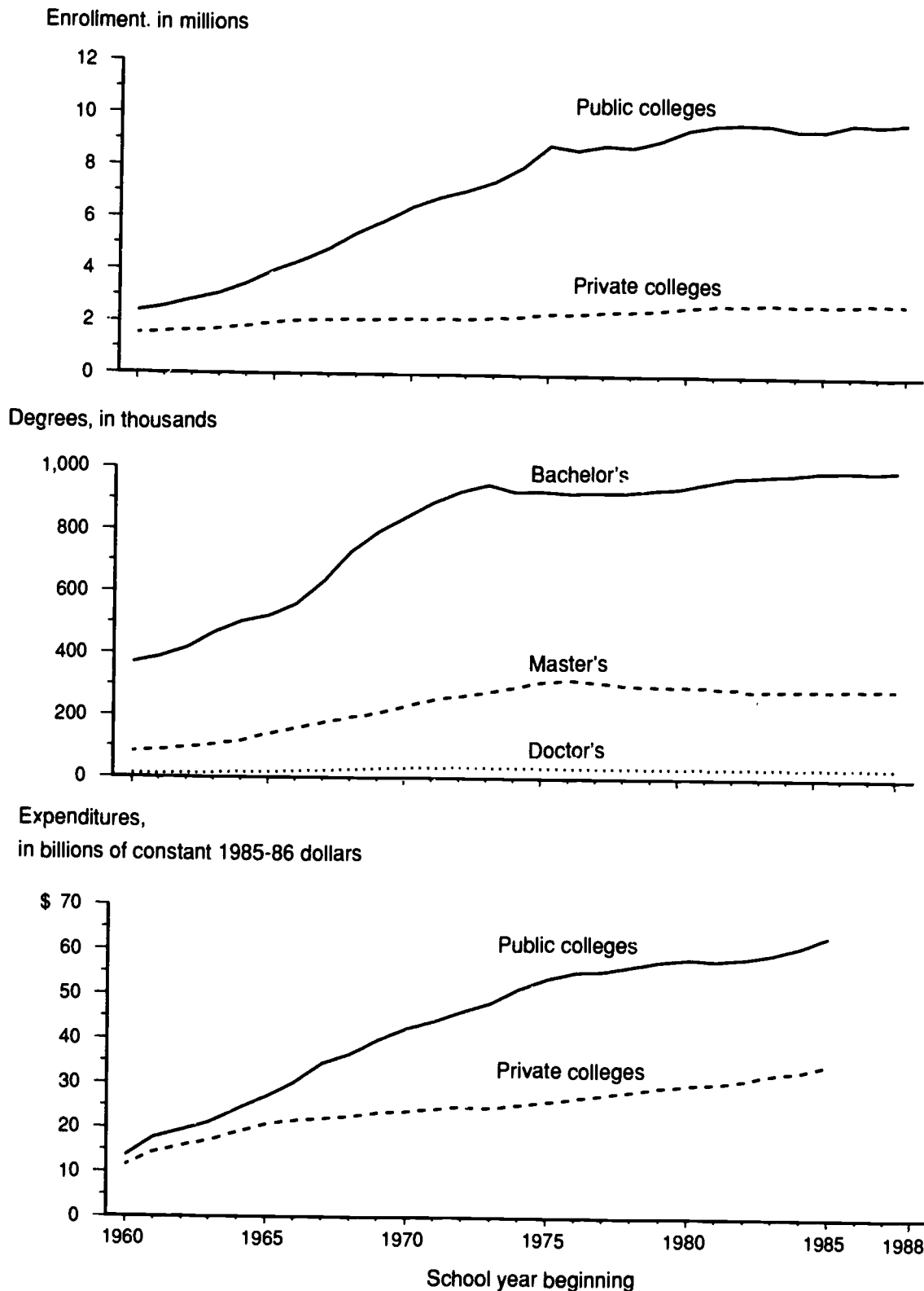


- men. Between 1982 and 1987, the number of male full-time graduate students increased by 5 percent compared to 14 percent for full-time women. Among part-time graduate students, men increased by only 3 percent compared to 17 percent for women. (Table 160)
- The proportion of college students who were minorities rose between 1976 and 1986. In 1976, 15.4 percent were minorities compared to 17.9 percent in 1986. Much of the change can be attributed to sharply rising numbers of Asian students. However, the proportion of students who were black fell from 9.4 percent in 1976 to 8.7 percent in 1986. The drop in the proportion of black students reflected the declining enrollments of black males and the relatively slow increase in enrollments of black women. (Tables 175 and 176)
  - College faculty generally suffered losses in the purchasing power of their salaries from 1972-73 to 1980-81, when average salaries fell 17 percent after adjustment for inflation. Between 1980-81 and 1987-88, the average salaries rose by 16 percent, recouping most of the losses in purchasing power which occurred in the previous decade. Average salaries for men in 1987-88 (\$38,295) were considerably higher than the average for women (\$30,364) and have increased at a faster rate since 1980-81. (Table 192)
  - The proportion of faculty with tenure has remained relatively stable in recent years. About 65 percent of full-time faculty had tenure in 1987-88, but there was a large difference between the proportion of men and women with tenure. Seventy percent of men compared to 50 percent of women had tenure in 1987-88. About 67 percent of the faculty at public institutions had tenure compared to 58 percent of faculty at private institutions. (Table 195)
  - During the 1987-88 academic year, 12,056 institutions offered postsecondary education. Postsecondary education providers included 2,135 4-year colleges, 1,452 2-year colleges, and 8,469 vocational and technical institutions. (Tables 198 and 301)
  - Despite the sizable numbers of small colleges, most students attend the larger colleges. In fall 1987, 40 percent of higher education institutions had fewer than 1,000 students; however, these institutions enrolled less than 5 percent of total college enrollment. Even though only 10 percent of the colleges enrolled over 10,000 students each, they accounted for 50 percent of total college enrollment. (Table 186)
  - The total number of bachelor's degrees increased slowly in the 10-year period between 1976-77 and 1986-87, but there were notable shifts for men and women. Between 1976-77 and 1986-87, the number of bachelor's degrees awarded to men fell by 3 percent, while the number of degrees awarded to women rose by 20 percent. (Table 200)
  - Between 1976-77 and 1986-87, the number of associate and bachelor's degrees rose while the number of master's degrees decreased. Associate degrees and bachelor's degrees increased by 8 percent during this period compared to a decline of 9 percent in master's degrees and an increase of only 3 percent in doctor's degrees. Although the number of first-professional degrees rose by 13 percent over the entire 1976-77 to 1986-87 period, they declined in the last years of the time period. (Table 200)
  - Of the 991,000 bachelor's degrees conferred in 1986-87, the largest numbers of degrees were conferred in the fields of business and management (241,000), social sciences (96,000), engineering and engineering technology (93,000), education (87,000), and health professions (63,000). At the master's degree level, the largest fields were education (76,000) and business and management (67,000). The largest fields at the doctor's degree level were education (6,909), engineering (3,809), physical sciences (3,672), and life sciences (3,423). (Tables 205, 206, and 207)
  - There have been rapid increases in the number of bachelor's degrees conferred in occupational areas and large decreases in the number of degrees conferred in the liberal arts. From 1976-77 to 1986-87, the number of bachelor's degrees conferred in business and management rose by 60 percent. The number of degrees in computer and information sciences jumped by 519 percent. Other large increases occurred in the fields of communications (96 percent), engineering and engineering technology (89 percent), and health professions (11 percent). Large drops have been noted in life sciences (down 29 percent), foreign languages (27 percent), social sciences (18 percent), and psychology (10 percent). One exception to the trend of increasing numbers of degrees in occupational areas has been the drop of 39 percent in education. It is important to note that the 10-year trend masks some recent developments in patterns of bachelor's degrees conferred. For example, between 1985-86 and 1986-87, there were decreases in the number of bachelor's degrees conferred in engineering, computer and information sciences, health sciences, and physical sci-

ences and increases in foreign languages, social sciences, and psychology. (Table 205)

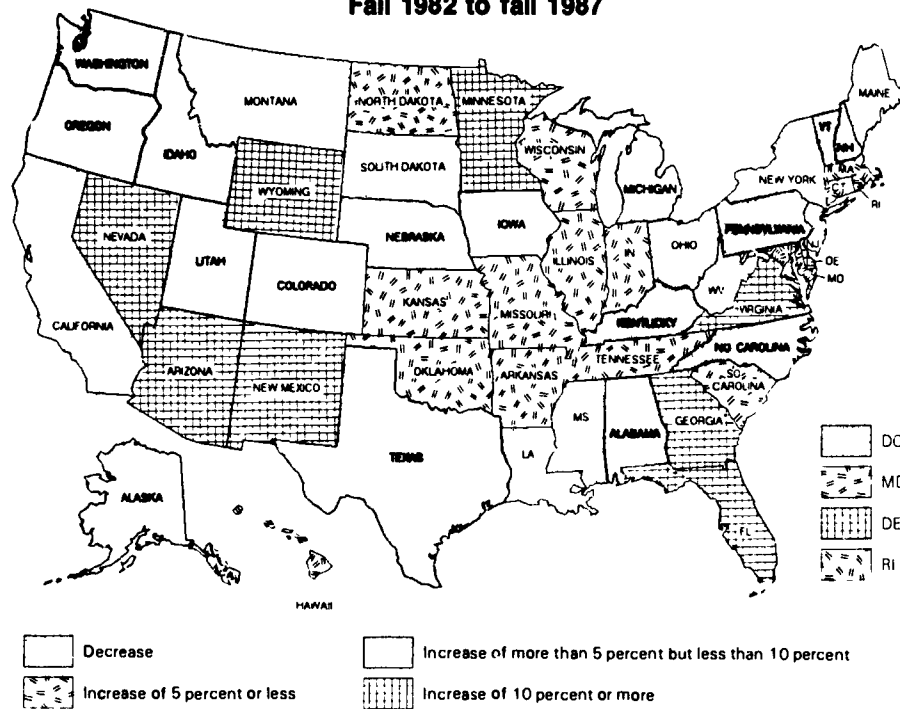
- Only about half of the students who enrolled full-time in a 4-year college in 1980 graduated with a bachelor's degree by 1986, according to a recent High School and Beyond survey. About 55 percent of the students who enrolled in private 4-year colleges finished by 1986 compared to 46 percent for public 4-year colleges. (Table 254)
- For the 1987-88 academic year, annual undergraduate charges for tuition, room, and board are estimated at \$3,960 at public colleges and \$10,390 at private colleges. Between 1977-78 and 1987-88, charges at public colleges have risen by 110 percent and charges at private colleges by 150 percent. These increases surpassed the rise in the Consumer Price Index, which was about 85 percent during the same 10-year period. (Table 258)
- Trend data show continuing increases in higher education expenditures. After adjustment for inflation, current-fund expenditures rose about 23 percent between 1975-76 and 1985-86. Expenditures increased more quickly at private institutions (32 percent) than at public institutions (18 percent). (Table 277)
- Administrative expenditures (institutional support and academic support, less libraries) have been rising more rapidly than most other types of college expenditures. Between 1930-81 and 1985-86, inflation adjusted administration expenditures per full-time-equivalent student rose 17 percent at public universities compared to 6 percent for instruction expenditures per student. At private universities, the per student administrative costs rose 24 percent and the instruction costs rose by 14 percent during the same time period. (Tables 282 and 285)
- Endowments of colleges and universities have risen rapidly in recent years. Between 1980-81 and 1985-86, the market value of endowments rose by 114 percent, from \$23.5 billion to \$50.3 billion. (Table 292)

**Figure 13.—Enrollment, degrees conferred, and expenditures in institutions of higher education: 1960-61 to 1988-89**



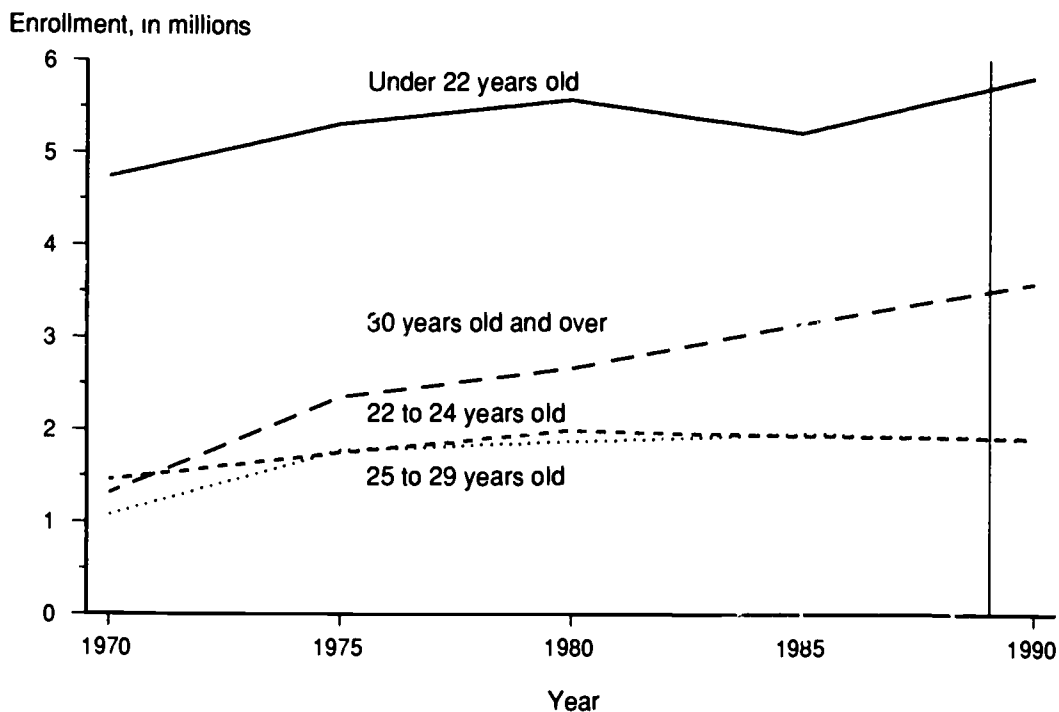
SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education," "Degrees and Other Formal Awards Conferred," "Financial Statistics of Institutions of Higher Education" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" and "Completions" surveys.

**Figure 14.—Percent change in total enrollment in institutions of higher education:  
Fall 1982 to fall 1987**



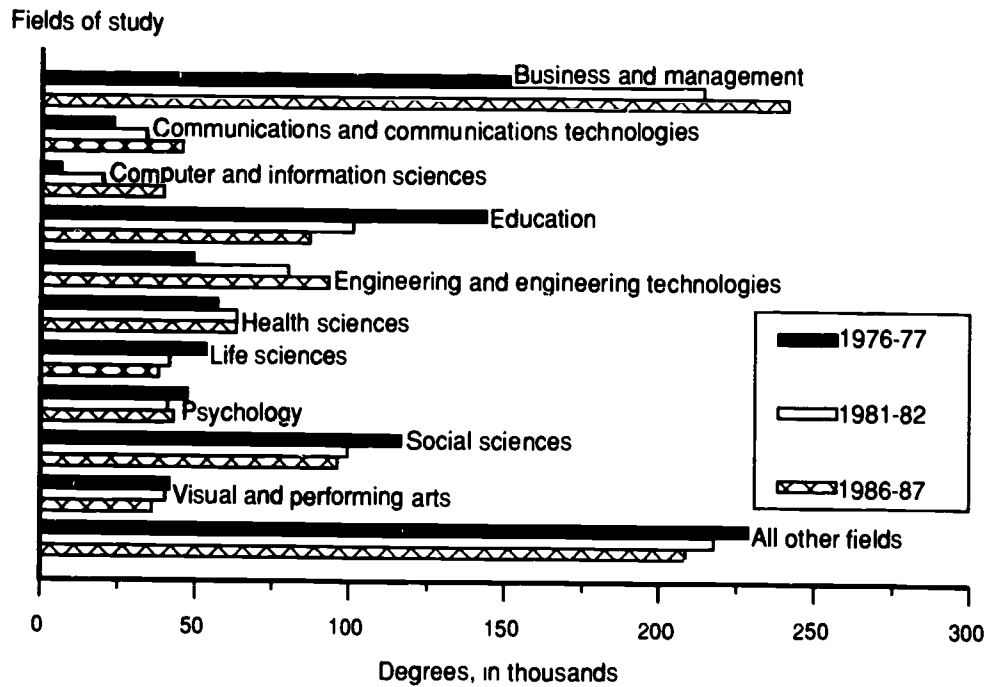
SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys.

**Figure 15.—Enrollment in institutions of higher education, by age:  
Fall 1970 to fall 1990**



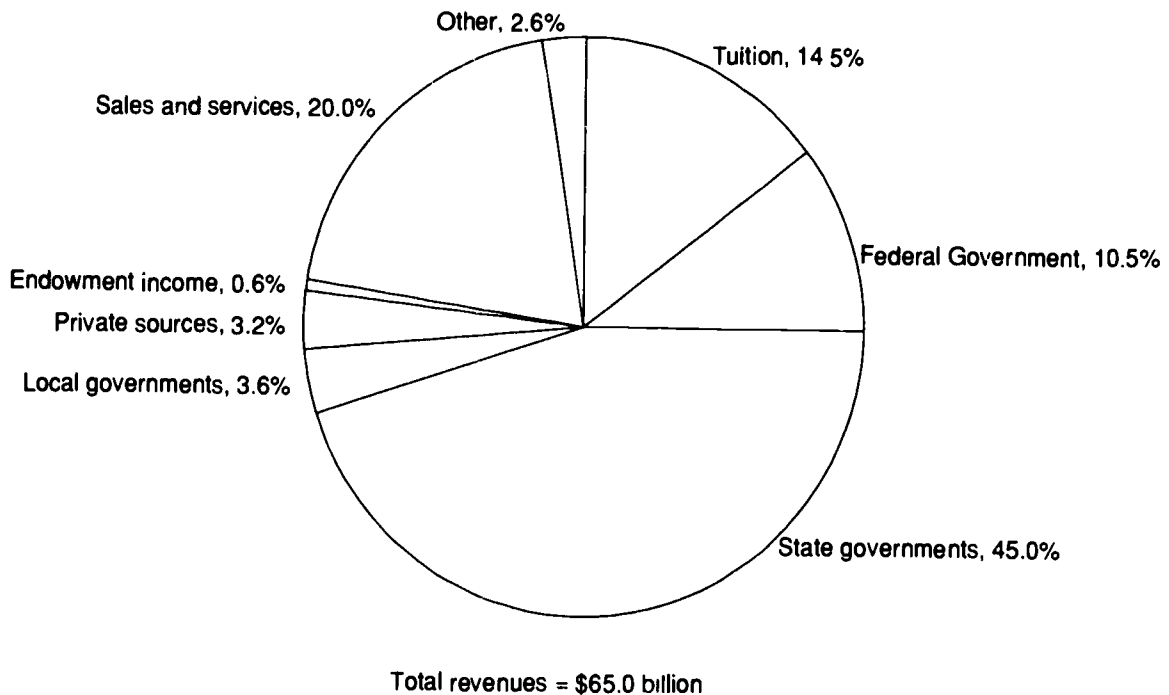
SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education" surveys, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys, and *Projections of Education Statistics to 2000*. U.S. Department of Commerce, Bureau of the Census, *Current Publication Reports*, "Social and Economic Characteristics of Students," various years.

**Figure 16.—Trends in bachelor's degrees conferred in selected fields of study: 1976-77, 1981-82, and 1986-87**



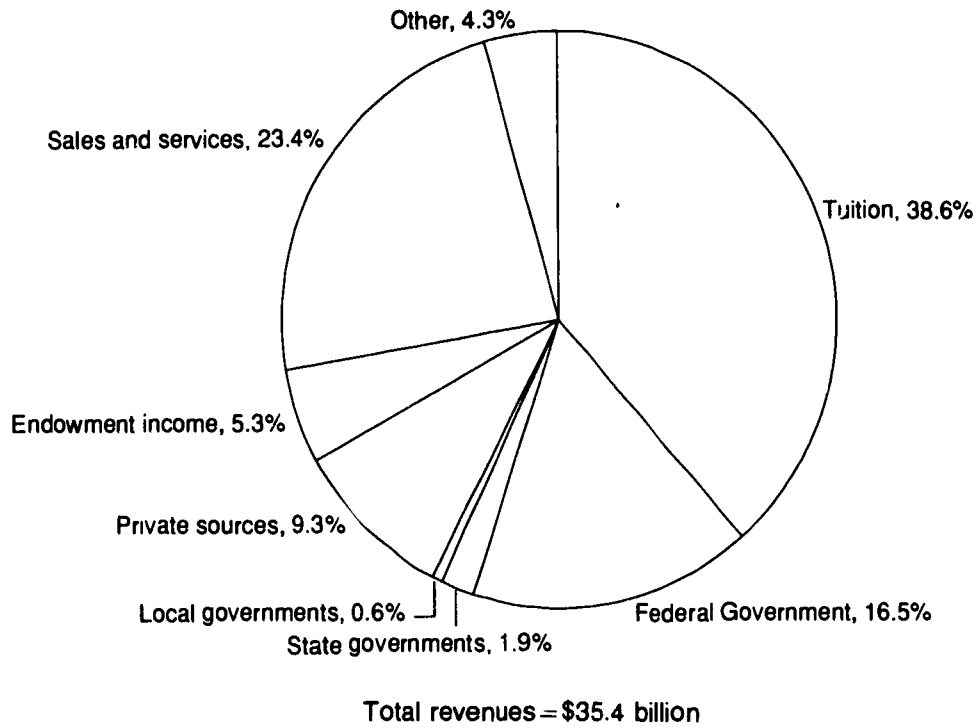
SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey.

**Figure 17.—Sources of current-fund revenue for public institutions of higher education: 1985-86**



SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" survey.

**Figure 18.—Sources of current-fund revenue for private institutions of higher education: 1985-86**



SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" survey.

**Table 147.—Historical summary of faculty, students, degrees, and finances in institutions of higher education: 1869-70 to 1986-87**

Item	1869-70	1879-80	1889-90	1899-1900	1909-10	1919-20	1929-30	1939-40	1949-50	1959-60	1969-70	1979-80	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Total institutions<sup>1</sup></b>	563	611	698	977	961	1,041	1,409	1,708	1,861	2,008	2,526	3,182	3,331	3,340	3,406
<b>Total faculty<sup>2</sup></b>	<sup>3</sup> 5,553	<sup>3</sup> 11,522	<sup>3</sup> 15,809	23,868	36,480	46,115	82,388	146,929	246,722	380,554	<sup>4</sup> 450,000	<sup>4</sup> 675,000	<sup>4</sup> 717,000	<sup>4</sup> 715,000	<sup>4</sup> 722,000
Men	<sup>3</sup> 4,687	<sup>3</sup> 7,328	<sup>3</sup> 12,704	19,151	29,132	35,807	60,017	106,329	186,189	296,773	<sup>4</sup> 346,000	<sup>4</sup> 479,000	—	—	—
Women	<sup>3</sup> 636	<sup>3</sup> 4,194	<sup>3</sup> 3,105	4,717	7,348	12,808	22,369	40,601	60,533	83,781	<sup>4</sup> 104,000	<sup>4</sup> 196,000	—	—	—
<b>Total fall enrollment<sup>5</sup></b>	<sup>3</sup> 52,296	<sup>3</sup> 115,817	<sup>3</sup> 156,758	237,592	<sup>3</sup> 355,213	597,680	1,100,737	1,494,203	2,659,021	3,679,847	6,004,660	11,569,899	12,241,940	12,247,055	12,504,501
Men	<sup>3</sup> 41,180	<sup>3</sup> 77,972	<sup>3</sup> 100,453	152,254	<sup>3</sup> 214,648	314,938	619,935	893,250	1,853,068	2,332,617	4,746,201	5,682,677	5,863,574	5,818,450	5,884,976
Women	<sup>3</sup> 11,126	<sup>3</sup> 37,845	<sup>3</sup> 56,303	85,338	<sup>3</sup> 140,565	282,942	480,802	600,953	805,953	1,307,230	3,258,459	5,887,022	6,378,366	6,428,605	6,619,525
<b>Earned degree conferred</b>															
<b>Associate, total</b>	—	—	—	—	—	—	—	—	—	—	206,023	400,910	454,712	446,047	437,137
Men	—	—	—	—	—	—	—	—	—	—	117,432	183,737	202,932	196,166	191,525
Women	—	—	—	—	—	—	—	—	—	—	88,591	217,173	251,780	249,881	245,612
<b>Bachelor's,<sup>6</sup> total</b>	9,371	12,896	15,539	27,410	37,199	48,622	122,484	186,500	432,058	392,440	792,656	929,417	979,477	987,823	991,339
Men	7,993	10,411	12,857	22,173	28,782	31,980	73,615	109,546	328,641	254,063	451,380	473,611	482,526	485,923	480,854
Women	1,378	2,485	2,682	5,237	8,437	16,642	48,869	76,954	103,217	138,377	341,276	455,806	496,949	501,900	510,485
<b>First-professional,<sup>6</sup> total</b>	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	34,578	70,131	75,063	73,910	72,750
Men	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	32,794	52,716	50,455	49,261	47,460
Women	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	1,784	17,415	24,608	24,649	25,290
<b>Master's,<sup>7</sup> total</b>	0	879	1,015	1,583	2,113	4,279	14,969	26,731	58,183	74,435	208,291	298,081	286,251	288,567	289,557
Men	0	868	821	1,280	1,555	2,985	6,600	16,508	41,220	50,800	125,824	150,749	143,390	143,508	141,363
Women	0	11	194	303	558	1,294	6,044	10,223	16,963	23,537	82,667	147,332	142,861	145,059	148,194
<b>Doctor's, total</b>	1	54	149	382	443	615	2,299	3,290	6,420	9,829	29,866	32,615	32,943	33,653	34,120
Men	1	51	147	359	399	522	1,946	2,861	5,804	8,801	25,890	22,943	21,700	21,819	22,099
Women	0	3	2	23	44	93	353	429	616	1,028	3,976	9,672	11,243	11,834	12,021
<b>Finances, in thousands of dollars</b>															
Total current-fund revenue	—	—	—	—	\$76,883	\$199,922	\$554,511	\$71	\$2,374,645	\$5,785,537	\$21,515,242	\$58,519,982	\$92,472,694	\$100,437,616	—
Educational and general income	—	—	\$21,464	\$35,084	67,917	172,929	483,065	571,288	1,833,845	4,688,352	16,486,177	—	—	—	—
Total current-fund expenditures	—	—	—	—	—	—	507,142	674,668	2,245,661	5,601,376	21,043,113	56,913,588	89,951,263	97,535,742	—
Educational and general expenditures	—	—	—	—	—	—	377,903	521,990	1,706,444	4,513,208	15,788,699	44,542,843	70,061,324	76,127,965	—
Value of physical property	—	—	95,426	253,599	460,532	741,333	2,065,050	* 2,753,780	4,799,964	13,448,548	42,093,580	83,733,367	114,763,986	122,261,355	—
Endowment funds <sup>8</sup>	—	—	78,788	194,998	323,661	569,071	1,512,023	1,764,804	2,644,323	5,571,121	<sup>10</sup> 10,853,616	<sup>10</sup> 18,561,472	<sup>10</sup> 33,399,110	<sup>10</sup> 36,698,162	—

<sup>1</sup> Prior to 1979-80, excludes branch campuses  
<sup>2</sup> Total number of different individuals (not reduced to full-time equivalent) Beginning in 1959-60, data are for the first term of the academic year. Beginning in 1969-70, data include only instructional faculty with the rank of instructor or above  
<sup>3</sup> Estimated  
<sup>4</sup> Estimated number of senior instructional staff. Excludes graduate assistants  
<sup>5</sup> Data for 1869-70 to 1949-50 are for resident degree-credit students who enrolled at any time during the academic year  
<sup>6</sup> From 1869-70 to 1959-60, first-professional degrees included under bachelor's degrees  
<sup>7</sup> Beginning in 1969-70, includes all master's degrees  
<sup>8</sup> Includes unexpended plant funds

<sup>9</sup> Book value. Includes other nonexpendable funds  
<sup>10</sup> Endowment funds only  
 —Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, Biennial Survey of Education in the United States, Education Directory, Colleges and Universities, Faculty and Other Professional Staff in Institutions of Higher Education, Fall Enrollment in Colleges and Universities, Earned Degrees Conferred, Financial Statistics of Institutions of Higher Education, and "Fall Enrollment in Institutions of Higher Education," "Degrees and Other Formal Awards Conferred," and "Financial Statistics of Institutions of Higher Education" surveys, and Integrated Education Data System (IPEDS), "Fall Enrollment" and "Completions" surveys (This table was prepared May 1989)

**Table 148.—Total enrollment in institutions of higher education, by attendance status, sex of student, and control of institution: Fall 1957 to fall 1987**

Year	Total enrollment	Attendance status		Sex of student		Control of institution			
		Full-time	Part-time	Men	Women	Public	Private		
							Total	Nonprofit	Proprietary
1	2	3	4	5	6	7	8	9	10
1957	3,323,763	—	—	2,170,765	1,153,018	1,972,673	1,351,110	—	—
1959	3,639,847	2,180,982	<sup>1</sup> 1,458,865	2,332,617	1,307,230	2,180,982	1,458,865	—	—
1961	4,145,065	2,561,447	<sup>1</sup> 1,583,618	2,585,821	1,559,244	2,561,447	1,583,618	—	—
1963	4,779,609	3,081,279	<sup>1</sup> 1,698,330	2,961,540	1,818,069	3,081,279	1,698,330	—	—
1964	5,280,020	3,467,708	<sup>1</sup> 1,812,312	3,248,713	2,031,307	3,467,708	1,812,312	—	—
1965	5,920,864	3,969,596	<sup>1</sup> 1,951,268	3,630,020	2,290,844	3,969,596	1,951,268	—	—
1966	6,389,872	4,438,606	<sup>1</sup> 1,951,266	3,856,216	2,533,656	4,348,917	2,040,955	—	—
1967	8,911,748	4,793,128	<sup>1</sup> 2,118,620	4,132,800	2,776,948	4,816,028	2,095,720	—	—
1968	7,513,091	5,210,155	2,302,936	4,477,649	3,035,442	5,430,652	2,082,439	—	—
1969	8,004,660	5,499,863	2,505,777	4,746,201	3,258,459	5,896,868	2,107,792	—	—
1970	8,580,887	5,818,290	2,764,597	5,043,642	3,537,245	6,428,134	2,152,753	—	—
1971	8,948,644	6,077,232	2,871,412	5,207,004	3,741,640	6,804,309	2,144,335	—	—
1972	9,214,860	6,072,389	3,142,471	5,238,757	3,978,103	7,070,635	2,144,225	—	—
1973	9,602,123	6,189,493	3,412,630	5,371,052	4,231,071	7,418,518	2,182,607	—	—
1974	10,223,729	6,370,273	3,653,456	5,622,429	4,601,300	7,988,500	2,235,229	—	—
1975	11,184,859	6,841,334	4,343,525	6,148,997	5,035,862	8,834,508	2,350,351	—	—
1976	11,012,137	8,717,058	4,295,079	5,810,828	5,201,309	8,653,477	2,358,660	2,314,298	44,362
1977	11,285,787	6,792,925	4,492,862	5,789,016	5,496,771	8,846,993	2,438,794	2,386,852	52,142
1978	11,280,092	8,667,657	4,592,435	5,640,998	5,618,094	8,785,893	2,474,199	2,408,331	85,868
1979	11,569,899	6,794,039	4,775,860	5,682,877	5,887,022	9,038,822	2,533,077	2,481,773	71,304
1980	12,096,895	7,097,958	4,998,937	5,874,374	6,222,521	9,457,394	2,639,501	2,527,787	<sup>2</sup> 111,714
1981	12,371,672	7,181,250	5,190,422	5,975,056	6,396,618	9,647,032	2,724,640	2,572,405	<sup>2</sup> 152,235
1982	12,425,780	7,220,618	5,205,182	6,031,384	6,394,396	9,896,087	2,729,693	2,552,739	<sup>2</sup> 178,954
1983	12,464,661	7,281,050	5,203,811	6,023,725	6,440,936	9,682,734	2,781,927	2,589,187	192,740
1984	12,241,940	7,098,388	5,143,552	5,863,574	6,378,366	9,477,370	2,764,570	2,574,419	190,151
1985	12,247,055	7,075,221	5,171,834	5,818,450	6,428,605	9,479,273	2,787,782	2,571,791	195,991
1986 <sup>3</sup>	12,504,501	7,120,076	5,384,425	5,884,976	6,619,525	9,714,709	2,789,792	2,572,651	<sup>4</sup> 217,141
1987 <sup>5</sup>	12,768,307	7,231,506	5,538,801	5,932,131	6,836,176	9,975,064	2,793,243	2,602,205	191,038

<sup>1</sup> Includes part-time resident students and all extension students  
<sup>2</sup> Large increases are due to the addition of schools accredited by the National Association of Trade and Technical Schools  
<sup>3</sup> Data have been revised from previously published figures  
<sup>4</sup> Because of imputation techniques, data are not consistent with figures for other years.  
<sup>5</sup> Preliminary data.

--Data not available

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)



**Table 149.—Total enrollment in 4-year and 2-year institutions of higher education, by control of institution:  
Fall 1963 to fall 1987**

Year	All institutions			Public institutions			Private institutions		
	Total	4-year	2-year	Total	4-year	2-year	Total	4-year	2-year
1	2	3	4	5	6	7	8	9	10
1963 <sup>1</sup> .....	4,778,609	3,929,248	850,361	3,081,279	2,341,468	739,811	1,698,330	1,587,780	110,550
1964 <sup>1</sup> .....	5,280,020	4,291,094	988,926	3,487,708	2,592,929	874,779	1,812,312	1,698,185	114,147
1965 <sup>1</sup> .....	5,920,864	4,747,912	1,172,952	3,969,596	2,928,332	1,041,264	1,951,268	1,819,580	131,688
1966 <sup>1</sup> .....	6,389,872	5,063,902	1,325,970	4,348,917	3,159,748	1,189,169	2,040,955	1,904,154	136,801
1967 <sup>1</sup> .....	6,911,748	5,398,986	1,512,762	4,816,026	3,443,975	1,372,053	2,095,720	1,955,011	140,709
1968 <sup>1</sup> .....	7,513,091	5,720,795	1,792,296	5,430,652	3,784,178	1,646,474	2,082,439	1,936,617	145,822
1969 <sup>1</sup> .....	8,004,660	6,028,002	1,976,658	5,896,868	4,050,144	1,846,724	2,107,792	1,977,658	129,934
1970.....	8,590,887	6,261,502	2,319,385	6,428,134	4,232,722	2,195,412	2,152,753	2,028,780	123,973
1971 <sup>1</sup> .....	8,948,644	6,462,733	2,485,911	6,804,309	4,438,442	2,365,867	2,144,335	2,024,291	120,044
1972.....	9,214,860	6,458,674	2,756,188	7,070,635	4,429,896	2,640,939	2,144,225	2,028,878	115,247
1973.....	9,602,123	6,592,074	3,010,049	7,419,516	4,529,895	2,889,821	2,182,607	2,062,179	120,428
1974.....	10,223,729	6,819,735	3,403,994	7,988,500	4,703,018	3,285,482	2,235,229	2,116,717	118,512
1975.....	11,184,859	7,214,740	3,970,119	8,834,508	4,998,142	3,836,366	2,350,351	2,216,598	133,753
1976.....	11,012,137	7,128,816	3,883,321	8,653,477	4,901,691	3,751,786	2,358,610	2,227,125	131,535
1977.....	11,285,767	7,242,845	4,042,942	8,846,993	4,945,224	3,901,769	2,438,794	2,297,621	141,173
1978.....	11,260,092	7,231,951	4,028,141	8,785,893	4,912,203	3,873,690	2,474,199	2,319,748	154,451
1979.....	11,569,899	7,353,233	4,216,666	9,036,822	4,980,012	4,056,810	2,533,077	2,373,221	159,856
1980.....	12,096,895	7,570,608	4,526,287	9,457,394	5,126,612	4,326,762	2,639,501	2,441,996	<sup>2</sup> 197,505
1981.....	12,371,672	7,655,481	4,716,211	9,647,032	5,166,324	4,480,708	2,724,640	2,489,137	<sup>2</sup> 235,503
1982.....	12,425,780	7,654,074	4,771,706	9,696,087	5,176,434	4,519,653	2,729,693	2,477,640	252,053
1983.....	12,464,661	7,741,195	4,723,466	9,682,734	5,223,404	4,459,330	2,781,927	2,517,791	264,136
1984.....	12,241,940	7,711,167	4,530,773	9,477,370	5,198,273	4,279,097	2,764,570	2,512,894	251,676
1985.....	12,247,055	7,715,978	4,531,077	9,479,273	5,209,540	4,269,733	2,767,782	2,506,438	261,344
1986 <sup>3</sup> .....	12,504,501	7,824,502	4,679,999	9,714,709	5,300,580	4,414,129	2,780,792	2,523,922	<sup>4</sup> 265,870
1987 <sup>4</sup> .....	12,768,307	7,992,085	4,776,222	9,975,064	5,434,019	4,541,054	2,793,243	2,558,075	235,168

<sup>1</sup> Data for 2-year branch campuses of 4-year institutions are included with the 4-year institutions

<sup>2</sup> Large increases are due to the addition of schools accredited by the National Association of Trade and Technical Schools in 1980 and 1981

<sup>3</sup> Data have been revised from previously published figures

<sup>4</sup> Because of imputation techniques, data are not consistent with figures for other years

<sup>5</sup> Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)

**Table 150.—Total enrollment in institutions of higher education, by attendance status, sex, and age: Fall 1970 to 1990**

(In thousands)

Sex and age	1970			1975			1980			1985			1986			1988 (estimated)			1990 (projected)		
	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time	Total	Full-time	Part-time
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
<b>Men and women, total</b> .....	<b>8,661</b>	<b>5,615</b>	<b>2,706</b>	<b>11,165</b>	<b>6,841</b>	<b>4,344</b>	<b>12,097</b>	<b>7,096</b>	<b>4,999</b>	<b>12,247</b>	<b>7,075</b>	<b>5,172</b>	<b>12,506</b>	<b>7,120</b>	<b>5,384</b>	<b>12,849</b>	<b>7,371</b>	<b>5,478</b>	<b>13,213</b>	<b>7,428</b>	<b>5,785</b>
14 to 17 years old .....	259	242	17	276	242	36	247	216	31	235	203	32	200	182	18	248	163	85	226	140	86
18 and 19 years old .....	2,600	2,408	194	2,786	2,510	276	2,901	2,580	320	2,600	2,322	276	2,727	2,415	312	2,909	2,597	312	3,022	2,639	383
20 and 21 years old .....	1,880	1,647	233	2,243	1,854	390	2,423	2,060	364	2,383	1,975	408	2,206	1,813	392	2,392	1,958	434	2,565	2,051	514
22 to 24 years old .....	1,457	881	576	1,754	1,008	746	1,969	1,174	615	1,933	1,227	705	2,100	1,323	777	1,967	1,238	729	1,913	1,179	735
25 to 29 years old .....	1,074	407	666	1,774	692	1,082	1,671	610	1,261	1,953	695	1,258	1,941	699	1,242	1,938	714	1,224	1,901	691	1,210
30 to 34 years old .....	487	100	388	967	279	687	1,243	264	979	1,261	310	951	1,301	335	966	1,326	325	1,001	1,360	327	1,033
35 years old and over .....	623	134	489	1,383	256	1,127	1,422	193	1,229	1,865	345	1,540	2,030	355	1,675	2,069	377	1,692	2,227	401	1,826
<b>Men total</b> .....	<b>5,044</b>	<b>3,505</b>	<b>1,540</b>	<b>6,149</b>	<b>3,926</b>	<b>2,222</b>	<b>5,674</b>	<b>3,689</b>	<b>2,185</b>	<b>5,616</b>	<b>3,606</b>	<b>2,211</b>	<b>5,885</b>	<b>3,600</b>	<b>2,285</b>	<b>5,948</b>	<b>3,636</b>	<b>2,310</b>	<b>6,010</b>	<b>3,593</b>	<b>2,417</b>
14 to 17 years old .....	130	124	5	126	109	17	99	64	15	121	102	19	84	76	8	111	75	36	106	64	41
18 and 19 years old .....	1,349	1,265	84	1,397	1,269	128	1,375	1,229	146	1,230	1,108	122	1,312	1,161	131	1,377	1,226	149	1,410	1,231	179
20 and 21 years old .....	1,095	990	105	1,245	1,053	192	1,259	1,104	154	1,216	1,027	169	1,090	923	167	1,170	974	196	1,229	996	233
22 to 24 years old .....	984	650	314	1,047	686	362	1,064	667	377	1,048	730	316	1,065	720	366	990	668	322	933	617	316
25 to 29 years old .....	783	327	456	1,122	474	649	993	379	615	991	395	596	1,026	410	618	969	394	595	962	376	584
30 to 34 years old .....	308	72	236	557	184	373	576	129	447	574	149	424	605	187	438	590	162	428	602	163	439
35 years old and over .....	415	75	340	654	152	502	507	77	430	639	97	542	683	121	562	715	134	581	768	145	624
<b>Women, total</b> .....	<b>3,537</b>	<b>2,311</b>	<b>1,225</b>	<b>5,036</b>	<b>2,915</b>	<b>2,120</b>	<b>6,223</b>	<b>3,409</b>	<b>2,814</b>	<b>6,429</b>	<b>3,468</b>	<b>2,961</b>	<b>6,619</b>	<b>3,520</b>	<b>3,099</b>	<b>6,904</b>	<b>3,735</b>	<b>3,169</b>	<b>7,203</b>	<b>3,835</b>	<b>3,368</b>
14 to 17 years old .....	129	117	12	152	133	19	148	132	17	113	101	12	116	104	12	137	88	49	121	78	45
18 and 19 years old .....	1,250	1,140	110	1,389	1,241	147	1,526	1,352	174	1,370	1,214	156	1,415	1,234	161	1,532	1,369	163	1,612	1,409	203
20 and 21 years old .....	766	657	128	998	800	198	1,185	955	209	1,166	948	216	1,115	890	225	1,222	984	238	1,336	1,055	261
22 to 24 years old .....	493	231	262	706	322	384	925	487	438	885	497	388	1,014	504	411	977	570	407	980	561	419
25 to 29 years old .....	291	80	212	652	216	433	676	232	646	962	299	662	916	269	626	949	320	629	939	313	626
30 to 34 years old .....	179	28	151	410	95	315	667	135	531	687	161	527	696	166	530	736	163	573	757	164	593
35 years old and over .....	409	59	349	729	105	625	914	115	799	1,246	248	998	1,347	233	1,114	1,354	243	1,111	1,456	258	1,202

NOTE—Distribution by age is based on samples of the civilian noninstitutional population. Because of rounding, details may not add to totals.

and Projections of Education Statistics to 2000, and U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, "Social and Economic Characteristics of Students," various years. (This table was prepared May 1989.)

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education" surveys, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey,

Table 151.—Total enrollment in institutions of higher education, by level, sex, age, and attendance status of student: Fall 1987<sup>1</sup>

Attendance status and age of student	All levels			Undergraduate			First-professional			Graduate		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13
All students.....	12,768,307	5,932,131	6,836,176	11,047,902	5,068,684	5,979,218	268,487	170,133	98,334	1,451,938	693,314	758,624
Under 18.....	207,065	87,168	119,917	206,271	86,732	119,539	47	33	14	767	403	364
18 and 19.....	2,696,652	1,253,984	1,442,668	2,695,692	1,253,615	1,442,277	194	106	88	566	263	303
20 to 21.....	2,392,036	1,168,820	1,223,216	2,375,396	1,160,289	1,215,109	7,269	4,102	3,167	9,371	4,429	4,942
22 to 24.....	2,025,725	1,078,295	947,490	1,724,576	915,014	809,562	99,644	63,161	36,463	201,505	100,040	101,465
25 to 29.....	1,839,918	926,756	913,160	1,327,826	639,577	688,251	95,381	63,701	31,680	416,707	223,478	193,229
30 to 34.....	1,242,344	558,441	683,903	921,185	386,317	534,868	33,065	20,691	12,374	286,114	151,433	134,681
35 to 39.....	882,763	337,774	544,989	647,586	231,380	416,216	16,159	9,368	6,791	219,006	97,026	121,982
40 to 49.....	872,120	288,231	583,889	654,007	209,118	444,889	9,696	4,959	4,939	206,215	74,154	134,061
50 to 64.....	291,698	98,283	193,435	238,029	80,086	157,943	2,076	1,114	964	51,591	17,063	34,528
65 and over.....	102,841	36,507	64,134	94,775	33,904	60,971	272	156	116	7,494	4,447	3,047
Age unknown.....	215,325	95,952	119,373	182,265	72,652	69,613	4,460	2,722	1,738	48,670	20,578	28,022
Full-time.....	7,231,506	3,610,918	3,620,588	6,463,066	3,163,754	3,299,312	241,804	153,661	88,143	526,636	293,503	233,133
Under 18.....	113,838	48,513	65,425	113,859	48,348	65,511	45	31	14	234	134	100
18 and 19.....	2,331,202	1,088,972	1,242,230	2,330,703	1,088,703	1,242,000	190	103	67	309	166	143
20 to 21.....	1,919,332	948,534	970,798	1,905,791	941,234	964,557	7,170	4,037	3,133	6,371	3,263	3,108
22 to 24.....	1,251,794	648,068	603,726	1,034,266	590,086	444,202	96,885	61,446	35,439	120,841	61,078	58,085
25 to 29.....	727,279	412,056	315,223	482,354	248,357	215,997	86,390	57,807	28,583	176,535	107,692	70,643
30 to 34.....	371,825	181,798	190,027	248,644	107,274	141,370	26,779	16,882	10,097	96,402	57,642	38,580
35 to 39.....	217,470	90,852	126,618	148,050	53,779	94,271	12,130	6,968	5,162	57,290	30,105	27,185
40 to 49.....	170,162	52,798	107,366	119,511	41,948	77,565	6,737	3,296	3,441	43,914	17,554	26,360
50 to 64.....	38,224	14,556	23,668	27,116	10,122	16,994	1,261	683	576	9,847	3,751	6,096
65 and over.....	9,330	5,463	3,867	6,565	3,209	3,356	187	113	84	2,568	2,141	427
Age unknown.....	60,950	41,290	39,680	68,405	32,716	33,689	4,020	2,495	1,525	10,525	6,079	4,446
Part-time.....	5,536,801	2,321,213	3,215,588	4,584,836	1,904,930	2,679,906	26,663	16,472	10,191	325,302	399,611	525,491
Under 18.....	93,147	38,655	54,492	92,612	38,384	54,228	2	2	0	533	269	264
18 and 19.....	365,771	165,012	200,438	365,169	164,912	200,277	9	3	1	257	97	180
20 to 21.....	477,707	220,266	257,420	469,807	219,055	250,752	89	65	34	3,000	1,166	1,834
22 to 24.....	773,931	362,147	411,784	690,306	324,948	365,360	2,759	1,735	1,024	80,864	35,464	45,400
25 to 29.....	1,112,637	514,700	597,937	865,477	383,220	472,254	6,991	5,899	3,097	238,172	115,586	122,586
30 to 34.....	670,519	376,643	493,876	672,521	279,043	393,476	6,286	4,009	2,277	191,712	93,591	96,121
35 to 39.....	665,293	246,922	416,371	499,546	177,801	321,945	4,029	2,400	1,629	181,716	68,921	94,797
40 to 49.....	701,958	225,435	476,523	534,496	187,172	367,324	3,161	1,683	1,498	184,301	58,800	107,701
50 to 64.....	253,474	83,707	169,767	210,913	69,964	140,949	617	431	386	41,744	13,312	28,432
65 and over.....	93,311	33,044	60,267	89,310	30,695	57,615	75	43	32	4,926	2,308	2,620
Age unknown.....	134,375	54,662	79,713	95,690	39,936	55,924	440	227	213	38,075	14,499	23,576

## Percentage distribution

All students.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 18.....	1.6	1.5	1.8	1.9	1.7	2.0	0.0	0.0	0.0	0.0	0.1	0.0
18 and 19.....	21.1	21.1	21.1	24.4	24.7	24.1	0.1	0.1	0.1	0.0	0.0	0.0
20 to 21.....	18.7	19.7	17.9	21.5	22.9	20.3	2.7	2.4	3.2	0.6	0.6	0.7
22 to 24.....	15.9	16.2	13.9	15.6	16.1	13.5	37.1	37.1	37.1	13.9	14.4	13.4
25 to 29.....	14.4	15.8	13.4	12.0	12.6	11.5	35.5	37.4	32.2	28.7	32.2	25.5
30 to 34.....	9.7	9.4	10.0	8.3	7.6	6.9	12.3	12.2	12.6	19.6	21.6	16.0
35 to 39.....	6.9	5.7	6.0	5.9	4.6	7.0	6.0	5.5	6.9	15.1	14.0	16.1
40 to 49.....	6.6	4.9	6.5	5.9	4.1	7.4	3.7	2.9	5.0	14.3	10.7	17.7
50 to 64.....	2.3	1.7	2.8	2.2	1.6	2.6	0.6	0.7	1.0	3.6	2.5	4.6
65 and over.....	0.6	0.6	0.9	0.9	0.7	1.0	0.1	0.1	0.1	0.5	0.6	0.4
Age unknown.....	1.7	1.6	1.7	1.5	1.4	1.5	1.7	1.6	1.6	3.3	3.0	3.7
Full-time.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 18.....	1.6	1.3	1.6	1.6	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18 and 19.....	32.2	30.2	34.3	38.1	34.4	37.6	0.1	0.1	0.1	0.1	0.1	0.1
20 to 21.....	26.5	26.3	26.8	29.5	29.6	29.2	3.0	2.6	3.6	1.2	1.1	1.3
22 to 24.....	17.3	19.6	14.8	16.0	18.7	13.5	40.1	40.0	40.2	22.9	22.0	24.0
25 to 29.....	10.1	11.4	8.7	7.2	7.6	6.5	35.7	37.6	32.4	33.9	36.6	30.3
30 to 34.....	5.1	5.0	5.2	3.6	3.4	4.3	11.1	10.9	11.5	16.3	19.7	16.5
35 to 39.....	3.0	2.5	3.5	2.3	1.7	2.9	5.0	4.5	5.9	10.9	10.3	11.7
40 to 49.....	2.4	1.7	3.0	1.6	1.3	2.4	2.6	2.1	3.9	6.3	6.0	11.3
50 to 64.....	0.5	0.4	0.7	0.4	0.3	0.5	0.5	0.4	0.7	1.9	1.3	2.6
65 and over.....	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.7	0.2
Age unknown.....	1.1	1.1	1.1	1.0	1.0	1.0	1.7	1.6	1.7	2.0	2.1	1.9
Part-time.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Under 18.....	1.7	1.7	1.7	2.0	2.0	2.0	0.0	0.0	0.0	0.1	0.1	0.1
18 and 19.....	6.6	7.1	6.2	6.0	6.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0
20 to 21.....	8.5	9.5	7.8	10.2	11.5	9.3	0.4	0.4	0.3	0.3	0.3	0.3
22 to 24.....	14.0	15.6	12.8	15.1	17.1	13.6	10.3	10.5	10.0	6.7	8.9	6.6
25 to 29.....	20.1	22.2	16.8	16.9	20.6	17.6	33.7	35.6	30.4	25.7	28.9	23.3
30 to 34.....	15.7	16.2	15.4	7.4	14.6	14.7	23.6	24.3	22.3	20.7	23.4	16.7
35 to 39.....	12.0	10.6	13.0	10.9	9.3	12.0	15.1	14.6	16.0	17.5	16.7	18.0
40 to 49.....	12.7	9.7	14.8	11.7	6.6	13.7	11.9	10.1	14.7	17.6	14.2	20.5
50 to 64.....	4.6	3.6	5.3	4.6	3.7	5.3	3.1	2.6	3.6	4.5	3.3	5.4
65 and over.....	1.7	1.4	1.9	1.9	1.6	2.1	0.3	0.3	0.3	0.5	0.6	0.5
Age unknown.....	2.4	2.4	2.5	2.1	2.1	2.1	1.7	1.4	2.1	4.1	3.6	4.5

<sup>1</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment, 1987" survey (This table was prepared February 1989)

**Table 152.—Total enrollment in institutions of higher education, by type and control of institution, and age and attendance status of student: Fall 1987<sup>1</sup>**

Attendance status and age of student	All institutions			Public institutions			Private institutions		
	Total	4-year	2-year	Total	4-year	2-year	Total	4-year	2-year
1	2	3	4	5	6	7	8	9	10
<b>All students</b> .....	<b>12,768,307</b>	<b>7,982,085</b>	<b>4,778,222</b>	<b>9,875,084</b>	<b>5,434,010</b>	<b>4,541,054</b>	<b>2,793,243</b>	<b>2,558,075</b>	<b>235,168</b>
Under 18.....	207,085	114,510	92,575	154,713	86,232	68,481	52,372	48,278	4,094
18 and 19.....	2,696,852	1,761,544	935,108	2,056,871	1,191,350	865,521	639,781	570,194	69,587
20 to 21.....	2,392,038	1,735,485	858,553	1,817,443	1,198,031	819,412	574,595	537,454	37,141
22 to 24.....	2,025,725	1,408,564	616,181	1,609,102	1,028,462	580,640	416,623	381,102	35,521
25 to 29.....	1,839,916	1,107,823	732,093	1,439,550	740,906	698,644	400,368	366,917	33,449
30 to 34.....	1,242,344	678,718	565,626	991,389	447,802	543,587	250,955	228,916	22,039
35 to 39.....	882,763	474,892	407,871	707,179	312,430	394,749	175,584	162,462	13,122
40 to 49.....	872,120	428,264	443,856	709,539	274,526	435,013	162,581	153,738	8,843
50 to 64.....	291,698	107,484	184,214	249,162	87,226	161,936	42,518	40,258	2,258
65 and over.....	102,641	22,430	80,211	93,232	13,636	79,596	9,409	8,794	615
Age unknown.....	215,325	153,371	61,954	146,864	93,409	53,455	68,481	59,962	8,499
<b>Full-time</b> .....	<b>7,231,506</b>	<b>5,522,837</b>	<b>1,708,669</b>	<b>5,267,480</b>	<b>3,365,668</b>	<b>1,530,912</b>	<b>1,984,026</b>	<b>1,786,269</b>	<b>177,757</b>
Under 18.....	113,938	85,845	28,293	74,740	49,720	25,020	39,198	35,925	3,273
18 and 19.....	2,331,202	1,669,573	861,829	1,715,151	1,118,159	596,992	618,051	551,414	64,637
20 to 21.....	1,919,332	1,578,277	341,055	1,387,303	1,075,818	311,687	532,020	502,861	29,368
22 to 24.....	1,251,794	1,039,003	212,791	940,892	754,172	186,720	310,902	284,831	26,071
25 to 29.....	727,279	552,098	175,181	520,748	367,539	153,207	206,533	184,559	21,974
30 to 34.....	371,825	253,351	118,474	272,375	167,717	104,658	99,450	85,634	13,816
35 to 39.....	217,470	145,171	72,299	155,825	91,330	64,495	61,845	53,841	7,804
40 to 49.....	170,162	107,981	62,181	121,802	63,858	57,744	48,580	44,123	4,437
50 to 64.....	38,224	22,905	15,919	26,189	11,199	14,990	12,035	11,106	929
65 and over.....	9,330	5,989	3,341	5,384	2,121	3,273	3,837	3,868	68
Age unknown.....	80,950	63,444	17,506	47,263	35,137	12,126	33,527	28,307	5,300
<b>Part-time</b> .....	<b>5,536,801</b>	<b>2,469,248</b>	<b>3,069,553</b>	<b>4,707,584</b>	<b>1,897,442</b>	<b>3,010,142</b>	<b>829,217</b>	<b>771,806</b>	<b>57,411</b>
Under 18.....	93,147	28,665	64,262	79,873	16,512	63,461	13,174	12,353	821
18 and 19.....	365,450	91,971	273,479	341,720	73,191	268,529	23,730	18,760	4,950
20 to 21.....	472,706	157,208	315,498	430,140	122,415	307,725	42,568	34,783	7,773
22 to 24.....	773,931	370,561	403,370	668,210	274,290	393,920	105,721	96,271	9,450
25 to 29.....	1,112,837	555,725	556,912	918,804	373,367	545,437	193,833	162,358	11,475
30 to 34.....	870,519	423,367	447,152	719,014	280,085	438,929	151,505	143,282	8,223
35 to 39.....	665,293	329,721	335,572	551,354	221,100	330,254	113,939	108,621	5,318
40 to 49.....	701,958	320,283	381,875	587,937	210,668	377,269	114,021	109,815	4,406
50 to 64.....	253,474	85,179	168,295	222,993	58,027	166,966	30,481	29,152	1,329
65 and over.....	93,311	18,441	78,870	87,838	11,515	76,323	5,473	4,928	547
Age unknown.....	134,375	69,927	44,448	99,601	58,272	41,329	34,774	31,855	3,119

Percentage distribution

All students..	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0	100 0
Under 18.....	1.8	1.4	1.9	1.8	1.2	1.9	1.9	1.9	1.7
18 and 19.....	21.1	22.0	19.6	20.6	21.9	19.1	22.9	22.3	29.6
20 to 21.....	18.7	21.7	13.7	18.2	22.0	13.6	20.8	21.0	15.6
22 to 24.....	15.9	17.6	12.9	18.1	18.9	12.8	14.9	14.9	15.1
25 to 29.....	14.4	13.9	15.3	14.4	13.8	15.4	14.3	14.3	14.2
30 to 34.....	9.7	6.5	11.8	9.9	8.2	12.0	9.0	8.9	9.4
35 to 39.....	6.9	5.9	8.5	7.1	5.7	8.7	6.3	6.4	5.6
40 to 49.....	6.6	5.4	9.3	7.1	5.1	9.6	5.8	6.0	3.8
50 to 64.....	2.3	1.3	3.9	2.5	1.2	4.0	1.5	1.6	1.0
65 and over.....	0.8	0.3	1.7	0.9	0.3	1.8	0.3	0.3	0.3
Age unknown.....	1.7	1.9	1.3	1.5	1.7	1.2	2.5	2.3	3.6
<b>Full-time</b> .....	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>
Under 18.....	1.8	1.6	1.7	1.4	1.3	1.8	2.0	2.0	1.6
18 and 19.....	32.2	30.2	38.7	32.6	29.9	39.0	31.4	30.9	36.4
20 to 21.....	26.5	28.6	20.0	26.3	28.6	20.4	27.1	28.1	18.5
22 to 24.....	17.3	18.8	12.5	17.9	20.2	12.2	15.8	15.9	14.7
25 to 29.....	10.1	10.0	10.3	9.9	9.6	10.0	10.5	10.3	12.4
30 to 34.....	5.1	4.6	6.9	5.2	4.5	6.6	5.1	4.6	7.6
35 to 39.....	3.0	2.6	4.2	3.0	2.4	4.2	3.1	3.0	4.4
40 to 49.....	2.4	2.0	3.6	2.3	1.7	3.8	2.5	2.5	2.5
50 to 64.....	0.5	0.4	0.9	0.5	0.3	1.0	0.6	0.6	0.5
65 and over.....	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.0
Age unknown.....	1.1	1.1	1.0	0.9	0.9	0.6	1.7	1.6	3.0
<b>Part-time</b> .....	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>	<b>100 0</b>
Under 18.....	1.7	1.2	2.1	1.7	1.0	2.1	1.6	1.6	1.4
18 and 19.....	6.6	3.7	8.9	7.3	4.3	8.9	2.9	2.4	8.6
20 to 21.....	6.5	8.4	10.3	9.1	7.2	10.2	5.1	4.5	13.5
22 to 24.....	14.0	15.0	13.1	14.2	18.2	13.1	12.7	12.5	16.5
25 to 29.....	20.1	22.5	18.2	19.5	22.0	18.1	23.4	23.6	20.0
30 to 34.....	15.7	17.1	14.6	15.3	16.5	14.6	16.3	16.6	14.3
35 to 39.....	12.0	13.4	10.9	11.7	13.0	11.0	13.7	14.1	9.3
40 to 49.....	12.7	13.0	12.4	12.5	12.4	12.5	13.8	14.2	7.7
50 to 64.....	4.6	3.4	5.5	4.7	3.3	5.5	3.7	3.6	2.3
65 and over.....	1.7	0.7	2.5	1.9	0.7	2.5	0.7	0.6	1.0
Age unknown.....	2.4	3.6	1.4	2.1	3.4	1.4	4.2	4.1	5.4

<sup>1</sup> Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment, 1987" survey (This table was prepared February 1989)

**Table 153.—Total enrollment in institutions of higher education, by level of enrollment, sex, attendance status, and type and control of institution: Fall 1987<sup>1</sup>**

Attendance status, and type and control of institution	Total			Undergraduate			First-professional			Graduate		
	Total	Men	Women	Total	Men	Woman	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>12,768,307</b>	<b>6,932,131</b>	<b>6,836,176</b>	<b>11,047,902</b>	<b>5,068,684</b>	<b>5,979,218</b>	<b>268,467</b>	<b>170,133</b>	<b>96,334</b>	<b>1,451,938</b>	<b>693,314</b>	<b>758,624</b>
Full-time.....	7,231,506	3,810,916	3,820,588	6,483,086	3,163,754	3,299,312	241,804	153,661	88,143	526,636	293,503	233,133
Part-time.....	5,536,801	2,321,213	3,215,588	4,564,836	1,904,930	2,679,906	26,663	16,472	10,191	925,302	399,811	525,491
<b>Total 4-year</b> .....	<b>7,992,085</b>	<b>3,859,308</b>	<b>4,132,777</b>	<b>6,271,680</b>	<b>2,995,861</b>	<b>3,275,819</b>	<b>268,467</b>	<b>170,133</b>	<b>96,334</b>	<b>1,451,938</b>	<b>693,314</b>	<b>758,624</b>
Full-time.....	5,522,837	2,790,751	2,732,086	4,754,397	2,343,587	2,410,810	241,804	153,661	88,143	526,636	293,503	233,133
Part-time.....	2,469,248	1,068,557	1,400,691	1,517,283	652,274	865,009	26,663	16,472	10,191	925,302	399,811	525,491
<b>Total 2-year</b> .....	<b>4,776,222</b>	<b>2,072,823</b>	<b>2,703,399</b>	<b>4,776,222</b>	<b>2,072,823</b>	<b>2,703,399</b>	—	—	—	—	—	—
Full-time.....	1,706,669	820,167	886,502	1,706,669	820,167	886,502	—	—	—	—	—	—
Part-time.....	3,069,553	1,252,656	1,814,897	3,069,553	1,252,656	1,814,897	—	—	—	—	—	—
<b>Public, total</b> .....	<b>9,975,084</b>	<b>4,573,624</b>	<b>5,401,440</b>	<b>8,920,364</b>	<b>4,076,823</b>	<b>4,843,741</b>	<b>110,291</b>	<b>68,155</b>	<b>42,136</b>	<b>944,409</b>	<b>426,846</b>	<b>515,563</b>
Full-time.....	5,267,480	2,626,203	2,641,277	4,826,396	2,375,532	2,449,866	105,375	65,449	39,926	336,707	165,222	151,485
Part-time.....	4,707,584	1,947,421	2,760,163	4,094,966	1,701,091	2,393,675	4,916	2,706	2,210	607,702	243,624	364,076
<b>Public 4-year</b> .....	<b>5,434,010</b>	<b>2,604,784</b>	<b>2,829,226</b>	<b>4,379,310</b>	<b>2,107,783</b>	<b>2,271,527</b>	<b>110,291</b>	<b>68,155</b>	<b>42,136</b>	<b>944,409</b>	<b>426,846</b>	<b>515,563</b>
Full-time.....	3,736,566	1,882,093	1,854,475	3,294,486	1,631,422	1,663,064	105,375	65,449	39,926	336,707	165,222	151,485
Part-time.....	1,697,442	722,691	974,751	1,084,824	476,361	608,463	4,916	2,706	2,210	607,702	243,624	364,076
<b>Public 2-year</b> .....	<b>4,541,054</b>	<b>1,968,840</b>	<b>2,572,214</b>	<b>4,541,054</b>	<b>1,968,840</b>	<b>2,572,214</b>	—	—	—	—	—	—
Full-time.....	1,530,912	744,110	786,802	1,530,912	744,110	786,802	—	—	—	—	—	—
Part-time.....	3,010,142	1,224,730	1,785,412	3,010,142	1,224,730	1,785,412	—	—	—	—	—	—
<b>Private, total</b> .....	<b>2,793,243</b>	<b>1,358,507</b>	<b>1,434,736</b>	<b>2,127,538</b>	<b>992,061</b>	<b>1,135,477</b>	<b>158,176</b>	<b>101,978</b>	<b>56,198</b>	<b>507,529</b>	<b>264,468</b>	<b>243,061</b>
Full-time.....	1,984,026	984,715	979,311	1,637,668	786,222	849,446	136,429	86,212	46,217	169,929	106,281	81,646
Part-time.....	829,217	373,792	455,425	489,870	203,839	286,031	21,747	13,766	7,981	317,600	156,187	161,413
<b>Private 4-year</b> .....	<b>2,556,075</b>	<b>1,254,524</b>	<b>1,303,551</b>	<b>1,692,370</b>	<b>886,076</b>	<b>1,004,292</b>	<b>158,176</b>	<b>101,978</b>	<b>56,198</b>	<b>507,529</b>	<b>264,468</b>	<b>243,061</b>
Full-time.....	1,786,269	906,658	877,611	1,459,911	712,165	747,746	136,429	86,212	46,217	169,929	106,281	81,646
Part-time.....	771,806	345,866	425,940	432,459	175,913	256,546	21,747	13,766	7,981	317,600	156,187	161,413
<b>Private 2-year</b> .....	<b>235,168</b>	<b>103,983</b>	<b>131,185</b>	<b>235,168</b>	<b>103,983</b>	<b>131,185</b>	—	—	—	—	—	—
Full-time.....	177,757	76,057	101,700	177,757	76,057	101,700	—	—	—	—	—	—
Part-time.....	57,411	27,926	29,485	57,411	27,926	29,485	—	—	—	—	—	—

<sup>1</sup> Preliminary data.  
—Data not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1987" survey (This table was prepared March 1989)

**Table 154.—Total enrollment in institutions of higher education, by level of enrollment, sex, attendance status, and type and control of institution: Fall 1986<sup>1</sup>**

Attendance status, and type and control of institution	Total			Undergraduate			First-professional			Graduate		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>12,504,501</b>	<b>5,884,976</b>	<b>6,619,525</b>	<b>10,798,800</b>	<b>5,017,378</b>	<b>5,780,924</b>	<b>270,413</b>	<b>173,862</b>	<b>96,551</b>	<b>1,435,288</b>	<b>693,238</b>	<b>742,050</b>
Full-time .....	7,120,078	3,599,295	3,520,781	6,352,508	3,146,527	3,205,981	245,855	158,566	87,089	521,913	294,202	227,711
Part-time .....	5,384,425	2,285,681	3,098,744	4,446,292	1,871,349	2,574,943	24,758	15,296	9,462	913,375	399,038	514,339
<b>Total 4-year</b> .....	<b>7,824,502</b>	<b>3,823,854</b>	<b>4,000,648</b>	<b>6,118,801</b>	<b>2,958,754</b>	<b>3,162,047</b>	<b>270,413</b>	<b>173,862</b>	<b>96,551</b>	<b>1,435,288</b>	<b>693,238</b>	<b>742,050</b>
Full-time .....	5,423,580	2,774,842	2,648,938	4,656,012	2,321,874	2,334,138	245,855	158,566	87,089	521,913	294,202	227,711
Part-time .....	2,400,922	1,049,212	1,351,710	1,462,789	636,880	827,909	24,758	15,296	9,462	913,375	399,038	514,339
<b>Total 2-year</b> .....	<b>4,679,999</b>	<b>2,061,122</b>	<b>2,618,877</b>	<b>4,679,999</b>	<b>2,061,122</b>	<b>2,618,877</b>	—	—	—	—	—	—
Full-time .....	1,696,496	824,653	871,843	1,696,496	824,653	871,843	—	—	—	—	—	—
Part-time .....	2,983,503	1,236,469	1,747,034	2,983,503	1,236,469	1,747,034	—	—	—	—	—	—
<b>Public, total</b> .....	<b>9,714,709</b>	<b>4,505,948</b>	<b>5,208,761</b>	<b>8,661,416</b>	<b>4,002,782</b>	<b>4,658,634</b>	<b>112,026</b>	<b>70,331</b>	<b>41,895</b>	<b>941,267</b>	<b>432,835</b>	<b>508,432</b>
Full-time .....	5,163,291	2,606,671	2,556,560	4,718,182	2,350,929	2,367,253	106,673	67,352	39,321	338,378	168,390	149,966
Part-time .....	4,551,478	1,899,277	2,652,201	3,943,234	1,651,853	2,291,381	5,353	2,979	2,374	602,891	244,445	358,446
<b>Public 4-year</b> .....	<b>5,300,580</b>	<b>2,570,825</b>	<b>2,729,755</b>	<b>4,247,287</b>	<b>2,067,859</b>	<b>2,179,828</b>	<b>112,026</b>	<b>70,331</b>	<b>41,895</b>	<b>941,267</b>	<b>432,835</b>	<b>508,432</b>
Full-time .....	3,657,130	1,864,602	1,792,528	3,212,081	1,606,860	1,603,221	106,673	67,352	39,321	338,378	168,390	149,966
Part-time .....	1,643,450	706,223	937,227	1,035,206	458,799	576,407	5,353	2,979	2,374	602,891	244,445	358,446
<b>Public 2-year</b> .....	<b>4,414,129</b>	<b>1,935,123</b>	<b>2,479,006</b>	<b>4,414,129</b>	<b>1,935,123</b>	<b>2,479,006</b>	—	—	—	—	—	—
Full-time .....	1,506,101	742,069	764,032	1,506,101	742,069	764,032	—	—	—	—	—	—
Part-time .....	2,908,028	1,193,054	1,714,974	2,908,028	1,193,054	1,714,974	—	—	—	—	—	—
<b>Private, total</b> .....	<b>2,789,792</b>	<b>1,379,028</b>	<b>1,410,764</b>	<b>2,137,384</b>	<b>1,015,094</b>	<b>1,122,290</b>	<b>158,387</b>	<b>103,531</b>	<b>54,856</b>	<b>494,021</b>	<b>260,403</b>	<b>233,618</b>
Full-time .....	1,856,645	892,624	964,221	1,634,326	795,598	838,728	138,982	91,214	47,768	183,537	105,812	77,725
Part-time .....	832,947	386,404	446,543	503,058	219,496	283,562	19,405	12,317	7,088	310,484	154,591	155,893
<b>Private 4-year</b> .....	<b>2,523,622</b>	<b>1,253,029</b>	<b>1,270,893</b>	<b>1,871,514</b>	<b>889,095</b>	<b>982,419</b>	<b>158,387</b>	<b>103,531</b>	<b>54,856</b>	<b>494,021</b>	<b>260,403</b>	<b>233,618</b>
Full-time .....	1,766,450	910,040	856,410	1,443,931	713,014	730,917	138,982	91,214	47,768	183,537	105,812	77,725
Part-time .....	757,472	342,989	414,483	427,583	176,081	251,502	19,405	12,317	7,088	310,484	154,591	155,893
<b>Private 2-year<sup>2</sup></b> .....	<b>265,870</b>	<b>125,999</b>	<b>139,871</b>	<b>265,870</b>	<b>125,999</b>	<b>139,871</b>	—	—	—	—	—	—
Full-time .....	190,395	82,584	107,811	190,395	82,584	107,811	—	—	—	—	—	—
Part-time .....	75,475	43,415	32,060	75,475	43,415	32,060	—	—	—	—	—	—

<sup>1</sup> Data have been revised from previously published figures  
<sup>2</sup> Because of imputation techniques, data are not consistent with figures for other years  
 —Data not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey (This table was prepared March 1989)

**Table 155.—Total enrollment in institutions of higher education, by control and type of institution: Fall 1975 to fall 1987**

Year	All institutions				Public institutions				Private institutions			
	Total	Universities	Other 4-year colleges	2-year colleges	Total	Universities	Other 4-year colleges	2-year colleges	Total	Universities	Other 4-year colleges	2-year colleges
1	2	3	4	5	6	7	8	9	10	11	12	13
1975 .....	11,184,859	2,838,266	4,376,474	3,970,119	8,834,508	2,124,221	2,873,921	3,836,366	2,350,351	714,045	1,502,553	133,753
1976 .....	11,012,137	2,780,289	4,348,527	3,883,321	8,653,477	2,079,929	2,821,762	3,751,786	2,358,660	700,360	1,526,765	131,535
1977 .....	11,285,787	2,793,418	4,449,427	4,042,942	8,846,993	2,070,032	2,875,192	3,901,769	2,438,794	723,386	1,574,235	141,173
1978 .....	11,260,092	2,780,729	4,451,222	4,028,141	8,785,893	2,062,295	2,849,908	3,873,690	2,474,199	718,434	1,601,314	154,451
1979 .....	11,569,899	2,839,582	4,513,651	4,216,666	9,036,822	2,099,525	2,880,487	4,056,810	2,533,077	740,057	1,633,164	159,856
1980 .....	12,096,895	2,902,014	4,668,594	4,526,287	9,457,384	2,154,283	2,974,329	4,328,782	2,639,501	747,731	1,694,285	197,505
1981 .....	12,371,672	2,901,344	4,754,117	4,716,211	9,647,032	2,152,474	3,013,850	4,480,708	2,724,640	748,870	1,740,267	235,503
1982 .....	12,425,780	2,883,735	4,770,339	4,771,706	9,696,087	2,152,547	3,023,887	4,519,653	2,720,693	731,188	1,746,452	252,053
1983 .....	12,464,661	2,888,813	4,652,382	4,723,466	9,682,734	2,154,790	3,068,614	4,459,330	2,781,927	734,023	1,783,768	264,136
1984 .....	12,241,940	2,870,329	4,840,838	4,530,773	9,477,370	2,138,621	3,059,652	4,279,097	2,764,570	731,708	1,781,186	251,676
1985 .....	12,247,055	2,870,692	4,845,288	4,531,077	9,479,273	2,141,112	3,068,428	4,269,733	2,767,782	729,580	1,776,858	261,344
1986 .....	12,504,501	2,897,311	4,927,191	4,679,999	9,714,709	2,160,703	3,139,877	4,414,129	2,789,792	736,608	1,787,314	265,870
1987 <sup>3</sup> .....	12,768,307	2,930,120	5,061,965	4,776,222	9,975,064	2,188,801	3,245,209	4,541,054	2,793,243	741,319	1,816,756	235,138
<b>Percent change, 1982 to 1987</b> .....	<b>2.8</b>	<b>1.6</b>	<b>6.1</b>	<b>0.1</b>	<b>2.9</b>	<b>1.7</b>	<b>7.3</b>	<b>0.5</b>	<b>2.3</b>	<b>1.4</b>	<b>4.0</b>	<b>-6.7</b>

<sup>1</sup> Large increase is due primarily to the addition of colleges accredited by the National Association of Trade and Technical Schools in 1980 and 1981  
<sup>2</sup> Because of imputation techniques, data are not consistent with figures for other years.  
<sup>3</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989.)

**Table 156.—Total enrollment in institutions of higher education, by type and control of institution, attendance status, and sex of student: Fall 1970 to fall 1987**

Type and control of institution, sex and attendance status of student	1970 <sup>1</sup>	1975	1980	1982	1983	1984	1985	1986	1987 <sup>2</sup>
1	2	3	4	5	6	7	8	9	10
<b>Total</b> .....	<b>8,590,887</b>	<b>11,184,859</b>	<b>12,096,895</b>	<b>12,425,780</b>	<b>12,464,661</b>	<b>12,241,940</b>	<b>12,247,055</b>	<b>12,504,501</b>	<b>12,768,307</b>
Full-time .....	5,818,290	8,641,334	7,097,958	7,220,818	7,261,050	7,098,388	7,075,221	7,120,078	7,231,508
Men .....	3,504,095	3,926,753	3,689,244	3,752,955	3,759,787	3,450,879	3,607,720	3,599,295	3,810,918
Women .....	2,312,195	2,914,581	3,408,714	3,467,863	3,501,263	3,450,879	3,467,501	3,520,781	3,620,588
Part-time .....	2,764,597	4,343,525	4,998,937	5,205,182	5,203,811	5,143,552	5,171,834	5,384,425	5,536,801
Men .....	1,339,547	2,222,244	2,185,130	2,278,429	2,263,938	2,218,065	2,210,730	2,285,681	2,321,213
Women .....	1,225,050	2,121,281	2,813,807	2,926,733	2,939,873	2,927,487	2,961,104	3,098,744	3,215,588
4-year, total .....	8,261,502	7,214,740	7,570,608	7,654,074	7,741,195	7,711,187	7,715,978	7,824,502	7,992,085
Full-time .....	4,587,379	5,080,256	5,344,163	5,380,793	5,434,249	5,394,599	5,384,814	5,423,580	5,522,837
Men .....	2,732,796	2,891,192	2,809,528	2,822,274	2,845,083	2,806,181	2,781,412	2,774,842	2,790,751
Women .....	1,854,583	2,189,064	2,534,635	2,558,519	2,589,166	2,588,438	2,603,202	2,648,938	2,732,026
Part-time .....	1,874,123	2,134,484	2,226,445	2,273,281	2,306,946	2,318,568	2,331,364	2,400,922	2,469,248
Men .....	936,189	1,092,461	1,017,813	1,036,948	1,047,533	1,040,813	1,034,804	1,049,212	1,068,557
Women .....	737,934	1,042,023	1,208,632	1,234,333	1,259,413	1,275,755	1,296,560	1,351,710	1,400,891
Public 4-year .....	4,232,722	4,998,142	5,128,812	5,178,434	5,223,404	5,198,273	5,209,540	5,300,580	5,434,010
Full-time .....	3,086,491	3,469,821	3,592,193	3,823,771	3,665,325	3,829,275	3,623,341	3,657,130	3,736,568
Men .....	1,813,584	1,947,823	1,873,397	1,889,328	1,910,181	1,880,078	1,863,689	1,864,602	1,882,093
Women .....	1,272,907	1,521,998	1,718,796	1,734,445	1,755,144	1,749,197	1,759,652	1,792,528	1,854,475
Part-time .....	1,146,231	1,526,321	1,536,419	1,552,663	1,558,079	1,568,998	1,586,199	1,643,450	1,897,442
Men .....	609,422	760,469	685,051	698,071	697,852	694,506	693,115	706,223	722,891
Women .....	536,809	765,852	851,368	854,592	860,427	874,492	893,084	937,227	974,751
Private 4-year .....	2,028,780	2,216,598	2,441,996	2,477,640	2,517,791	2,512,894	2,506,438	2,523,922	2,558,075
Full-time .....	1,500,888	1,610,435	1,751,970	1,757,022	1,768,924	1,785,324	1,781,273	1,766,450	1,786,269
Men .....	819,212	943,369	936,131	932,948	934,902	926,083	917,723	910,040	908,658
Women .....	581,676	667,066	815,839	824,074	834,022	839,241	843,550	856,410	877,811
Part-time .....	527,892	606,163	690,026	720,818	748,867	747,570	745,165	757,472	771,806
Men .....	328,787	331,992	332,782	340,877	349,881	346,307	341,689	342,989	345,866
Women .....	201,125	274,171	357,264	379,741	398,985	401,263	403,478	414,483	425,940
2-year, total .....	2,319,385	3,970,119	4,526,287	4,771,706	4,723,466	4,530,773	4,531,077	4,679,999	4,778,222
Full-time .....	1,228,911	1,781,078	1,753,795	1,839,825	1,828,801	1,703,789	1,890,607	1,896,496	1,708,669
Men .....	771,299	1,035,561	879,718	930,691	914,704	841,348	826,308	824,853	820,187
Women .....	457,812	725,517	874,079	909,144	912,097	862,441	864,299	871,843	888,502
Part-time .....	1,090,474	2,209,041	2,772,492	2,931,881	2,896,665	2,826,984	2,840,470	2,983,503	3,067,553
Men .....	603,358	1,129,783	1,187,317	1,239,481	1,216,405	1,175,252	1,175,926	1,236,469	1,252,856
Women .....	487,116	1,079,258	1,605,175	1,692,400	1,680,260	1,651,732	1,664,544	1,747,034	1,814,897
Public 2-year .....	2,195,412	3,836,366	4,328,782	4,519,653	4,459,330	4,279,097	4,269,733	4,414,129	4,541,054
Full-time .....	1,129,185	1,662,621	1,595,493	1,660,321	1,633,790	1,518,331	1,496,905	1,506,101	1,530,912
Men .....	720,440	988,701	811,871	850,602	826,886	782,112	742,873	742,069	744,110
Women .....	408,725	873,920	783,822	809,719	806,904	756,219	754,232	764,032	788,802
Part-time .....	1,066,247	2,173,745	2,733,289	2,859,332	2,825,540	2,760,766	2,772,828	2,908,028	3,010,142
Men .....	589,439	1,107,680	1,152,268	1,194,889	1,175,319	1,137,818	1,138,011	1,193,054	1,224,730
Women .....	478,808	1,066,065	1,581,021	1,664,443	1,650,221	1,622,950	1,634,817	1,714,974	1,785,412
Private 2-year .....	123,973	133,753	<sup>3</sup> 197,505	252,053	264,136	251,878	281,344	<sup>4</sup> 265,870	235,168
Full-time .....	99,748	98,457	<sup>3</sup> 158,302	179,504	193,011	185,458	193,702	<sup>4</sup> 190,395	177,757
Men .....	50,859	46,860	<sup>3</sup> 87,845	80,079	87,818	79,236	83,635	<sup>4</sup> 82,584	78,057
Women .....	48,887	51,597	<sup>3</sup> 90,457	99,425	105,193	106,222	110,067	<sup>4</sup> 107,811	101,700
Part-time .....	24,227	35,296	<sup>3</sup> 39,203	72,549	71,125	66,218	87,642	<sup>4</sup> 75,475	57,411
Men .....	13,919	22,103	<sup>3</sup> 15,049	44,592	41,086	37,436	37,915	<sup>4</sup> 43,415	27,926
Women .....	10,308	13,193	<sup>3</sup> 24,154	27,957	30,039	28,782	29,727	<sup>4</sup> 32,060	29,485

<sup>1</sup> Data revised from previously published figures<sup>2</sup> Preliminary data<sup>3</sup> Large increase is due to the addition of schools accredited by the National Association of Trade and Technical Schools<sup>4</sup> Because of imputation techniques, data are not consistent with figures for other years

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities," and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989.)

Table 157.—Enrollment and number of institutions of higher education, by affiliation<sup>1</sup> of institution: Fall 1980 to fall 1985

Affiliation	Enrollment								Number of institutions <sup>2</sup>	
	Total, fall 1980	Total, fall 1983	Total, fall 1984	Fall 1985				Fall 1980	Fall 1985	
				Total	Full-time		Part-time			
					Men	Women	Men			Women
1	2	3	4	5	6	7	8	9	10	11
<b>All institutions</b> .....	<b>12,096,895</b>	<b>12,464,681</b>	<b>12,241,940</b>	<b>12,247,055</b>	<b>3,807,720</b>	<b>3,467,501</b>	<b>2,210,730</b>	<b>2,961,104</b>	<b>3,226</b>	<b>3,301</b>
Public institutions.....	9,457,394	9,682,734	9,477,370	9,479,273	2,606,362	2,513,884	1,831,126	2,527,901	1,493	1,493
Federal.....	50,989	54,800	54,358	55,787	48,741	6,331	539	176	12	12
State.....	5,879,057	5,964,595	5,883,571	5,924,118	1,963,955	1,884,583	887,272	1,188,308	881	881
State and local.....	2,360,972	2,538,044	2,465,058	2,439,409	389,989	421,901	668,889	958,630	379	397
State-related.....	154,984	149,385	145,992	148,094	58,644	47,325	19,852	22,273	31	31
Local.....	1,011,412	975,910	928,391	911,865	145,033	153,744	254,574	358,514	190	172
Private institutions.....	2,639,501	2,781,927	2,764,570	2,767,782	1,001,358	953,617	379,604	433,203	1,733	1,808
Independent nonprofit.....	1,521,614	1,554,187	1,528,571	1,529,779	562,590	497,668	226,839	242,882	795	811
Organized as profit making.....	111,714	192,740	190,151	195,991	76,400	74,321	32,650	12,620	164	211
<b>Religiously affiliated</b> .....	<b>1,006,173</b>	<b>1,035,000</b>	<b>1,045,648</b>	<b>1,042,012</b>	<b>362,368</b>	<b>381,628</b>	<b>120,315</b>	<b>177,701</b>	<b>774</b>	<b>786</b>
Advent Christian Church.....	143	142	126	103	48	46	6	3	1	1
African Methodist Episcopal Zion Church.....	1,091	939	836	702	416	278	5	3	3	2
African Methodist Episcopal.....	4,541	3,715	3,404	3,473	1,401	1,837	96	139	6	6
American Baptist.....	6,131	7,477	8,554	8,307	2,506	2,815	1,133	1,853	11	12
American Lutheran and Lutheran Church in America.....	3,092	2,999	2,770	2,730	913	798	406	613	3	3
American Lutheran.....	21,608	20,746	21,100	21,258	7,974	9,740	1,555	1,989	13	12
Assemblies of God Church.....	7,814	7,745	7,972	7,899	3,685	3,154	587	473	10	11
Baptist.....	38,231	39,559	39,152	41,163	16,958	16,316	4,020	3,869	33	36
Brethren Church.....	3,925	4,391	4,463	4,684	1,795	1,186	898	785	3	3
Brethren in Christ Church.....	1,301	1,612	1,761	1,846	650	1,117	27	52	1	1
Christian and Missionary Alliance Church.....	1,705	1,854	1,831	1,740	765	691	167	117	3	3
Christian Church (Disciples of Christ).....	14,913	15,413	15,132	15,311	4,847	5,458	2,536	2,470	12	11
Christian Churches and Churches of Christ.....	1,342	1,457	1,591	1,543	757	521	150	115	7	10
Christian Methodist Episcopal.....	2,486	1,972	1,845	1,661	813	705	60	83	4	3
Christian Reformed Church.....	5,408	5,291	5,313	5,288	2,461	2,447	192	168	3	3
Church of Christ (Scientist).....	2,773	—	—	—	—	—	—	—	6	—
Church of God of Prophecy.....	—	270	246	245	96	119	20	10	—	1
Church of God.....	6,082	6,081	6,187	5,990	2,407	2,463	588	522	9	9
Church of New Jerusalem.....	170	164	156	155	72	64	5	14	1	1
Church of the Brethren.....	8,482	8,699	9,302	8,684	2,590	2,880	1,471	1,743	6	6
Church of the Nazarene.....	11,716	11,140	10,834	10,757	4,258	4,609	843	1,047	10	10
Churches of Christ.....	9,343	11,775	11,486	10,945	4,674	4,617	895	759	9	13
Cumberland Presbyterian.....	594	659	684	636	277	221	65	73	2	2
Evangelical Congregational Church.....	80	60	53	71	13	0	48	10	1	1
Evangelical Convent Church of America.....	1,401	1,545	1,491	1,539	542	698	104	195	1	1
Evangelical Free Church of America.....	833	935	1,563	1,613	758	270	429	156	1	2
Evangelical Lutheran Church.....	743	724	575	589	339	136	107	7	3	3
Free Methodist.....	5,543	5,552	5,602	5,843	1,865	2,419	543	816	5	5
Free Will Baptist Church.....	1,132	1,198	1,242	1,191	436	442	183	130	4	3
Friends United Meeting.....	1,109	1,443	—	—	—	—	—	—	1	—



Table 157.—Enrollment and number of institutions of higher education, by affiliation<sup>1</sup> of institution: Fall 1980 to fall 1985—Continued

Affiliation	Enrollment								Number of institutions <sup>2</sup>	
	Total, fall 1980	Total, fall 1983	Total, fall 1984	Fall 1985				Fall 1980	Fall 1985	
				Total	Full-time		Part-time			
					Men	Women	Men			Women
1	2	3	4	5	6	7	8	9	10	11
Friends .....	5,157	4,889	6,962	7,077	3,323	2,701	443	610	5	7
General Conference Mennonite Church .....	820	1,369	1,321	1,303	567	541	73	122	2	3
Greek Orthodox .....	204	303	219	161	126	22	11	2	1	1
Interdenominational .....	1,254	1,565	1,598	1,438	662	426	178	172	4	6
Jewish .....	5,738	5,191	5,444	5,472	4,226	735	278	233	24	22
Latter Day Saints .....	39,172	39,277	38,973	39,406	15,900	14,324	4,551	4,631	4	4
Lutheran Church—Missouri Synod .....	11,727	12,209	11,940	11,507	5,029	4,983	466	1,027	15	15
Lutheran Church in America .....	23,877	22,977	2,108	22,659	9,158	9,640	1,366	2,493	20	20
Mennonite Brethren Church .....	1,344	1,510	1,561	1,548	450	432	224	442	3	3
Mennonite Church .....	4,008	2,794	2,632	2,490	993	1,234	108	155	6	5
Missionary Church Inc. ....	487	543	550	573	142	164	38	229	1	1
Moravian Church .....	2,434	2,545	2,436	2,352	655	1,086	238	373	2	2
Multiple Protestant Denominations .....	5,526	4,982	5,083	4,964	1,616	2,679	273	396	7	7
North American Baptist .....	155	147	138	133	62	19	35	17	1	1
Pentecostal Holiness Church .....	767	402	469	470	214	217	17	22	1	3
Presbyterian U.S. and United Presbyterian .....	47,144	51,483	50,679	52,290	20,499	20,960	4,642	6,189	57	58
Protestant Episcopal .....	5,396	5,258	5,323	5,344	2,344	2,626	151	223	12	13
Protestant, other .....	4,072	3,564	2,765	2,390	1,151	797	229	213	11	8
Reformed Church in America .....	2,713	5,149	5,284	5,238	2,142	2,572	264	260	4	5
Reformed Episcopal Church .....	67	—	—	—	—	—	—	—	1	—
Reformed Presbyterian Church .....	2,014	1,292	1,225	1,191	608	366	112	83	4	1
Reorganized Latter-Day Saints Church .....	4,274	4,237	4,265	4,517	1,923	1,251	879	464	2	2
Roman Catholic .....	422,842	445,030	456,936	452,992	132,519	151,173	61,954	107,346	229	234
Russian Orthodox .....	47	43	47	36	34	0	2	0	1	1
Seventh-Day Adventists .....	19,166	17,525	17,131	15,993	6,380	6,314	1,341	1,958	11	11
Southern Baptist .....	85,281	84,556	88,837	66,869	33,956	32,760	10,250	11,903	54	56
Unitarian Universalist .....	87	91	86	88	40	36	8	4	2	2
United Brethren Church .....	545	448	366	447	204	181	39	23	1	1
United Church of Christ .....	14,169	13,911	12,180	12,568	4,295	4,455	1,547	2,271	16	14
United Methodist .....	127,099	127,064	127,281	127,236	46,787	50,606	12,823	17,022	91	94
Wesleyan Church .....	3,583	2,584	2,516	2,394	918	1,067	174	235	5	4
Wisconsin Evangelical Lutheran Synod .....	808	629	559	520	173	344	2	1	1	1
Other religiously affiliated .....	462	1,866	2,663	2,618	956	848	446	366	1	7

<sup>1</sup> Affiliation as reported by institutions of higher education

<sup>2</sup> Includes only institutions which reported enrollment

—Data not applicable or not reported

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys (This table was prepared August 1986)

**Table 158.—Total undergraduate enrollment<sup>1</sup> in institutions of higher education, by sex of student, attendance status, and control of institution: Fall 1969 to fall 1987**

(In thousands)

Year	Total	Full-time	Part-time	Men		Women		Men		Women	
				Full-time	Part-time	Full-time	Part-time	Public	Private	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12
1969.....	6,884	4,991	1,683	2,952	1,056	2,039	837	2,997	1,011	2,162	714
1970.....	7,376	5,280	2,096	3,097	1,157	2,163	939	3,241	1,013	2,367	735
1971.....	7,743	5,512	2,231	3,201	1,217	2,311	1,014	3,427	991	2,580	745
1972.....	7,941	5,488	2,453	3,121	1,308	2,367	1,145	3,467	962	2,756	756
1973.....	6,261	5,580	2,681	3,135	1,403	2,445	1,276	3,579	959	2,943	780
1974.....	6,798	5,726	3,072	3,191	1,574	2,535	1,496	3,799	966	3,232	801
1975.....	9,679	6,169	3,510	3,459	1,798	2,710	1,712	4,245	1,012	3,581	841
1976.....	9,429	6,030	3,399	3,242	1,660	2,788	1,739	3,949	953	3,668	859
1977.....	9,717	6,094	3,623	3,168	1,709	2,906	1,914	3,937	960	3,906	914
1978.....	9,681	5,967	3,724	3,072	1,694	2,695	2,030	3,612	954	3,974	951
1979.....	9,998	6,080	3,919	3,087	1,734	2,993	2,165	3,865	956	4,161	995
1980.....	10,475	6,362	4,113	3,227	1,773	3,135	2,340	4,014	985	4,427	1,048
1981.....	10,755	6,449	4,306	3,261	1,848	3,188	2,458	4,090	1,016	4,558	1,088
1982.....	10,625	6,484	4,341	3,299	1,671	3,184	2,470	4,140	1,031	4,573	1,081
1983.....	10,846	6,514	4,332	3,304	1,654	3,210	2,478	4,117	1,042	4,580	1,107
1984.....	10,616	6,348	4,270	3,195	1,612	3,153	2,459	3,990	1,017	4,504	1,107
1985.....	10,587	6,320	4,277	3,156	1,806	3,163	2,471	3,953	1,010	4,525	1,110
1986 <sup>2</sup> .....	10,799	6,353	4,446	3,147	1,671	3,206	2,575	4,003	1,015	4,659	1,122
1987 <sup>3</sup> .....	11,048	6,463	4,585	3,164	1,905	3,299	2,680	4,077	992	4,844	1,135

<sup>1</sup> Includes unclassified undergraduate students<sup>2</sup> Data have been revised from previously published figures<sup>3</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys. (This table was prepared February 1989.)

NOTE—Because of rounding, details may not add to totals

**Table 159.—Total first-time freshmen enrollment in institutions of higher education, by sex of student, attendance status, and type and control of institution: Fall 1955 to fall 1987**

(In thousands)

Year	Total, all freshmen	Men			Women			Type of institution, by control			
		Total	Full-time	Part-time	Total	Full-time	Part-time	4-year		2-year	
								Public	Private	Public	Private
		1	2	3	4	5	6	7	8	9	10
1955 <sup>1</sup>	670	416	—	—	254	—	—	<sup>2</sup> 283	<sup>2</sup> 247	<sup>2</sup> 117	<sup>2</sup> 23
1956 <sup>1</sup>	718	443	—	—	275	—	—	<sup>2</sup> 293	<sup>2</sup> 262	<sup>2</sup> 137	<sup>2</sup> 25
1957 <sup>1</sup>	724	442	—	—	282	—	—	<sup>2</sup> 294	<sup>2</sup> 263	<sup>2</sup> 141	<sup>2</sup> 27
1958 <sup>1</sup>	775	485	—	—	310	—	—	<sup>2</sup> 328	<sup>2</sup> 272	<sup>2</sup> 148	<sup>2</sup> 29
1959 <sup>1</sup>	822	488	—	—	334	—	—	<sup>2</sup> 348	<sup>2</sup> 292	<sup>2</sup> 153	<sup>2</sup> 28
1960 <sup>1</sup>	923	540	—	—	384	—	—	<sup>2</sup> 396	<sup>2</sup> 313	<sup>2</sup> 182	<sup>2</sup> 32
1961 <sup>1</sup>	1,010	592	—	—	426	—	—	<sup>2</sup> 438	<sup>2</sup> 336	<sup>2</sup> 210	<sup>2</sup> 34
1962 <sup>1</sup>	1,031	598	—	—	432	—	—	<sup>2</sup> 445	<sup>2</sup> 325	<sup>2</sup> 225	<sup>2</sup> 36
1963 <sup>1</sup>	1,048	604	—	—	442	—	—	—	—	—	—
1964 <sup>1</sup>	1,225	702	—	—	523	—	—	<sup>2</sup> 539	<sup>2</sup> 363	<sup>2</sup> 275	<sup>2</sup> 47
1965 <sup>1</sup>	1,442	829	—	—	613	—	—	<sup>2</sup> 642	<sup>2</sup> 399	<sup>2</sup> 348	<sup>2</sup> 53
1966	1,554	890	—	—	665	—	—	<sup>2</sup> 626	<sup>2</sup> 383	<sup>2</sup> 478	<sup>2</sup> 67
1967	1,641	931	761	170	710	574	136	<sup>2</sup> 645	<sup>2</sup> 368	<sup>2</sup> 561	<sup>2</sup> 67
1968	1,893	1,082	847	235	810	624	187	<sup>2</sup> 725	<sup>2</sup> 378	<sup>2</sup> 718	<sup>2</sup> 72
1969	1,967	1,118	876	242	849	649	200	<sup>2</sup> 737	<sup>2</sup> 393	<sup>2</sup> 776	<sup>2</sup> 61
1970	2,063	1,152	896	258	911	691	221	<sup>2</sup> 754	<sup>2</sup> 397	<sup>2</sup> 854	<sup>2</sup> 58
1971	2,119	1,171	896	275	949	710	238	<sup>2</sup> 738	<sup>2</sup> 386	<sup>2</sup> 937	<sup>2</sup> 58
1972	2,153	1,158	858	299	995	716	279	680	381	1,037	55
1973	2,226	1,182	867	315	1,044	740	304	699	379	1,089	59
1974	2,366	1,244	896	348	1,122	777	345	746	386	1,176	58
1975	2,515	1,328	942	386	1,187	821	366	772	395	1,284	64
1976	2,347	1,170	855	316	1,177	808	369	717	414	1,153	63
1977	2,394	1,156	840	316	1,239	841	398	737	405	1,186	67
1978	2,390	1,142	817	324	1,248	834	414	737	407	1,174	73
1979	2,503	1,180	840	340	1,323	866	457	760	415	1,254	74
1980	2,588	1,219	862	357	1,369	887	431	765	418	1,314	91
1981	2,595	1,218	852	366	1,378	836	492	754	419	1,318	104
1982	2,505	1,199	837	362	1,306	851	455	731	404	1,254	116
1983	2,444	1,159	825	334	1,285	853	431	728	404	1,190	122
1984	2,357	1,112	786	326	1,245	827	418	714	403	1,130	110
1985	2,292	1,076	775	301	1,216	827	389	717	399	1,060	116
1986 <sup>3</sup>	2,219	1,047	769	278	1,173	821	352	720	392	991	<sup>4</sup> 117
1987 <sup>5</sup>	2,246	1,047	779	267	1,200	848	352	758	405	980	104

<sup>1</sup> Excludes first-time freshmen in occupational programs not creditable towards a bachelor's degree.

<sup>2</sup> Data for 2-year branches of 4-year college systems are aggregated with the 4-year institutions.

<sup>3</sup> Data have been revised from previously published figures.

<sup>4</sup> Because of imputation techniques, data are not consistent with figures for other years.

<sup>5</sup> Preliminary data.

—Data not available.

NOTE—Alaska and Hawaii are included in all years. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Fall Enrollment in Higher Education*, various years; "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys. (This table was prepared February 1989.)

**Table 160.—Total graduate enrollment<sup>1</sup> in institutions of higher education, by sex of student, attendance status, and control of institution: Fall 1969 to fall 1987**

(In thousands)

Year	Total	Full-time	Part-time	Men		Women		Men		Women	
				Full-time	Part-time	Full-time	Part-time	Public	Private	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12
1969.....	955	363	593	252	338	111	255	393	197	273	93
1970.....	1,031	379	651	264	366	115	285	423	207	301	99
1971.....	1,012	388	621	269	346	119	275	415	200	296	100
1972.....	1,066	394	671	268	358	126	313	427	199	330	109
1973.....	1,123	410	715	273	375	137	340	442	206	358	119
1974.....	1,190	427	762	276	387	151	375	454	209	398	128
1975.....	1,263	453	810	290	410	163	400	481	219	425	138
1976.....	1,333	463	870	287	427	176	443	477	237	454	165
1977.....	1,319	473	845	289	411	184	434	458	243	443	174
1978.....	1,312	468	844	280	402	188	442	441	241	453	177
1979.....	1,309	476	833	280	389	196	444	427	242	457	182
1980.....	1,343	485	860	281	394	204	466	426	247	474	195
1981.....	1,343	484	859	277	397	207	462	419	255	468	201
1982.....	1,322	485	838	280	390	205	447	417	253	453	200
1983.....	1,340	497	843	286	391	211	452	418	259	454	209
1984.....	1,345	501	844	286	386	215	459	411	261	459	215
1985.....	1,376	509	867	289	388	220	479	414	263	477	223
1986.....	1,435	522	913	294	399	228	514	433	260	508	234
1987 <sup>2</sup> .....	1,452	527	925	294	400	233	525	429	264	516	243

<sup>1</sup> Includes unclassified postbaccalaureate students<sup>2</sup> Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)

NOTE.—Because of rounding, details may not add to totals

**Table 161.—Total first-professional enrollment in institutions of higher education, by sex of student, attendance status, and control of institution: Fall 1969 to fall 1987**

(In thousands)

Year	Total	Full-time	Part-time	Men		Women		Men		Women	
				Full-time	Part-time	Full-time	Part-time	Public	Private	Public	Private
1	2	3	4	5	6	7	8	9	10	11	12
1969.....	164,737	143,081	21,656	131,368	17,558	11,713	4,098	64,241	84,685	8,354	7,457
1970.....	173,411	157,384	16,027	144,270	14,379	11,114	1,648	68,956	89,693	6,501	8,261
1971.....	192,668	176,224	16,444	159,386	14,672	16,338	1,772	98,233	75,825	9,430	9,180
1972.....	206,659	190,039	16,620	168,990	14,453	21,049	2,167	79,723	103,720	10,842	12,374
1973.....	218,990	201,663	17,327	171,731	14,566	29,932	2,761	81,811	104,486	16,138	16,555
1974.....	235,452	216,329	19,123	178,926	15,153	37,403	3,970	84,271	109,808	20,085	21,288
1975.....	242,267	219,886	22,381	177,117	14,983	42,769	7,398	79,240	112,860	23,557	26,610
1976.....	244,292	220,124	24,168	171,967	17,843	48,157	6,325	77,873	111,937	23,468	31,014
1977.....	251,357	226,318	25,039	173,165	18,286	53,153	6,753	78,189	113,262	24,901	35,005
1978.....	256,904	232,540	24,364	174,906	17,315	57,634	7,049	77,748	114,473	26,839	37,844
1979.....	263,404	238,949	24,455	176,394	16,969	62,555	7,486	77,122	116,241	29,026	41,015
1980.....	277,767	251,359	26,408	181,448	17,896	69,911	8,512	81,022	118,322	33,415	45,008
1981.....	274,595	248,328	26,267	175,414	17,522	72,914	8,745	77,562	115,374	34,177	47,482
1982.....	278,425	252,108	26,317	173,941	17,259	78,167	9,058	76,273	114,927	37,183	50,042
1983.....	278,529	249,636	28,893	169,071	19,025	80,565	9,868	74,938	113,158	38,484	51,949
1984.....	278,598	249,708	28,890	166,286	18,663	83,422	10,227	73,722	111,227	40,188	53,463
1985.....	274,200	246,619	27,581	162,368	17,424	84,251	10,157	71,373	108,419	40,435	53,973
1986 <sup>1</sup> .....	270,413	245,655	24,758	158,566	15,296	87,089	9,462	70,331	103,531	41,695	54,856
1987 <sup>2</sup> .....	268,467	241,804	26,663	153,661	16,472	88,143	10,191	68,155	101,978	42,136	56,198

<sup>1</sup> Data have been revised from previously published figures<sup>2</sup> Preliminary data

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)

NOTE.—Because of rounding, details may not add to totals

**Table 162.—Full-time-equivalent enrollment in institutions of higher education, by control and type of institution:  
Fall 1970 to fall 1987**

Year	All institutions			Public institutions			Private institutions		
	Total	4-year	2-year	Total	4-year	2-year	Total	4-year	2-year
1	2	3	4	5	6	7	8	9	10
1970 <sup>1</sup>	6,737,619	5,219,855	1,517,964	4,953,144	3,540,559	1,412,585	1,784,675	1,679,296	105,379
1971 <sup>1</sup>	7,148,575	5,429,703	1,718,872	5,344,356	3,731,009	1,613,347	1,804,219	1,698,694	105,525
1972	7,253,739	5,406,821	1,846,918	5,452,848	3,706,239	1,746,609	1,800,891	1,700,582	100,309
1973	7,453,446	5,439,218	2,014,230	5,629,555	3,721,031	1,908,524	1,823,893	1,718,187	105,706
1974	7,805,453	5,606,249	2,199,204	5,944,804	3,847,550	2,097,254	1,860,649	1,758,699	101,950
1975	8,479,685	5,900,401	2,579,284	6,522,310	4,056,500	2,465,810	1,957,375	1,843,901	113,474
1976	8,312,502	5,848,001	2,464,501	6,349,903	3,998,450	2,351,453	1,962,599	1,849,551	113,048
1977	8,415,339	5,835,076	2,480,263	6,396,476	4,039,071	2,357,405	2,018,863	1,896,005	122,658
1978	8,348,482	5,832,573	2,415,909	6,279,199	3,996,128	2,283,073	2,069,283	1,936,447	132,836
1979	8,487,317	6,016,072	2,471,245	6,392,617	4,059,304	2,333,313	2,094,700	1,956,768	137,932
1980	8,619,013	6,161,372	2,657,841	6,642,294	4,158,267	2,484,027	2,176,719	2,003,105	<sup>2</sup> 173,614
1981	9,014,521	6,249,847	2,784,674	6,781,300	4,208,506	2,572,794	2,233,221	2,041,341	<sup>2</sup> 191,880
1982	9,091,648	6,248,923	2,842,725	6,850,589	4,220,648	2,629,941	2,241,059	2,028,275	212,784
1983	9,166,399	6,325,223	2,841,176	6,881,480	4,265,808	2,615,672	2,284,919	2,059,415	225,504
1984	8,951,695	6,292,711	2,658,984	6,684,664	4,237,895	2,446,769	2,267,031	2,054,616	212,215
1985	6,943,433	6,294,339	2,649,094	6,667,781	4,239,622	2,428,159	2,275,652	2,054,717	220,935
1986 <sup>3</sup>	9,062,579	6,359,774	2,702,805	6,778,601	4,296,159	2,482,442	2,283,978	2,063,615	<sup>4</sup> 220,363
1987 <sup>5</sup>	9,228,513	6,466,450	2,742,063	6,938,617	4,397,097	2,541,520	2,289,896	2,089,553	200,543

<sup>1</sup> Data for 2-year branch campuses of 4-year systems are included with the 4-year institutions.

<sup>2</sup> Large increases are due to the addition of schools accredited by the National Association of Trade and Technical Schools in 1980 and 1981.

<sup>3</sup> Data have been revised from previously published figures.

<sup>4</sup> Because of imputation techniques, data are not consistent with figures.

<sup>5</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989).

Table 163.—Total enrollment in institutions of higher education, by State: Fall 1970 to fall 1987

State or other area	Fall 1970	Fall 1975	Fall 1980	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986 <sup>1</sup>	Fall 1987 <sup>2</sup>	Percent change, 1980 to 1987
1	2	3	4	5	6	7	8	9	10	11
<b>United States</b>	<b>8,580,887</b>	<b>11,184,859</b>	<b>12,096,895</b>	<b>12,425,780</b>	<b>12,464,681</b>	<b>12,241,940</b>	<b>12,247,055</b>	<b>12,504,501</b>	<b>12,768,307</b>	<b>5.6</b>
Alabama	103,836	164,700	164,305	167,753	171,381	171,831	179,343	181,443	183,348	11.6
Alaska	9,471	13,998	21,290	24,558	26,045	26,991	27,479	27,492	26,937	26.5
Arizona	109,819	173,542	202,716	210,683	213,437	210,029	216,854	226,597	237,233	17.0
Arkansas	52,039	65,547	77,607	76,972	76,702	78,777	77,958	79,182	79,273	2.1
California	1,257,245	1,787,932	1,790,993	1,842,963	1,730,847	1,665,155	1,650,439	1,727,727	1,768,012	-0.2
Colorado	123,395	149,814	162,916	171,821	172,650	164,384	161,314	177,428	183,583	12.7
Connecticut	124,700	148,491	159,832	162,194	164,344	161,576	159,348	158,278	162,382	1.7
Delaware	25,260	32,389	32,939	32,454	31,945	31,872	31,883	33,895	36,650	11.3
District of Columbia	77,156	64,190	86,675	82,783	80,367	79,750	78,668	77,652	77,566	-10.5
Florida	235,525	344,267	411,891	436,806	443,436	444,062	451,392	<sup>3</sup> 483,964	489,964	-19.0
Georgia	126,511	173,585	184,159	198,367	201,453	196,669	196,826	195,123	<sup>4</sup> 224,066	21.7
Hawaii	36,582	46,671	47,181	51,738	52,065	49,981	49,937	51,696	52,291	10.8
Idaho	34,587	39,075	43,018	42,975	42,911	43,303	42,668	45,260	45,587	5.9
Illinois	452,146	584,089	644,245	683,969	673,084	661,114	678,689	692,092	686,954	6.6
Indiana	192,688	213,820	247,253	253,529	256,470	249,957	250,567	250,185	256,264	3.6
Iowa	108,902	121,678	140,449	147,862	152,968	153,069	152,897	155,389	158,230	12.7
Kansas	102,485	120,833	136,805	141,661	141,709	141,916	141,359	143,208	146,439	7.2
Kentucky	98,591	125,253	143,066	144,159	146,503	143,555	141,724	144,562	153,351	7.2
Louisiana	120,728	153,213	160,058	176,505	179,647	179,888	177,176	171,344	173,229	8.2
Maine	34,134	40,443	43,264	47,719	53,347	52,714	52,201	46,230	47,554	9.9
Maryland	149,607	205,570	225,526	234,585	239,232	234,302	231,649	233,492	239,302	6.1
Massachusetts	303,809	384,485	418,415	407,557	423,348	418,966	421,175	417,562	423,916	1.3
Michigan	392,726	496,405	520,131	508,240	515,780	505,334	507,293	520,428	535,486	3.0
Minnesota	160,788	184,758	206,691	214,133	214,219	215,566	221,162	226,558	237,212	14.8
Mississippi	73,987	99,962	102,364	105,932	109,728	104,339	101,180	101,104	105,510	3.1
Missouri	183,930	223,115	234,421	244,238	248,329	240,920	241,146	246,185	251,778	7.4
Montana	30,062	30,843	35,177	36,811	37,877	37,061	35,958	35,238	35,882	2.0
Nebraska	66,915	74,705	89,488	94,390	95,132	97,422	97,789	100,401	100,828	12.7
Nevada	13,689	30,187	40,455	42,212	43,768	43,007	43,858	46,796	48,063	18.3
New Hampshire	29,400	41,030	46,794	52,208	53,143	53,049	52,283	53,886	56,183	20.0
New Jersey	216,121	297,114	321,810	322,284	314,468	305,330	297,658	295,353	294,433	-8.5
New Mexico	44,461	51,044	58,283	63,483	66,094	66,507	68,295	80,271	83,074	42.5
New York	806,479	1,005,063	992,237	1,012,421	1,022,521	1,007,770	1,000,098	1,000,899	992,544	0.0
North Carolina	171,925	251,788	287,537	300,910	301,675	309,249	327,268	322,979	321,251	11.7
North Dakota	31,495	29,743	34,069	38,224	37,591	37,585	37,939	37,309	37,052	8.8
Ohio	376,267	436,052	489,145	532,361	535,592	518,435	514,745	520,514	518,494	8.0
Oklahoma	110,155	146,813	160,295	168,188	174,171	168,034	169,173	170,840	171,730	7.8
Oregon	122,177	145,281	157,458	141,312	141,172	141,810	137,967	144,801	152,657	-3.0
Pennsylvania	411,044	470,536	507,716	529,341	545,112	528,669	533,198	545,924	554,370	9.2
Rhode Island	45,898	64,479	66,869	68,351	70,811	69,145	69,927	69,572	71,708	7.2
South Carolina	69,518	133,023	132,476	136,727	134,532	131,479	131,902	134,115	140,841	6.3
South Dakota	30,639	30,260	32,761	35,074	34,879	32,473	32,772	30,935	31,755	-3.1
Tennessee	135,103	181,435	204,581	201,806	207,777	200,937	194,845	197,069	202,006	-1.3
Texas	442,225	624,390	701,391	758,839	795,741	795,337	769,692	776,019	802,226	14.4
Utah	81,687	87,323	93,987	99,431	103,324	101,863	103,594	106,213	106,792	13.6
Vermont	22,209	29,095	30,828	30,648	31,306	30,786	31,416	32,460	33,242	8.5
Virginia	151,915	244,671	280,504	281,026	288,588	283,109	292,416	308,318	319,026	13.7
Washington	183,544	227,168	303,603	227,812	229,639	230,667	231,553	242,450	245,872	-19.0
West Virginia	63,153	78,819	81,973	82,891	83,202	79,004	76,659	76,781	77,256	-5.8
Wisconsin	202,058	240,701	269,086	276,176	277,751	270,665	275,069	283,653	281,717	4.7
Wyoming	15,220	18,078	21,147	22,713	23,844	23,424	24,204	24,357	26,062	23.2
U.S. Service Schools	17,079	36,897	49,808	60,129	52,994	52,788	54,052	53,302	60,136	20.7
Outlying areas	67,237	104,270	137,749	162,740	169,269	158,452	164,890	165,620	156,809	13.8
American Samoa	—	889	976	1,007	845	871	758	759	697	-8.1
Guam	2,719	3,800	3,217	5,041	3,436	4,432	4,601	4,477	4,072	26.8
Northern Marianas	—	—	—	—	173	431	318	514	366	—
Puerto Rico	63,073	97,517	131,184	153,350	161,215	149,102	155,917	156,580	147,706	12.6
Trust Territory of the Pacific	—	185	224	598	736	796	724	795	1,223	446.0
Virgin Islands	1,445	2,079	2,148	2,744	2,864	2,820	2,572	2,495	2,545	18.5

<sup>1</sup> Revised from previously published data

<sup>2</sup> Preliminary data

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years

<sup>4</sup> Part of the 1987 increase is due to the inclusion of additional public 2 year institutions in the survey

—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)

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Table 164.—Total enrollment in public institutions of higher education, by State: Fall 1970 to fall 1987

State or other area	Fall 1970	Fall 1975	Fall 1980	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986 <sup>1</sup>	Fall 1987 <sup>2</sup>	Percent change, 1980 to 1987
1	2	3	4	5	6	7	8	9	10	11
United States.....	6,426,134	6,834,508	9,457,384	9,696,087	9,682,734	9,477,370	9,479,273	9,714,709	9,975,064	5.5
Alabama.....	87,884	145,698	143,674	147,032	149,986	149,579	158,688	160,432	162,278	12.9
Alaska.....	8,563	13,218	20,581	23,479	25,084	26,005	26,510	26,389	25,991	26.4
Arizona.....	107,315	168,666	194,034	200,599	201,281	196,537	202,036	213,570	228,552	17.8
Arkansas.....	43,598	58,127	66,068	65,895	65,483	66,753	66,123	68,780	68,313	3.4
California.....	1,123,529	1,817,558	1,599,838	1,648,116	1,529,005	1,459,579	1,444,207	1,522,103	1,580,532	-1.2
Colorado.....	106,562	136,370	145,598	151,866	152,419	144,885	142,031	157,558	161,594	11.0
Connecticut.....	73,391	93,567	97,788	101,266	102,720	100,754	98,616	98,826	102,561	4.9
Delaware.....	21,151	27,082	28,325	26,314	27,898	27,422	27,933	28,694	29,647	4.7
District of Columbia.....	12,194	15,159	13,900	14,581	14,270	13,450	12,747	11,800	10,851	-21.9
Florida.....	189,450	267,745	334,349	353,839	357,286	354,158	362,241	385,436	405,292	21.2
Georgia.....	101,900	142,593	140,158	152,333	154,142	150,035	149,956	147,269	174,355	24.4
Hawaii.....	32,963	43,276	43,289	47,210	46,241	43,906	43,246	42,593	42,746	-1.2
Idaho.....	27,072	31,298	34,491	34,519	34,418	34,918	33,666	35,532	34,791	0.9
Illinois.....	315,634	444,458	491,274	528,875	516,720	504,549	520,224	530,565	521,117	6.1
Indiana.....	196,739	159,453	189,224	184,977	196,917	192,618	193,833	184,139	201,457	6.5
Iowa.....	68,390	83,572	97,454	104,757	109,852	109,800	109,785	110,439	112,007	14.9
Kansas.....	88,215	107,761	121,987	126,573	127,166	127,211	127,220	129,844	133,383	9.3
Kentucky.....	77,240	105,265	114,884	114,963	116,323	112,702	110,836	115,058	122,019	6.2
Louisiana.....	101,127	132,054	136,703	152,599	155,470	154,846	153,173	146,297	148,892	8.6
Maine.....	25,405	31,092	31,878	32,654	33,829	33,436	33,168	34,460	35,159	10.3
Maryland.....	116,988	178,544	195,051	202,445	206,704	201,894	198,992	199,433	203,711	4.4
Massachusetts.....	118,127	173,564	183,765	177,969	165,979	183,064	18,602	178,615	187,091	1.8
Michigan.....	339,625	436,655	454,147	439,961	444,229	433,134	434,270	445,767	459,313	1.1
Minnesota.....	130,587	148,630	162,379	168,532	168,259	168,726	173,984	178,790	168,096	14.6
Mississippi.....	64,986	89,919	90,661	94,701	97,864	92,641	90,704	69,925	93,284	2.9
Missouri.....	132,540	158,196	165,179	173,990	177,061	170,092	168,829	168,883	171,248	3.7
Montana.....	27,287	27,796	31,178	32,860	33,744	32,032	32,716	31,192	31,858	2.2
Nebraska.....	51,454	61,240	73,509	77,526	77,609	60,221	61,202	64,262	64,901	15.5
Nevada.....	13,576	30,010	40,260	41,849	43,371	42,700	43,368	46,490	47,791	18.6
New Hampshire.....	15,979	24,205	24,119	26,016	26,457	27,323	26,669	28,733	30,899	1.1
New Jersey.....	145,373	227,764	247,021	256,099	250,661	243,388	237,297	235,793	235,408	-4.7
New Mexico.....	40,795	47,805	55,077	60,493	63,355	64,261	66,059	76,566	81,298	47.6
New York.....	449,437	613,842	563,251	573,113	578,465	567,151	563,251	565,244	587,046	0.7
North Carolina.....	123,781	201,268	228,154	241,736	242,034	249,417	267,044	262,638	258,930	13.5
North Dakota.....	30,192	27,954	31,709	33,551	34,770	34,441	34,802	34,698	34,348	6.3
Ohio.....	281,099	336,931	381,765	389,432	395,209	381,610	379,184	384,610	391,831	2.6
Oklahoma.....	91,438	124,372	137,168	145,047	151,268	145,822	146,827	149,043	148,906	8.5
Oregon.....	108,483	129,785	140,102	124,052	122,603	123,231	119,612	125,879	133,458	-4.7
Pennsylvania.....	232,982	287,436	292,499	299,838	307,367	301,172	300,523	304,190	311,210	6.4
Rhode Island.....	25,527	32,311	35,052	34,707	35,581	34,507	35,389	35,511	36,317	3.6
South Carolina.....	47,101	107,690	107,683	108,602	106,777	105,213	105,854	108,191	113,35	5.3
South Dakota.....	23,936	21,925	24,328	26,294	26,158	24,023	23,339	24,036	24,111	-0.7
Tennessee.....	96,897	139,526	158,835	154,796	159,081	152,797	147,951	149,443	154,104	-1.7
Texas.....	365,522	542,212	613,552	667,306	702,847	703,717	677,192	685,542	708,710	15.7
Utah.....	49,588	56,536	59,598	65,231	68,255	67,215	69,426	73,067	74,453	24.9
Vermont.....	12,536	17,145	17,984	18,266	18,656	18,192	18,844	18,734	19,380	7.7
Virginia.....	123,279	215,253	246,500	245,179	251,099	245,104	250,754	265,687	275,583	11.8
Washington.....	162,718	202,531	270,028	199,071	199,391	200,857	201,532	212,338	214,207	-22.4
West Virginia.....	51,383	68,117	71,226	71,612	71,715	68,384	66,531	67,078	67,959	-4.6
Wisconsin.....	170,374	210,535	235,179	241,930	241,728	235,084	238,735	244,948	240,533	2.3
Wyoming.....	15,220	18,078	21,121	22,713	23,844	23,424	24,204	23,735	25,441	20.5
U.S. Service Schools.....	17,079	36,697	49,808	60,129	52,994	52,768	54,052	53,302	60,136	20.7
Outlying areas.....	46,660	59,923	60,692	66,158	67,611	65,134	65,411	67,979	66,785	10.0
American Samoa.....	—	689	976	1,007	845	671	758	759	897	-8.1
Guam.....	2,719	3,800	3,217	5,041	3,436	4,432	4,601	4,477	4,072	26.6
Northern Mariana.....	—	—	—	—	173	431	318	514	366	—
Puerto Rico.....	42,516	53,170	54,127	58,768	59,557	55,784	58,439	58,939	57,682	6.6
Trust Territory of the Pacific.....	—	185	224	598	736	796	724	795	1,223	446.0
Virgin Islands.....	1,445	2,079	2,146	2,744	2,884	2,820	2,572	2,495	2,545	18.5

<sup>1</sup> Revised from previously published data

<sup>2</sup> Preliminary data.

<sup>3</sup> Part of the 1987 increase is due to the inclusion of additional public 2-year institutions in the survey.

—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)

**Table 165.—Total enrollment in private institutions of higher education, by State:  
Fall 1970 to fall 1987**

State or other area	Fall 1970	Fall 1975	Fall 1980	Fall 1982	Fall 1983	Fall 1984	Fall 1985	Fall 1986 <sup>1</sup>	Fall 1987 <sup>2</sup>	Percent change, 1980 to 1987
1	2	3	4	5	6	7	8	9	10	11
<b>United States..</b>	<b>2,182,783</b>	<b>2,380,361</b>	<b>2,639,501</b>	<b>2,729,693</b>	<b>2,781,927</b>	<b>2,764,570</b>	<b>2,787,782</b>	<b>2,789,792</b>	<b>2,793,243</b>	<b>5.8</b>
Alabama.....	16,052	19,002	20,832	20,721	21,395	22,052	20,655	21,011	21,070	2.1
Alaska.....	908	780	735	1,077	961	986	969	1,123	946	28.7
Arizona.....	2,304	4,876	8,682	10,084	12,158	13,492	14,818	13,027	8,981	0.0
Arkansas.....	8,440	9,420	11,539	11,077	11,219	12,024	11,835	10,422	10,960	-5.0
California.....	133,716	170,374	191,155	196,847	201,842	205,576	206,232	205,824	207,480	8.5
Colorado.....	14,833	13,444	17,318	20,155	20,231	19,509	19,283	19,872	21,989	27.0
Connecticut.....	51,309	54,924	61,844	60,928	61,624	60,822	60,732	59,450	59,821	-3.3
Delaware.....	4,109	5,307	4,814	4,140	4,047	4,450	3,950	5,001	7,003	51.8
District of Columbia.....	64,984	69,031	72,775	68,232	66,097	66,300	66,121	65,852	68,715	-8.3
Florida.....	46,075	58,522	77,542	82,987	86,150	89,906	89,151	98,526	84,072	9.2
Georgia.....	24,611	30,992	44,001	46,034	47,311	48,834	47,870	47,854	49,711	13.0
Hawaii.....	3,589	3,393	3,912	4,578	5,824	6,175	6,691	9,103	9,545	144.0
Idaho.....	7,495	7,777	8,527	8,458	8,493	8,385	9,002	9,728	10,776	26.4
Illinois.....	138,512	139,631	152,971	155,294	156,364	158,565	158,465	161,527	165,637	8.4
Indiana.....	55,929	54,387	58,029	58,552	59,533	57,339	58,734	58,048	54,807	-5.6
Iowa.....	40,512	38,106	42,995	43,105	43,316	43,269	43,132	44,930	46,223	7.5
Kansas.....	14,270	13,072	14,818	15,088	14,543	14,705	14,139	13,364	13,058	-10.7
Kentucky.....	21,351	19,988	28,182	29,196	30,180	30,853	30,888	29,504	31,332	11.2
Louisiana.....	19,601	21,159	23,355	23,906	24,177	25,142	24,003	25,047	24,737	5.9
Maine.....	8,729	9,351	11,386	15,065	19,518	19,278	19,013	11,770	12,395	8.9
Maryland.....	30,619	29,028	30,475	32,140	32,528	32,408	32,657	34,059	35,651	17.0
Massachusetts.....	187,682	210,921	234,650	229,588	237,369	235,882	235,573	238,947	236,825	0.9
Michigan.....	53,101	59,750	65,984	66,279	71,531	72,200	73,023	74,661	76,173	15.4
Minnesota.....	30,221	38,128	44,312	45,601	45,960	46,840	47,178	47,768	47,116	15.4
Mississippi.....	8,999	10,043	11,703	11,231	11,864	11,698	10,476	11,179	12,226	4.5
Missouri.....	51,390	84,919	69,242	70,241	71,268	70,828	72,317	77,302	80,532	16.3
Montana.....	2,775	3,045	3,999	3,951	4,133	4,345	3,926	4,048	4,024	0.6
Nebraska.....	15,481	13,465	15,979	16,814	17,553	17,201	16,567	16,139	15,827	-0.3
Nevada.....	93	177	175	353	389	307	288	306	272	55.4
New Hampshire.....	13,421	16,825	22,875	21,150	26,687	25,726	25,614	25,153	25,264	11.4
New Jersey.....	70,748	69,350	74,582	66,185	83,607	81,942	60,361	59,580	59,025	-20.9
New Mexico.....	3,666	4,339	3,206	2,990	2,739	2,246	2,236	1,705	1,776	-44.6
New York.....	357,042	391,221	428,988	438,308	443,058	440,619	436,847	435,645	425,498	-0.8
North Carolina.....	48,164	50,498	59,383	59,174	59,641	59,632	60,244	60,341	62,321	4.9
North Dakota.....	1,303	1,789	2,380	2,673	2,821	3,144	3,137	2,411	2,704	14.6
Ohio.....	95,166	99,121	107,380	142,929	140,383	138,825	135,581	135,704	126,633	17.9
Oklahoma.....	18,717	22,241	23,107	23,139	22,883	22,212	22,346	21,797	23,824	3.1
Oregon.....	13,694	15,496	17,356	17,260	18,569	18,579	18,355	18,922	19,199	10.8
Pennsylvania.....	178,062	183,100	215,217	229,503	237,725	227,497	232,675	241,734	243,160	13.0
Rhode Island.....	20,371	32,168	31,817	33,644	35,230	34,388	34,538	34,061	35,391	11.2
South Carolina.....	22,417	25,333	24,793	27,325	27,753	26,266	26,048	25,924	27,489	10.9
South Dakota.....	6,703	8,335	8,433	8,790	8,721	8,450	9,433	6,899	7,608	-9.8
Tennessee.....	36,206	41,909	47,746	47,010	48,716	48,140	46,894	47,626	47,902	0.3
Texas.....	78,703	82,178	87,939	91,533	92,894	91,620	92,500	90,477	92,516	5.3
Utah.....	32,099	30,787	34,389	34,200	35,069	34,648	34,568	33,148	32,339	-8.0
Vermont.....	9,673	11,950	12,644	12,382	12,650	12,594	12,572	13,726	13,882	9.8
Virginia.....	28,636	29,418	34,004	35,847	37,489	38,005	41,662	42,631	43,443	27.8
Washington.....	20,826	24,837	27,575	29,741	30,248	29,810	30,021	30,112	31,665	14.8
West Virginia.....	11,790	10,502	10,745	11,279	11,487	10,825	10,128	9,703	9,297	-13.5
Wisconsin.....	31,684	30,166	33,907	34,226	35,963	35,781	36,334	38,705	41,184	21.5
Wyoming.....	—	—	26	—	—	—	—	622	621	(4)
<b>Outlying areas</b>	<b>20,557</b>	<b>44,347</b>	<b>77,057</b>	<b>96,582</b>	<b>101,658</b>	<b>93,318</b>	<b>99,479</b>	<b>97,641</b>	<b>90,024</b>	<b>16.8</b>
American Samoa.....	—	—	—	—	—	—	—	—	—	—
Guam.....	—	—	—	—	—	—	—	—	—	—
Northern Marianas.....	—	—	—	—	—	—	—	—	—	—
Puerto Rico.....	20,557	44,347	77,057	96,582	101,658	93,318	99,479	97,641	90,024	16.8
Trust Territory of the Pacific.....	—	—	—	—	—	—	—	—	—	—
Virgin Islands.....	—	—	—	—	—	—	—	—	—	—

<sup>1</sup> Revised from previously published data

<sup>2</sup> Preliminary data

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years.

<sup>4</sup> Percentage not shown because of introduction of a new institution in 1988

—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared February 1989)



**Table 166.—Total enrollment in all institutions of higher education, by attendance status, sex, and State:  
Fall 1986 and fall 1987**

State or other area	Fall 1986 <sup>1</sup>					Fall 1987 <sup>2</sup>				
	Total	Full-time		Part-time		Total	Full-time		Part-time	
		Men	Women	Men	Women		Men	Women	Men	Women
1	2	3	4	5	6	7	8	9	10	11
<b>United States</b>	<b>12,504,501</b>	<b>3,599,295</b>	<b>3,520,781</b>	<b>2,265,681</b>	<b>3,098,744</b>	<b>12,768,307</b>	<b>3,610,918</b>	<b>3,620,588</b>	<b>2,321,213</b>	<b>3,215,588</b>
Alabama	181,443	61,850	65,866	24,361	29,366	183,348	61,384	66,438	25,221	30,305
Alaska	27,492	4,437	4,883	7,534	10,638	26,837	4,063	4,388	7,313	11,173
Arizona	226,597	52,310	44,454	56,078	73,755	237,233	50,125	44,928	61,044	81,139
Arkansas	79,182	26,376	28,332	8,591	15,883	79,273	26,647	29,805	8,114	14,707
California	1,727,727	383,472	372,275	427,849	544,131	1,788,012	387,127	386,535	442,999	571,351
Colorado	177,428	53,569	48,719	32,118	43,022	183,583	56,352	53,059	30,488	43,634
Connecticut	158,278	40,108	41,401	31,091	45,678	162,382	40,098	42,280	31,677	48,327
Delaware	23,895	9,183	11,677	5,673	7,362	36,650	10,003	12,555	5,766	8,338
District of Columbia	77,652	23,066	24,187	14,570	15,829	77,566	22,983	24,718	14,483	15,232
Florida	483,984	119,642	116,651	105,138	142,533	489,964	116,717	114,428	107,802	151,117
Georgia	195,123	66,189	66,545	26,258	36,121	224,066	71,401	74,670	33,696	44,299
Hawaii	51,696	14,891	15,304	10,125	11,576	52,291	14,334	15,223	10,401	12,333
Idaho	45,280	14,967	14,379	6,546	9,368	45,567	15,407	15,335	6,115	8,710
Illinois	692,092	175,920	165,528	145,293	205,351	686,954	175,321	171,195	137,767	202,671
Indiana	250,185	84,675	77,646	37,982	49,882	256,264	83,987	79,935	39,925	52,417
Iowa	155,369	60,978	54,246	16,805	23,340	158,230	60,525	54,483	17,320	25,902
Kansas	143,208	43,746	39,121	23,545	36,796	146,439	43,900	40,476	24,200	37,863
Kentucky	144,562	45,014	48,916	18,485	32,147	153,351	46,190	51,339	20,280	35,542
Louisiana	171,344	62,484	63,226	18,453	27,181	173,229	61,899	64,502	18,344	28,484
Maine	46,290	14,130	14,296	6,678	11,126	47,554	13,913	14,835	6,869	11,937
Maryland	233,492	52,662	56,136	50,616	74,078	239,362	53,893	57,868	51,350	76,251
Massachusetts	417,562	126,032	135,984	64,924	90,622	423,916	126,361	139,304	64,919	3,332
Michigan	520,428	130,571	33,889	110,724	145,444	535,486	132,319	138,137	113,129	151,852
Minnesota	126,558	72,931	71,946	32,132	49,549	237,212	71,907	72,380	23,247	55,249
Mississippi	101,104	36,305	39,401	10,206	15,192	105,510	37,655	41,735	10,266	15,854
Missouri	246,185	71,862	68,774	44,553	60,996	251,778	73,695	71,634	44,311	62,135
Montana	35,238	13,509	12,232	3,812	5,685	35,882	12,950	11,802	4,548	6,582
Nebraska	100,401	29,370	27,099	18,075	25,357	100,828	29,169	27,616	17,837	26,206
Nevada	46,796	6,889	6,385	13,537	19,895	48,063	7,232	6,949	13,974	19,908
New Hampshire	53,886	17,279	17,834	8,133	10,540	56,163	17,113	17,837	9,133	12,080
New Jersey	295,353	73,876	73,534	61,572	86,371	294,433	73,063	74,847	60,975	85,548
New Mexico	80,271	20,373	18,979	17,723	23,196	83,074	20,927	19,910	18,083	24,154
New York	1,000,889	308,946	328,816	144,251	218,876	992,544	296,636	323,826	147,883	224,199
North Carolina	322,979	94,070	105,057	51,141	72,711	321,251	93,691	107,260	49,026	71,274
North Dakota	37,309	15,761	13,011	3,634	4,903	37,052	15,932	13,216	3,347	4,557
Ohio	520,514	157,320	153,203	101,689	108,302	518,464	157,672	157,321	92,198	111,273
Oklahoma	170,840	50,484	45,017	31,716	43,623	172,730	51,162	47,721	30,904	42,943
Oregon	144,801	44,711	40,313	25,760	34,017	152,657	43,533	40,487	29,027	39,610
Pennsylvania	545,924	184,451	174,358	79,449	107,666	554,370	189,472	182,111	74,991	107,722
Rhode Island	69,572	21,678	22,152	10,339	15,403	71,708	22,493	23,093	10,497	15,625
South Carolina	134,115	44,184	48,770	16,422	24,739	140,841	45,525	50,885	17,366	27,065
South Dakota	30,935	11,002	11,047	3,400	5,486	31,755	11,176	11,290	3,387	5,902
Tennessee	197,069	64,093	65,096	28,203	39,677	202,006	63,909	66,516	29,506	42,075
Texas	776,019	218,927	200,081	158,930	198,081	802,226	225,824	214,080	160,107	202,215
Utah	106,213	39,546	32,580	17,813	16,274	106,792	36,805	31,057	19,825	19,105
Vermont	32,460	11,106	11,864	2,922	6,568	33,242	11,120	12,019	3,060	7,043
Virginia	308,318	80,254	88,191	56,197	83,676	319,026	82,914	92,282	57,803	86,027
Washington	242,450	70,296	69,258	40,261	62,635	245,872	70,157	71,121	41,270	63,324
West Virginia	76,781	24,482	24,575	9,546	18,178	77,256	24,574	25,312	9,421	17,949
Wisconsin	283,653	94,975	94,899	40,865	52,914	281,717	90,785	94,096	41,382	55,454
Wyoming	24,357	7,722	6,409	3,838	6,388	26,062	8,012	7,080	3,967	7,003
U.S. Service Schools	53,302	46,811	6,339	125	27	80,136	50,866	8,545	219	506
Outlying areas	165,620	51,371	76,957	14,602	22,690	156,809	48,192	73,901	12,662	22,054
American Samoa	759	196	164	180	219	897	211	173	189	324
Guam	4,477	1,078	1,135	1,112	1,152	4,072	787	917	1,224	1,144
Northern Marianas	514	111	93	123	187	366	57	53	104	152
Puerto Rico	156,580	49,330	74,817	12,529	19,804	147,706	46,613	71,810	10,458	18,825
Trust Territory of the Pacific	795	450	197	68	80	1,223	318	369	209	327
Virgin Islands	2,495	206	551	490	1,248	2,545	206	579	478	1,282

<sup>1</sup> Data have been revised from previously published figures

<sup>2</sup> Preliminary data

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years

<sup>4</sup> Part of the 1987 increase is due to the inclusion of additional public 2-year institutions in the survey

SOURCE U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989)

Table 167.—Total enrollment in public institutions of higher education, by attendance status, sex, and State:  
Fall 1986 and fall 1987

State or other area	Fall 1986 <sup>1</sup>					Fall 1987 <sup>2</sup>				
	Total	Full-time		Part-time		Total	Full-time		Part-time	
		Men	Women	Men	Women		Men	Women	Men	Women
1	2	3	4	5	6	7	8	9	10	11
United States.....	9,714,703	2,906,671	2,556,560	1,899,277	2,652,201	9,975,064	2,826,203	2,641,277	1,947,421	2,780,163
Alabama.....	160,432	53,532	56,556	23,129	27,215	162,278	52,940	57,138	23,956	28,244
Alaska.....	26,369	4,134	4,537	7,407	10,291	25,991	3,605	4,040	7,184	10,962
Arizona.....	213,570	43,961	40,913	55,504	73,182	228,552	44,688	42,836	60,390	80,638
Arkansas.....	66,780	22,070	23,597	8,163	14,930	68,313	22,278	24,626	7,577	13,634
California.....	1,522,103	306,255	306,036	392,923	518,669	1,580,532	312,487	318,683	407,439	541,923
Colorado.....	157,556	48,346	42,331	29,050	39,829	181,594	48,453	45,511	27,266	40,364
Connecticut.....	96,828	21,908	23,852	20,028	33,040	102,561	22,170	24,462	20,589	35,310
Delaware.....	28,094	8,308	10,442	4,402	5,742	29,647	8,484	10,577	4,367	6,189
District of Columbia.....	11,800	2,153	2,182	3,313	4,172	10,851	1,781	1,782	3,419	3,909
Florida.....	365,438	82,188	85,848	87,967	129,435	405,292	84,068	89,710	92,985	138,529
Georgia.....	147,269	47,183	47,747	21,851	30,488	<sup>3</sup> 174,355	52,214	53,587	29,412	39,142
Hawaii.....	42,593	11,535	12,573	8,127	10,358	42,748	11,143	12,427	6,251	10,925
Idaho.....	35,532	11,819	9,942	5,705	8,266	34,791	11,649	10,203	5,289	7,650
Illinois.....	530,565	120,002	115,455	120,090	175,018	521,117	119,783	118,890	111,705	170,789
Indiana.....	194,139	59,931	57,265	34,167	42,756	201,457	60,279	58,476	36,304	45,396
Iowa.....	110,439	43,123	37,317	12,635	17,364	112,007	42,754	37,629	12,879	18,945
Kansas.....	129,644	36,684	34,014	22,449	34,897	133,383	39,069	35,532	22,925	35,857
Kentucky.....	115,058	34,395	37,362	18,118	27,183	122,019	35,284	39,513	17,297	29,925
Louisiana.....	146,297	52,674	53,185	18,293	24,145	148,492	52,192	55,066	18,013	25,221
Maine.....	34,480	10,109	9,369	5,785	9,217	35,159	9,687	9,550	5,974	9,748
Maryland.....	199,433	43,689	45,987	43,990	65,787	203,711	44,402	47,258	44,870	67,381
Massachusetts.....	176,815	45,030	50,667	32,733	50,185	187,091	48,252	53,975	33,743	53,121
Michigan.....	445,787	108,332	108,419	99,998	129,418	459,313	110,873	112,289	101,937	134,414
Minnesota.....	178,790	54,136	51,489	28,651	44,514	186,096	52,048	50,690	33,692	49,666
Mississippi.....	89,925	32,852	35,281	8,628	12,964	93,284	34,094	36,899	8,697	13,594
Missouri.....	118,883	47,408	47,477	29,779	44,219	171,248	47,713	48,630	29,399	45,304
Montana.....	31,192	12,536	10,837	3,114	4,705	31,858	11,956	10,543	3,797	5,562
Nebraska.....	44,282	23,926	21,303	18,315	22,718	84,901	23,584	21,797	18,175	23,345
Nevada.....	48,490	8,714	8,306	13,506	19,964	47,791	7,098	8,899	13,838	19,856
New Hampshire.....	28,733	8,506	9,482	4,815	5,928	30,889	8,635	9,735	5,742	6,767
New Jersey.....	235,793	54,936	56,983	50,723	73,149	235,408	54,812	58,176	50,374	72,244
New Mexico.....	78,566	19,976	18,544	17,340	22,704	81,298	20,353	19,392	17,768	23,785
New York.....	565,244	160,353	179,214	87,144	138,533	587,046	151,741	174,299	93,745	147,261
North Carolina.....	262,638	68,601	78,597	47,964	67,278	258,930	68,165	79,844	45,410	65,370
North Dakota.....	34,698	14,933	11,986	3,437	4,542	34,348	14,845	12,035	3,201	4,287
Ohio.....	384,810	114,776	113,603	68,956	89,473	391,831	118,218	118,403	66,462	90,748
Oklahoma.....	149,043	41,958	38,234	29,304	40,547	148,908	41,557	39,855	27,783	39,711
Oregon.....	125,879	36,824	33,684	23,741	31,630	133,458	35,240	33,449	27,253	37,518
Pennsylvania.....	304,190	98,497	93,072	45,433	67,188	311,210	100,060	97,700	45,038	68,412
Rhode Island.....	35,511	8,278	9,890	8,244	11,099	36,317	8,484	10,820	8,135	11,076
South Carolina.....	108,191	34,259	36,547	14,730	22,855	113,352	35,238	37,738	15,562	24,814
South Dakota.....	24,036	9,158	8,073	2,758	4,047	24,147	9,126	8,052	2,689	4,300
Tennessee.....	149,443	44,450	44,429	25,378	35,186	154,104	44,711	45,853	26,390	37,150
Texas.....	685,542	181,514	166,825	148,989	188,414	709,710	190,178	180,717	147,826	190,989
Utah.....	73,067	26,994	21,362	13,258	11,453	74,453	24,483	19,540	15,681	14,789
Vermont.....	18,734	6,032	6,405	1,992	4,305	19,360	6,012	6,561	2,124	4,663
Virginia.....	265,687	65,191	68,941	52,942	76,613	275,583	87,709	72,198	54,462	60,514
Washington.....	212,338	60,085	57,644	36,502	58,107	214,207	59,514	58,818	37,350	58,527
West Virginia.....	67,078	21,228	20,931	8,598	18,321	87,959	21,583	21,708	8,451	18,217
Wisconsin.....	244,948	81,266	81,299	36,446	45,937	240,533	76,310	79,514	36,720	47,989
Wyoming.....	23,735	7,102	8,407	3,838	8,388	25,441	7,397	7,074	3,967	7,003
U.S. Service Schools.....	53,302	48,811	8,339	125	27	60,136	50,868	8,545	219	506
Outlying areas.....	87,979	21,550	30,349	6,178	9,902	68,785	19,803	30,474	5,867	10,641
American Samoa.....	759	196	164	180	219	897	211	173	189	324
Guam.....	4,477	1,078	1,135	1,112	1,152	4,072	787	917	1,224	1,144
Northern Marianas.....	514	111	93	123	187	366	57	53	104	152
Puerto Rico.....	58,939	19,509	28,209	4,205	7,018	57,662	18,224	28,363	3,663	7,412
Trust Territory of the Pacific.....	795	450	197	68	80	1,223	318	389	209	327
Virgin Islands.....	2,495	206	551	490	1,248	2,545	206	579	478	1,282

<sup>1</sup> Data have been revised from previously published figures

<sup>2</sup> Preliminary data

<sup>3</sup> Part of the 1987 increase is due to the inclusion of additional public 2-year institutions in the survey.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys. (This table was prepared March 1989)

**Table 168.—Total enrollment in private institutions of higher education, by attendance status, sex, and State: Fall 1986 and fall 1987**

State or other area	Fall 1986 <sup>1</sup>					Fall 1987 <sup>2</sup>				
	Total	Full-time		Part-time		Total	Full-time		Part-time	
		Men	Women	Men	Women		Men	Women	Men	Women
1	2	3	4	5	6	7	8	9	10	11
<b>United States.....</b>	<b>2,789,792</b>	<b>992,624</b>	<b>964,221</b>	<b>388,404</b>	<b>446,543</b>	<b>2,793,243</b>	<b>984,715</b>	<b>979,311</b>	<b>373,792</b>	<b>455,425</b>
Alabama.....	21,011	8,318	9,310	1,232	2,151	21,070	8,444	9,300	1,265	2,061
Alaska.....	1,123	303	348	127	347	946	258	348	129	211
Arizona.....	13,027	8,349	3,541	574	563	8,681	5,437	2,092	654	498
Arkansas.....	10,422	4,306	4,735	428	953	10,960	4,371	4,979	537	1,073
California.....	205,624	77,217	66,239	34,926	27,242	207,460	74,640	87,852	35,580	29,428
Colorado.....	19,872	7,223	8,388	3,068	3,193	21,989	7,899	7,548	3,222	3,320
Connecticut.....	59,450	18,200	17,549	11,063	12,638	59,821	17,928	17,798	11,078	13,017
Delaware.....	5,001	875	1,235	1,271	1,620	7,003	1,519	1,978	1,369	2,137
District of Columbia.....	65,852	20,913	22,025	11,257	11,657	66,715	21,222	22,956	11,064	11,473
Florida.....	196,526	37,454	30,803	17,171	13,098	64,872	32,649	24,716	14,817	12,448
Georgia.....	47,854	19,018	18,798	4,407	5,633	49,711	19,187	21,083	4,284	5,157
Hawaii.....	9,103	3,156	2,731	1,998	1,218	9,545	3,191	2,796	2,150	1,406
Idaho.....	9,728	3,348	4,437	641	1,102	10,778	3,758	5,132	826	1,060
Illinois.....	161,527	55,918	50,073	25,203	30,333	165,837	55,588	52,315	26,062	31,902
Indiana.....	56,046	24,744	20,381	3,795	7,126	54,807	23,708	20,457	3,821	7,021
Iowa.....	44,930	17,855	18,929	4,170	5,976	48,223	17,771	18,854	4,641	8,957
Kansas.....	13,364	5,062	5,107	1,096	2,099	13,056	4,831	4,944	1,275	2,006
Kentucky.....	29,504	10,819	11,554	2,367	4,964	31,332	10,906	11,826	2,983	5,817
Louisiana.....	25,047	9,810	10,041	2,160	3,036	24,737	9,707	9,436	2,331	3,263
Maine.....	11,770	4,021	4,927	913	1,909	12,395	4,026	5,285	895	2,186
Maryland.....	34,059	8,973	10,149	8,826	8,311	35,651	9,491	10,610	8,680	8,870
Massachusetts.....	238,947	81,002	85,317	32,191	40,437	238,825	80,109	85,329	31,178	40,211
Michigan.....	74,661	22,239	25,270	11,126	16,026	78,173	21,646	25,898	11,191	17,438
Minnesota.....	47,768	18,795	20,457	3,481	5,035	51,116	19,859	21,690	5,563	5,613
Mississippi.....	11,179	3,453	4,120	1,378	2,228	12,226	3,561	4,836	1,569	2,260
Missouri.....	77,302	24,454	21,297	14,774	16,777	80,532	25,982	22,804	14,915	16,831
Montana.....	4,046	973	1,395	898	980	4,024	994	1,259	751	1,020
Nebraska.....	18,139	5,442	5,796	1,760	3,141	15,927	5,585	5,819	1,662	2,861
Nevada.....	306	175	79	31	21	22	134	50	36	52
New Hampshire.....	25,153	8,771	8,452	3,318	4,612	25,264	8,478	8,102	3,391	5,293
New Jersey.....	59,560	18,938	16,551	10,649	13,222	59,025	18,451	16,669	10,601	13,304
New Mexico.....	1,705	395	435	383	492	1,776	574	518	315	389
New York.....	435,645	148,593	149,602	57,107	80,343	425,498	144,895	149,527	54,138	78,938
North Carolina.....	60,341	25,269	26,460	3,177	5,435	62,321	25,526	27,275	3,618	5,904
North Dakota.....	2,411	828	1,025	197	361	2,704	1,087	1,181	146	290
Ohio.....	135,704	42,542	39,600	34,733	18,829	126,833	41,454	36,918	25,736	20,525
Oklahoma.....	21,797	8,526	8,783	3,412	3,076	23,824	9,605	7,866	3,121	3,232
Oregon.....	13,922	7,887	8,629	2,019	2,387	18,199	8,293	7,038	1,774	2,094
Pennsylvania.....	241,734	85,954	81,286	34,016	40,478	243,160	89,412	84,485	29,953	39,310
Rhode Island.....	34,061	13,400	12,262	4,095	4,304	35,391	14,009	12,473	4,362	4,547
South Carolina.....	25,924	9,925	12,223	1,892	2,084	27,489	10,287	13,147	1,804	2,251
South Dakota.....	8,899	1,844	2,974	642	1,439	7,608	2,050	3,238	718	1,602
Tennessee.....	47,626	19,643	20,667	2,825	4,491	47,902	19,198	20,662	3,116	4,925
Texas.....	90,477	37,413	33,456	9,941	9,667	92,516	35,646	33,363	12,281	11,226
Utah.....	33,148	12,552	11,218	4,555	4,821	32,339	12,342	11,517	4,164	4,318
Vermont.....	13,726	5,074	5,459	930	2,263	13,862	5,108	5,458	936	2,380
Virginia.....	42,631	15,063	19,250	3,255	5,063	43,443	15,205	19,384	3,341	5,513
Washington.....	30,112	10,211	11,614	3,759	4,528	31,665	10,643	12,305	3,920	4,787
West Virginia.....	9,703	3,254	3,644	948	1,857	9,297	2,991	3,604	970	1,732
Wisconsin.....	38,705	13,709	13,600	4,419	6,977	41,184	14,475	14,582	4,662	7,465
Wyoming.....	822	620	2	--	--	621	615	6	--	--
<b>Outlying areas.....</b>	<b>97,641</b>	<b>29,821</b>	<b>46,608</b>	<b>8,424</b>	<b>12,768</b>	<b>90,024</b>	<b>29,389</b>	<b>43,427</b>	<b>6,795</b>	<b>11,413</b>
American Samoa.....	--	--	--	--	--	--	--	--	--	--
Guam.....	--	--	--	--	--	--	--	--	--	--
Northern Marianas.....	--	--	--	--	--	--	--	--	--	--
Puerto Rico.....	97,641	29,821	46,608	8,424	12,768	90,024	29,389	43,427	6,795	11,413
Trust Territory of the Pacific.....	--	--	--	--	--	--	--	--	--	--
Virgin Islands.....	--	--	--	--	--	--	--	--	--	--

<sup>1</sup> Data have been revised from previously published figures

<sup>2</sup> Preliminary data

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years.

--Data not reported or not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989)

**Table 169.—Total enrollment in institutions of higher education, by control and type of institution and State:  
Fall 1986 and fall 1987**

State or other area	Fall 1986 <sup>1</sup>				Fall 1987 <sup>2</sup>			
	Public 4-year	Public 2-year	Private 4-year	Private 2-year	Public 4-year	Public 2-year	Private 4-year	Private 2-year
1	2	3	4	5	6	7	8	9
<b>United States</b> .....	<b>5,300,690</b>	<b>4,414,129</b>	<b>2,523,922</b>	<b>266,970</b>	<b>5,422,010</b>	<b>4,541,054</b>	<b>2,558,075</b>	<b>235,168</b>
Alabama .....	103,575	56,857	16,569	4,442	105,914	56,364	17,466	3,602
Alaska .....	10,578	15,791	1,123	—	11,341	14,650	948	—
Arizona .....	86,732	126,838	11,004	2,023	89,373	139,179	6,888	1,793
Arkansas .....	54,350	14,410	8,879	1,543	53,885	14,426	9,025	1,935
California .....	487,677	1,034,426	194,223	11,401	503,253	1,077,279	196,190	11,290
Colorado .....	106,143	51,413	15,558	4,314	106,571	55,023	17,708	4,281
Connecticut .....	58,998	39,830	57,866	1,784	62,024	40,537	58,090	1,731
Delaware .....	20,958	7,936	5,001	—	21,456	8,191	7,003	—
District of Columbia .....	11,800	—	65,852	—	10,851	—	66,715	—
Florida .....	<sup>3</sup> 150,177	235,261	84,653	13,873	150,916	254,378	80,590	4,062
Georgia .....	116,634	30,635	36,920	8,934	<sup>4</sup> 124,991	49,364	41,651	8,060
Hawaii .....	22,667	19,806	9,103	—	22,404	20,342	9,545	—
Idaho .....	29,620	6,912	2,353	7,375	29,761	5,010	2,397	8,379
Illinois .....	195,681	334,684	152,508	9,019	197,057	324,060	156,401	9,436
Indiana .....	162,314	31,625	52,006	4,038	166,736	34,721	51,397	3,410
Iowa .....	70,055	40,384	41,481	3,448	69,335	42,872	42,898	3,325
Kansas .....	85,160	44,664	12,096	1,268	85,846	47,537	11,809	1,247
Kentucky .....	89,489	25,569	20,750	8,754	93,857	26,182	23,236	8,096
Louisiana .....	132,032	14,265	23,142	1,905	134,148	14,344	23,596	1,141
Maine .....	29,491	4,969	10,614	956	29,667	5,272	11,437	958
Maryland .....	105,534	93,899	33,299	780	107,196	96,515	34,799	852
Massachusetts .....	106,699	69,916	220,903	18,044	113,440	73,651	220,982	15,843
Michigan .....	236,648	209,119	68,183	6,478	244,268	215,025	72,557	3,616
Minnesota .....	130,926	47,864	43,265	4,503	132,316	53,780	46,306	4,610
Mississippi .....	50,415	39,510	9,494	1,685	50,382	42,902	9,914	2,312
Missouri .....	110,683	58,200	74,270	3,032	111,911	59,335	77,303	3,229
Montana .....	27,681	3,511	2,967	1,059	27,234	4,624	3,312	712
Nebraska .....	55,264	28,978	15,787	352	55,552	29,349	15,474	453
Nevada .....	22,496	23,992	261	25	23,425	24,366	247	25
New Hampshire .....	21,507	7,226	22,560	2,593	22,612	8,267	23,058	2,206
New Jersey .....	131,388	104,405	57,147	2,413	131,659	103,549	56,471	2,554
New Mexico .....	46,248	32,320	1,705	—	47,471	33,627	1,776	—
New York .....	336,380	226,864	400,406	35,239	342,436	224,610	394,534	30,964
North Carolina .....	133,415	129,223	53,783	6,558	135,340	123,590	55,535	6,766
North Dakota .....	27,389	7,509	2,311	100	27,356	6,950	2,466	238
Ohio .....	262,654	122,156	102,130	33,574	270,167	121,664	103,196	23,435
Oklahoma .....	93,640	55,403	17,222	4,575	93,619	55,267	16,464	5,360
Oregon .....	61,584	64,295	18,556	366	68,616	66,642	18,670	329
Pennsylvania .....	192,626	111,564	208,082	33,652	222,583	98,627	209,846	33,314
Rhode Island .....	22,415	13,096	34,961	—	23,210	13,107	35,391	—
South Carolina .....	70,304	37,887	21,342	4,582	74,799	38,553	22,361	5,108
South Dakota .....	24,036	—	6,243	658	24,147	—	6,900	708
Tennessee .....	100,455	48,968	42,029	5,597	102,702	51,402	42,302	5,600
Texas .....	369,908	315,634	87,023	3,454	376,531	333,179	80,975	3,541
Utah .....	51,937	21,130	31,655	1,491	52,622	21,831	31,220	1,119
Vermont .....	15,079	3,655	11,967	1,759	15,390	3,970	11,809	2,073
Virginia .....	147,946	117,741	40,130	2,501	151,589	123,994	42,011	1,432
Washington .....	77,313	135,025	29,880	1,232	77,722	136,485	30,258	1,407
West Virginia .....	57,528	9,550	7,109	2,594	58,311	9,648	7,105	2,192
Wisconsin .....	154,626	90,322	37,409	1,296	151,329	89,204	39,621	1,583
Wyoming .....	9,980	13,755	—	622	10,401	15,040	—	621
U.S. Service Schools .....	18,685	34,817	—	—	19,626	40,310	—	—
<b>Outlying areas</b> .....	<b>59,070</b>	<b>6,909</b>	<b>87,191</b>	<b>10,450</b>	<b>57,508</b>	<b>9,277</b>	<b>80,536</b>	<b>9,488</b>
American Samoa .....	—	759	—	—	—	697	—	—
Guam .....	2,656	1,821	—	—	2,210	1,862	—	—
Northern Marianas .....	—	514	—	—	—	366	—	—
Puerto Rico .....	53,919	5,020	87,191	10,450	52,753	4,929	80,536	9,488
Trust Territory of the Pacific .....	—	795	—	—	—	1,223	—	—
Virgin Islands .....	2,495	—	—	—	2,545	—	—	—

<sup>1</sup> Data have been revised from previously published figures

<sup>2</sup> Preliminary data.

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years.

<sup>4</sup> Part of the 1987 increase is due to the inclusion of additional public 2-year institutions in the survey

—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989)

**Table 170.—Total enrollment in institutions of higher education, by level of enrollment and State:  
Fall 1986 and 1987**

State or other area	Fall 1986 <sup>1</sup>				Fall 1987 <sup>2</sup>			
	Total	Undergraduate	First-professional	Graduate	Total	Undergraduate	First-professional	Graduate
1	2	3	4	5	6	7	8	9
<b>United States</b>	<b>12,604,601</b>	<b>10,798,600</b>	<b>270,413</b>	<b>1,435,288</b>	<b>12,768,307</b>	<b>11,047,902</b>	<b>268,467</b>	<b>1,451,938</b>
Alabama	181,443	162,635	2,955	15,853	183,348	164,041	3,009	16,298
Alaska	27,492	25,691	—	1,801	26,937	25,694	—	1,243
Arizona	226,597	202,158	1,447	22,994	237,233	213,799	1,451	21,983
Arkansas	79,182	70,896	1,320	8,966	79,273	72,089	1,315	5,869
California	1,727,727	1,533,397	29,812	164,718	1,788,012	1,588,445	29,447	170,120
Colorado	177,428	151,355	3,437	22,636	183,583	158,146	3,003	22,434
Connecticut	158,278	125,352	3,275	29,651	162,382	128,126	3,363	30,893
Delaware	33,895	30,980	—	2,915	38,650	32,711	1,029	2,910
District of Columbia	77,852	48,077	8,827	22,748	77,566	46,267	6,587	22,712
Florida	483,964	431,811	6,989	45,364	489,964	438,128	7,232	44,604
Georgia	195,123	181,902	8,940	26,281	224,066	189,718	7,437	26,911
Hawaii	51,696	45,628	496	5,572	52,291	47,100	475	4,716
Idaho	45,260	39,668	265	5,327	45,587	39,906	296	5,365
Illinois	692,092	594,119	17,111	80,862	686,954	587,099	17,022	82,833
Indiana	250,185	215,096	5,490	9,599	258,264	221,107	5,312	29,845
Iowa	155,389	133,586	5,945	15,838	158,230	135,016	8,094	17,120
Kansas	143,208	121,924	2,275	19,009	148,439	125,625	2,219	18,595
Kentucky	144,582	123,931	4,518	16,113	153,351	131,422	4,484	17,445
Louisiana	171,344	145,813	8,026	19,505	173,229	147,524	5,466	20,239
Maine	46,230	43,029	548	2,653	47,554	44,190	548	2,818
Maryland	233,482	200,662	3,713	29,117	239,362	204,581	3,778	31,006
Massachusetts	417,582	335,863	13,095	68,604	423,916	342,575	13,189	68,172
Michigan	520,428	458,133	9,881	52,414	535,486	471,061	9,602	54,823
Minnesota	226,558	198,374	5,912	22,272	237,212	207,882	5,702	23,628
Mississippi	101,104	91,010	1,662	8,432	105,510	95,206	1,631	8,673
Missouri	246,185	207,597	8,197	30,391	251,778	210,717	9,415	31,646
Montana	35,238	31,381	771	3,086	35,882	32,340	217	3,325
Nebraska	100,401	87,316	2,697	10,398	100,828	87,803	2,633	10,392
Nevada	46,796	43,790	255	2,751	46,063	44,058	185	3,820
New Hampshire	53,886	47,166	631	6,089	58,163	48,181	745	7,237
New Jersey	295,353	250,955	5,969	38,429	294,433	249,369	6,183	38,881
New Mexico	80,271	69,758	612	9,903	83,074	71,939	625	10,510
New York	1,000,889	820,145	25,868	154,875	992,544	812,195	26,202	154,147
North Carolina	322,979	290,339	5,965	26,675	321,251	287,980	6,088	27,183
North Dakota	37,309	33,541	420	3,348	37,052	33,670	407	2,975
Ohio	520,514	450,877	12,737	57,100	518,464	449,360	12,078	57,028
Oklahoma	170,840	148,168	3,853	20,819	172,730	148,293	3,672	20,785
Oregon	144,801	127,881	3,459	13,461	152,657	133,594	3,340	15,723
Pennsylvania	545,924	466,147	13,942	65,835	554,370	471,730	13,950	68,890
Rhode Island	89,572	60,901	293	8,378	71,708	62,814	288	8,606
South Carolina	134,115	116,350	2,620	15,145	140,841	123,988	2,496	17,357
South Dakota	30,935	27,135	459	3,341	31,755	28,178	423	3,154
Tennessee	197,069	171,328	5,517	20,224	202,006	175,569	5,506	20,931
Texas	778,019	657,769	17,777	100,473	802,226	694,452	15,374	92,400
Utah	106,213	95,437	1,257	9,519	106,792	95,676	1,276	9,840
Vermont	32,460	28,796	355	3,309	33,242	29,492	369	3,381
Virginia	308,318	265,773	6,041	36,504	319,026	276,121	6,084	36,821
Washington	242,450	221,984	3,138	17,328	245,872	224,660	3,054	18,158
West Virginia	76,781	66,708	1,229	8,844	77,256	67,415	1,232	8,609
Wisconsin	283,653	252,579	3,779	27,295	281,717	251,259	3,706	26,752
Wyoming	24,357	22,451	191	1,715	26,062	24,149	206	1,707
U.S. Service Schools	53,302	50,042	641	2,619	60,136	58,442	1,046	648
<b>Outlying areas</b>	<b>165,620</b>	<b>153,367</b>	<b>3,172</b>	<b>9,081</b>	<b>156,809</b>	<b>145,196</b>	<b>2,312</b>	<b>9,301</b>
American Samoa	759	759	—	—	897	897	—	—
Guam	4,477	4,058	—	419	4,072	3,808	—	264
Northern Marianas	514	514	—	—	366	366	—	—
Puerto Rico	156,580	144,820	3,172	8,488	147,706	136,541	2,312	8,853
Trust Territory of the Pacific	795	795	—	—	1,223	1,223	—	—
Virgin Islands	2,495	2,321	—	174	2,545	2,361	—	164

<sup>1</sup> Data have been revised from previously published figures

—Data not reported or not applicable

<sup>2</sup> Preliminary data

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years.

<sup>4</sup> Part of the 1987 increase is due to the inclusion of additional public 2-year institutions in the survey.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989)

**Table 171.—Total first-time freshmen enrollment in institutions of higher education, by attendance status, sex, control of institution, and State: Fall 1986 and fall 1987**

State or other area	Fall 1986 <sup>1</sup>		Fall 1987 <sup>2</sup>								
	Total	Full-time	Total	Full-time			Part-time			Public institutions	Private institutions
				Total	Men	Women	Total	Men	Women		
1	2	3	4	5	6	7	8	9	10	11	12
<b>United States</b>	<b>2,219,402</b>	<b>1,589,573</b>	<b>2,246,352</b>	<b>1,626,764</b>	<b>779,211</b>	<b>847,553</b>	<b>619,588</b>	<b>267,374</b>	<b>352,214</b>	<b>1,737,646</b>	<b>508,706</b>
Alabama	39,160	31,649	40,161	32,777	15,125	17,652	7,404	3,331	4,073	34,607	5,544
Alaska	1,384	1,202	759	611	295	316	148	53	95	630	129
Arizona	56,229	22,372	56,345	25,683	13,731	11,952	30,662	13,384	17,278	53,048	3,297
Arkansas	16,781	13,750	16,772	14,311	6,525	7,786	2,461	807	1,654	13,697	3,075
California	276,246	131,435	277,766	135,779	66,293	69,486	141,987	63,729	78,258	254,227	23,539
Colorado	27,429	20,792	30,026	21,484	10,622	10,862	8,542	3,590	4,952	25,456	4,570
Connecticut	30,238	18,885	30,244	19,545	9,349	10,196	10,699	4,353	6,346	21,193	9,051
Delaware	7,484	5,468	7,186	5,622	2,400	3,218	1,564	657	907	6,031	1,155
District of Columbia	10,370	7,807	9,705	7,827	3,310	4,517	1,678	668	1,210	2,379	7,326
Florida	376,161	56,700	75,808	48,799	23,949	24,850	27,009	11,636	15,373	58,721	17,087
Georgia	38,061	32,670	45,922	37,923	18,122	19,801	7,999	3,515	4,484	33,514	12,408
Hawaii	8,733	5,874	8,427	5,729	2,698	3,031	2,698	1,366	1,332	6,120	2,307
Idaho	9,740	7,954	9,863	8,479	3,879	4,600	1,384	611	773	5,453	4,410
Illinois	106,092	68,776	109,599	72,757	35,756	37,001	36,842	15,096	21,746	85,310	24,289
Indiana	47,439	38,772	50,420	39,575	19,369	20,206	10,845	4,882	5,963	37,440	12,980
Iowa	35,308	29,627	35,439	29,580	14,993	14,587	5,859	2,244	3,615	26,267	9,152
Kansas	26,844	18,231	26,506	19,788	9,346	9,442	7,718	3,258	4,460	23,599	2,907
Kentucky	27,152	22,559	28,156	23,867	10,915	12,952	4,289	1,497	2,792	20,549	7,607
Louisiana	29,232	25,488	30,631	27,444	12,284	15,160	3,187	1,281	1,906	25,691	4,940
Maine	9,202	7,778	9,085	7,185	3,862	4,323	900	298	602	5,995	3,090
Maryland	31,714	21,334	30,763	21,338	9,828	11,510	9,425	3,575	5,850	25,946	4,817
Massachusetts	79,372	61,274	77,906	62,384	27,296	31,088	15,522	6,759	8,763	35,924	41,982
Michigan	98,118	61,216	94,593	61,247	28,544	32,703	33,346	14,812	18,534	80,079	14,514
Minnesota	48,234	35,790	46,716	35,468	16,849	18,429	11,228	4,153	7,075	36,112	10,604
Mississippi	25,370	21,143	27,067	22,968	10,415	12,553	4,099	1,453	2,646	24,411	2,656
Missouri	36,229	29,180	36,375	30,755	14,467	16,288	5,620	2,144	3,476	26,262	10,113
Montana	5,567	4,889	5,365	4,664	2,318	2,346	701	304	397	4,502	863
Nebraska	18,632	12,062	16,644	12,911	6,232	6,679	3,733	1,561	2,172	13,673	2,971
Nevada	6,000	2,970	6,655	2,911	1,411	1,500	3,744	1,523	2,221	6,557	98
New Hampshire	10,987	9,584	11,330	9,640	4,769	4,877	1,690	660	1,030	6,015	5,315
New Jersey	45,240	32,355	41,634	34,110	15,883	18,227	7,524	2,866	4,658	33,791	7,843
New Mexico	8,677	6,722	9,012	7,156	3,577	3,579	1,856	755	1,101	8,740	272
New York	165,963	144,975	163,900	140,488	65,005	75,483	23,412	9,457	13,955	100,491	63,409
North Carolina	67,354	53,097	62,157	51,595	23,712	27,883	10,562	4,815	5,747	47,561	14,598
North Dakota	8,017	6,977	6,249	7,584	4,172	3,412	665	293	372	7,515	734
Ohio	104,564	70,822	98,903	71,171	34,304	36,867	27,732	15,523	12,209	67,891	31,012
Oklahoma	29,327	19,311	31,424	21,648	10,801	10,847	9,776	3,860	5,916	26,833	4,591
Oregon	25,151	17,133	26,387	18,500	9,156	9,344	7,887	3,418	4,469	23,075	3,312
Pennsylvania	104,148	85,919	113,999	94,831	46,966	47,865	19,168	7,188	12,000	62,811	51,188
Rhode Island	12,572	11,554	13,700	12,254	6,024	6,230	1,446	550	896	5,778	7,922
South Carolina	28,674	24,435	32,124	26,083	11,970	14,113	6,041	2,691	3,350	24,303	7,821
South Dakota	5,889	5,163	6,623	5,867	2,769	3,098	756	287	469	4,599	2,024
Tennessee	32,840	28,722	34,492	30,368	14,148	16,220	4,124	1,682	2,442	23,424	11,068
Texas	124,574	89,100	134,756	55,661	47,575	48,086	39,095	17,035	22,060	118,473	16,283
Utah	21,469	18,977	25,285	11,743	5,597	6,146	3,542	1,655	1,887	9,925	5,360
Vermont	6,908	6,391	6,578	6,026	3,020	3,006	552	129	423	3,463	3,115
Virginia	46,773	38,234	48,972	40,227	18,161	22,066	8,745	3,712	5,033	38,703	10,269
Washington	68,705	38,326	68,450	38,753	18,954	13,799	29,697	12,631	17,066	63,415	5,035
West Virginia	13,586	11,146	15,568	12,684	6,141	6,543	2,884	872	2,012	13,465	2,103
Wisconsin	52,410	43,765	51,357	41,760	19,926	21,834	9,597	4,297	5,300	44,025	7,332
Wyoming	5,175	4,154	5,837	4,514	2,509	2,005	1,323	477	846	5,216	621
U.S. Service Schools	4,151	4,151	4,691	4,670	3,875	795	21	1	20	4,691	—
Outlying areas	35,383	31,758	29,768	27,362	11,185	16,177	2,406	914	1,492	13,488	16,280
American Samoa	270	144	461	205	102	103	256	48	208	461	—
Guam	520	417	341	235	101	134	106	50	56	341	—
Northern Marianas	138	96	96	28	13	15	68	34	34	96	—
Puerto Rico	33,983	30,684	28,243	26,398	10,794	15,604	1,845	730	1,115	11,963	16,280
Trust Territory of the Pacific	214	204	383	267	115	152	116	49	67	383	—
Virgin Islands	258	213	244	229	60	169	15	1	12	244	—

<sup>1</sup> Data have been revised from previously published figures

—Data not available

<sup>2</sup> Preliminary data.

<sup>3</sup> Because of imputation techniques, data are not consistent with figures for other years.

<sup>4</sup> Part of the 1987 increase is due to the inclusion of additional public 2 year institutions in the survey

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Fall Enrollment" survey. This table was prepared March 1999.

Table 172.—Full-time-equivalent enrollment in institutions of higher education, by control and type of institution and State: Fall 1986 and fall 1987<sup>1</sup>

State or other area	Fall 1986					Fall 1987 <sup>1</sup>				
	Total	Public 4-year	Public 2-year	Private 4-year	Private 2-year	Total	Public 4-year	Public 2-year	Private 4-year	Private 2-year
1	2	3	4	5	6	7	8	9	10	11
United States	9,082,579	4,298,189	2,482,442	2,063,615	220,983	9,228,513	4,397,097	2,541,520	2,089,353	200,543
Alabama	147,490	86,181	42,375	14,908	4,046	148,257	87,696	41,307	15,720	3,325
Alaska	15,720	7,743	7,144	833	—	15,023	6,020	8,264	739	—
Arizona	141,719	69,663	59,518	10,403	1,935	144,196	71,832	64,364	6,167	1,793
Arkansas	83,801	45,495	8,727	6,095	1,464	84,943	45,864	9,099	8,227	1,759
California	1,093,183	402,215	522,749	157,754	10,485	1,125,891	413,464	544,065	158,017	10,345
Colorado	129,573	86,579	26,911	12,439	3,644	136,212	89,980	28,207	14,296	3,729
Connecticut	109,733	44,827	19,842	43,633	1,331	111,803	46,753	19,957	43,808	1,285
Delaware	25,703	17,810	4,652	3,241	—	27,857	16,193	4,737	4,927	—
District of Columbia	59,307	7,308	—	51,999	—	59,534	8,458	—	53,078	—
Florida	324,334	113,345	130,932	66,803	13,254	322,729	114,503	140,218	63,990	4,020
Georgia	156,307	94,733	19,616	33,486	6,270	175,030	100,997	30,054	36,666	7,021
Hawaii	37,805	18,510	12,149	7,146	—	37,770	18,190	12,198	7,362	—
Idaho	35,343	22,264	4,526	2,113	6,440	36,401	23,218	3,549	2,138	7,498
Illinois	484,919	160,635	178,252	119,722	8,110	486,758	181,660	174,421	122,232	8,445
Indiana	195,835	127,313	19,089	45,773	3,660	199,040	130,800	19,878	45,304	3,058
Iowa	130,006	60,776	30,466	35,820	3,142	130,900	59,859	31,875	36,180	2,966
Kansas	104,873	66,101	25,143	10,287	1,142	106,772	68,987	26,718	9,948	1,121
Kentucky	112,952	71,999	15,669	17,317	7,787	118,501	74,877	17,483	16,905	7,236
Louisiana	143,080	112,682	8,497	20,004	1,897	144,260	114,222	6,885	20,239	1,134
Maine	35,372	21,685	3,432	9,158	697	36,067	22,085	3,466	9,681	835
Maryland	153,872	81,194	47,587	24,235	678	157,610	82,739	48,749	25,360	762
Massachusetts	320,562	83,731	41,941	161,910	12,980	325,279	67,239	44,518	162,159	11,365
Michigan	355,596	191,997	105,333	53,032	5,236	365,091	197,776	108,349	58,032	2,934
Minnesota	175,829	101,563	31,681	38,383	4,202	179,384	98,413	35,662	40,907	4,382
Mississippi	84,946	44,515	31,436	7,491	1,504	88,656	44,630	34,320	7,773	2,133
Missouri	179,816	90,046	31,471	55,429	2,672	184,679	91,050	32,389	58,204	3,036
Montana	29,405	24,315	2,063	2,314	713	28,936	23,388	2,600	2,520	430
Nebraska	72,476	43,783	15,530	12,830	333	72,820	43,994	15,645	12,780	401
Nevada	25,242	15,439	9,522	258	25	26,236	16,225	9,792	194	25
New Hampshire	42,234	17,956	3,957	16,345	1,976	42,905	16,605	4,324	16,364	1,612
New Jersey	201,511	97,357	59,232	43,032	1,690	201,545	97,796	59,242	42,510	1,997
New Mexico	53,927	36,400	16,353	1,174	—	55,860	37,311	17,188	1,381	—
New York	773,891	264,783	157,211	320,882	31,015	780,159	260,827	153,655	318,359	27,316
North Carolina	242,927	112,422	75,382	48,699	6,224	243,616	114,128	72,932	50,066	6,480
North Dakota	31,959	23,723	6,185	1,985	86	32,107	23,926	5,741	2,227	213
Ohio	388,543	215,232	70,067	84,620	16,624	390,388	222,982	68,621	85,020	13,565
Oklahoma	122,871	75,019	29,743	14,846	3,063	125,516	75,586	29,921	15,793	4,218
Oregon	106,167	52,583	37,324	15,914	366	108,315	53,552	37,913	16,521	319
Pennsylvania	428,196	183,404	68,424	168,103	28,265	439,793	188,169	50,683	169,830	31,111
Rhode Island	53,345	17,308	7,097	26,940	—	55,261	16,126	7,173	29,962	—
South Carolina	107,698	58,656	25,582	19,371	4,289	112,516	61,930	25,544	20,297	4,745
South Dakota	25,520	19,685	—	5,202	433	26,104	19,903	—	5,731	470
Tennessee	154,004	81,989	26,805	38,035	5,175	156,694	83,084	30,587	37,854	5,209
Texas	546,379	290,983	178,669	75,236	3,291	569,152	302,307	188,580	74,862	3,493
Utah	65,200	40,126	17,716	26,267	1,179	62,592	40,643	14,766	26,219	962
Vermont	26,516	13,013	1,729	10,264	1,492	26,910	13,241	1,811	10,168	1,690
Virginia	217,840	122,302	57,980	35,225	2,333	225,947	126,045	61,658	39,742	1,302
Washington	175,258	69,682	80,285	23,888	1,203	177,558	70,323	80,688	24,996	1,371
West Virginia	59,578	45,678	5,898	6,121	1,881	60,270	46,677	5,935	6,111	1,547
Wisconsin	223,637	133,059	59,015	30,632	1,131	219,901	130,133	55,972	32,476	1,318
Wyoming	17,857	6,761	6,254	—	822	16,875	9,103	9,151	—	621
U.S. Service Schools	53,206	18,589	34,617	—	—	59,704	19,394	40,310	—	—
Outlying areas	142,854	50,994	7,106	75,158	9,598	135,542	49,557	7,044	70,235	6,706
American Samoa	484	—	484	—	—	556	—	556	—	—
Guam	3,020	2,105	915	—	—	2,546	1,702	844	—	—
Northern Marianas	308	—	308	—	—	196	—	196	—	—
Puerto Rico	136,685	47,438	4,693	75,156	9,598	129,889	46,367	4,581	70,235	6,706
Trust Territory of the Pacific	696	—	696	—	—	867	—	867	—	—
Virgin Islands	1,451	1,451	—	—	—	1,488	1,488	—	—	—

<sup>1</sup> Preliminary data  
—Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" surveys (This table was prepared March 1989)

Table 173.—Residence and migration of all new students<sup>1</sup> in institutions of higher education, by State: Fall 1986

State or other area	Students enrolled in States <sup>2</sup>	Students residents of State	Students remaining in State <sup>3</sup>	Ratio of students remaining to—		Migration of students		
				Students enrolled	Student residents	Out of	Into	Net (column 8—column 7)
1	2	3	4	5	6	7	8	9
United States.....	3,041,294	3,041,294	2,572,399	0.85	0.85	468,895	468,895	0
Alabama.....	47,608	42,001	37,950	0.80	0.90	4,051	9,658	5,607
Alaska.....	2,481	5,015	2,164	0.87	0.43	2,851	317	2,534
Arizona.....	140,686	128,616	124,950	0.89	0.97	3,766	15,836	12,070
Arkansas.....	21,791	22,319	18,454	0.85	0.83	3,865	3,337	528
California.....	460,937	445,435	424,410	0.92	0.95	21,025	36,527	15,502
Colorado <sup>4</sup> .....	2,202	8,498	465	0.21	0.05	8,033	1,737	-6,296
Connecticut.....	41,998	50,115	33,974	0.81	0.68	16,141	8,024	-8,117
Delaware.....	8,803	7,640	5,330	0.61	0.70	2,310	3,473	1,163
District of Columbia.....	17,980	6,958	4,037	0.22	0.58	2,921	13,943	11,022
Florida.....	95,973	95,685	79,750	0.83	0.83	15,935	16,223	288
Georgia.....	54,018	52,785	43,679	0.81	0.83	9,106	10,339	1,233
Hawaii.....	14,850	15,644	12,963	0.87	0.83	2,681	1,887	-794
Idaho.....	12,205	10,949	7,987	0.65	0.73	2,962	4,218	1,256
Illinois.....	164,011	169,488	144,893	0.88	0.85	24,595	19,118	-5,477
Indiana.....	54,419	49,144	42,000	0.77	0.85	7,144	12,419	5,275
Iowa.....	43,162	41,858	35,360	0.82	0.84	6,498	7,802	1,304
Kansas.....	34,109	31,870	27,700	0.81	0.87	4,170	6,409	2,239
Kentucky.....	34,254	33,613	29,178	0.85	0.87	4,435	5,076	641
Louisiana.....	41,023	39,504	34,810	0.85	0.88	4,694	6,213	1,519
Maine.....	12,671	13,572	10,120	0.80	0.75	3,452	2,551	-901
Maryland.....	65,001	68,401	53,712	0.83	0.79	14,689	11,289	-3,400
Massachusetts.....	98,414	86,868	69,983	0.71	0.81	16,885	28,431	11,546
Michigan.....	132,148	133,435	122,390	0.93	0.92	11,045	9,756	-1,289
Minnesota.....	55,769	57,742	46,927	0.84	0.81	10,815	8,842	-1,973
Mississippi.....	30,814	29,898	26,845	0.87	0.90	3,053	3,969	916
Missouri.....	55,504	51,472	43,289	0.78	0.84	8,183	12,215	4,032
Montana.....	8,374	9,689	7,294	0.87	0.75	2,395	1,080	-1,315
Nebraska.....	23,512	23,780	20,347	0.87	0.86	3,433	3,165	-268
Nevada.....	8,999	10,121	7,982	0.89	0.79	2,139	1,017	-1,122
New Hampshire.....	11,068	10,608	5,995	0.54	0.57	4,613	5,073	460
New Jersey.....	69,659	98,371	62,512	0.90	0.64	35,859	7,147	-28,712
New Mexico.....	13,074	13,400	10,519	0.80	0.79	2,881	2,555	-326
New York.....	216,986	225,197	186,704	0.86	0.83	38,493	30,262	-8,231
North Carolina.....	91,606	80,044	74,579	0.81	0.93	7,457	17,027	11,562
North Dakota.....	11,446	10,732	8,715	0.76	0.81	2,017	2,731	714
Ohio.....	193,260	105,207	90,101	0.87	0.86	15,106	13,159	-1,947
Oklahoma.....	31,232	32,786	28,660	0.92	0.87	4,126	2,572	-1,554
Oregon.....	35,912	34,254	29,881	0.83	0.87	4,373	6,031	1,658
Pennsylvania.....	122,745	119,184	97,828	0.80	0.82	21,356	24,917	3,561
Rhode Island.....	16,398	11,418	7,913	0.48	0.69	3,505	8,485	4,980
South Carolina.....	37,453	35,379	30,774	0.82	0.87	4,605	6,679	2,074
South Dakota.....	8,052	8,285	6,113	0.76	0.74	2,172	1,939	-233
Tennessee.....	45,511	41,105	35,041	0.77	0.85	6,064	10,470	4,406
Texas.....	173,121	168,081	157,192	0.91	0.94	10,889	15,929	5,040
Utah.....	20,993	16,876	14,668	0.70	0.87	2,208	6,325	4,117
Vermont.....	8,637	6,062	3,858	0.45	0.64	2,204	4,779	2,575
Virginia.....	53,555	53,970	40,317	0.75	0.75	13,653	13,238	-415
Washington.....	92,805	90,461	83,068	0.89	0.92	7,393	9,837	2,444
West Virginia.....	19,998	18,403	15,876	0.78	0.85	2,727	4,322	1,595
Wisconsin.....	67,814	65,935	58,166	0.86	0.88	7,769	9,648	1,879
Wyoming.....	6,175	6,916	5,276	0.85	0.76	1,840	899	-941
State unknown <sup>5</sup> .....	—	46,505	—	—	—	46,505	—	-46,505

<sup>1</sup> New students are those students who are enrolled at the reporting institution for the first time at each of the following levels: undergraduate, graduate, first-professional, or unclassified.

<sup>2</sup> "Students enrolled in State" are all of the new students reported by the institutions in that State; i.e., all immigrants and "remaining" students (includes foreign students).

<sup>3</sup> "Student residents of State" are all students from a State in which they were residing when first admitted to an institution in any State at the current student level.

<sup>4</sup> "Student remaining in State" are students who attend institutions in their home State.

<sup>5</sup> Response rates were below 70 percent.

<sup>5</sup> Students are reported in "State unknown" when an institution is unable to determine the student's home State.

NOTE—Data for U.S. Service Schools are included in State totals. Excludes students from foreign countries and the outlying areas.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Residence of First-Time Students" survey, 1986 (This table was prepared March 1988).



**Table 174.—Total enrollment in institutions of higher education, by control of institution, sex of student and race/ethnicity: Fall 1976 to fall 1986**

Control of institution and race/ ethnicity of student	Number, in thousands						Percent distribution					
	1976	1978	1980	1982	1984 <sup>1</sup>	1986 <sup>1</sup>	1976	1978	1980	1982	1984	1986
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>All institutions.....</b>	<b>10,986</b>	<b>11,231</b>	<b>12,067</b>	<b>12,366</b>	<b>12,235</b>	<b>12,469</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	9,076	9,194	9,833	9,997	9,815	9,911	82.6	81.9	81.4	80.7	80.2	79.4
Black, non-Hispanic.....	1,033	1,054	1,107	1,101	1,078	1,080	9.4	9.4	9.2	8.9	8.8	8.7
Hispanic.....	384	417	472	519	535	617	3.5	3.7	3.9	4.2	4.4	4.9
Asian or Pacific Islander.....	198	235	286	351	390	448	1.8	2.1	2.4	2.8	3.2	3.8
American Indian/Alaskan Native.....	76	78	84	88	84	90	0.7	0.7	0.7	0.7	0.7	0.7
Nonresident alien.....	219	253	305	331	335	344	2.0	2.2	2.5	2.7	2.7	2.8
<b>Public institutions.....</b>	<b>8,641</b>	<b>8,770</b>	<b>9,456</b>	<b>9,695</b>	<b>9,458</b>	<b>9,714</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	7,095	7,136	7,656	7,785	7,543	7,654	82.1	81.4	81.0	80.3	79.8	78.8
Black, non-Hispanic.....	831	840	878	873	844	854	9.6	9.8	9.3	9.0	8.9	8.8
Hispanic.....	337	363	406	446	456	532	3.9	4.1	4.3	4.8	4.8	5.5
Asian or Pacific Islander.....	168	195	240	296	323	371	1.9	2.2	2.5	3.0	3.4	3.8
American Indian/Alaskan Native.....	68	68	74	77	72	79	0.8	0.8	0.8	0.8	0.8	0.8
Nonresident alien.....	145	187	204	219	218	225	1.7	1.9	2.2	2.3	2.3	2.3
<b>Private institutions.....</b>	<b>2,345</b>	<b>2,461</b>	<b>2,610</b>	<b>2,669</b>	<b>2,777</b>	<b>2,775</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	1,982	2,058	2,177	2,212	2,272	2,257	84.5	83.6	82.8	82.2	81.8	81.3
Black, non-Hispanic.....	202	215	231	228	232	226	8.8	8.7	8.8	8.5	8.3	8.2
Hispanic.....	47	55	66	74	79	84	2.0	2.2	2.5	2.7	2.8	3.0
Asian or Pacific Islander.....	32	40	47	55	67	77	1.4	1.8	1.8	2.1	2.4	2.8
American Indian/Alaskan Native.....	9	9	10	10	11	11	0.4	0.4	0.4	0.4	0.4	0.4
Nonresident alien.....	73	85	101	113	118	119	3.1	3.4	3.8	4.2	4.2	4.3
<b>Men, total.....</b>	<b>5,794</b>	<b>5,821</b>	<b>5,868</b>	<b>5,999</b>	<b>5,859</b>	<b>5,880</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	4,814	4,613	4,773	4,830	4,890	4,644	83.1	82.1	81.3	80.5	80.0	79.0
Black, non-Hispanic.....	470	453	464	458	437	436	8.1	8.1	7.9	7.8	7.5	7.4
Hispanic.....	210	213	232	252	254	290	3.6	3.8	3.6	4.2	4.3	4.9
Asian or Pacific Islander.....	108	126	151	189	210	239	1.9	2.2	2.6	3.2	3.6	4.1
American Indian/Alaskan Native.....	39	37	38	40	38	40	0.7	0.7	0.6	0.7	0.8	0.7
Nonresident alien.....	154	180	211	230	231	232	2.7	3.2	3.6	3.8	3.9	3.9
<b>Women, total.....</b>	<b>5,191</b>	<b>5,409</b>	<b>6,219</b>	<b>6,369</b>	<b>6,376</b>	<b>6,609</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	4,262	4,581	5,060	5,187	5,125	5,267	82.1	81.7	81.4	80.9	80.4	79.7
Black, non-Hispanic.....	563	601	643	644	639	645	10.8	10.7	10.3	10.1	10.0	9.8
Hispanic.....	174	205	240	267	281	327	3.4	3.7	3.9	4.2	4.4	4.9
Asian or Pacific Islander.....	89	109	135	182	180	209	1.7	1.9	2.2	2.5	2.8	3.2
American Indian/Alaskan Native.....	38	41	46	48	46	51	0.7	0.7	0.7	0.7	0.7	0.8
Nonresident alien.....	85	73	94	101	104	111	1.2	1.3	1.5	1.6	1.8	1.7

<sup>1</sup> Data have been revised from previously published figures

NOTE—Because of underreporting and nonreporting of racial/ethnic data, figures are slightly lower than corresponding data in other tables. Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey (This table was prepared February 1989)

**Table 175.—Total enrollment in institutions of higher education, by type of institution and race/ethnicity of student: Fall 1976 to fall 1986**

Type of institution and race/ethnicity of student	Number, in thousands						Percentage distribution of total enrollment					
	1976	1978	1980	1982	1984 <sup>1</sup>	1986 <sup>1</sup>	1976	1978	1980	1982	1984	1986
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>All institutions</b> .....	<b>10,986</b>	<b>11,231</b>	<b>12,087</b>	<b>12,388</b>	<b>12,235</b>	<b>12,489</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	9,076	9,194	9,833	9,997	9,815	9,911	82.6	81.9	81.4	80.7	80.2	79.4
Total minority.....	1,691	1,785	1,949	2,059	2,085	2,235	15.4	15.9	16.1	16.6	17.0	17.9
Black, non-Hispanic.....	1,033	1,054	1,107	1,101	1,076	1,080	9.4	9.4	9.2	8.9	8.8	8.7
Hispanic.....	384	417	472	519	535	617	3.5	3.7	3.9	4.2	4.4	4.9
Asian or Pacific Islander.....	198	235	286	351	390	448	1.8	2.1	2.4	2.8	3.2	3.6
American Indian/Alaskan Native.....	76	78	84	88	84	90	0.7	0.7	0.7	0.7	0.7	0.7
Nonresident alien.....	219	253	305	331	335	344	2.0	2.3	2.5	2.7	2.7	2.8
<b>4-year institutions</b> .....	<b>7,107</b>	<b>7,203</b>	<b>7,565</b>	<b>7,648</b>	<b>7,708</b>	<b>7,818</b>	<b>64.7</b>	<b>64.1</b>	<b>62.6</b>	<b>61.7</b>	<b>63.0</b>	<b>62.6</b>
White, non-Hispanic.....	5,999	6,027	6,275	6,306	6,301	6,333	54.6	53.7	51.9	50.9	51.5	50.7
Total minority.....	931	975	1,050	1,073	1,124	1,194	8.5	8.7	8.7	8.7	9.2	9.6
Black, non-Hispanic.....	604	612	634	612	617	615	5.5	5.4	5.2	4.9	5.0	4.9
Hispanic.....	174	190	217	229	248	278	1.6	1.7	1.8	1.8	2.0	2.2
Asian or Pacific Islander.....	119	138	162	193	223	262	1.1	1.2	1.3	1.6	1.8	2.1
American Indian/Alaskan Native.....	35	35	37	39	38	39	0.3	0.3	0.3	0.3	0.3	0.3
Nonresident alien.....	177	201	241	270	282	291	1.6	1.8	2.0	2.2	2.3	2.3
<b>2-year institutions</b> .....	<b>3,879</b>	<b>4,028</b>	<b>4,521</b>	<b>4,740</b>	<b>4,527</b>	<b>4,671</b>	<b>35.3</b>	<b>35.9</b>	<b>37.4</b>	<b>38.3</b>	<b>37.0</b>	<b>37.4</b>
White, non-Hispanic.....	3,077	3,167	3,558	3,692	3,514	3,575	28.0	28.2	29.4	29.8	28.7	28.6
Total minority.....	760	810	899	987	961	1,040	6.9	7.2	7.4	8.0	7.9	8.3
Black, non-Hispanic.....	429	443	472	489	459	466	3.9	3.9	3.9	3.9	3.7	3.7
Hispanic.....	210	227	255	291	299	338	1.9	2.0	2.1	2.3	2.4	2.7
Asian or Pacific Islander.....	79	97	124	158	167	186	0.7	0.9	1.0	1.3	1.4	1.5
American Indian/Alaskan Native.....	41	43	47	49	46	51	0.4	0.4	0.4	0.4	0.4	0.4
Nonresident alien.....	42	52	54	61	53	53	0.4	0.5	0.5	0.5	0.4	0.4

<sup>1</sup> Data have been revised from previously published figures

NOTE.—Because of underreporting and nonreporting of racial/ethnic data, figures are slightly lower than corresponding data in other tables. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey and unpublished tabulations (This table was prepared February 1989.)

**Table 176.—Total enrollment in institutions of higher education, by level of study and race/ethnicity of student:  
Fall 1976 to fall 1986**

Level of study and race/ethnicity of student	Number, in thousands						Percent distribution, by level of study					
	1976	1978	1980	1982	1984 <sup>1</sup>	1986 <sup>1</sup>	1976	1978	1980	1982	1984	1986
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Undergraduates, total</b> .....	<b>9,520</b>	<b>9,757</b>	<b>10,560</b>	<b>10,875</b>	<b>10,610</b>	<b>10,787</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	7,827	7,948	8,556	8,749	8,484	8,550	82.2	81.4	81.0	80.5	80.0	79.3
Total minority.....	1,550	1,642	1,797	1,907	1,911	2,033	16.3	16.8	17.0	17.5	18.0	18.8
Black, non-Hispanic.....	950	975	1,028	1,028	995	995	10.0	10.0	9.7	9.4	9.4	9.2
Hispanic.....	357	388	438	485	495	562	3.7	4.0	4.1	4.5	4.7	5.2
Asian or Pacific Islander.....	173	206	253	313	343	393	1.8	2.1	2.4	2.9	3.2	3.6
American Indian/Alaskan Native.....	70	72	79	82	78	83	0.7	0.7	0.7	0.8	0.7	0.8
Nonresident alien.....	142	169	208	220	216	204	1.5	1.7	2.0	2.0	2.0	1.9
<b>Graduates, total</b> .....	<b>1,222</b>	<b>1,219</b>	<b>1,249</b>	<b>1,233</b>	<b>1,344</b>	<b>1,432</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	1,030	1,019	1,030	1,002	1,087	1,130	84.2	83.6	82.4	81.2	80.9	78.9
Total minority.....	119	120	125	123	141	166	9.8	9.8	10.0	10.0	10.5	11.6
Black, non-Hispanic.....	72	68	66	61	67	72	5.9	5.6	5.3	4.9	5.0	5.0
Hispanic.....	22	24	27	27	32	46	1.8	1.9	2.2	2.2	2.4	3.2
Asian or Pacific Islander.....	21	24	28	30	37	43	1.7	2.0	2.2	2.5	2.8	3.0
American Indian/Alaskan Native.....	4	4	4	5	5	5	0.4	0.4	0.4	0.4	0.4	0.4
Nonresident alien.....	73	80	94	108	115	136	6.0	6.6	7.5	8.8	8.6	9.5
<b>First-professional, total</b> .....	<b>244</b>	<b>255</b>	<b>277</b>	<b>278</b>	<b>278</b>	<b>270</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
White, non-Hispanic.....	220	229	248	246	243	230	90.1	90.2	89.5	88.5	87.4	85.3
Total minority.....	21	22	26	29	32	36	8.6	8.7	9.5	10.4	11.4	13.2
Black, non-Hispanic.....	11	11	13	13	13	14	4.6	4.3	4.6	4.7	4.8	5.2
Hispanic.....	5	5	7	7	8	9	1.9	2.0	2.4	2.5	2.9	3.4
Asian or Pacific Islander.....	4	5	6	8	9	11	1.7	2.0	2.2	2.9	3.4	4.2
American Indian/Alaskan Native.....	1	1	1	1	1	1	0.5	0.4	0.3	0.4	0.4	0.4
Nonresident alien.....	3	3	3	3	3	4	1.3	1.2	1.0	1.1	1.2	1.5

<sup>1</sup> Data revised from previously published figures

NOTE—Because of underreporting and nonreporting of racial/ethnic data, figures are slightly lower than corresponding data in other tables. Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Colleges and Universities"; and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey and unpublished tabulations. (This table was prepared February 1989.)

Table 177.—Total enrollment in institutions of higher education, by race/ethnicity of student and by State: Fall 1986<sup>1</sup>

State or other area	Total	White, non-Hispanic	Minority enrollment, by race/ethnicity					Nonresident alien	
			Total	Percent minority <sup>2</sup>	Black non-Hispanic	Hispanic	Asian/Pacific Islander		American Indian/Alaskan Native
1	2	3	4	5	6	7	8	9	10
United States . . . . .	12,488,142	9,910,785	2,234,680	18.4	1,080,326	816,521	447,736	90,087	343,687
Alabama . . . . .	181,443	137,301	40,072	22.6	37,687	828	1,181	378	4,070
Alaska . . . . .	27,482	22,654	3,985	15.0	978	442	577	1,990	843
Arizona . . . . .	226,593	181,555	39,008	17.7	8,166	20,943	4,276	7,623	8,030
Arkansas . . . . .	79,182	65,807	11,709	15.1	10,520	323	540	326	1,666
California . . . . .	1,727,905	1,141,929	524,825	31.5	116,909	194,514	192,643	20,559	81,051
Colorado . . . . .	177,367	151,937	20,571	11.9	4,283	10,685	4,087	1,518	4,879
Connecticut . . . . .	156,278	140,091	14,460	9.4	7,584	3,730	2,744	402	3,727
Delaware . . . . .	33,893	28,726	4,538	13.8	3,703	362	417	56	629
District of Columbia . . . . .	77,651	41,533	27,348	39.7	22,886	1,878	2,262	322	8,770
Florida . . . . .	477,211	382,347	100,178	21.7	44,301	47,434	7,219	1,222	14,668
Georgia . . . . .	195,122	150,952	36,642	20.5	34,303	1,806	2,427	306	5,328
Hawaii . . . . .	51,697	15,370	34,305	89.1	908	873	2,032	182	2,022
Idaho . . . . .	45,260	42,534	1,922	4.3	260	713	575	374	604
Illinois . . . . .	686,895	519,851	153,815	22.8	91,800	35,720	24,148	2,147	13,229
Indiana . . . . .	250,178	223,687	20,296	8.3	13,570	3,210	2,868	648	8,195
Iowa . . . . .	155,368	142,680	8,508	4.4	3,164	1,196	1,756	390	8,181
Kansas . . . . .	143,203	126,518	12,389	8.9	6,475	2,424	1,811	1,879	4,298
Kentucky . . . . .	144,551	132,584	10,339	7.2	8,803	341	872	323	1,626
Louisiana . . . . .	171,338	119,316	45,477	27.8	39,326	3,210	2,468	473	6,545
Maine . . . . .	46,231	44,284	1,749	3.8	540	188	868	333	196
Maryland . . . . .	233,492	179,928	48,015	21.1	35,217	3,637	8,510	651	5,549
Massachusetts . . . . .	417,548	381,942	36,909	9.6	16,788	9,807	10,884	1,130	18,997
Michigan . . . . .	520,423	444,505	53,946	12.8	46,891	6,877	7,147	3,231	11,972
Minnesota . . . . .	226,557	212,298	9,404	4.2	2,969	1,279	3,682	1,474	4,855
Mississippi . . . . .	101,104	69,240	30,088	30.3	28,785	631	427	245	1,778
Missouri . . . . .	246,185	216,229	24,978	10.4	18,499	2,381	3,447	669	4,960
Montana . . . . .	35,238	32,203	2,372	6.9	148	190	151	1,885	683
Nebraska . . . . .	100,401	93,090	5,355	5.4	2,744	1,098	833	680	1,956
Nevada . . . . .	46,796	40,428	5,725	12.4	1,861	1,917	1,251	696	643
New Hampshire . . . . .	53,880	51,525	1,662	3.1	667	465	382	148	693
New Jersey . . . . .	295,313	230,426	54,913	19.2	27,026	17,292	9,735	880	9,974
New Mexico . . . . .	80,270	50,343	28,396	36.1	1,888	20,604	970	4,934	1,531
New York . . . . .	997,793	747,300	217,961	22.8	110,057	67,100	36,010	4,784	32,532
North Carolina . . . . .	322,979	253,074	85,099	20.5	57,371	1,957	3,313	2,458	4,806
North Dakota . . . . .	37,309	34,354	2,005	5.5	241	125	171	1,468	950
Ohio . . . . .	520,486	459,188	48,669	9.8	37,687	4,206	5,699	1,277	12,431
Oklahoma . . . . .	170,840	141,066	23,114	14.1	10,548	2,189	2,711	7,668	6,680
Oregon . . . . .	144,798	128,742	10,848	7.8	1,938	2,102	5,565	1,345	5,208
Pennsylvania . . . . .	545,923	483,822	50,126	9.4	35,103	5,515	8,856	850	11,975
Rhode Island . . . . .	89,569	83,825	4,436	6.5	2,014	1,055	1,164	203	1,308
South Carolina . . . . .	134,115	103,800	28,074	21.3	25,924	965	978	207	2,241
South Dakota . . . . .	30,935	28,322	1,952	6.4	190	96	92	1,574	661
Tennessee . . . . .	197,068	182,535	30,213	15.7	27,506	963	1,383	341	4,320
Texas . . . . .	778,020	543,904	208,282	27.7	66,662	118,333	20,688	2,599	23,834
Utah . . . . .	106,218	96,144	5,381	5.3	728	1,731	1,773	1,149	4,693
Vermont . . . . .	32,459	31,160	760	2.4	298	167	241	54	539
Virginia . . . . .	308,318	250,004	53,261	17.8	41,545	3,278	7,793	645	5,053
Washington . . . . .	242,443	211,111	26,503	11.2	5,899	4,289	12,773	3,542	4,829
West Virginia . . . . .	78,781	71,890	3,777	5.0	2,665	281	535	96	1,114
Wisconsin . . . . .	263,853	260,294	18,036	6.5	9,334	3,149	3,913	1,640	5,323
Wyoming . . . . .	24,357	22,717	1,188	5.0	243	545	123	277	452
U S Service Schools . . . . .	53,302	43,702	9,200	17.4	8,602	1,875	643	80	400
Outlying areas . . . . .	165,820	676	183,822	99.6	1,959	156,537	5,101	25	1,322
American Samoa . . . . .	759	0	822	100.0	0	0	607	15	137
Guam . . . . .	4,477	378	3,281	89.7	36	74	3,182	7	818
Northern Marianas . . . . .	514	29	433	93.7	0	0	433	0	52
Puerto Rico . . . . .	156,580	46	156,460	100.0	10	156,371	79	0	74
Trust Territory of the Pacific . . . . .	795	1	794	99.9	0	0	794	0	0
Virgin Islands . . . . .	2,495	222	2,032	90.2	1,911	92	26	3	241

<sup>1</sup> Revised from previously published data

<sup>2</sup> Percent minority based on U.S. citizen enrollment (total enrollment less enrollment of nonresident aliens)

NOTE—Because of adjustments to underreported and nonreported racial/ethnic data,

figures are slightly different from corresponding data in other tables

SOURCE U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey (This table was prepared February 1989)

**Table 178.—Disabled students enrolled in postsecondary institutions, by type of disability: Fall 1986**

Type of disability 1	Disabled students		Percent of disabled students by condition 4
	Enrollment 2	Percent of all students 3	
<b>Disabled students</b> .....	<b>1,319,229</b>	<b>10.5</b>	<b>—</b>
Specific learning disability.....	160,878	1.3	12.2
Visual handicap.....	514,681	4.1	39.0
Hard of hearing.....	265,484	2.1	20.1
Deafness.....	80,910	0.6	6.1
Speech disability.....	62,525	0.5	4.7
Orthopedic handicap.....	231,491	1.8	17.6
Health impairment.....	320,272	2.6	24.3

—Data not applicable or not available

SOURCE U.S. Department of Education, National Center for Education Statistics, "The 1987 National Postsecondary Student Aid Study" (This table was prepared March 1989)

NOTE.—Disabled students are students who reported that they had one or more of the following conditions: a specific learning disability, a visual handicap, hard of hearing, deafness, a speech disability, an orthopedic handicap, or a health impairment. Details do not sum to total since some students reported two or more disabilities

**Table 179.—Students enrolled in postsecondary institutions, by disability status and selected student characteristics: Fall 1986**

Selected student characteristics 1	Disabled students <sup>1</sup> 2	Nondisabled students 3	Selected student characteristics 1	Disabled students <sup>1</sup> 2	Nondisabled students 3
<b>Sex</b> .....	<b>100.0</b>	<b>100.0</b>	<b>Level of study</b> .....	<b>100.0</b>	<b>100.0</b>
Male.....	50.8	44.7	Undergraduate.....	91.8	88.8
Female.....	49.2	55.3	Graduate.....	6.8	8.7
<b>Race/ethnicity</b> .....	<b>100.0</b>	<b>100.0</b>	First-professional.....	1.6	2.5
White, non-Hispanic.....	78.5	78.2	Undergraduate.....	100.0	100.0
Black, non-Hispanic.....	8.0	9.0	Arts and humanities.....	7.4	6.4
Hispanic.....	7.5	6.5	Business.....	24.4	28.1
Asian American.....	4.1	5.5	Education.....	9.3	8.6
American Indian.....	1.9	.8	Engineering.....	9.8	9.5
<b>Age</b> .....	<b>100.0</b>	<b>100.0</b>	Health.....	7.8	9.7
15 to 23.....	49.8	55.8	Liberal/general studies.....	7.3	6.9
24 to 29.....	17.5	19.8	Natural sciences <sup>2</sup> .....	10.7	10.7
30 or older.....	32.7	24.4	Social sciences.....	8.6	7.3
<b>Veteran status</b> .....	<b>100.0</b>	<b>100.0</b>	Trade/industrial.....	3.2	2.5
Veteran.....	11.4	6.0	All other.....	11.4	10.4
Not a veteran.....	88.6	94.0	Graduate.....	100.0	100.0
<b>Dependency status</b> .....	<b>100.0</b>	<b>100.0</b>	Arts and humanities.....	10.7	9.6
Dependent.....	55.9	59.5	Business.....	13.8	21.4
Independent.....	44.1	40.5	Education.....	25.4	22.4
<b>Housing status</b> .....	<b>100.0</b>	<b>100.0</b>	Engineering.....	4.6	4.4
School-owned.....	19.1	18.9	Natural sciences <sup>2</sup> .....	10.2	12.0
Off-campus, not with parents.....	55.2	53.5	Social sciences.....	9.9	9.5
With parents.....	25.7	27.6	All other.....	25.6	18.7
<b>Attendance status</b> .....	<b>100.0</b>	<b>100.0</b>	First-professional.....	100.0	100.0
Full-time.....	82.8	61.0	Law.....	49.9	38.9
Part-time.....	37.2	39.0	Medicine.....	25.4	38.6
			Other medical <sup>3</sup> .....	19.9	17.5
			Theology.....	4.8	4.9

<sup>1</sup> Disabled students are those who reported that they had one or more of the following conditions: a specific learning disability, a visual handicap, hard of hearing, deafness, a speech disability, an orthopedic handicap, or a health impairment

<sup>2</sup> Includes students who majored in life sciences, physical sciences, mathematics, or computer sciences.

<sup>3</sup> Includes chiropractic medicine, dentistry, optometry, osteopathic medicine, pharmacy, podiatry, and veterinary medicine

NOTE.—Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "The 1987 National Postsecondary Student Aid Study" (This table was prepared March 1989)

**Table 180.—Enrollment of persons 14 to 34 years of age<sup>1</sup> in institutions of higher education, by race/ethnicity, sex, and year of college: October 1965 to October 1987**

Characteristic	1965	1970	1975	1976	1977	1978	1979	1980	1981 <sup>2</sup>	1982	1983	1984	1985	1986	1987
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Numbers in thousands															
<b>All students.....</b>	<b>5,675</b>	<b>7,413</b>	<b>9,697</b>	<b>9,950</b>	<b>10,217</b>	<b>9,838</b>	<b>9,978</b>	<b>10,180</b>	<b>10,734</b>	<b>10,919</b>	<b>10,925</b>	<b>10,859</b>	<b>10,863</b>	<b>10,605</b>	<b>10,918</b>
<b>White</b>															
Total.....	5,317	6,759	8,514	8,644	8,812	8,514	8,709	8,875	9,162	9,328	9,242	9,269	9,334	8,943	9,146
Men.....	3,326	4,066	4,771	4,658	4,717	4,508	4,400	4,438	4,620	4,650	4,718	4,709	4,633	4,485	4,563
Women.....	1,991	2,693	3,743	3,986	4,095	4,006	4,309	4,437	4,543	4,679	4,524	4,559	4,701	4,459	4,583
<b>Black</b>															
Total.....	274	522	948	1,062	1,103	1,022	1,002	1,007	1,133	1,127	1,102	1,138	1,049	1,138	1,196
Men.....	126	253	442	489	490	452	434	437	505	482	497	544	458	488	525
Women.....	148	269	506	573	614	569	568	570	628	645	605	594	591	649	671
<b>Hispanic origin<sup>3</sup></b>															
Total.....	—	—	411	427	418	377	440	443	510	493	523	524	579	677	667
Men.....	—	—	219	223	223	196	226	222	258	216	253	232	280	331	369
Women.....	—	—	192	204	194	181	214	221	252	278	270	292	299	346	298
<b>Year of college</b>															
First.....	1,861	2,212	2,886	2,632	2,936	2,766	2,885	2,957	3,096	2,990	2,987	3,024	2,956	2,965	2,915
Second.....	1,256	1,739	2,376	2,535	2,364	2,286	2,291	2,411	2,560	2,617	2,624	2,454	2,585	2,564	2,745
Third.....	896	1,248	1,492	1,748	1,681	1,658	1,653	1,716	1,799	1,815	1,805	1,981	1,931	1,803	2,011
Fourth.....	803	1,074	1,354	1,356	1,427	1,445	1,458	1,403	1,598	1,688	1,595	* 599	1,642	1,640	1,556
Fifth or higher.....	859	1,140	1,589	1,680	1,810	1,681	1,691	1,682	1,682	1,810	1,814	1,802	1,749	1,633	1,690
Percentage distribution															
<b>All students.....</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>White</b>															
Total.....	93.7	91.2	87.8	86.9	86.2	86.5	87.3	87.2	85.4	85.4	85.4	85.4	85.9	84.3	83.8
Men.....	58.6	54.8	49.2	46.8	46.2	45.8	44.1	43.6	43.0	42.6	43.6	43.4	42.6	42.3	41.8
Women.....	35.1	36.3	38.6	40.1	40.1	40.7	43.2	43.6	42.3	42.9	41.8	42.0	43.3	42.0	42.0
<b>Black</b>															
Total.....	4.8	7.0	9.8	10.7	10.8	10.4	10.0	9.9	10.6	10.3	10.2	10.5	9.7	10.7	11.0
Men.....	2.2	3.4	4.6	4.9	4.8	4.6	4.3	4.3	4.7	4.4	4.6	5.0	4.2	4.6	4.8
Women.....	2.6	3.6	5.2	5.8	6.0	5.8	5.7	5.6	5.9	5.9	5.6	5.5	5.4	6.1	6.1
<b>Hispanic origin<sup>3</sup></b>															
Total.....	—	—	4.2	4.3	4.1	3.8	4.4	4.4	4.8	4.5	4.8	4.8	5.3	6.4	6.1
Men.....	—	—	2.3	2.2	2.2	2.0	2.3	2.2	2.4	2.0	2.3	2.1	2.6	3.1	3.4
Women.....	—	—	2.0	2.1	1.9	1.8	2.1	2.2	2.3	2.5	2.5	2.7	2.8	3.3	2.7
<b>Year of college</b>															
First.....	32.8	29.8	29.8	26.5	28.7	28.1	28.9	29.0	28.8	27.4	27.6	27.8	27.2	28.0	26.7
Second.....	22.1	23.5	24.5	25.5	23.1	23.2	23.0	23.7	23.8	24.0	24.2	22.6	23.8	24.2	25.1
Third.....	15.8	16.8	15.4	17.6	16.5	16.9	16.6	16.9	16.8	16.6	16.7	18.2	17.8	17.0	18.4
Fourth.....	14.1	14.5	14.0	13.6	14.0	14.7	14.6	13.8	14.9	15.5	14.7	14.7	15.1	15.5	14.3
Fifth or higher.....	15.1	15.4	16.4	16.9	17.7	17.1	16.9	16.6	15.7	16.6	16.8	16.6	16.1	15.4	15.5

<sup>1</sup> Totals differ from those shown in other tables. This table presents data collected in sample surveys of households rather than surveys of institutions. Excludes persons age 35 and over.

<sup>2</sup> Data for 1981 and later years are controlled to 1980 census base.

<sup>3</sup> Persons of Hispanic origin may be of any race.

—Data not available.

NOTE—Data are based upon sample surveys of the civilian noninstitutional population. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, No. 409, and unpublished data. (This table was prepared March 1989.)

**Table 181.—Enrollment of persons 14 to 34 years of age in institutions of higher education, by major field of study: October 1966, 1972, 1978, and 1982**

Major field of study	1966		1972		1978		1982	
	Number, in thousands	Percent	Number, in thousands	Percent	Number, in thousands	Percent	Number, in thousands	Percent
1	2	3	4	5	6	7	8	9
<b>All fields.....</b>	<b>5,999</b>	<b>100.0</b>	<b>8,313</b>	<b>100.0</b>	<b>9,838</b>	<b>100.0</b>	<b>10,919</b>	<b>100.0</b>
Agriculture and forestry.....	73	1.2	97	1.2	<sup>1</sup> 144	<sup>1</sup> 1.5	<sup>1</sup> 259	<sup>1</sup> 2.4
Biological sciences.....	602	10.0	257	3.1	303	3.1	318	2.9
Health and medical professions.....	<sup>(2)</sup>	<sup>(2)</sup>	695	8.4	872	8.9	1,305	12.0
Business and commerce.....	888	14.8	1,157	13.9	1,956	19.9	2,586	23.7
Education.....	1,118	18.6	1,007	12.1	781	7.9	732	6.7
Engineering.....	534	8.9	357	4.3	565	5.7	<sup>2</sup> 1,229	<sup>2</sup> 11.3
English and journalism.....	620	10.3	291	3.5	192	2.0	304	2.8
Other humanities.....	<sup>(2)</sup>	<sup>(2)</sup>	455	5.5	741	7.5	852	7.8
Law.....	<sup>(2)</sup>	<sup>(2)</sup>	237	2.9	220	2.2	252	2.3
Mathematics and statistics.....	<sup>2</sup> 236	<sup>2</sup> 3.9	<sup>2</sup> 239	<sup>2</sup> 2.9	<sup>2</sup> 142	<sup>2</sup> 1.4	187	1.7
Physical sciences.....	226	3.8	157	1.9	193	2.0	258	2.4
Social sciences.....	642	10.7	954	11.5	763	7.8	763	7.0
Other fields or not reported.....	1,060	17.7	2,410	29.0	2,966	30.1	1,874	17.2

<sup>1</sup> Includes home economics.  
<sup>2</sup> Includes computer sciences.  
<sup>3</sup> Data not available.

SOURCE Department of Commerce, Bureau of the Census, *Current Population Reports, Series P-20, No. 280, and Statistical Abstract of the United States, 1982-83* and earlier editions (This table was prepared October 1986)

NOTE.—Data are based upon sample surveys of the civilian noninstitutional population. Because of rounding, percents may not add to 100.0

**Table 162.—Enrollment rates of 18- to 24-year-olds in institutions of higher education, by race/ethnicity: 1967 to 1986**

Year	All students		White		Black		Hispanic origin <sup>1</sup>	
	Enrollment as a percent of 18- to 24-year olds	Enrollment as a percent of high school graduates	Enrollment as a percent of 18- to 24-year-olds	Enrollment as a percent of high school graduates	Enrollment as a percent of 18- to 24-year-olds	Enrollment as a percent of high school graduates	Enrollment as a percent of 18- to 24-year-olds	Enrollment as a percent of high school graduates
1	2	3	4	5	6	7	8	9
1967.....	25.5	33.7	26.9	34.5	13.0	23.3	—	—
1968.....	26.0	34.2	27.5	34.9	14.5	25.2	—	—
1969.....	27.3	35.0	28.7	35.6	16.0	27.2	—	—
1970.....	25.7	32.7	27.1	33.2	15.5	26.0	—	—
1971.....	26.2	33.2	27.2	33.5	18.2	29.2	—	—
1972.....	25.5	31.9	26.4	32.3	18.1	27.1	13.4	25.8
1973.....	24.0	29.7	25.0	30.2	16.0	24.0	16.0	29.1
1974.....	24.6	30.5	25.2	30.5	17.9	26.6	18.1	32.3
1975.....	26.3	32.5	26.9	32.4	20.7	32.0	20.4	35.5
1976.....	26.7	33.1	27.1	33.0	22.6	33.5	19.9	35.8
1977.....	26.1	32.5	26.5	32.2	21.3	31.5	17.2	31.5
1978.....	25.3	31.4	25.7	31.1	20.1	29.7	15.2	27.2
1979.....	25.0	31.2	25.6	31.2	19.8	29.5	16.6	30.2
1980.....	25.6	31.6	26.2	31.8	19.2	27.6	16.1	29.8
1981.....	26.2	32.5	26.7	32.5	19.9	28.0	16.7	29.9
1982.....	26.6	33.0	27.2	33.1	18.8	28.0	16.8	29.2
1983.....	26.2	32.5	27.0	32.9	19.2	27.0	17.2	31.4
1984.....	27.1	33.2	28.0	33.7	20.4	27.2	17.9	29.9
1985.....	27.8	33.7	28.7	34.4	19.8	26.1	16.9	26.9
1986.....	27.9	34.0	28.3	34.1	21.9	28.6	17.6	29.4

<sup>1</sup> Persons of Hispanic origin may be of any race  
—Data not available.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, No. 429 (This table was prepared October 1988)

NOTE.—Data are based upon sample surveys of the civilian noninstitutional population



Table 183.—Total enrollment in selected major fields of study in 4-year institutions of higher education, by sex: Fall 1976 to fall 1986

Selected major fields of study	1976			1978 <sup>1</sup>			1980			1984 <sup>2</sup>			1986 <sup>3</sup>		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Total enrollment . . . . .	7,126,515	3,828,893	3,297,622	7,230,380	3,754,579	3,475,801	7,570,608	3,827,341	3,743,267	7,622,667	3,797,607	3,825,060	7,824,502	3,823,854	4,000,648
Percent . . . . .	100.0	53.7	46.3	100.0	51.9	48.1	100.0	50.6	49.4	100.0	49.8	50.2	100.0	48.9	51.1
Agriculture and natural resources															
Enrollment . . . . .	124,903	92,370	32,533	125,312	88,235	37,077	113,376	78,158	35,218	—	—	—	—	—	—
Percent . . . . .	100.0	74.0	26.0	100.0	70.4	29.6	100.0	68.9	31.1	—	—	—	—	—	—
Architecture and environmental design															
Enrollment . . . . .	58,149	44,207	13,942	57,673	42,106	15,567	59,660	42,302	17,358	56,896	37,632	19,264	56,756	36,878	19,878
Percent . . . . .	100.0	76.0	24.0	100.0	73.0	27.0	100.0	70.9	29.1	100.0	66.1	33.9	100.0	65.0	35.0
Business and management															
Enrollment . . . . .	951,945	679,795	272,150	1,112,511	728,011	384,500	1,240,258	742,859	497,399	1,292,868	715,415	577,453	1,270,187	690,588	579,599
Percent . . . . .	100.0	71.4	28.6	100.0	65.4	34.6	100.0	59.9	40.1	100.0	55.3	44.7	100.0	54.4	45.6
Dentistry															
Enrollment . . . . .	20,272	18,049	2,223	21,793	18,735	3,058	22,668	18,812	3,856	19,997	15,217	4,780	17,773	12,916	4,857
Percent . . . . .	100.0	89.0	11.0	100.0	86.0	14.0	100.0	83.0	17.0	100.0	76.1	23.9	100.0	72.7	27.3
Engineering															
Enrollment . . . . .	374,815	346,023	28,792	440,038	392,871	47,167	503,960	441,965	61,995	514,257	439,444	74,813	485,857	414,973	70,884
Percent . . . . .	100.0	92.3	7.7	100.0	89.3	10.7	100.0	87.7	12.3	100.0	85.5	14.5	100.0	85.4	14.6
Law															
Enrollment . . . . .	119,581	88,679	30,902	118,298	82,302	35,996	118,993	78,569	40,424	117,673	71,443	46,230	105,965	62,789	43,176
Percent . . . . .	100.0	74.2	25.8	100.0	69.6	30.4	100.0	66.0	34.0	100.0	60.7	39.3	100.0	59.3	40.7
Life sciences															
Enrollment . . . . .	289,908	175,379	114,527	272,560	154,971	117,589	241,807	132,067	109,740	233,333	118,651	114,682	218,001	108,044	109,957
Percent . . . . .	100.0	60.5	39.5	100.0	56.9	43.1	100.0	54.6	45.4	100.0	50.9	49.1	100.0	49.6	50.4
Mathematics															
Enrollment . . . . .	—	—	—	—	—	—	—	—	—	96,772	56,041	40,731	89,434	51,086	38,348
Percent . . . . .	—	—	—	—	—	—	—	—	—	100.0	57.9	42.1	100.0	57.1	42.9
Medicine															
Enrollment . . . . .	58,085	45,145	12,940	66,713	51,241	15,472	74,132	55,000	19,072	67,877	46,492	21,385	65,462	43,680	21,782
Percent . . . . .	100.0	77.7	22.3	100.0	76.8	23.2	100.0	74.3	25.7	100.0	68.5	31.5	100.0	66.7	33.3
Physical sciences															
Enrollment . . . . .	146,025	115,137	30,888	148,432	114,166	34,266	154,092	114,919	39,173	143,514	105,412	38,102	128,979	92,483	36,496
Percent . . . . .	100.0	78.8	21.2	100.0	76.9	23.1	100.0	74.6	25.4	100.0	73.5	26.5	100.0	71.7	28.3
Veterinary medicine															
Enrollment . . . . .	6,128	4,425	1,701	7,186	4,762	2,424	8,164	4,980	3,184	9,190	4,762	4,428	8,707	4,092	4,615
Percent . . . . .	100.0	72.2	27.8	100.0	66.3	33.7	100.0	61.0	39.0	100.0	58.2	41.8	100.0	47.0	53.0
All other															
Enrollment . . . . .	4,976,708	2,219,684	2,757,024	4,859,864	2,077,179	2,782,685	5,033,498	2,117,050	2,915,848	5,070,290	2,187,090	2,883,192	4,537,381	2,306,325	3,071,056
Percent . . . . .	100.0	44.6	55.4	100.0	42.7	57.3	100.0	42.1	57.9	100.0	43.1	56.9	100.0	42.9	57.1

<sup>1</sup> Excludes approximately 0.1 percent of students whose major field of study was not reported<sup>2</sup> Excludes approximately 1.2 percent of students whose major field of study was not reported<sup>3</sup> Revised from previously published data<sup>4</sup> Includes students whose major field of study was not reported

—Data not available

SOURCE U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education", and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey (This table was prepared April 1989)

Table 184.—Total enrollment in selected major fields of study in 4-year institutions of higher education, by level, sex, and attendance status: Fall 1986

Level, sex, and attendance status of student	All fields	Architecture and environmental design	Business and management	Dentistry	Engineering	Law	Life sciences	Mathematics	Medicine	Physical sciences	Veterinary medicine	All other fields <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
All students	7,824,502	56,756	1,270,187	17,773	485,857	105,965	218,001	89,434	65,462	128,979	8,707	5,377,381
Men	3,823,854	36,878	890,588	12,916	414,973	62,789	108,044	51,086	43,680	92,483	4,092	2,306,325
Full-time	2,774,642	31,847	485,659	12,839	327,000	54,248	90,822	40,493	43,261	73,875	4,065	1,610,533
Part-time	1,049,212	5,031	204,929	77	87,973	8,541	17,222	10,593	419	18,608	27	695,792
Women	4,000,648	19,878	579,599	4,857	70,884	43,176	109,957	38,348	21,782	36,496	4,615	3,071,056
Full-time	2,648,938	16,174	389,992	4,837	57,652	37,114	90,790	31,025	21,556	29,232	4,576	1,965,990
Part-time	1,351,710	3,704	189,607	20	13,232	6,062	19,167	7,323	226	7,264	39	1,105,066
Undergraduate students	6,118,801	48,380	1,055,904	—	391,144	—	177,679	73,079	—	87,281	—	4,287,434
Men	2,956,754	30,250	554,002	—	332,037	—	85,230	40,212	—	60,404	—	1,854,619
Full-time	2,321,874	26,537	438,669	—	283,184	—	75,199	33,662	—	51,064	—	1,413,559
Part-time	634,880	3,713	115,333	—	48,853	—	10,031	6,550	—	9,340	—	441,060
Women	3,162,047	18,130	501,802	—	59,107	—	92,449	32,867	—	26,877	—	2,432,815
Full-time	2,334,138	13,283	366,782	—	51,779	—	79,696	28,270	—	22,865	—	1,771,480
Part-time	827,909	2,847	135,040	—	7,328	—	12,753	4,594	—	4,012	—	661,335
Graduate students	1,435,288	10,314	214,328	—	94,713	—	39,754	16,348	—	41,698	—	1,018,133
Men	693,236	6,590	136,555	—	82,936	—	22,388	10,869	—	32,079	—	401,821
Full-time	2,242,202	5,272	46,990	—	43,816	—	15,199	6,826	—	22,811	—	153,288
Part-time	396,036	1,318	89,565	—	39,120	—	7,189	4,043	—	9,268	—	248,533
Women	742,150	3,724	77,773	—	11,777	—	17,366	5,479	—	9,619	—	616,312
Full-time	227,711	2,667	23,229	—	5,873	—	10,953	2,750	—	6,367	—	175,672
Part-time	514,339	857	54,544	—	5,904	—	6,413	2,729	—	3,252	—	440,640
First-professional students	270,413	62	55	17,773	—	105,965	568	7	65,462	—	8,707	71,814
Men	173,862	38	31	12,916	—	62,789	426	5	43,680	—	4,092	49,885
Full-time	158,566	38	—	12,839	—	54,248	424	5	43,261	—	4,065	43,686
Part-time	15,296	—	31	77	—	8,541	2	—	419	—	27	6,199
Women	96,551	24	24	4,857	—	43,176	142	2	21,782	—	4,615	21,929
Full-time	87,069	24	1	4,837	—	37,114	141	2	21,556	—	4,576	18,838
Part-time	9,482	—	23	20	—	6,062	1	—	226	—	39	3,091

<sup>1</sup> Includes students whose major field of study was not reported  
 — Data not reported or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1986" survey (This table was prepared April 1989)

**Table 185.—Graduate enrollment in science and engineering programs in institutions of higher education, by field of study: United States and outlying areas, 1977 to 1987**

Field of engineering or science	1977	1979	1980	1981	1982	1983	1984	1985	1986	1987	Percent change, 1982 to 1987
1	2	3	4	5	6	7	8	9	10	11	12
<b>Total, all fields</b>	<b>358,323</b>	<b>373,198</b>	<b>383,100</b>	<b>391,640</b>	<b>398,982</b>	<b>413,210</b>	<b>426,215</b>	<b>434,340</b>	<b>444,996</b>	<b>449,585</b>	<b>12.7</b>
<b>Engineering, total</b>	<b>89,142</b>	<b>72,262</b>	<b>75,084</b>	<b>80,479</b>	<b>84,594</b>	<b>93,135</b>	<b>96,820</b>	<b>99,941</b>	<b>105,093</b>	<b>106,922</b>	<b>26.4</b>
Aerospace	1,518	1,481	1,731	1,883	1,941	2,408	2,431	2,642	2,907	3,104	59.9
Agricultural	709	740	742	802	875	989	954	941	1,054	1,004	14.7
Biomedical	900	1,051	1,011	1,057	1,118	1,244	1,387	1,373	1,549	1,718	53.9
Chemical	5,201	5,605	6,015	6,496	7,189	7,583	7,445	7,156	6,963	7,200	0.2
Civil	12,712	13,217	13,502	14,515	14,523	15,406	15,740	15,351	15,474	15,311	5.4
Electrical	17,406	17,789	19,227	20,193	22,017	25,213	26,846	28,540	30,223	31,283	42.0
Engineering science	1,737	1,681	1,796	1,965	2,130	2,261	2,191	2,127	2,391	2,368	11.2
Industrial	10,438	10,714	9,870	10,026	9,870	10,712	11,175	12,532	13,393	13,973	41.8
Mechanical	8,722	9,251	9,888	10,818	11,487	12,911	13,924	14,111	15,504	18,182	41.1
Metallurgical/materials	2,559	2,756	2,910	3,125	3,124	3,447	3,664	3,939	4,192	4,309	37.9
Mining	452	389	413	462	449	524	502	489	512	513	14.3
Nuclear	1,491	1,318	1,241	1,283	1,301	1,203	1,234	1,220	1,265	1,279	-1.7
Petroleum	379	424	503	521	586	737	744	782	747	850	45.1
Other engineering	4,918	5,846	6,229	7,533	8,006	8,537	8,605	8,739	9,920	7,848	-2.0
<b>All sciences, total</b>	<b>269,181</b>	<b>300,936</b>	<b>308,018</b>	<b>311,181</b>	<b>314,388</b>	<b>320,075</b>	<b>329,385</b>	<b>334,399</b>	<b>339,904</b>	<b>342,662</b>	<b>9.0</b>
<b>Physical sciences, total</b>	<b>26,855</b>	<b>26,700</b>	<b>26,952</b>	<b>27,382</b>	<b>28,199</b>	<b>29,463</b>	<b>30,487</b>	<b>31,194</b>	<b>32,657</b>	<b>33,203</b>	<b>17.7</b>
Astronomy	849	652	628	597	632	818	639	689	689	722	14.2
Chemistry	18,020	18,101	18,222	18,347	17,015	17,801	17,973	18,487	19,016	19,110	12.3
Physics	9,933	9,699	9,898	10,150	10,306	10,811	11,517	11,660	12,526	12,861	24.8
Other physical sciences	253	248	204	288	248	236	358	377	427	511	107.7
<b>Environmental sciences, total</b>	<b>13,658</b>	<b>13,854</b>	<b>14,208</b>	<b>14,422</b>	<b>15,174</b>	<b>15,592</b>	<b>15,803</b>	<b>15,741</b>	<b>15,342</b>	<b>14,744</b>	<b>-2.8</b>
Atmospheric sciences	924	852	889	882	889	896	907	964	981	952	7.1
Geosciences	8,071	8,532	8,668	8,808	9,621	10,321	10,366	10,383	9,848	9,047	-8.0
Geography	1,957	1,887	1,992	2,082	2,091	2,063	2,191	2,090	2,082	2,109	0.9
Other environmental sciences	2,706	2,603	2,859	2,850	2,573	2,312	2,339	2,304	2,351	2,636	2.4
<b>Mathematical sciences, total</b>	<b>18,069</b>	<b>15,063</b>	<b>15,360</b>	<b>15,915</b>	<b>17,199</b>	<b>17,418</b>	<b>17,831</b>	<b>18,106</b>	<b>18,364</b>	<b>19,061</b>	<b>10.8</b>
<b>Computer sciences, total</b>	<b>9,108</b>	<b>11,890</b>	<b>13,578</b>	<b>16,437</b>	<b>19,812</b>	<b>23,817</b>	<b>25,364</b>	<b>29,522</b>	<b>30,578</b>	<b>30,217</b>	<b>52.5</b>
<b>Life sciences, total</b>	<b>95,472</b>	<b>99,827</b>	<b>102,504</b>	<b>103,124</b>	<b>102,889</b>	<b>103,665</b>	<b>105,548</b>	<b>106,653</b>	<b>108,163</b>	<b>108,641</b>	<b>5.6</b>
<b>Agricultural sciences, total</b>	<b>11,520</b>	<b>12,069</b>	<b>12,254</b>	<b>12,100</b>	<b>12,314</b>	<b>12,890</b>	<b>12,065</b>	<b>11,475</b>	<b>11,343</b>	<b>10,948</b>	<b>-11.1</b>
<b>Biological sciences, total</b>	<b>49,556</b>	<b>48,503</b>	<b>47,890</b>	<b>48,979</b>	<b>46,310</b>	<b>45,991</b>	<b>47,008</b>	<b>47,578</b>	<b>48,587</b>	<b>48,838</b>	<b>5.5</b>
Anatomy	1,188	1,133	1,082	1,072	1,074	1,037	1,029	993	973	1,038	-3.4
Biochemistry	3,938	4,034	4,053	4,061	4,124	4,234	4,465	4,667	4,886	4,942	16.2
Biology	17,005	15,754	14,992	14,203	13,397	13,251	13,783	13,697	13,779	13,540	1.1
Biomatrix/epidemiology	1,058	1,128	1,259	1,182	1,166	1,156	1,004	1,360	1,469	1,523	30.6
Biophysics	570	525	485	483	440	450	433	441	547	591	34.3
Botany	3,885	3,858	3,817	3,498	3,644	3,450	3,405	3,333	3,313	3,189	-13.0
Cell biology	825	894	985	1,018	1,143	1,182	1,256	1,429	1,718	1,980	73.2
Ecology	1,067	1,064	1,181	1,101	1,051	1,007	1,101	1,037	1,022	996	-5.2
Entomology/parasitology	1,602	1,897	1,722	1,664	1,540	1,475	1,438	1,342	1,306	1,244	-19.2
Genetics	1,030	970	964	937	990	1,035	1,012	1,075	1,219	1,273	28.8
Microbiology	4,480	4,183	4,178	4,070	4,130	4,262	4,355	4,480	4,387	4,820	18.7
Nutrition	3,816	3,920	4,125	4,355	4,359	4,358	4,339	4,485	4,424	4,181	-4.1
Pathology	1,357	1,456	1,429	1,444	1,460	1,462	1,468	1,355	1,398	1,460	0.0
Pharmacology	1,794	2,004	2,015	2,024	2,084	2,069	2,050	2,107	2,080	2,078	-0.3
Physiology	2,122	2,192	2,104	2,144	2,058	1,994	2,020	2,211	2,261	2,219	7.8
Zoology	3,076	2,900	2,686	2,625	2,503	2,430	2,306	2,136	2,079	2,105	-15.9
Other biosciences	783	1,011	1,033	1,118	1,147	1,139	1,407	1,430	1,729	1,831	59.6
<b>Health sciences, total</b>	<b>34,396</b>	<b>39,255</b>	<b>42,360</b>	<b>44,045</b>	<b>44,265</b>	<b>45,384</b>	<b>46,475</b>	<b>47,602</b>	<b>48,232</b>	<b>48,855</b>	<b>10.4</b>
Dentistry	968	1,029	1,002	942	836	776	850	835	938	1,057	26.4
Neurology	233	261	249	191	204	261	317	337	383	479	134.8
Nursing	10,943	12,796	13,877	15,703	16,254	16,945	18,411	18,367	18,133	18,013	10.8
Pharmaceutical sciences	2,472	2,441	2,434	2,549	2,519	2,841	2,519	2,553	2,677	2,698	3.5
Preventive medicine/community health	4,555	6,428	7,103	7,226	6,816	6,188	6,327	6,748	6,688	7,091	4.0
Speech pathology/audiology	8,162	8,296	8,815	8,596	8,883	8,832	7,883	8,153	8,007	7,488	-13.8
Veterinary sciences	487	535	511	481	471	466	557	637	630	736	56.3
Other clinical medicine	1,480	1,431	1,817	1,610	1,747	1,644	1,493	1,643	1,811	2,121	21.4
Other health-related	5,078	6,038	6,952	6,747	8,735	7,831	8,118	8,328	8,965	9,262	37.5
<b>Psychology, total</b>	<b>38,628</b>	<b>39,788</b>	<b>40,636</b>	<b>40,891</b>	<b>40,098</b>	<b>41,088</b>	<b>44,201</b>	<b>43,844</b>	<b>43,658</b>	<b>44,912</b>	<b>12.0</b>
<b>Social sciences, total</b>	<b>89,391</b>	<b>94,018</b>	<b>94,778</b>	<b>93,190</b>	<b>91,017</b>	<b>89,230</b>	<b>90,161</b>	<b>89,339</b>	<b>91,142</b>	<b>91,884</b>	<b>1.0</b>
Agricultural economics	2,219	2,221	2,343	2,282	2,267	2,295	2,270	2,254	2,230	2,193	-3.3
Anthropology	8,778	8,343	8,322	8,118	5,948	7,644	5,605	5,817	5,038	5,887	-1.0
Economics (except agricultural)	12,063	12,130	13,172	13,344	13,735	13,587	13,065	12,999	12,877	12,899	-7.5
Geography	3,375	3,043	3,204	3,187	3,166	3,050	3,106	2,988	3,082	3,196	0.9
History and philosophy of science	306	265	280	248	256	23	274	314	289	325	27.0
Linguistics	2,503	3,063	3,007	3,139	2,803	3,032	3,073	2,987	3,001	3,239	15.6
Political science	7,199	30,735	31,212	30,791	29,307	28,232	27,350	28,730	28,568	28,890	-3.4
Sociology	8,884	8,159	8,001	7,816	7,248	6,549	6,861	6,592	6,538	7,020	-3.1
Sociology/anthropology	1,398	1,236	1,206	1,110	1,133	1,200	1,090	1,063	1,062	1,000	-11.7
Other social sciences	24,577	26,821	26,071	25,175	24,556	24,938	27,458	25,844	27,849	27,435	11.7

Revised from previously published data.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Early Release of Summary Statistics on Academic Science/Engineering Resources, October 1988* (This table was prepared October 1988).

NOTE—Because of rounding, details may not add to totals.

**Table 186.—Institutions of higher education and branches, by type, control, and size of enrollment: Fall 1987<sup>1</sup>**

Control of institution and size of enrollment	All institutions		Universities		All other 4-year institutions		2-year institutions	
	Number <sup>2</sup>	Enrollment	Number <sup>2</sup>	Enrollment	Number <sup>2</sup>	Enrollment	Number <sup>2</sup>	Enrollment
1	2	3	4	5	6	7	8	9
<b>Public and private institutions</b> .....	<b>3,457</b>	<b>12,768,307</b>	<b>156</b>	<b>2,930,120</b>	<b>1,933</b>	<b>5,061,965</b>	<b>1,368</b>	<b>4,776,222</b>
Under 200 .....	407	42,150	0	0	284	29,397	123	12,753
200 to 499 .....	435	148,417	0	0	246	83,447	189	64,970
500 to 999 .....	524	384,141	0	0	336	247,580	188	136,561
1,000 to 2,499 .....	878	1,429,176	0	0	530	843,258	348	585,918
2,500 to 4,999 .....	467	1,645,873	7	30,118	242	849,451	218	766,304
5,000 to 9,999 .....	384	2,673,064	31	242,116	177	1,204,090	176	1,226,858
10,000 to 19,999 .....	253	3,421,982	54	764,484	98	1,303,985	101	1,353,513
20,000 to 29,999 .....	78	1,865,628	39	956,730	18	429,551	21	479,347
30,000 or more .....	31	1,157,876	25	936,672	2	71,206	4	149,998
<b>Public institutions</b> .....	<b>1,549</b>	<b>9,975,064</b>	<b>94</b>	<b>2,188,801</b>	<b>496</b>	<b>3,245,209</b>	<b>959</b>	<b>4,541,054</b>
Under 200 .....	7	59	0	0	1	159	6	732
200 to 499 .....	40	14,937	0	0	11	4,226	29	10,711
500 to 999 .....	131	39,839	0	0	29	23,356	102	76,483
1,000 to 2,499 .....	415	712,967	0	0	107	189,186	308	523,781
2,500 to 4,999 .....	319	1,136,808	1	4,844	103	376,096	215	755,868
5,000 to 9,999 .....	316	2,208,126	7	59,147	134	929,495	175	1,219,484
10,000 to 19,999 .....	220	2,998,111	30	451,527	91	1,221,834	99	1,324,650
20,000 to 29,999 .....	73	1,740,746	34	831,848	18	429,551	21	479,347
30,000 or more .....	28	1,062,639	22	841,435	2	71,206	4	149,998
<b>Private institutions</b> ..	<b>1,908</b>	<b>2,793,243</b>	<b>62</b>	<b>741,319</b>	<b>1,437</b>	<b>1,816,756</b>	<b>409</b>	<b>235,168</b>
Under 200 .....	400	41,259	0	0	283	29,238	117	12,021
200 to 499 .....	395	133,480	0	0	235	79,221	160	34,259
500 to 999 .....	393	284,302	0	0	307	224,224	86	60,078
1,000 to 2,499 .....	463	716,209	0	0	423	654,072	40	62,137
2,500 to 4,999 .....	148	509,065	6	25,274	139	473,355	3	10,436
5,000 to 9,999 ..	68	454,938	24	182,969	43	274,595	1	7,374
10,000 to 19,999 ..	33	423,871	24	312,957	7	82,051	2	28,863
20,000 to 29,999 ..	5	124,882	5	124,882	0	0	0	0
30,000 or more ..	3	95,237	3	95,237	0	0	0	0

<sup>1</sup> These preliminary data represent the institutions and enrollments reported in the "Fall Enrollment" survey

<sup>2</sup> Because some institutions do not report enrollment data, counts of institutions in this table are somewhat lower than figures appearing in other tables

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1987" survey (This table was prepared March 1989)

Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987

Institution	State	Control <sup>1</sup>	Type <sup>2</sup>	Total enrollment, fall 1985	Total enrollment, fall 1986	Total enrollment, fall 1987	Enrollment, by sex, fall 1987		Enrollment by attendance status, fall 1987	
							Men	Women	Full-time	Part-time
							8	9	10	11
<b>United States, all institutions</b>	—	—	—	<b>12,247,055</b>	<b>12,504,501</b>	<b>12,768,007</b>	<b>5,932,131</b>	<b>6,836,176</b>	<b>7,231,508</b>	<b>5,536,001</b>
<b>Colleges with enrollment over 15,000</b>	—	—	—	<b>4,142,940</b>	<b>4,216,362</b>	<b>4,282,856</b>	<b>2,114,695</b>	<b>2,178,161</b>	<b>2,591,493</b>	<b>1,701,363</b>
Auburn University, Main Campus	Ala	1	1	19,056	19,363	19,363	11,155	8,208	16,808	2,555
University of Alabama	Ala	1	1	15,577	16,210	17,166	8,720	8,446	14,487	2,679
Arizona State University	Anz	1	1	40,529	42,014	42,968	21,752	21,216	26,886	16,082
Glendale Community College	Anz	1	2	13,377	15,299	15,826	6,865	8,961	3,605	12,221
Mesa Community College	Anz	1	2	16,789	18,233	19,443	8,609	10,834	4,404	15,039
Pima Community College	Anz	1	2	20,801	22,959	24,866	11,346	13,520	5,533	19,333
University of Arizona	Anz	1	1	30,864	31,583	33,009	17,268	15,741	24,216	8,793
American River College	Calif	1	2	17,413	19,265	19,318	8,468	10,850	4,204	15,114
California Polytechnic State U., Obispo	Calif	1	1	15,968	15,875	16,049	9,180	6,869	13,423	2,626
California State Polytechnic U., Pomona	Calif	1	1	17,024	17,679	18,317	10,477	7,840	12,221	6,096
California State University, Chico	Calif	1	1	14,196	14,892	15,434	7,702	7,732	12,511	2,923
California State University, Fresno	Calif	1	1	16,454	17,756	18,364	8,716	9,648	12,966	5,398
California State University, Fullerton	Calif	1	1	23,034	24,277	24,317	11,136	13,181	13,748	10,571
California State University, Long Beach	Calif	1	1	31,124	33,586	34,926	16,143	18,783	20,141	14,785
California State University, Los Angeles	Calif	1	1	19,576	20,773	20,977	9,197	11,780	10,378	10,599
California State University, Northridge	Calif	1	1	28,144	29,880	29,719	12,929	16,790	17,103	12,616
California State University, Sacramento	Calif	1	1	22,483	23,673	24,128	10,709	13,419	15,172	8,956
Cerritos College	Calif	1	2	17,416	18,274	18,110	8,226	9,884	4,198	13,912
Chabot College	Calif	1	2	17,882	18,902	19,417	9,155	10,262	4,477	14,940
City College of San Francisco	Calif	1	2	22,416	23,177	24,641	11,247	13,394	6,799	17,842
College of San Mateo	Calif	1	2	14,055	13,872	15,143	7,279	7,864	4,009	11,134
De Anza College	Calif	1	2	23,743	24,349	25,036	11,706	15,330	7,250	17,786
Diablo Valley College	Calif	1	2	16,668	18,992	20,043	8,733	11,310	6,563	13,480
El Camino College	Calif	1	2	24,179	25,752	25,485	11,921	13,564	5,837	19,648
Fresno City College	Calif	1	2	13,240	14,653	15,177	6,791	6,386	5,277	9,900
Fullerton College	Calif	1	2	16,596	16,708	17,235	8,310	8,925	4,006	13,229
Grossmont College	Calif	1	2	14,214	15,294	15,715	6,735	8,980	4,917	10,798
Long Beach City College	Calif	1	2	22,245	20,720	20,585	9,197	11,388	5,196	15,389
Los Angeles Pierce College	Calif	1	2	17,135	18,513	18,316	8,826	9,490	5,608	12,708
Los Angeles Valley College	Calif	1	2	16,046	18,178	18,139	7,957	10,182	4,111	14,028
Mount San Antonio College	Calif	1	2	20,314	20,290	19,840	9,266	10,574	5,602	14,238
Orange Coast College	Calif	1	2	21,925	22,552	24,167	12,096	12,071	6,993	17,174
Palomar College	Calif	1	2	15,261	14,837	15,404	6,886	8,518	4,327	11,077
Pasadena City College	Calif	1	2	17,818	20,067	20,178	9,332	10,846	6,248	13,930
Rancho Santiago College	Calif	1	2	20,843	21,514	20,606	10,006	10,000	3,523	17,083
Riverside Community College	Calif	1	2	13,647	14,424	15,033	6,263	8,770	3,276	11,757
San Diego Mesa College	Calif	1	2	17,989	17,990	21,336	9,928	11,408	6,657	14,679
San Diego State University	Calif	1	1	33,898	35,010	36,280	17,035	19,245	22,350	13,930
San Francisco State University	Calif	1	1	24,171	25,871	25,002	10,791	15,211	14,920	11,082
San Jose State University	Calif	1	1	24,843	26,507	27,549	13,261	14,288	16,064	11,485
Santa Monica College	Calif	1	2	19,270	17,747	17,413	7,729	9,684	3,492	13,921
Santa Rosa Junior College	Calif	1	2	16,804	20,479	21,305	8,725	12,580	4,985	16,320
University of California, Berkeley	Calif	1	1	31,007	31,463	32,055	17,703	14,352	28,849	3,406
University of California, Davis	Calif	1	1	19,534	19,809	20,847	10,501	10,348	18,555	2,292
University of California, Irvine	Calif	1	1	12,684	14,532	15,139	7,770	7,369	14,032	1,107
University of California, Los Angeles	Calif	1	1	34,501	34,418	35,435	18,216	17,219	32,985	2,450
University of California, San Diego	Calif	1	1	14,295	15,912	16,589	9,402	7,187	15,213	1,376
University of California, Santa Barbara	Calif	1	1	16,935	18,003	17,879	8,922	8,957	17,444	735
University of Southern California	Calif	2	1	30,373	30,831	30,504	18,436	12,068	19,944	10,560
Colorado State University	Colo	1	1	18,084	18,856	19,192	10,030	9,162	16,947	2,245
Metropolitan State College	Colo	1	1	14,614	15,321	15,710	7,384	8,326	8,093	7,617
University of Colorado at Boulder	Colo	1	1	22,767	23,590	23,551	12,916	10,635	21,234	2,317
University of Connecticut	Conn	1	1	23,063	23,657	24,552	11,668	12,884	17,549	7,003
University of Delaware	Del	1	1	18,162	18,831	19,067	8,433	10,634	14,487	4,580
George Washington University	D.C.	2	1	18,790	18,711	19,500	10,720	8,780	10,255	9,245
Broward Community College	Fla	1	2	19,324	18,373	21,621	8,656	12,965	6,910	14,711
Florida International University	Fla	1	1	16,966	16,744	16,619	7,367	9,252	6,827	9,792
Florida State University	Fla	1	1	21,537	22,990	23,826	11,293	12,533	18,720	5,106
Miami-Dade Community College	Fla	1	2	37,082	39,980	42,663	18,192	24,471	15,351	27,312
Saint Petersburg Junior College	Fla	1	2	16,064	18,116	18,784	7,365	11,399	6,023	12,741
University of Central Florida	Fla	1	1	18,519	18,833	17,527	8,423	9,104	8,827	8,700
University of Florida	Fla	1	1	35,334	35,172	33,568	18,195	15,373	27,950	5,818
University of South Florida	Fla	1	1	28,032	29,439	29,069	13,081	15,988	14,450	14,419
Georgia State University	Ga	1	1	21,612	21,835	22,070	9,448	12,622	9,337	12,733
University of Georgia	Ge	1	1	25,408	25,698	26,547	12,476	14,071	22,347	4,200
University of Hawaii at Manoa	Hi	1	1	19,606	18,918	18,382	8,544	9,838	12,937	5,445
College of Du Page	Ill	1	2	22,537	23,155	24,474	10,504	13,970	8,663	17,311
Illinois State University	Ill	1	1	21,178	21,926	23,141	10,535	12,606	18,971	4,170
Northern Illinois University	Ill	1	1	24,311	24,680	25,455	11,318	14,137	7,791	7,864
Northwestern University	Ill	2	1	15,845	16,226	16,437	8,689	7,748	13,076	3,361
Trinity College	Ill	1	2	18,888	17,871	18,022	8,340	9,682	4,736	13,288
University of Illinois, Urbana Campus	Ill	1	1	35,997	39,274	38,970	21,935	17,035	33,185	5,785
University of Illinois at Chicago	Ill	1	1	24,158	25,330	23,924	12,508	11,418	18,653	7,071

Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987—Continued

Enrollment, by level, fall 1987		Earned degrees conferred, 1986-87					Financial statistics, 1985-86, <sup>3</sup> in thousands			Full-time-equivalent enrollment, fall 1985	Full-time-equivalent enrollment, fall 1987
Undergraduate	Postbaccalaureate	Associate	Bachelor's	First-professional	Master's	Doctor's	Current-fund revenues	Current-fund expenditures	Educational and general expenditures	22	23
12	13	14	15	16	17	18	19	20	21		
11,047,902	1,720,405	437,137	991,339	72,750	289,557	34,120	\$100,437,616	\$97,535,742	\$76,127,965	8,943,433	8,226,513
3,526,486	786,390	75,080	400,999	25,118	127,589	21,860	39,646,509	38,437,027	1,323,315	3,130,113	3,223,134
17,093	2,270	0	3,298	92	415	105	221,121	208,829	185,866	17,818	17,830
14,063	3,103	0	2,247	145	526	110	158,670	152,430	127,842	13,893	15,559
31,910	11,058	0	5,276	115	1,114	146	293,328	280,838	240,085	31,497	33,319
15,826	0	814	0	0	0	0	24,818	23,446	20,746	8,687	7,711
19,443	0	679	0	0	0	0	31,301	27,787	24,209	8,308	9,457
24,866	0	896	0	0	0	0	38,101	36,439	34,380	10,042	12,029
25,024	7,98E	0	3,598	237	1,202	298	435,426	423,318	346,701	25,478	27,733
19,318	0	946	0	0	0	0	40,885	41,051	38,232	8,964	9,282
14,973	1,078	0	2,582	0	201	0	148,653	150,329	121,383	14,860	14,473
18,375	1,942	0	2,364	0	253	0	128,746	125,533	104,609	14,194	14,659
13,527	1,907	0	2,874	0	192	0	109,051	109,304	97,469	13,041	13,680
15,035	3,329	0	2,665	0	328	0	134,232	133,453	109,065	14,231	15,125
20,205	4,112	0	3,497	0	631	0	125,044	119,490	109,792	17,204	17,974
28,144	8,782	0	4,177	0	639	0	170,902	168,392	144,966	23,798	26,055
15,144	5,833	0	2,130	0	679	0	134,478	136,453	120,173	14,026	14,818
23,807	5,912	0	3,432	0	597	0	157,582	158,186	135,074	21,501	22,149
18,946	5,182	0	3,309	0	666	0	142,321	133,030	121,717	18,472	18,754
18,110	0	865	0	0	0	0	37,370	32,512	32,512	8,425	8,872
19,417	0	773	0	0	0	0	33,108	34,549	30,309	8,725	9,497
24,641	0	(*)	0	0	0	0	77,743	74,604	73,848	12,195	12,794
15,143	0	418	0	0	0	0	27,798	26,899	25,023	8,869	7,750
25,036	0	845	0	0	0	0	50,954	48,171	43,932	7,108	13,226
20,043	0	643	0	0	0	0	37,571	34,210	30,802	8,826	11,092
25,485	0	1,107	0	0	0	0	46,204	44,017	39,281	12,088	12,439
15,177	0	829	0	0	0	0	27,335	25,224	22,313	9,851	8,603
17,235	0	989	0	0	0	0	32,214	36,053	33,362	9,119	8,451
5,715	0	711	0	0	0	0	25,359	25,068	25,068	7,985	8,545
20,585	0	942	0	0	0	0	43,431	40,663	40,510	10,627	10,387
18,318	0	968	0	0	0	0	37,340	33,983	31,189	9,565	9,878
18,139	0	629	0	0	0	0	32,384	29,753	27,533	7,851	8,824
19,840	0	1,272	0	0	0	0	38,528	36,874	36,535	10,513	10,386
24,187	0	1,131	0	0	0	0	47,465	48,922	44,306	12,712	12,763
15,404	0	499	0	0	0	0	33,368	33,810	31,300	8,136	8,049
20,178	0	870	0	0	0	0	42,839	40,462	40,462	10,158	10,928
20,606	0	279	0	0	0	0	48,107	42,800	40,944	8,775	9,283
15,033	0	609	0	0	0	0	26,059	23,355	21,055	8,720	7,226
21,336	0	729	0	0	0	0	19,304	14,993	14,078	10,120	11,589
29,379	8,901	0	4,487	0	1,040	19	248,565	252,410	205,278	27,424	27,922
19,848	8,356	0	3,091	0	942	8	144,833	138,018	127,957	18,548	19,353
21,451	8,098	0	3,470	0	944	0	166,631	178,307	148,480	19,104	20,858
17,413	0	654	0	0	0	0	33,947	30,706	30,706	9,857	8,189
21,305	0	707	0	0	0	0	33,856	31,670	30,078	8,528	10,468
22,637	9,418	0	5,267	351	1,831	727	610,926	616,429	583,007	29,745	30,011
15,563	5,284	0	3,037	370	533	228	598,618	570,590	400,540	18,639	19,472
12,369	2,770	0	2,040	81	319	99	392,058	376,798	237,138	12,244	14,475
23,501	11,934	0	4,909	578	1,784	448	1,162,790	1,114,534	799,486	33,064	33,965
13,589	3,000	0	2,177	121	260	163	575,418	543,292	372,749	13,884	15,783
15,777	2,102	0	3,194	0	474	174	232,665	225,111	197,990	18,587	17,438
18,177	14,327	0	2,774	657	2,955	354	514,600	514,174	455,339	23,894	24,168
18,043	3,149	0	2,954	133	675	171	209,663	211,555	178,982	18,867	17,845
15,710	0	0	1,586	0	0	0	35,426	35,200	35,200	9,933	11,140
19,189	4,382	0	3,515	143	712	229	241,803	230,645	188,897	21,278	22,181
17,871	8,881	0	2,906	203	962	193	217,088	213,026	189,430	18,570	20,350
18,918	2,149	14	2,639	0	442	96	207,437	185,464	160,809	15,631	18,319
7,931	11,569	85	1,312	604	1,887	148	359,539	348,494	180,224	13,400	13,953
21,821	0	1,432	0	0	0	0	40,592	38,622	35,652	11,487	11,853
13,580	3,059	0	1,929	0	329	1	79,216	75,821	70,344	10,571	10,744
18,836	4,990	381	3,360	167	823	226	196,624	190,288	171,857	18,634	20,782
42,663	0	3,933	0	0	0	0	109,522	109,894	103,499	23,205	24,528
18,764	0	1,895	0	0	0	0	31,792	31,387	31,316	9,238	10,304
14,195	3,332	339	2,697	0	391	7	88,875	85,510	89,935	11,583	12,307
25,548	8,020	1,911	5,260	678	1,142	313	508,142	504,382	482,017	32,367	30,197
22,183	8,906	313	3,789	92	908	53	211,641	208,054	183,441	19,528	20,418
15,467	8,603	49	2,085	137	1,328	107	109,420	108,537	105,231	14,748	14,430
20,659	5,888	2	3,871	263	996	275	370,347	366,680	337,681	23,260	24,027
13,982	4,400	84	2,594	137	793	133	243,168	240,879	215,235	18,210	15,115
24,474	0	2,161	0	0	0	0	42,760	41,212	38,858	11,549	12,647
20,030	3,111	0	3,425	0	499	41	123,350	123,117	97,801	18,993	20,639
18,959	8,498	0	3,569	76	1,037	73	149,753	148,919	113,478	19,961	20,857
9,318	7,119	0	2,027	480	1,759	319	372,705	357,374	332,284	13,814	14,420
18,022	0	966	0	0	0	0	37,891	37,881	34,177	8,662	9,200
28,745	10,225	0	5,938	301	2,004	616	588,712	588,436	513,849	34,410	35,499
18,001	7,923	0	2,799	447	1,189	166	498,853	522,783	353,473	20,730	19,681

206 HIGHER EDUCATION: ENROLLMENT

Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987—Continued

Institution	State	Control <sup>1</sup>	Type <sup>2</sup>	Total enrollment, fall 1985	Total enrollment, fall 1986	Total enrollment, fall 1987	Enrollment, by sex, fall 1987		Enrollment by attendance status, fall 1987	
							Men	Women	Full-time	Part-time
							8	9	10	11
University of Southern Ill., Carbondale	Ill	1	1	22,553	23,446	24,160	15,033	9,127	18,806	5,354
Wilham Rainey Harper College	Ill	1	2	18,511	15,954	18,034	6,566	9,468	4,208	11,826
Ball State University	Ind	1	1	17,033	18,531	19,080	8,682	10,418	15,155	3,925
Indiana University, Bloomington	Ind	1	1	32,816	32,417	33,421	15,719	17,702	28,249	5,172
Indiana U -Purdue U at Indianapolis	Ind	1	1	23,430	23,468	23,818	10,225	13,393	9,260	14,338
Purdue University, Main Campus	Ind	1	1	32,822	32,984	34,069	20,239	13,830	28,144	4,925
Iowa State University	Iowa	1	1	27,182	27,073	26,600	15,801	10,799	22,425	4,175
University of Iowa	Iowa	1	1	30,611	30,870	29,995	15,203	14,782	22,609	7,386
Kansas State U of Ag and App Sci	Kans	1	1	17,570	17,687	18,049	9,950	8,099	14,186	3,863
University of Kansas, Main Campus	Kans	1	1	24,774	25,822	26,306	13,302	13,004	20,736	5,570
Wichita State University	Kans	1	1	18,309	18,248	18,407	7,704	8,703	7,044	9,363
University of Kentucky	Ky	1	1	20,421	20,892	21,869	10,712	11,157	16,425	5,444
University of Louisville	Ky	1	1	18,603	20,145	20,497	9,768	10,729	11,158	9,339
Louisiana State University	La	1	1	29,727	28,421	28,011	14,348	13,663	23,000	5,011
University of New Orleans	La	1	1	15,987	18,083	18,109	7,413	8,896	9,556	6,553
University of Southwestern Louisiana	La	1	1	18,275	15,510	15,419	7,285	8,134	11,564	2,855
Towson State University	Md	1	1	14,987	15,421	15,542	8,259	9,283	10,118	5,426
University of Maryland, College Park	Md	1	1	38,679	38,639	38,058	19,960	18,198	28,335	9,723
Boston University	Mass	2	1	27,181	27,055	28,308	13,686	14,612	20,689	7,819
Harvard University	Mass	2	1	20,711	23,730	23,891	13,143	10,548	16,845	6,746
Northeastern University	Mass	2	1	35,271	34,093	33,042	18,033	15,009	17,401	15,641
University of Massachusetts at Amherst	Mass	1	1	27,852	27,801	28,118	13,863	14,235	21,849	6,269
Central Michigan University	Mich	1	1	17,070	17,993	19,141	8,133	11,008	14,889	4,252
Eastern Michigan University	Mich	1	1	20,166	21,349	22,375	9,153	13,222	12,247	10,128
Henry Ford Community College	Mich	1	2	15,577	14,595	15,261	8,044	7,217	3,105	12,156
Lansing Community College	Mich	1	2	19,548	20,405	21,153	9,520	11,593	5,278	15,875
Macomb Community College	Mich	1	2	29,491	31,318	32,141	15,820	18,521	5,536	26,605
Michigan State University	Mich	1	1	42,746	44,088	43,960	21,331	22,829	35,249	8,711
Oakland Community College	Mich	1	2	26,553	26,875	26,251	10,989	15,262	5,350	20,901
Wayne State University	Mich	1	1	28,424	28,784	30,377	14,176	18,201	14,327	15,850
University of Michigan, Ann Arbor	Mich	1	1	34,456	34,974	35,823	19,805	15,818	31,575	4,048
Western Michigan University	Mich	1	1	20,963	21,747	23,336	10,969	12,367	15,029	8,307
Mankato State University	Minn	1	1	14,195	14,786	15,385	7,125	8,260	11,377	4,008
Saint Cloud State University	Minn	1	1	12,973	14,220	15,520	7,109	8,411	11,840	3,680
U of Minnesota, Minneapolis-Saint Paul	Minn	1	1	63,067	63,994	62,223	31,521	30,702	28,248	33,975
Southwest Missouri State University	Mo	1	1	15,511	15,233	16,085	7,319	8,766	11,577	4,508
University of Missouri, Columbia	Mo	1	1	23,047	22,727	22,958	11,710	11,248	18,793	4,185
University of Nebraska, Lincoln	Nebr	1	1	24,020	23,899	23,469	12,817	10,852	17,993	5,476
Rutgers University, New Brunswick	N J	1	1	33,524	33,969	33,157	15,575	17,582	24,185	8,972
University of New Mexico, Main Campus	N Mex	1	1	26,928	24,124	24,856	11,633	13,223	13,807	11,049
City University of New York, Hunter College	N Y	1	1	18,606	19,581	19,857	5,260	14,397	9,039	10,818
City University of New York, Queens College	N Y	1	1	18,243	18,134	18,813	8,292	10,321	8,421	8,192
City University of N.Y., Bernard Baruch College	N Y	1	1	15,753	16,126	16,587	7,288	9,299	9,108	7,479
Columbia University, New York	N Y	2	1	17,523	17,574	18,066	9,904	8,162	11,913	3,153
Nassau Community College	N Y	1	2	20,320	19,363	19,692	8,559	11,133	9,823	9,869
New York University	N Y	2	1	32,268	31,665	31,891	14,243	17,443	18,812	13,079
Saint John's University, New York	N Y	2	1	19,249	19,211	19,234	9,404	9,830	14,375	4,859
State University of N.Y. at Buffalo, Main Campus	N Y	1	1	22,896	23,877	24,449	13,803	10,646	17,154	7,295
State University of New York at Albany	N Y	1	1	15,978	18,112	18,219	7,589	8,830	12,208	4,011
Syracuse University, Main Campus	N Y	2	1	20,980	21,120	21,334	10,773	10,561	15,544	5,790
Central Piedmont Community College	N C	1	2	26,550	17,544	18,186	7,015	9,171	3,887	12,319
East Carolina University	N C	1	1	15,267	15,284	15,901	8,721	9,180	12,019	3,882
North Carolina State U at Raleigh	N C	1	1	24,294	24,687	24,349	15,068	9,281	18,598	7,751
University of North Carolina, Chapel Hill	N C	1	1	22,066	22,826	22,958	9,945	13,013	18,631	4,127
Bowling Green State U., Main Campus	Ohio	1	1	17,891	17,799	17,960	7,421	10,539	15,352	2,608
Cleveland Institute of Electronics	Ohio	2	2	23,373	23,373	23,373	13,070	2,307	0	15,377
Cleveland State University	Ohio	1	1	17,540	17,951	17,714	9,003	8,711	9,432	8,282
Cuyahoga Community College District	Ohio	1	2	24,159	23,324	22,825	8,353	14,472	6,493	16,332
Kent State University, Main Campus	Ohio	1	1	20,406	20,846	21,521	9,277	12,244	15,684	5,837
Miami University, Oxford Campus	Ohio	1	1	15,761	15,995	15,980	7,376	8,604	14,507	1,473
Ohio State University, Main Campus	Ohio	1	1	53,199	53,880	53,115	28,391	24,724	42,594	10,521
Ohio University, Main Campus	Ohio	1	1	15,217	16,021	16,693	8,873	8,020	15,095	1,598
Sinclair Community College	Ohio	1	2	14,483	16,094	16,344	6,187	10,157	3,687	12,857
University of Akron, Main Campus	Ohio	1	1	26,025	25,944	27,069	13,580	13,489	18,130	10,939
University of Cincinnati, Main Campus	Ohio	1	1	30,205	30,213	31,233	18,405	14,828	20,568	10,665
University of Toledo	Ohio	1	1	21,238	21,176	21,740	10,737	11,003	13,566	8,174
Wright State University, Main Campus	Ohio	1	1	15,424	16,075	16,123	7,819	8,304	9,808	8,515
Oklahoma State University Main Campus	Okla	1	1	21,639	21,678	21,082	11,713	9,369	18,742	4,340
Tulsa Junior College	Okla	1	2	15,210	15,292	16,011	6,348	9,663	3,238	12,773

Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987—Continued

Enrollment, by level, fall 1987		Earned degrees conferred, 1986-87					Financial statistics, 1985-86, <sup>3</sup> in thousands			Full-time-equivalent enrollment, fall 1985	Full-time-equivalent enrollment, fall 1987
Undergraduate	Postbaccalaureate	Associate	Bachelor's	First-professional	Master's	Doctor's	Current-fund revenues	Current-fund expenditures	Educational and general expenditures		
12	13	14	15	16	17	18	19	20	21	22	23
19,843	4,217	611	4,405	161	726	150	216,596	219,317	193,558	20,163	20,948
16,034	0	1,139	0	0	0	0	30,757	31,048	27,242	7,541	8,182
16,683	2,397	271	2,673	0	774	64	139,463	136,975	105,059	15,455	16,725
26,001	7,420	70	4,546	230	1,764	374	404,910	383,019	264,452	29,419	30,318
17,203	6,415	590	1,706	581	553	17	397,793	349,003	180,472	14,786	15,015
29,633	5,436	620	5,134	69	1,164	370	419,978	401,454	348,558	29,636	31,114
21,708	4,892	0	4,301	119	643	296	347,209	326,735	230,815	24,935	24,095
20,974	9,021	0	3,826	413	1,168	287	508,965	516,691	291,720	25,929	25,563
14,517	3,532	23	2,672	104	596	164	178,319	174,294	146,439	15,461	15,731
19,602	6,704	0	2,887	162	1,027	221	200,734	194,691	159,155	21,119	22,964
12,798	3,619	269	1,467	0	530	4	74,405	73,544	63,795	10,692	10,769
16,947	4,922	0	2,806	260	685	147	396,311	364,013	268,612	17,259	18,603
15,920	4,577	233	1,554	290	713	32	200,157	200,383	175,683	13,738	14,894
22,766	5,225	0	3,173	274	928	157	315,769	306,922	249,620	26,180	25,004
13,285	2,824	4	1,175	0	419	26	64,518	63,832	54,785	12,553	12,177
13,643	1,776	131	1,722	0	300	5	67,292	65,817	52,041	13,841	13,106
14,390	1,152	0	1,882	0	215	0	71,561	68,216	51,208	11,292	12,286
29,549	8,509	0	5,570	0	1,135	378	390,891	352,865	296,827	32,558	32,224
18,641	9,667	15	3,030	682	2,082	299	419,363	402,858	345,442	21,949	23,737
10,490	13,201	14	1,766	790	2,513	434	715,697	714,526	628,334	17,386	19,643
28,052	4,990	376	3,117	152	1,094	49	214,622	213,867	188,913	25,694	23,657
21,285	6,833	111	4,167	0	908	311	321,760	286,173	223,512	24,098	24,357
15,640	3,501	0	2,701	0	1,681	7	109,785	107,642	82,070	15,153	16,590
17,215	5,160	0	2,344	0	884	0	100,988	102,418	87,532	14,601	16,298
15,261	0	1,103	0	0	0	0	30,263	30,882	28,499	8,589	7,169
21,153	0	1,405	0	0	0	0	40,705	40,028	39,293	9,375	10,612
32,141	0	2,470	0	0	0	0	48,194	47,572	44,142	12,729	14,475
34,269	9,691	0	6,488	340	1,687	464	535,428	503,483	414,255	38,051	38,733
26,251	0	1,871	0	0	0	0	48,444	48,039	44,759	15,586	12,373
19,598	10,779	0	2,235	502	1,226	123	256,691	245,279	238,695	19,764	20,867
22,804	12,819	0	4,981	739	2,582	589	1,055,340	985,846	579,643	32,172	33,194
17,551	5,785	0	2,797	0	1,133	71	133,971	106,294	133,971	16,265	18,352
13,092	2,293	92	1,961	0	369	0	59,992	58,673	51,333	11,665	12,980
13,662	1,858	74	1,678	0	182	0	55,007	54,150	45,202	11,058	13,312
46,690	13,533	227	5,525	697	1,951	508	927,593	889,386	650,306	45,664	41,838
14,761	1,324	40	1,803	0	253	0	65,660	62,660	54,059	12,501	13,380
16,942	6,016	0	3,494	324	929	181	399,419	379,470	253,380	20,627	20,459
19,309	4,160	121	2,937	137	672	203	226,604	224,620	180,564	20,904	20,183
25,440	7,717	0	5,148	0	1,214	320	320,072	297,869	259,921	27,239	27,774
17,462	7,394	123	1,803	170	820	137	177,433	168,091	145,396	18,653	18,227
15,339	4,318	0	1,255	0	854	0	89,222	89,438	89,438	12,852	13,286
13,130	3,483	0	1,634	0	628	0	95,651	95,422	94,962	12,002	11,698
13,620	2,967	0	1,561	0	482	0	71,447	71,790	71,790	11,589	12,100
5,885	12,201	0	1,298	54	3,803	593	596,360	579,305	555,890	16,495	16,174
19,692	0	2,889	0	0	0	0	73,213	69,446	69,445	13,586	13,131
14,932	16,759	283	2,691	704	3,700	392	770,501	756,708	507,588	23,278	23,844
14,534	4,700	446	2,713	396	729	40	98,004	88,167	83,880	16,630	16,319
17,516	6,933	71	2,454	292	1,089	209	215,308	212,339	194,205	18,505	20,072
11,788	4,431	0	2,165	0	901	110	159,288	152,445	131,873	13,155	13,812
14,387	6,947	16	2,621	201	1,426	136	248,463	247,696	191,115	16,876	17,980
16,166	0	687	0	0	0	0	31,632	31,290	28,692	12,966	8,006
12,947	2,954	0	1,951	66	578	1	152,981	145,054	127,633	13,375	13,572
20,530	3,819	84	3,115	68	674	200	331,937	325,188	283,980	20,057	19,698
15,288	7,670	0	3,272	449	1,197	311	521,205	492,827	402,246	20,243	20,482
15,470	2,490	28	2,665	0	604	67	132,418	129,724	96,989	15,997	16,395
15,377	0	99	0	0	0	0	10,490	10,300	10,300	8,031	8,105
12,922	4,792	0	1,575	258	583	11	84,770	84,196	80,367	11,728	12,745
22,825	0	1,784	0	0	0	0	76,911	74,938	70,473	13,088	11,981
17,454	4,067	0	2,715	0	772	132	137,106	129,052	98,430	16,539	18,019
14,302	1,678	188	3,957	0	474	39	125,641	119,709	88,872	14,815	15,096
40,482	12,633	132	6,653	750	2,042	570	816,025	781,204	539,217	47,081	46,802
14,031	2,862	27	2,466	93	795	91	144,040	137,474	112,588	14,331	15,734
16,344	0	1,035	0	0	0	0	31,455	29,286	26,795	8,165	7,940
22,258	4,811	755	2,549	153	595	85	123,319	119,133	106,373	18,951	20,506
24,923	6,310	495	2,949	318	892	182	465,444	436,830	248,248	21,732	24,834
18,745	2,995	611	2,110	207	472	56	105,885	104,079	90,247	16,117	16,838
12,450	3,673	0	1,560	85	735	37	103,797	103,710	96,985	12,111	12,214
16,131	4,951	89	3,137	64	683	189	218,413	217,093	163,409	19,462	16,478
16,011	0	703	0	0	0	0	30,617	27,792	25,356	7,494	7,530



Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987—Continued

Institution	State	Control <sup>1</sup>	Type <sup>2</sup>	Total enrollment, fall 1985	Total enrollment, fall 1986	Total enrollment, fall 1987	Enrollment, by sex, fall 1987		Enrollment by attendance status, fall 1987	
							Men	Women	Full-time	Part-time
1	2	3	4	5	6	7	8	9	10	11
University of Oklahoma, Norman Campus	Okla	1	1	21,748	22,313	22,352	12,367	9,985	15,916	6,436
Oregon State University	Oreg	1	1	15,217	15,199	15,749	9,060	6,689	12,825	2,924
Portland Community College	Oreg	1	2	17,915	19,494	20,492	9,745	10,747	5,844	14,648
Portland State University	Oreg	1	1	14,768	15,640	17,316	7,767	9,549	7,420	9,896
University of Oregon	Oreg	1	1	16,375	17,142	18,195	8,843	9,352	14,182	4,613
Community College of Allegheny County	Pa	1	2	18,426	17,251	17,255	7,383	9,872	6,755	10,500
Pennsylvania State U., Main Campus	Pa	1	1	35,699	35,261	36,271	20,555	15,716	32,331	3,940
Temple University	Pa	1	1	30,277	30,615	30,431	15,267	15,164	19,811	10,620
University of Pennsylvania	Pa	2	1	21,870	21,742	21,875	11,803	10,072	17,676	4,199
University of Pittsburgh, Main Campus	Pa	1	1	28,710	28,449	28,364	14,312	14,052	18,103	10,261
University of Rhode Island	R I	1	1	14,235	14,371	15,170	7,207	7,963	10,464	4,706
University of South Carolina, Columbia	S C	1	1	23,263	22,965	25,504	11,234	14,270	16,466	9,038
Memphis State University	Tenn	1	1	20,749	20,043	20,470	9,524	10,946	12,322	8,148
University of Tennessee, Knoxville	Tenn	1	1	25,397	25,842	25,986	13,649	12,337	19,673	6,313
Austin Community College	Tex	1	2	17,549	18,340	19,905	9,544	10,361	4,565	15,340
Houston Community College	Tex	1	2	25,415	26,002	27,196	12,535	14,661	5,535	21,661
San Antonio College	Tex	1	2	22,041	20,790	21,816	9,636	12,180	6,930	14,886
Southwest Texas State University	Tex	1	1	19,268	19,778	20,039	9,752	10,287	15,587	4,452
Tarrant County Junior College District	Tex	1	2	24,135	24,091	24,490	11,329	13,161	6,140	18,350
Texas A. & M. University	Tex	1	1	35,475	36,617	39,079	23,021	16,058	34,754	4,325
Texas Tech University	Tex	1	1	23,457	23,479	23,564	12,892	10,672	18,878	4,686
University of Houston, University Park	Tex	1	1	23,944	28,164	28,907	14,931	13,976	16,163	12,744
University of North Texas	Tex	1	1	20,996	21,269	22,379	10,535	11,844	14,959	7,420
University of Texas at Arlington	Tex	1	1	23,109	23,247	22,760	12,781	9,979	13,065	9,695
University of Texas at Austin	Tex	1	1	47,838	46,140	47,743	25,580	22,163	40,063	7,680
Bingham Young University, Main Campus	Utah	2	1	29,800	30,226	29,674	15,513	14,161	22,470	7,204
University of Utah	Utah	1	1	24,770	24,721	24,124	13,530	10,594	15,451	8,673
George Mason University	Va	1	1	17,094	17,652	18,112	8,258	9,854	9,433	8,679
Northern Virginia Community College	Va	1	2	32,282	33,682	34,884	15,191	19,693	7,808	27,076
Old Dominion University	Va	1	1	15,865	15,463	15,640	7,667	7,973	9,999	5,641
Tidewater Community College	Va	1	2	13,926	15,531	16,818	7,154	9,664	4,168	12,650
University of Virginia, Main Campus	Va	1	1	17,417	21,615	21,268	9,966	11,302	16,092	5,176
Virginia Commonwealth University	Va	1	1	19,556	19,641	20,485	8,322	12,163	12,284	8,201
Virginia Polytechnic Inst and State U	Va	1	1	24,193	24,637	24,977	14,862	10,115	21,392	3,585
University of Washington	Wash	1	1	34,086	33,674	33,302	17,226	16,076	26,864	6,438
Washington State University	Wash	1	1	16,139	16,193	16,484	9,280	7,204	14,992	1,492
West Virginia University	W Va	1	1	18,031	17,174	17,270	8,949	8,321	14,044	3,226
Milwaukee Area Voc/Tech District	Wis	1	2	23,173	20,032	20,781	9,648	11,133	6,450	14,331
University of Wisconsin, Madison	Wis	1	1	45,050	44,584	43,368	22,421	20,947	36,437	8,931
University of Wisconsin, Milwaukee	Wis	1	1	26,213	25,930	25,210	11,888	13,322	13,449	11,761
Community College of the Air Force	U S	1	2	35,212	34,617	40,310	35,215	5,095	40,310	0

Table 187.—Selected statistics for college and university campuses enrolling more than 15,000 students in 1987—Continued

Enrollment, by level, fall 1987		Earned degrees conferred, 1986-87					Financial statistics, 1985-86, <sup>3</sup> in thousands			Full-time-equivalent enrollment, fall 1985	Full-time-equivalent enrollment, fall 1987
Undergraduate	Postbaccalaureate	Associate	Bachelor's	First-professional	Master's	Doctor's	Current-fund revenues	Current-fund expenditures	Educational and general expenditures	22	23
12	13	14	15	16	17	18	19	20	21		
16,449	5,903	0	2,455	218	874	101	223,372	219,774	120,984	18,483	18,490
12,590	3,159	0	2,808	36	611	141	212,411	209,840	187,661	14,411	13,995
20,492	0	1,034	0	0	0	0	48,749	47,389	41,796	9,784	10,766
12,798	4,518	0	1,617	0	599	16	65,088	64,508	57,044	9,981	11,378
13,872	4,323	0	2,274	139	788	140	132,451	130,889	107,112	14,890	15,787
17,255	0	2,125	0	0	0	0	57,129	57,129	53,892	12,201	10,283
30,454	5,817	72	7,415	0	1,043	341	524,219	501,614	388,557	33,120	33,907
21,378	9,053	80	3,051	589	1,063	290	432,383	422,492	251,515	22,878	24,059
11,931	9,944	52	2,363	643	1,744	307	847,130	823,639	463,802	18,957	19,356
18,608	9,756	0	3,108	480	1,812	394	416,157	405,500	319,020	22,166	22,207
11,941	3,229	20	1,673	2	464	66	139,018	138,776	116,914	11,107	12,346
15,011	10,493	25	2,910	307	1,505	169	216,710	210,727	184,051	19,126	20,081
16,246	4,224	0	1,820	144	688	50	107,542	103,876	89,783	15,447	15,581
19,639	6,347	0	3,226	203	1,061	206	290,095	289,983	246,595	21,843	22,198
19,905	0	587	0	0	0	0	29,205	29,244	29,068	8,190	9,719
27,196	0	600	0	0	0	0	62,201	70,060	70,046	11,095	12,813
21,816	0	357	0	0	0	0	47,919	49,513	47,288	13,183	11,932
17,907	2,132	14	2,906	0	343	0	81,362	78,461	55,112	17,371	17,368
24,490	0	1,122	0	0	0	0	48,677	49,317	44,880	12,920	12,306
31,962	7,117	0	6,064	177	1,074	369	586,028	542,434	461,462	33,229	36,484
19,852	3,912	0	3,000	165	608	113	192,913	184,726	153,993	21,085	20,752
18,903	10,004	0	2,525	443	1,136	134	196,079	191,664	159,651	22,957	21,261
16,492	5,887	0	2,252	0	1,080	180	122,642	113,127	90,536	17,214	17,927
17,707	5,053	0	2,676	0	745	40	108,124	113,469	95,229	18,541	16,943
36,195	11,548	0	6,751	538	1,751	612	553,744	537,027	462,134	44,457	43,135
26,707	2,967	86	5,150	148	1,040	107	(*)	(*)	(*)	25,824	25,352
19,828	4,296	0	2,639	217	808	173	409,552	392,910	260,606	19,760	18,920
12,575	5,537	0	1,835	168	516	14	75,447	76,643	61,751	11,731	12,805
34,884	0	1,551	0	0	0	0	53,087	53,151	53,151	15,042	16,906
11,444	4,196	0	1,714	0	425	19	83,243	81,560	65,837	11,495	12,255
16,818	0	838	0	0	0	0	23,419	23,246	23,238	6,915	8,418
12,192	9,076	0	2,879	524	1,275	218	466,018	435,460	231,277	16,450	18,162
14,831	5,684	14	1,925	231	706	80	400,960	394,800	183,373	14,344	15,564
18,565	6,412	0	3,581	80	1,002	295	306,285	304,137	271,378	21,764	22,826
24,691	6,611	0	4,959	363	1,755	411	686,815	662,739	520,542	30,072	29,439
14,011	2,473	0	2,828	95	447	152	229,253	223,941	185,030	15,378	15,589
12,800	4,470	0	2,539	229	1,087	110	199,737	196,897	166,658	15,774	15,334
20,781	0	1,306	0	0	0	0	80,403	79,912	74,768	10,677	11,265
30,170	13,198	0	6,000	524	1,983	667	772,231	768,125	595,960	40,506	39,209
20,645	4,565	0	2,474	0	947	54	146,695	147,524	128,126	19,209	18,153
40,310	0	9,184	0	0	0	0	(*)	(*)	(*)	35,212	40,310

<sup>1</sup> Publicly controlled institutions are identified by a "1", privately controlled, by a "2"

<sup>2</sup> The types of institutions are identified as follows: "1," 4 year institutions; "2," 2 year institutions

<sup>3</sup> Totals for the United States and the colleges enrolling more than 15,000 students include estimates for nonrespondents

<sup>4</sup> Data not reported

—Data not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education," "Fall Enrollment in Institutions of Higher Education" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" and "Fall Enrollment" surveys (This table was prepared May 1989)

210 HIGHER EDUCATION: ENROLLMENT

Table 188.—Enrollment of the 130 largest college and university campuses: Fall 1987

Name of institution	State	Rank <sup>1</sup>	Control <sup>2</sup>	Type <sup>3</sup>	Enrollment, fall 1987	Name of institution	State	Rank <sup>1</sup>	Control <sup>2</sup>	Type <sup>3</sup>	Enrollment, fall 1987
1	2	3	4	5	6	1	2	3	4	5	6
U of Minnesota, Minneapolis-Saint Paul	Minn	1	1	1	62,223	University of Southern Ill., Carbondale	Ill	66	1	1	24,160
Ohio State University, Main Campus	Ohio	2	1	1	53,115	California State University, Sacramento	Calif	67	1	1	24,128
University of Texas at Austin	Tex	3	1	1	47,743	University of Utah	Utah	68	1	1	24,124
Michigan State University	Mich	4	1	1	43,960	University of Illinois at Chicago	Ill	69	1	1	23,924
University of Wisconsin Madison	Wis	5	1	1	43,368	Florida State University	Fla	70	1	1	23,826
Arizona State University	Ariz	6	1	1	42,988	Harvard University	Mass	71	2	1	23,691
Miami-Dade Community College	Fla	7	1	2	42,863	Indiana U -Purdue U at Indianapolis	Ind	72	1	1	23,618
Community College of the Air Force	U.S.	8	1	2	40,310	Texas Tech University	Tex	73	1	1	23,584
Texas A. & M. University	Tex	9	1	1	39,079	University of Colorado at Boulder	Colo	74	1	1	23,551
University of Illinois, Urbana Campus	Ill	10	1	1	38,970	University of Nebraska, Lincoln	Nebr	75	1	1	23,489
University of Maryland, College Park	Md	11	1	1	38,058	Western Michigan University	Mich	76	1	1	23,336
San Diego State University	Calif	12	1	1	36,280	Illinois State University	Ill	77	1	1	23,141
Pennsylvania State U., Main Campus	Pa.	13	1	1	36,271	University of Missouri, Columbia	Mo	78	1	1	22,958
University of Michigan, Ann Arbor	Mich	14	1	1	35,623	U of North Carolina, Chapel Hill	N.C.	79	1	1	22,958
University of California, Los Angeles	Calif	15	1	1	35,435	Cuyahoga Community College District	Ohio	80	1	2	22,625
California State University, Long Beach	Calif	16	1	1	34,926	University of Texas at Arlington	Tex	81	1	1	22,760
Northern Virginia Community College	Va	17	1	2	34,884	University of North Texas	Tex	82	1	1	22,379
Purdue University, Main Campus	Ind	18	1	1	34,069	Eastern Michigan University	Mich	83	1	1	22,375
University of Florida	Fla	19	1	1	33,568	University of Oklahoma, Norman Campus	Okl	84	1	1	22,352
Indiana University, Bloomington	Ind	20	1	1	33,421	Georgia State University	Ga	85	1	1	22,070
University of Washington	Wash	21	1	1	33,302	University of Pennsylvania	Pa	86	2	1	21,675
Rutgers University, New Brunswick	N.J.	22	1	1	33,157	University of Kentucky	Ky	87	1	1	21,869
Northeastern University	Mass	23	2	1	33,042	San Antonio College	Tex	88	1	2	21,816
University of Arizona	Ariz	24	1	1	33,009	University of Toledo	Ohio	89	1	1	21,740
Macomb Community College	Mich	25	1	2	32,141	Broward Community College	Fla	90	1	2	21,621
University of California, Berkeley	Calif	26	1	1	32,055	Kent State University, Main Campus	Ohio	91	1	1	21,521
New York University	N.Y.	27	2	1	31,691	San Diego Mesa College	Calif	92	1	2	21,336
University of Cincinnati, Main Campus	Ohio	28	1	1	31,233	Syracuse University, Main Campus	N.Y.	93	2	1	21,334
University of Southern California	Calif	29	2	1	30,504	Santa Rosa Junior College	Calif	94	1	2	21,305
Temple University	Pa	30	1	1	30,431	University of Virginia, Main Campus	Va	95	1	1	21,268
Wayne State University	Mich	31	1	1	30,377	Lansing Community College	Mich	96	1	2	21,153
University of Iowa	Iowa	32	1	1	29,995	Okahoma State U., Main Campus	Okl	97	1	1	21,082
California State University, Northridge	Calif	33	1	1	29,719	California State U., Los Angeles	Calif	98	1	1	20,977
Brigham Young University, Main Campus	Utah	34	2	1	29,674	University of California, Davis	Calif	99	1	1	20,847
University of South Florida	Fla	35	1	1	20,069	Milwaukee Area Voc /Tech District	Wis	100	1	2	20,781
University of Houston, University Park	Tex	36	1	1	28,907	Rancho Santiago College	Calif	101	1	2	20,606
University of Pittsburgh, Main Campus	Pa	37	1	1	28,364	Long Beach City College	Calif	102	1	2	20,585
Boston University	Mass	38	2	1	28,308	University of Louisville	Ky	103	1	1	20,497
University of Massachusetts at Amherst	Mass	39	1	1	28,118	Portland Community College	Oreg	104	1	2	20,492
Louisiana State University	La	40	1	1	28,011	Virginia Commonwealth University	Va	105	1	1	20,485
San Jose State University	Calif	41	1	1	27,549	Memphis State University	Tenn	106	1	1	20,470
Houston Community College	Tex	42	1	2	27,196	Pasadena City College	Calif	107	1	2	20,178
University of Akron, Main Campus	Ohio	43	1	1	27,069	Diablo Valley College	Calif	108	1	2	20,043
Iowa State University	Iowa	44	1	1	26,600	Southwest Texas State University	Tex	109	1	1	20,039
University of Georgia	Ga	45	1	1	26,547	Austin Community College	Tex	110	1	2	19,905
University of Kansas, Main Campus	Kans	46	1	1	26,306	Mount San Antonio College	Calif	111	1	2	19,840
Oakland Community College	Mich	47	1	2	26,251	Nassau Community College	N.Y.	112	1	2	19,692
San Francisco State University	Calif	48	1	1	26,002	City University of New York, Hunter College	N.Y.	113	1	1	19,657
University of Tennessee, Knoxville	Tenn	49	1	1	25,986	George Washington University	D.C.	114	2	1	19,500
University of South Carolina, Columbia	S.C.	50	1	1	25,504	Mesa Community College	Ariz	115	1	2	19,443
El Camino College	Calif	51	1	2	25,485	Chabot College	Calif	116	1	2	19,417
Northern Illinois University	Ill	52	1	1	25,455	Auburn University, Main Campus	Ala	117	1	1	19,363
University of Wisconsin, Milwaukee	Wis	53	1	1	25,210	American River College	Calif	118	1	2	19,318
De Anza College	Calif	54	1	2	25,036	Saint John's University, New York	N.Y.	119	2	1	19,234
Virginia Polytechnic Inst and State U	Va	55	1	1	24,977	Colorado State University	Colo	120	1	1	19,192
Pima Community College	Ariz	56	1	2	24,866	Central Michigan University	Mich	121	1	1	19,141
University of New Mexico, Main Campus	N.Mex.	57	1	1	24,858	Ball State University	Ind	122	1	1	19,080
City College of San Francisco	Calif	58	1	2	24,641	University of Delaware	Del	123	1	1	19,067
University of Connecticut	Conn	59	1	1	24,552	Saint Petersburg Junior College	Fla	124	1	2	18,784
Tarrant County Junior College District	Tex	60	1	2	24,490	University of Hawaii at Manoa	Hi	125	1	1	18,382
College of Du Page	Ill	61	1	2	24,474	California State University, Fresno	Calif	126	1	1	18,364
State U. of N.Y. at Buffalo, Main Campus	N.Y.	62	1	1	24,449	Calif. State Polytechnic U., Pomona	Calif	127	1	1	18,317
North Carolina State U. at Raleigh	N.C.	63	1	1	24,349	Los Angeles Pierce College	Calif	128	1	2	18,316
California State University, Fullerton	Calif	64	1	1	24,317	University of Oregon	Oreg	129	1	1	18,195
Orange Coast College	Calif	65	1	2	24,187	Los Angeles Valley College	Calif	130	1	2	18,139

<sup>1</sup> College and university campuses ranked by size of enrollment in fall 1987. Data are preliminary.

<sup>2</sup> Publicly controlled institutions are identified by a "1", privately controlled, by a "2".

<sup>3</sup> The types of institutions are identified as follows: "1," 4-year institutions; "2," 2-year institutions.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment, 1987" survey (This table was prepared May 1989).

**Table 189.—Selected statistics on traditionally black institutions of higher education:<sup>1</sup>  
1985-86, 1986-87, and fall 1987**

Item	Total	Public		Private	
		4-year	2-year	4-year	2-year
1	2	3	4	5	6
<b>Number of institutions, fall 1987</b>	<b>99</b>	<b>38</b>	<b>5</b>	<b>49</b>	<b>7</b>
Total enrollment, fall 1985	213,776	146,111	6,050	60,292	1,323
Men	94,998	65,617	2,370	26,387	624
Women	118,778	80,494	3,680	33,905	699
Total enrollment, fall 1987	211,867	146,412	6,442	57,475	1,538
Men	89,963	62,798	2,400	24,127	638
Women	121,904	83,614	4,042	33,348	900
Full-time enrollment, fall 1987	163,659	105,755	4,717	51,827	1,360
Men	71,481	47,494	1,692	21,719	576
Women	92,178	58,261	3,025	30,108	784
Part-time enrollment, fall 1987	48,208	40,657	1,725	5,648	178
Men	18,482	15,304	708	2,408	62
Women	29,726	25,353	1,017	3,240	116
<b>Earned degrees conferred, 1986-87</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
Associate	1,817	1,040	486	97	194
Men	622	374	128	34	86
Women	1,195	666	358	63	108
Bachelor's...	20,107	13,229	—	6,872	6
Men	8,807	6,054	—	2,747	—
Women	11,300	7,175	—	4,125	—
Master's	3,979	3,148	—	831	—
Men	1,579	1,242	—	337	—
Women	2,400	1,906	—	494	—
Doctor's	194	56	—	138	—
Men	105	32	—	73	—
Women	89	24	—	65	—
First-professional	853	272	—	581	—
Men	530	164	—	366	—
Women	323	108	—	215	—
<b>Financial statistics, 1985-86, in thousands of dollars</b>					
Current-fund revenues	\$1,966,778	\$1,098,481	\$29,529	\$927,517	\$11,251
Tuition fees	364,622	150,588	2,917	208,037	3,081
Federal government <sup>2</sup>	403,162	134,818	4,743	261,114	2,487
State governments <sup>2</sup>	575,813	546,340	16,830	12,643	0
Local governments <sup>2</sup>	74,322	71,863	1,438	1,021	0
Private gifts, grants, and contracts	93,950	9,304	771	80,787	3,088
Endowment income	22,630	1,391	40	20,890	309
Sales and services	386,087	156,341	1,732	226,296	1,719
Other sources	46,191	27,837	1,057	16,729	569
Current-fund expenditures	1,954,606	1,078,351	27,851	839,074	9,330
Educational and general expenditures	1,569,158	921,003	26,553	613,560	8,042
Auxiliary enterprises	235,211	157,348	1,298	75,278	1,288
Hospitals	150,237	—	—	150,237	—
Endowment, market value	438,773	20,187	1,149	416,756	670
Buildings, replacement value	4,186,359	2,636,038	57,391	1,488,530	24,400

<sup>1</sup> Includes institutions, mainly in the southern and border States, which were established prior to 1954 for the education of black students during legal segregation

<sup>2</sup> Includes appropriations, grants, and contracts

—Data not reported or not applicable

NOTE—Enrollment data for fall 1987 and degree data for 1986-87 are preliminary. Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education," and "Financial Statistics of Institutions of Higher Education, Fiscal Year 1986" surveys; a) Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" and "Completions" surveys (This table was prepared April 1989)

**Table 190.—Full-time and part-time senior instructional faculty<sup>1</sup> in institutions of higher education, by employment status and control and type of institution: Fall 1970 to fall 1988**

(In thousands)

Year	Total	Employment status		Control		Type	
		Full-time	Part-time	Public	Private	4-year	2-year
1	2	3	4	5	6	7	8
1970	474	369	104	314	160	382	92
1971 <sup>2</sup>	492	379	113	333	159	387	105
1972	500	380	120	343	157	384	116
1973 <sup>2</sup>	527	389	138	365	162	401	126
1974 <sup>2</sup>	567	406	161	397	170	427	140
1975 <sup>2</sup>	628	440	188	443	185	467	161
1976	633	434	199	450	183	467	166
1977	678	448	230	492	186	485	193
1979 <sup>2</sup>	675	445	230	488	187	494	182
1980 <sup>2</sup>	685	450	236	495	191	494	192
1981	705	461	244	509	196	493	212
1982 <sup>2</sup>	710	462	248	506	204	493	217
1983	724	471	254	512	212	504	220
1984 <sup>2</sup>	717	462	255	505	212	504	213
1985 <sup>2</sup>	715	459	256	503	212	504	211
1986 <sup>2</sup>	722	459	263	510	212	506	216
1987 <sup>2</sup>	736	466	269	523	213	516	220
1988 <sup>2</sup>	741	467	275	524	217	521	221

<sup>1</sup> Includes faculty members with the title of professor, associate professor, assistant professor, instructor, lecturer, assisting professor, adjunct professor, or interim professor (or the equivalent). Excluded are graduate students with titles such as graduate or teaching fellow who assist senior faculty.  
<sup>2</sup> Estimated on the basis of enrollment.

Projections of Education Statistics to 2000. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Employees in Institutions of Higher Education*, various years; *Projections of Education Statistics to 2000*, and U.S. Equal Employment Opportunity Commission, *Higher Education Staff Information Report File, 1977, 1981, and 1983* (This table was prepared May 1989).

NOTE—Data exclude faculty employed by system offices. Some data have been revised from previously published figures. For methodological details on estimates, see

**Table 191.—Full-time instructional faculty in institutions of higher education, by race/ethnicity, academic rank, and sex: Fall 1985**

Academic rank and sex	Total	Race/ethnicity				
		White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native
1	2	3	4	5	6	7
<b>Men and women, all ranks</b>	<b>464,072</b>	<b>417,036</b>	<b>19,227</b>	<b>7,704</b>	<b>16,370</b>	<b>1,735</b>
Professors	129,269	119,868	2,859	1,455	4,788	299
Associate professors	111,092	100,630	11	1,727	4,130	404
Assistant professors	111,308	97,496	5,895	1,968	5,469	480
Instructors	75,411	66,799	4,572	1,798	1,806	436
Lecturers	9,766	8,477	631	251	360	47
Other faculty	27,226	23,766	1,069	505	1,817	69
<b>Men, all ranks</b>	<b>336,009</b>	<b>303,953</b>	<b>10,458</b>	<b>5,360</b>	<b>14,848</b>	<b>1,394</b>
Professors	114,258	106,335	2,058	1,206	4,395	264
Associate professors	85,156	77,483	2,595	1,280	3,451	347
Assistant professors	71,463	62,582	2,923	1,316	4,240	402
Instructors	43,251	38,592	2,107	1,141	1,105	306
Lecturers	5,098	4,436	304	117	212	29
Other faculty	16,783	14,525	469	300	1,443	46
<b>Women, all ranks</b>	<b>128,063</b>	<b>113,083</b>	<b>8,771</b>	<b>2,344</b>	<b>3,524</b>	<b>341</b>
Professors	15,011	13,533	801	249	393	35
Associate professors	25,936	23,147	1,606	447	679	57
Assistant professors	39,845	34,914	2,972	52	1,229	78
Instructors	32,160	28,207	2,465	657	701	130
Lecturers	4,668	4,041	327	134	148	18
Other faculty	10,443	9,241	600	205	374	23

NOTE—Data exclude faculty employed by system offices. Totals may differ from figures reported on other tables because of varying survey methodologies.

SOURCE: U.S. Equal Employment Opportunity Commission, *Higher Education Staff Information Report File, 1985*, unpublished data (This table was prepared June 1989).

**Table 192.—Average salary of full-time instructional faculty in institutions of higher education, by academic rank and sex: 1972-73 to 1987-88**

Academic year and sex	Constant (1987-88) dollars <sup>1</sup>	Current dollars						
		All ranks	Professor	Associate professor	Assistant professor	Instructor	Lecturer	Undesignated or no academic rank
	1	2	3	4	5	6	7	8
<b>1972-73</b>								
Total.....	\$37,479	\$13,850	\$19,182	\$14,572	\$12,029	\$10,737	\$11,637	\$12,676
Male.....	39,008	14,415	19,405	14,714	12,190	11,147	12,105	13,047
Female.....	32,270	11,925	17,122	13,827	11,510	10,099	10,775	11,913
<b>1975-76</b>								
Total.....	34,745	16,634	22,611	17,026	13,966	13,682	12,887	15,201
Male.....	36,320	17,388	22,866	17,167	14,154	14,440	13,577	15,764
Female.....	29,853	14,292	20,257	16,336	13,506	12,580	11,870	14,098
<b>1979-80</b>								
Total.....	31,883	21,367	28,371	21,431	17,459	14,021	16,151	20,479
Male.....	33,459	22,423	28,653	21,627	17,712	14,321	16,987	21,247
Female.....	27,449	18,395	25,910	20,642	16,971	13,749	15,142	19,069
<b>1980-81</b>								
Total.....	31,161	23,302	30,753	23,214	18,901	15,178	17,301	22,334
Male.....	32,762	24,499	31,082	23,451	19,227	15,545	18,281	23,170
Female.....	26,740	19,996	27,959	22,295	18,302	14,854	16,168	20,843
<b>1981-82</b>								
Total.....	31,326	25,449	33,437	25,278	20,608	16,450	18,756	24,331
Male.....	32,984	26,796	33,799	25,553	21,025	16,906	19,721	25,276
Female.....	26,837	21,802	30,438	24,271	19,866	16,054	17,676	22,672
<b>1982-83</b>								
Total.....	32,098	27,196	35,540	26,921	22,056	17,601	20,072	25,557
Male.....	33,831	28,664	35,956	27,262	22,586	18,160	21,225	26,541
Female.....	27,454	23,261	32,221	25,738	21,130	17,102	18,830	23,855
<b>1984-85</b>								
Total.....	33,347	30,447	39,743	29,945	24,668	20,230	22,334	27,683
Male.....	35,248	32,182	40,269	30,392	25,330	21,159	23,557	28,670
Female.....	28,412	25,941	35,824	28,517	23,575	19,362	21,004	26,050
<b>1985-86</b>								
Total.....	34,483	32,392	42,268	31,787	26,277	20,918	23,770	29,088
Male.....	36,508	34,294	42,837	32,273	27,094	21,693	25,238	30,267
Female.....	29,356	27,576	38,252	30,300	24,966	20,237	22,273	27,171
<b>1987-88</b>								
Total.....	36,011	36,011	47,285	35,308	29,219	22,542	26,069	29,477
Male.....	38,295	38,295	47,967	35,892	30,209	23,434	27,771	30,645
Female.....	30,364	30,364	42,655	33,625	27,680	21,812	24,448	27,751

<sup>1</sup> Data adjusted, using the Consumer Price Index prepared by the Bureau of Labor Statistics, averaged on an academic year time frame

SOURCE U.S. Department of Education, National Center for Education Statistics, *Faculty Salaries, Tenure, and Benefits*, and Integrated Postsecondary Education Data System (IPEDS), "Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty" survey (This table was prepared May 1989)

NOTE—Data for 1972-73, 1975-76, and 1987-88 are for faculty on 9- to 10-month contracts, data for 1979-80 to 1985-86 are for faculty on 9-month contracts. Data exclude imputations for nonrespondent institutions

**Table 193.—Average salary of full-time instructional faculty on 9-month contracts in institutions of higher education, by academic rank and sex and by type and control of institution: 1980-81, 1982-83, 1985-86, and 1987-88**

Academic year, control, and type of institution	Average salary, all faculty	Average salary, by rank						Average salary, by sex	
		Professor	Associate professor	Assistant professor	Instructor	Lecturer	No academic rank	Men	Women
1	2	3	4	5	6	7	8	9	10
<b>1980-81</b>									
All institutions .....	\$23,302	\$30,753	\$23,214	\$18,901	\$15,178	\$17,301	\$22,334	\$24,433	\$19,996
4-year .....	23,693	31,016	23,265	18,867	15,057	17,375	17,380	24,909	19,809
University .....	25,349	33,622	24,392	19,684	15,530	17,327	17,856	27,206	20,736
Other 4-year .....	22,230	28,798	22,558	18,398	14,887	17,425	17,334	23,271	19,372
2-year .....	21,898	26,528	22,750	19,166	15,621	16,222	22,615	22,736	20,434
Public institutions .....	23,745	31,077	23,772	19,431	15,613	17,620	22,820	24,873	20,673
4-year .....	24,373	31,442	23,898	19,442	15,486	17,712	19,240	25,509	20,608
University .....	25,571	32,945	24,268	19,637	15,305	17,426	17,358	26,788	20,564
Other 4-year .....	23,500	30,097	23,639	19,515	15,567	17,997	19,798	24,499	20,633
2-year .....	22,177	26,880	22,947	19,370	15,928	16,458	22,875	22,965	20,778
Private institutions .....	22,093	29,994	21,833	17,767	14,192	15,899	15,946	23,493	18,073
4-year .....	22,325	30,089	21,887	17,816	14,316	15,971	16,706	23,669	18,326
University .....	26,897	35,227	24,730	19,792	16,197	16,956	18,933	28,251	21,176
Other 4-year .....	19,996	26,173	20,502	16,939	13,905	14,741	16,617	21,040	17,342
2-year .....	15,065	18,645	17,665	14,663	12,155	12,441	14,993	16,075	13,892
<b>1982-83</b>									
All institutions .....	27,196	35,540	26,921	22,056	17,601	20,072	25,557	28,664	23,261
4-year .....	27,758	35,889	27,013	22,055	17,440	20,072	25,557	28,664	23,261
University .....	30,710	39,073	28,502	23,398	17,958	20,170	19,850	32,269	24,396
Other 4-year .....	25,921	33,121	26,113	21,315	17,275	20,064	19,594	27,167	22,568
2-year .....	25,252	30,680	26,131	22,058	18,128	19,173	25,900	26,268	23,536
Public institutions .....	27,488	35,473	27,346	22,538	18,003	20,048	26,113	28,851	23,892
4-year .....	28,293	35,918	27,511	22,588	17,789	20,087	21,189	29,661	23,876
University .....	29,893	38,041	28,086	23,112	17,430	19,869	19,160	31,390	23,908
Other 4-year .....	27,152	34,124	27,112	22,245	17,940	20,277	22,333	28,323	23,858
2-year .....	25,567	31,058	26,349	22,290	18,484	19,547	26,189	26,524	23,917
Private institutions .....	26,393	35,701	25,876	21,054	16,675	20,176	17,786	28,159	21,451
4-year .....	26,691	35,828	25,949	21,118	16,849	20,232	19,072	28,380	21,785
University .....	32,842	42,658	29,692	24,095	19,678	21,088	22,740	34,540	25,721
Other 4-year .....	23,819	31,095	24,294	19,929	16,336	18,960	18,957	25,128	20,545
2-year .....	16,595	20,829	19,689	17,164	14,055	13,438	15,811	17,346	15,845
<b>1985-86</b>									
All institutions .....	32,392	42,268	31,787	26,277	20,918	23,770	29,088	34,294	27,576
4-year .....	33,270	42,803	31,940	26,335	20,383	23,805	24,055	35,174	27,696
University .....	35,837	46,964	33,704	28,242	20,784	23,807	24,139	38,841	29,243
Other 4-year .....	31,718	39,610	30,864	25,314	20,253	23,802	24,043	32,688	26,994
2-year .....	29,239	36,076	30,483	25,823	22,434	23,154	29,420	30,490	27,294
Public institutions .....	32,150	42,322	32,367	26,951	21,553	23,839	29,597	34,528	28,299
4-year .....	34,133	43,044	32,642	27,100	20,895	23,862	25,142	35,786	28,880
University .....	35,835	45,322	33,133	27,887	20,226	23,557	23,706	37,771	28,567
Other 4-year .....	32,757	41,170	32,296	26,597	21,180	24,101	25,705	34,260	28,742
2-year .....	29,590	36,418	30,733	26,162	22,818	23,500	29,712	30,758	27,693
Private institutions .....	31,402	42,118	30,400	24,891	19,314	23,477	21,577	33,656	25,523
4-year .....	31,732	42,260	30,118	24,987	19,483	23,574	23,394	33,900	25,889
University .....	39,519	51,355	35,307	29,125	22,743	24,540	26,603	41,580	31,106
Other 4-year .....	28,198	36,455	28,365	23,412	18,910	22,093	23,295	29,882	24,280
2-year .....	19,436	24,519	22,291	19,297	16,419	9,231	18,783	20,412	18,504
<b>1987-88</b>									
All institutions .....	36,011	47,285	35,338	29,219	22,542	26,069	29,477	38,295	30,364
4-year .....	37,177	47,876	35,502	29,324	22,302	26,055	26,759	39,398	30,921
University .....	41,563	53,142	37,790	31,820	22,767	26,466	28,152	43,917	33,006
Other 4-year .....	34,423	43,838	34,662	27,959	22,150	25,773	26,503	36,260	29,951
2-year .....	30,670	39,214	33,038	28,182	23,462	25,602	29,739	32,007	28,720
Public institutions .....	36,225	47,199	35,917	29,877	22,931	26,100	29,875	38,392	30,937
4-year .....	37,903	47,988	36,249	30,078	22,611	26,130	27,171	39,964	31,882
University .....	40,140	50,883	37,022	31,219	21,870	26,124	25,574	42,411	31,998
Other 4-year .....	36,323	45,667	35,690	29,349	22,923	26,135	28,077	39,081	31,819
2-year .....	30,960	39,598	33,562	28,548	23,770	25,679	29,966	32,242	29,057
Private institutions .....	35,488	47,491	33,923	27,917	21,614	25,948	24,943	36,051	28,859
4-year .....	35,747	47,336	34,003	28,010	21,748	25,969	26,549	38,253	29,173
University .....	45,077	58,494	39,815	33,224	25,828	27,287	27,672	47,576	35,611
Other 4-year .....	31,153	40,060	31,270	25,878	20,993	23,716	25,963	32,997	27,031
2-year .....	21,692	26,800	24,082	21,460	18,387	16,566	20,827	22,712	20,791

NOTE.—Data exclude imputations for nonrespondent institutions

SOURCE: U.S. Department of Education, National Center for Education Statistics,

Faculty Salaries, Tenure, and Benefits, 1980-81, and Integrated Postsecondary Education Data System (IPEDS), "Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty" survey (This table was prepared May 1989)

Table 194.—Average salary of full-time instructional faculty on 9-month contracts in institutions of higher education, by type and control of institution and by State: 1987-88

State or other area	Average, all institutions	Public institutions			Private institutions		
		Total	4-year	2-year	Total	4-year	2-year
1	2	3	4	5	6	7	8
<b>United States</b>	<b>\$36,011</b>	<b>\$36,225</b>	<b>\$37,903</b>	<b>\$30,960</b>	<b>\$35,468</b>	<b>\$35,747</b>	<b>\$21,692</b>
Alabama	30,853	31,707	32,953	28,046	24,942	24,915	26,865
Alaska	41,045	41,649	40,617	43,608	33,311	33,311	—
Arizona	38,441	39,081	41,074	31,004	28,523	28,523	—
Arkansas	29,030	29,520	30,572	23,165	25,978	26,043	—
California	46,354	47,726	47,783	39,441	41,911	42,055	24,136
Colorado	34,528	34,452	36,397	26,174	35,139	35,139	—
Connecticut	41,460	42,073	44,374	35,428	40,724	40,907	23,655
Delaware	35,706	36,545	37,624	29,661	29,951	29,951	—
District of Columbia	39,080	36,743	36,743	—	39,578	39,578	—
Florida	34,571	35,313	37,552	31,006	32,020	32,121	21,980
Georgia	33,485	34,269	35,342	28,24	30,678	31,335	21,329
Hawaii	35,489	38,289	38,449	31,523	22,900	22,900	—
Idaho	30,825	31,300	31,846	27,308	25,966	25,966	—
Illinois	35,594	34,804	35,258	34,067	37,269	37,538	21,983
Indiana	33,990	33,891	35,748	22,753	34,259	34,277	23,628
Iowa	32,019	34,021	37,162	25,720	28,362	28,451	22,632
Kansas	29,957	31,485	32,885	27,594	21,573	22,135	17,151
Kentucky	30,315	31,632	32,950	25,083	25,564	25,925	18,715
Louisiana	30,463	29,691	29,963	25,636	34,227	34,227	—
Maine	31,836	31,531	32,900	24,710	32,552	32,627	24,664
Maryland	36,888	38,543	37,886	34,109	38,150	38,188	22,421
Massachusetts	40,428	38,630	42,187	30,331	41,581	42,128	24,007
Michigan	37,118	38,629	39,294	36,689	28,551	28,655	23,914
Minnesota	35,499	37,451	38,692	33,339	31,637	31,694	25,269
Mississippi	26,784	27,223	29,828	23,566	22,091	22,873	15,994
Missouri	32,385	32,728	31,260	30,748	31,571	31,737	18,034
Montana	28,943	29,507	23,648	25,679	23,782	23,782	—
Nebraska	29,736	30,364	31,619	24,106	27,661	27,820	20,975
Nevada	36,238	36,306	37,654	31,157	21,395	21,395	—
New Hampshire	34,950	33,600	35,124	25,593	36,769	37,157	13,618
New Jersey	40,424	40,451	42,919	34,731	40,364	40,364	—
New Mexico	31,211	31,367	33,100	24,863	26,677	26,677	—
New York	40,125	40,868	43,047	36,759	39,204	39,435	20,379
North Carolina	32,861	34,889	36,514	22,802	27,029	27,554	22,512
North Dakota	28,674	29,192	29,959	26,699	20,220	20,409	19,547
Ohio	36,252	38,210	40,235	30,052	31,287	31,299	19,676
Oklahoma	30,558	30,670	31,763	27,143	29,847	30,398	20,449
Oregon	31,620	31,933	33,981	29,289	30,216	30,216	—
Pennsylvania	38,252	36,536	37,233	32,393	35,924	36,316	21,808
Rhode Island	38,166	36,408	38,127	31,108	40,104	40,104	—
South Carolina	30,361	31,288	34,051	22,484	26,391	26,727	23,458
South Dakota	27,401	28,958	28,958	—	22,627	22,753	19,206
Tennessee	33,184	33,774	35,396	26,714	31,721	32,047	18,897
Texas	34,180	34,042	36,301	29,994	34,764	34,824	22,781
Utah	32,208	32,342	34,060	26,460	25,557	25,557	—
Vermont	32,149	34,878	35,520	27,525	29,945	31,077	22,235
Virginia	36,265	37,760	40,038	30,747	30,113	30,270	20,173
Washington	33,176	33,824	37,295	29,267	30,289	30,289	—
West Virginia	28,441	29,223	29,825	23,644	23,788	24,022	19,575
Wisconsin	35,225	35,040	37,780	32,506	31,241	31,241	—
Wyoming	32,819	32,819	37,053	27,889	—	—	—
U.S. Service Schools	42,494	42,494	42,494	—	—	—	—
Outlying areas	17,367	22,466	22,330	25,190	7,750	8,657	6,321
American Samoa	—	—	—	—	—	—	—
Guam	—	—	—	—	—	—	—
Northern Marianas	—	—	—	—	—	—	—
Puerto Rico	16,717	21,771	21,593	25,190	7,750	8,657	6,321
Trust Territory of the Pacific	—	—	—	—	—	—	—
Virgin Islands	33,500	33,500	33,500	—	—	—	—

— Data not reported or not applicable

NOTE—Data exclude imputations for nonrespondent institutions

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Salaries, Tenure, and fringe Benefits of Full-Time Instructional Faculty, 1987-88" survey (This table was prepared May 1989)



**Table 195.—Full-time instructional faculty with tenure for institutions reporting tenure status, by academic rank, sex, and type and control of institution: 1980-81, 1982-83, 1985-86, and 1987-88**

Academic year, type, and control of institution	Percent with tenure, by rank							Percent with tenure, by sex	
	All ranks	Professor	Associate professor	Assistant professor	Instructor	Lecturer	No academic rank	Men	Women
	2	3	4	5	6	7	8	9	10
<b>1980-81</b>									
All institutions	64.8	95.8	82.9	27.9	9.2	11.9	77.4	70.0	49.7
4-year	62.7	95.8	82.2	24.1	6.0	10.7	24.7	68.3	44.0
University	64.5	96.7	83.7	15.3	5.4	4.3	3.5	70.0	41.0
Other 4-year	61.3	94.9	81.2	29.7	7.1	17.8	32.4	67.0	45.5
2-year	74.5	95.6	89.2	58.9	19.8	34.8	81.1	78.8	66.8
Public institutions	68.0	96.6	85.9	32.5	11.8	14.3	79.4	72.8	54.0
4-year	65.7	96.6	85.3	27.6	8.7	12.8	12.2	71.1	47.5
University	66.0	96.9	86.5	16.8	6.1	4.9	4.5	71.3	42.8
Other 4-year	65.5	96.3	84.4	35.5	10.0	21.4	17.2	70.9	50.2
2-year	75.2	95.9	89.5	59.5	20.3	35.8	81.8	79.3	67.5
Private institutions	55.9	93.8	75.2	17.5	3.0	1.5	43.4	62.2	37.2
4-year	56.0	93.8	75.2	17.4	2.8	1.5	37.5	62.2	37.2
University	60.4	96.3	75.8	11.5	3.5	1.8	0.6	66.3	36.5
Other 4-year	53.6	92.0	74.9	20.2	2.6	1.2	43.4	59.8	37.4
2-year	49.5	84.7	77.3	35.2	8.8	0.0	52.2	57.3	39.5
<b>1982-83</b>									
All institutions	65.4	95.6	82.1	26.8	9.0	11.0	77.2	70.4	51.0
4-year	63.2	95.6	81.4	23.1	6.2	9.8	23.6	68.9	45.2
University	65.5	96.8	83.8	14.6	4.9	3.6	0.7	70.9	42.9
Other 4-year	61.6	94.4	79.8	28.4	6.7	16.3	32.7	67.3	46.4
2-year	75.0	95.3	83.9	58.4	19.9	32.3	81.2	78.9	68.2
Public institutions	68.9	96.1	85.5	31.3	11.3	13.3	79.2	73.6	55.7
4-year	66.7	96.5	84.9	27.0	7.9	11.9	11.1	72.0	49.0
University	67.5	97.2	87.0	16.5	5.5	4.3	0.9	72.7	45.0
Other 4-year	66.1	95.7	83.3	34.6	9.0	19.1	19.4	71.4	51.4
2-year	75.7	95.7	89.1	59.0	20.3	32.6	81.7	79.4	69.0
Private institutions	55.9	93.4	73.8	16.3	3.6	1.2	43.3	62.0	38.1
4-year	56.0	93.5	73.8	16.1	3.2	1.2	35.8	62.1	38.0
University	60.3	95.8	74.9	10.3	3.2	1.4	0.0	66.0	37.8
Other 4-year	53.7	91.9	73.2	18.8	3.2	0.9	40.9	59.8	38.1
2-year	49.9	78.9	77.2	35.6	13.7	0.0	56.7	55.8	42.2
<b>1985-86</b>									
All institutions	66.0	95.8	82.2	25.1	10.7	9.3	75.3	71.3	51.7
4-year	64.1	95.8	81.5	21.5	5.7	8.3	20.0	69.0	46.4
University	66.8	97.0	85.0	13.0	5.0	3.2	0.3	72.3	45.4
Other 4-year	62.2	94.8	79.2	26.6	6.0	13.0	27.0	68.1	46.8
2-year	75.1	95.1	88.5	56.4	27.3	28.6	80.4	79.1	68.5
Public institutions	68.9	96.5	85.4	29.1	13.4	10.9	77.2	73.9	55.6
4-year	66.9	96.6	84.9	24.4	7.3	9.7	11.1	72.5	49.3
University	68.1	97.1	87.8	14.0	5.8	3.4	0.3	73.5	46.4
Other 4-year	65.0	96.2	82.7	31.8	8.0	15.0	18.3	71.6	51.1
2-year	75.7	95.2	89.0	57.4	28.0	28.7	80.8	79.5	69.2
Private institutions	57.6	93.8	73.8	16.0	2.7	2.1	40.3	63.9	40.3
4-year	57.7	93.9	73.9	15.9	2.5	2.1	32.1	64.0	40.3
University	63.0	96.7	76.6	10.1	2.2	2.8	0.0	68.4	42.7
Other 4-year	55.1	92.0	72.6	18.3	2.5	1.0	34.6	61.6	39.5
2-year	48.4	89.9	83.6	24.9	9.3	0.0	57.5	56.1	39.3
<b>1987-88</b>									
All institutions	65.0	95.8	81.5	22.2	7.1	8.8	73.4	70.5	50.2
4-year	63.6	95.9	81.0	19.4	4.7	7.8	20.6	69.6	48.1
University	63.3	97.0	84.9	11.1	3.8	3.2	1.1	71.9	45.1
Other 4-year	61.7	94.9	78.4	24.3	4.9	11.7	33.3	67.8	46.6
2-year	74.0	94.1	87.1	54.1	18.4	32.9	79.9	78.1	67.5
Public institutions	67.4	96.2	84.2	25.8	8.8	10.3	75.4	72.8	53.4
4-year	65.9	96.4	83.8	22.0	5.8	9.1	11.7	71.7	48.3
University	67.5	97.2	87.6	12.0	4.3	3.1	0.8	73.2	45.8
Other 4-year	64.6	95.8	80.8	29.0	6.4	13.3	23.1	70.4	49.7
2-year	74.8	94.2	87.5	55.1	18.7	33.1	80.4	78.8	68.3
Private institutions	58.3	94.5	74.8	14.4	2.3	2.5	41.8	64.6	41.6
4-year	58.4	94.5	74.9	14.5	2.1	2.5	35.0	64.7	41.6
University	62.8	96.6	76.9	9.0	2.0	3.3	2.4	68.2	43.2
Other 4-year	56.1	93.0	73.9	16.3	2.2	1.3	43.3	62.5	41.0
2-year	49.3	91.0	83.3	30.0	10.0	0.0	57.3	57.4	40.7

NOTE.—Data exclude imputations for nonrespondent institutions. SOURCE: U.S. Department of Education, National Center for Education Statistics, *Faculty Salaries, Tenure, and Benefits*, and Integrated Postsecondary Education Data System (IPEDS), "Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty" survey (This table was prepared May 1989).

Table 196.—Institutions of higher education, by control and type of institution: 1949-50 to 1987-88

Year	All institutions			Publicly controlled			Privately controlled		
	Total	4-year	2-year	Total	4 year	2 year	Total	4-year	2-year
1	2	3	4	5	6	7	8	9	10
<b>Excluding branch campuses</b>									
1949-50	1,851	1,327	524	641	344	297	1,210	983	227
1950-51	1,852	1,312	540	636	341	295	1,216	971	245
1951-52	1,832	1,326	506	641	350	291	1,191	976	215
1952-53	1,882	1,355	527	639	349	290	1,243	1,006	237
1953-54	1,863	1,345	518	662	369	293	1,201	976	225
1954-55	1,849	1,333	516	648	353	295	1,201	980	221
1955-56	1,850	1,347	503	650	360	290	1,200	987	213
1956-57	1,878	1,355	523	656	359	297	1,222	996	226
1957-58	1,930	1,390	540	666	366	300	1,264	1,024	240
1958-59	1,947	1,394	553	673	366	307	1,274	1,028	246
1959-60	2,004	1,422	582	695	367	328	1,309	1,055	254
1960-61	2,021	1,431	590	700	368	332	1,321	1,063	258
1961-62	2,033	1,443	590	718	374	344	1,315	1,069	246
1962-63	2,093	1,468	625	740	376	364	1,353	1,092	261
1963-64	2,132	1,499	633	760	386	374	1,372	1,113	259
1964-65	2,175	1,521	654	799	393	406	1,376	1,128	248
1965-66	2,230	1,551	679	821	401	420	1,409	1,150	259
1966-67	2,329	1,577	752	880	403	477	1,449	1,174	275
1967-68	2,374	1,588	786	934	414	520	1,440	1,174	266
1968-69	2,483	1,619	864	1,011	417	594	1,472	1,202	270
1969-70	2,525	1,639	886	1,050	426	634	1,465	1,213	252
1970-71	2,556	1,665	891	1,059	435	654	1,467	1,230	237
1971-72	2,606	1,675	931	1,137	440	697	1,469	1,235	234
1972-73	2,665	1,701	964	1,182	449	733	1,483	1,252	231
1973-74	2,720	1,717	1,003	1,200	440	760	1,520	1,277	243
1974-75	2,747	1,744	1,003	1,214	447	767	1,533	1,297	236
1975-76	2,765	1,767	998	1,219	447	772	1,546	1,320	226
1976-77	2,785	1,783	1,002	1,231	452	779	1,554	1,331	223
1977-78	2,826	1,808	1,018	1,241	454	787	1,585	1,354	231
1978-79	2,954	1,843	1,111	1,308	463	845	1,646	1,380	266
1979-80	2,975	1,863	1,112	1,310	464	846	1,665	1,399	266
1980-81	3,056	1,861	1,195	1,334	465	869	1,722	1,396	326
1981-82	3,083	1,883	1,200	1,340	471	869	1,743	1,412	331
1982-83	3,111	1,887	1,224	1,336	472	864	1,775	1,415	360
1983-84	3,117	1,914	1,203	1,325	474	851	1,792	1,440	352
1984-85	3,146	1,911	1,235	1,329	461	868	1,817	1,450	367
1985-86	3,155	1,915	1,240	1,326	461	865	1,829	1,454	375
<b>Including branch campuses</b>									
1974-75	3,004	1,866	1,138	1,433	537	896	1,571	1,329	242
1975-76	3,026	1,898	1,128	1,442	545	897	1,584	1,353	231
1976-77	3,046	1,913	1,133	1,455	550	905	1,591	1,363	228
1977-78	3,095	1,938	1,157	1,473	552	921	1,622	1,386	236
1978-79	3,134	1,941	1,193	1,474	550	924	1,680	1,391	269
1979-80	3,152	1,957	1,195	1,475	549	926	1,677	1,408	269
1980-81	3,231	1,957	1,274	1,497	552	945	1,734	1,405	329
1981-82	3,253	1,979	1,274	1,498	558	940	1,755	1,421	334
1982-83	3,210	1,984	1,296	1,493	560	933	1,787	1,424	363
1983-84	3,284	2,013	1,271	1,481	565	916	1,803	1,448	355
1984-85	3,331	2,025	1,306	1,501	566	935	1,830	1,459	371
1985-86	3,340	2,029	1,311	1,498	566	932	1,842	1,463	379
1986-87	3,406	2,070	1,336	1,533	573	960	1,873	1,497	376
1987-88	3,587	2,135	1,452	1,591	599	992	1,996	1,536	460

<sup>1</sup> Large increases are due to the addition of schools accredited by the National Association of Trade and Technical Schools between 1979 and 1982.

<sup>2</sup> Because of revised survey procedures, data are not entirely comparable with figures for earlier years. The number of branch campuses reporting separately has increased.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Education Directory, Colleges and Universities*, "Fall Enrollment in Higher Education" and "Institutional Characteristics of Colleges and Universities" surveys, Integrated Postsecondary Education Data System, "Institutional Characteristics" survey. (This table was prepared November 1988.)

**Table 197.—Institutions of higher education and branches, by control of institution, highest level of offering, and sex of student body: 1985-86**

Highest level of offering and sex of student body	Total	Public					Private				
		Federal <sup>1</sup>	State	Local (city, county, or district)	State and local	State-related	Independent nonprofit	Organized as profit-making	Religious group		
									Protestant	Catholic	Other <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11	12
<b>All institutions</b>	<b>3,340</b>	<b>13</b>	<b>883</b>	<b>173</b>	<b>398</b>	<b>31</b>	<b>828</b>	<b>220</b>	<b>524</b>	<b>235</b>	<b>35</b>
Coeducational	3,126	13	881	173	398	31	726	218	505	168	13
Men only	99	0	1	0	0	0	47	0	3	30	18
Women only	102	0	1	0	0	0	48	2	14	34	3
Coordinate <sup>3</sup>	13	0	0	0	0	0	7	0	2	3	1
<b>Less than 4 years beyond high school</b>	<b>1,309</b>	<b>3</b>	<b>356</b>	<b>170</b>	<b>383</b>	<b>20</b>	<b>121</b>	<b>190</b>	<b>43</b>	<b>20</b>	<b>3</b>
Coeducational	1,282	3	356	170	383	20	107	188	40	13	2
Men only	6	0	0	0	0	0	4	0	0	2	0
Women only	20	0	0	0	0	0	9	2	3	5	1
Coordinate <sup>3</sup>	1	0	0	0	0	0	1	0	0	0	0
<b>4- or 5-year baccalaureate degree</b>	<b>707</b>	<b>5</b>	<b>73</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>242</b>	<b>19</b>	<b>286</b>	<b>70</b>	<b>4</b>
Coeducational	627	5	72	1	5	2	209	19	275	37	2
Men only	31	0	1	0	0	0	10	0	2	16	2
Women only	46	0	0	0	0	0	22	0	8	16	0
Coordinate <sup>3</sup>	3	0	0	0	0	0	1	0	1	1	0
<b>First-professional degree</b>	<b>93</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>67</b>	<b>2</b>	<b>11</b>	<b>2</b>	<b>2</b>
Coeducational	80	0	9	0	0	0	58	2	10	1	0
Men only	12	0	0	0	0	0	9	0	0	1	2
Women only	1	0	0	0	0	0	0	0	1	0	0
Coordinate <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0
<b>Master's degree</b>	<b>566</b>	<b>2</b>	<b>148</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>196</b>	<b>5</b>	<b>103</b>	<b>105</b>	<b>3</b>
Coeducational	525	2	148	1	0	3	181	5	100	82	3
Men only	12	0	0	0	0	0	4	0	0	8	0
Women only	24	0	0	0	0	0	9	0	2	13	0
Coordinate <sup>3</sup>	5	0	0	0	0	0	2	0	1	2	0
<b>Beyond master's but less than doctorate</b>	<b>153</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>13</b>	<b>9</b>	<b>2</b>
Coeducational	146	0	100	0	4	0	22	0	13	7	0
Men only	5	0	0	0	0	0	1	0	0	2	2
Women only	2	0	0	0	0	0	2	0	0	0	0
Coordinate <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0
<b>Doctorate</b>	<b>473</b>	<b>3</b>	<b>197</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>153</b>	<b>1</b>	<b>68</b>	<b>29</b>	<b>9</b>
Coeducational	462	3	196	1	0	6	148	1	67	28	6
Men only	4	0	0	0	0	0	0	0	1	1	2
Women only	3	0	1	0	0	0	2	0	0	0	0
Coordinate <sup>3</sup>	4	0	0	0	0	0	3	0	0	0	1
<b>Undergraduate nondegree-granting</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>
Coeducational	2	0	0	0	0	0	1	1	0	0	0
Men only	7	0	0	0	0	0	6	0	0	0	1
Women only	6	0	0	0	0	0	4	0	0	0	2
Coordinate <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0
<b>Graduate nondegree-granting</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>
Coeducational	0	0	0	0	0	0	0	0	0	0	0
Men only	22	0	0	0	0	0	13	0	0	0	9
Women only	0	0	0	0	0	0	0	0	0	0	0
Coordinate <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0

<sup>1</sup> Includes 10 U.S. Service Schools, Haskell Indian Junior College, Institute of American Indian Arts, and Oglala Sioux Community College

<sup>2</sup> Includes Jewish, Latter-Day Saints, Greek Orthodox, Russian Orthodox, and Unitarian

<sup>3</sup> Institutions with separate colleges for men and women

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Institutional Characteristics of Colleges and Universities, 1985-86" survey (This table was prepared September 1986)

**Table 198—Institutions of higher education and branches, by type, control of institution, and State: 1987-88**

State or other area	Total	All institutions		4-year institutions									
		Public	Private	All 4-year institutions			Universities		Other 4-year institutions		2-year institutions		
				Total	Public	Private	Public	Private	Public	Private	Total	Public	Private
		1	2	3	4	5	6	7	8	9	10	11	12
<b>United States . . . . .</b>	<b>3,587</b>	<b>1,591</b>	<b>1,996</b>	<b>2,135</b>	<b>599</b>	<b>1,536</b>	<b>94</b>	<b>62</b>	<b>505</b>	<b>1,474</b>	<b>1,452</b>	<b>992</b>	<b>460</b>
Alabama . . . . .	93	59	34	37	19	18	2	0	17	18	56	40	16
Alaska . . . . .	16	12	4	6	3	3	1	0	2	3	10	9	1
Arizona . . . . .	35	19	16	15	3	12	2	0	1	12	20	16	4
Arkansas . . . . .	38	20	18	20	10	10	1	0	9	10	18	10	8
California . . . . .	314	138	176	174	31	143	2	4	29	139	140	107	33
Colorado . . . . .	54	28	26	30	13	17	2	1	11	16	24	15	9
Connecticut . . . . .	49	24	25	28	7	21	1	1	6	20	21	17	4
Delaware . . . . .	10	5	5	7	2	5	1	0	1	5	3	3	0
District of Columbia . . . . .	18	2	16	18	2	16	0	5	2	11	0	0	0
Florida . . . . .	94	38	56	52	9	43	2	1	7	42	42	29	13
Georgia . . . . .	95	49	46	49	19	30	1	1	18	29	46	30	16
Hawaii . . . . .	14	9	5	8	3	5	1	0	2	5	6	6	0
Idaho . . . . .	11	6	5	7	4	3	1	0	3	3	4	2	2
Illinois . . . . .	166	59	107	103	12	91	3	4	9	87	63	47	16
Indiana . . . . .	78	29	49	52	14	38	4	1	10	37	26	15	11
Iowa . . . . .	65	23	42	39	3	36	2	1	1	35	26	20	6
Kansas . . . . .	54	29	25	29	8	21	3	0	5	21	25	21	4
Kentucky . . . . .	60	22	38	30	8	22	2	0	6	22	30	14	16
Louisiana . . . . .	34	20	14	24	14	10	1	2	13	8	10	6	4
Maine . . . . .	31	13	18	21	8	13	1	0	7	13	10	5	5
Maryland . . . . .	56	32	24	34	13	21	1	1	12	20	22	19	3
Massachusetts . . . . .	120	31	89	86	14	72	1	7	13	65	34	17	17
Michigan . . . . .	103	46	57	64	15	49	3	1	12	48	39	31	8
Minnesota . . . . .	77	33	44	43	10	33	1	0	9	33	34	23	11
Mississippi . . . . .	47	29	18	21	9	12	2	0	7	12	26	20	6
Missouri . . . . .	93	27	66	67	13	54	1	2	12	52	26	14	12
Montana . . . . .	18	12	6	9	6	3	2	0	4	3	9	6	3
Nebraska . . . . .	35	20	15	20	7	13	1	1	6	12	15	13	2
Nevada . . . . .	9	6	3	4	2	2	1	0	1	2	5	4	1
New Hampshire . . . . .	33	12	21	21	4	17	1	0	3	17	12	8	4
New Jersey . . . . .	63	32	31	40	14	26	1	2	13	24	23	18	5
New Mexico . . . . .	26	22	4	10	6	4	2	0	4	4	16	16	0
New York . . . . .	333	97	236	232	49	191	2	12	47	171	101	48	53
North Carolina . . . . .	127	75	52	53	17	36	2	2	15	34	74	58	16
North Dakota . . . . .	18	14	4	9	6	3	2	0	4	3	9	8	1
Ohio . . . . .	155	61	94	87	22	65	8	1	14	64	68	39	29
Oklahoma . . . . .	46	28	18	27	14	13	2	1	12	19	14	5	5
Oregon . . . . .	40	21	25	32	8	24	2	0	6	24	14	13	1
Pennsylvania . . . . .	218	64	154	149	43	106	3	4	40	102	69	21	48
Rhode Island . . . . .	12	3	9	11	2	9	1	0	1	9	1	2	0
South Carolina . . . . .	64	33	31	32	12	20	2	0	10	20	32	21	11
South Dakota . . . . .	19	7	12	16	7	9	2	0	5	9	3	0	3
Tennessee . . . . .	87	24	63	52	10	42	1	1	9	41	35	14	21
Texas . . . . .	171	106	65	97	40	57	4	4	34	53	74	66	8
Utah . . . . .	14	9	5	6	4	2	1	1	2	1	8	5	3
Vermont . . . . .	23	6	17	18	4	14	1	0	3	14	5	2	3
Virginia . . . . .	79	39	40	47	15	32	3	0	12	32	32	24	8
Washington . . . . .	54	33	21	25	6	19	2	0	4	19	29	27	2
West Virginia . . . . .	29	16	13	21	12	9	1	0	11	9	8	4	4
Wisconsin . . . . .	64	31	33	43	13	30	1	1	12	29	21	18	3
Wyoming . . . . .	9	8	1	1	1	0	1	0	0	0	8	7	1
<b>U.S. Service Schools . . . . .</b>	<b>10</b>	<b>10</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Outlying areas . . . . .</b>	<b>56</b>	<b>21</b>	<b>35</b>	<b>40</b>	<b>12</b>	<b>28</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>28</b>	<b>16</b>	<b>9</b>	<b>7</b>
American Samoa . . . . .	1	1	0	0	0	0	0	0	0	0	1	1	0
Guam . . . . .	2	2	0	1	1	0	0	0	1	0	1	1	0
Northern Marianas . . . . .	1	1	0	0	0	0	0	0	0	0	1	1	0
Puerto Rico . . . . .	48	13	35	37	9	28	1	0	8	28	11	4	7
Trust Territory of the Pacific . . . . .	2	2	0	0	0	0	0	0	0	0	2	2	0
Virgin Islands . . . . .	2	2	0	2	2	0	0	0	2	0	0	0	0

NOTE—Because of revised survey procedures, data are not entirely comparable with figures for earlier years. The number of branch campuses reporting separately has increased.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Institutional Characteristics, 1987-88" survey. (This table was prepared November 1988.)

**Table 199.—Institutions of higher education that have closed their doors, by control and type of institution: 1960-61 to 1985-86**

Year	All institutions			Publicly controlled			Privately controlled		
	Total	4-year	2-year	Total	4-year	2-year	Total	4-year	2-year
1	2	3	4	5	6	7	8	9	10
<b>Excluding branch campuses:</b>									
<b>Total, 1960-61 to 1985-86</b>	<b>272</b>	<b>137</b>	<b>135</b>	<b>37</b>	<b>1</b>	<b>36</b>	<b>235</b>	<b>136</b>	<b>99</b>
1960-61	8	1	7	1	—	1	7	1	6
1961-62	2	1	1	—	—	—	2	1	1
1962-63	—	—	—	—	—	—	—	—	—
1963-64	7	1	6	1	—	—	—	—	—
1964-65	8	1	7	4	—	1	6	1	5
1965-66	8	2	6	4	—	4	4	2	2
1966-67	9	2	7	3	—	3	6	2	4
1967-68	14	6	8	—	—	—	14	6	8
1968-69	21	11	10	1	—	1	20	11	9
1969-70	18	8	10	3	—	3	15	8	7
1970-71	32	9	23	9	—	9	23	9	14
1971-72	12	3	9	3	—	3	9	3	6
1972-73	19	12	7	2	—	—	17	12	5
1973-74	18	11	7	—	—	—	18	11	7
1974-75	17	13	4	3	—	3	14	13	1
1975-76	8	6	2	2	1	1	6	5	1
1976-77	8	5	3	—	—	—	8	5	3
1977-78	12	9	3	—	—	—	12	9	3
1978-79	9	4	5	—	—	—	9	4	5
1979-80	6	5	1	—	—	—	6	5	1
1980-81	4	3	1	—	—	—	4	3	1
1981-82	7	6	1	—	—	—	7	6	1
1982-83	7	4	3	—	—	—	7	4	3
1983-84	4	4	—	—	—	—	4	4	—
1984-85	4	4	—	—	—	—	4	4	—
1985-86	10	6	4	1	—	1	9	6	3
<b>Including branch campuses:</b>									
<b>Total, 1969-70 to 1985-86</b>	<b>216</b>	<b>123</b>	<b>93</b>	<b>32</b>	<b>4</b>	<b>28</b>	<b>184</b>	<b>119</b>	<b>65</b>
1969-70	24	10	14	5	1	4	19	9	10
1970-71	35	10	25	11	—	11	24	10	14
1971-72	14	5	9	3	—	3	11	5	6
1972-73	21	12	9	4	—	4	17	12	5
1973-74	20	12	8	1	—	1	19	12	7
1974-75	18	13	5	4	—	4	14	13	1
1975-76	9	7	2	2	1	1	7	6	1
1976-77	9	6	3	—	—	—	9	6	3
1977-78	12	9	3	—	—	—	12	9	3
1978-79	9	4	5	—	—	—	9	4	5
1979-80	6	5	1	—	—	—	6	5	1
1980-81	4	3	1	—	—	—	4	3	1
1981-82	7	6	1	—	—	—	7	6	1
1982-83	7	4	3	—	—	—	7	4	3
1983-84	5	5	—	1	1	—	4	4	—
1984-85	4	4	—	—	—	—	4	4	—
1985-86	12	8	4	1	1	0	11	7	4

—Data not applicable or not available

NOTE—This table indicates the last academic year in which the institution operated

SOURCE U.S. Department of Education, National Center for Education Statistics, *Education Directory, Higher Education, 1960-61 to 1974-75*; *Education Directory, Col-*

*leges and Universities, 1975-76 to 1983-84*; *1982-83 Supplement to the Education Directory, Colleges and Universities*, and Integrated Postsecondary Education Data System, "Institutional Characteristics" survey, 1987, unpublished data (This table was prepared October 1987)

**Table 200.—Earned degrees conferred by institutions of higher education, by level of degree and sex of student: 1969-70 to 1994-95**

Year	Associate degrees			Bachelor's degrees			Master's degrees			First-professional degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1969-70	—	—	—	19,371	17,993	11,378	0	0	0	(?)	(?)	(?)	1	1	0
1979-80	—	—	—	12,896	10,411	2,485	879	868	11	(?)	(?)	(?)	54	51	3
1989-90	—	—	—	15,539	12,857	2,682	1,015	821	194	(?)	(?)	(?)	149	147	2
1989-1900	—	—	—	27,410	22,173	5,237	1,583	1,280	303	(?)	(?)	(?)	382	359	23
1909-10	—	—	—	37,199	28,762	8,437	2,113	1,555	558	(?)	(?)	(?)	443	399	44
1919-20	—	—	—	48,622	31,980	18,642	4,279	2,985	1,294	(?)	(?)	(?)	615	522	93
1929-30	—	—	—	122,484	73,615	48,869	14,969	8,925	6,044	(?)	(?)	(?)	2,299	1,946	353
1939-40	—	—	—	186,500	109,546	78,954	26,731	16,508	10,223	(?)	(?)	(?)	3,290	2,881	409
1949-50	—	—	—	432,058	328,841	103,217	58,183	41,220	16,963	(?)	(?)	(?)	6,420	5,004	618
1959-60	—	—	—	392,440	254,063	127,377	74,415	50,898	23,537	(?)	(?)	(?)	9,829	8,001	1,028
1960-61	—	—	—	369,995	228,500	141,495	81,690	55,267	26,423	25,253	24,577	676	10,575	9,463	1,112
1961-62	—	—	—	388,680	234,871	154,009	88,414	59,710	28,704	25,607	24,836	771	11,622	10,377	1,245
1962-63	—	—	—	418,928	248,129	170,799	95,470	64,198	31,272	26,590	25,753	837	12,822	11,448	1,374
1963-64	—	—	—	466,944	270,319	196,825	105,551	70,339	35,212	27,209	26,357	852	14,490	12,955	1,535
1964-65	—	—	—	501,713	289,003	212,710	117,152	77,544	39,608	28,290	27,283	1,007	16,467	14,892	1,775
1965-66	111,607	63,779	47,828	520,923	299,871	221,052	140,548	93,063	47,485	30,124	27,982	1,142	18,237	18,121	2,118
1966-67	139,183	78,358	60,827	558,852	322,948	235,904	157,707	103,092	54,615	31,695	30,401	1,294	20,617	18,193	2,454
1967-68	159,441	90,317	89,124	632,758	358,105	274,853	176,749	113,519	63,230	33,939	32,402	1,537	23,089	20,183	2,906
1968-69	183,279	105,861	77,618	729,071	410,785	318,286	193,758	121,531	72,225	35,114	33,595	1,519	26,188	22,752	3,438
1969-70	206,023	117,432	88,591	792,656	451,380	341,276	208,291	125,824	82,667	34,578	32,794	1,784	29,866	25,890	3,978
1970-71	252,810	144,395	108,215	639,730	475,594	364,136	230,509	138,148	92,363	37,946	35,544	2,402	32,107	27,530	4,577
1971-72	292,119	166,317	125,802	887,273	500,590	386,683	251,633	149,550	102,083	43,411	40,723	2,688	33,383	28,090	5,273
1972-73	318,174	175,413	140,781	922,362	518,191	404,171	263,371	154,468	108,903	50,018	48,489	3,529	34,777	28,571	8,206
1973-74	349,924	188,591	155,333	945,776	527,313	418,483	277,033	157,842	119,191	53,818	48,530	5,286	33,818	27,365	8,451
1974-75	500,171	191,017	189,154	922,933	504,841	418,092	292,450	161,570	130,880	55,916	48,956	8,960	34,083	28,817	7,266
1975-76	391,454	209,896	181,458	925,746	504,925	420,821	311,771	187,248	144,523	82,649	52,892	9,757	34,064	28,267	7,797
1976-77	406,377	210,842	195,535	919,549	495,545	424,004	317,164	187,783	149,381	64,359	52,374	11,985	33,232	25,142	8,090
1977-78	412,246	204,718	207,528	921,204	487,347	433,857	311,820	161,212	150,408	66,581	52,270	14,311	32,131	23,658	8,473
1978-79	402,702	192,091	210,811	921,390	477,344	444,048	301,079	153,370	147,709	68,848	52,652	18,196	32,730	23,541	9,189
1979-80	400,910	183,737	217,173	921,417	473,811	455,806	298,081	150,749	147,332	70,131	52,716	17,415	32,815	22,943	9,872
1980-81	418,377	188,638	227,739	935,140	469,883	485,257	295,739	147,043	147,896	71,956	52,792	19,164	32,958	22,711	10,247
1981-82	434,515	196,939	237,578	952,998	473,364	479,834	295,546	145,532	150,014	72,032	52,223	19,809	32,707	22,224	10,483
1982-83	458,441	207,141	249,300	969,510	479,140	490,370	289,921	144,697	145,224	73,138	51,310	21,826	32,775	21,902	10,873
1983-84	452,418	202,762	249,854	974,309	482,319	491,980	284,263	143,595	140,668	74,407	51,334	23,073	33,209	22,064	11,145
1984-85	454,712	202,932	251,780	979,477	482,728	496,949	286,251	143,390	142,861	75,063	50,455	24,608	32,943	21,700	11,243
1985-86	448,047	196,166	249,881	987,823	485,923	501,900	288,567	143,508	145,059	73,910	49,261	24,649	33,653	21,819	11,834
1986-87 <sup>1</sup>	437,137	191,525	245,612	991,339	480,854	510,485	289,557	141,363	148,194	72,750	47,460	25,290	34,120	22,099	12,021
1987-88 <sup>2</sup>	430,000	188,000	242,000	989,000	472,000	517,000	292,000	142,000	150,000	72,000	48,000	25,000	34,000	22,000	12,000
1988-89 <sup>3</sup>	439,000	192,000	247,000	994,000	473,000	521,000	293,000	137,000	156,000	72,000	46,000	26,000	34,200	21,600	12,600
1989-90 <sup>4</sup>	448,000	195,000	253,000	1,006,000	475,000	530,000	301,000	143,000	158,000	72,000	46,000	26,000	34,400	21,500	12,900
1990-91 <sup>5</sup>	458,000	196,000	260,000	995,000	463,000	532,000	300,000	142,000	158,000	72,000	46,000	27,000	34,500	21,300	13,200
1991-92 <sup>6</sup>	457,000	194,000	263,000	1,011,000	468,000	543,000	302,000	143,000	159,000	72,000	45,000	27,000	34,600	20,900	13,700
1992-93 <sup>7</sup>	452,000	192,000	260,000	1,016,000	468,000	548,000	301,000	143,000	158,000	73,000	46,000	27,000	34,700	20,500	14,200
1993-94 <sup>8</sup>	447,000	191,000	255,000	1,006,000	464,000	542,000	299,000	142,000	157,000	72,000	44,000	28,000	34,800	20,100	14,700
1994-95 <sup>9</sup>	444,000	191,000	252,000	990,000	456,000	534,000	296,000	140,000	155,000	71,000	43,000	28,000	34,900	19,700	15,200

<sup>1</sup> Includes first-professional degrees

<sup>2</sup> First-professional degrees are included with bachelor's degrees

<sup>3</sup> Preliminary data

<sup>4</sup> Estimated

<sup>5</sup> Projected

—Data not available

NOTE—Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Earned Degrees Conferred, Projections of Education Statistics to 2007*, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989.)

**Table 201.—Earned degrees conferred by institutions of higher education, by level of degree and by State:  
1985-86 and 1986-87**

State or other area	1985-86					1986-87 <sup>1</sup>				
	Associate degrees	Bachelor's degrees	First-professional degrees	Master's degrees	Doctor's degrees (Ph D., Ed D., etc.)	Associate degrees	Bachelor's degrees	First-professional degrees	Master's degrees	Doctor's degrees (Ph D., Ed D., etc.)
1	2	3	4	5	6	7	8	9	10	11
<b>United States</b> . . . . .	<b>446,047</b>	<b>987,823</b>	<b>73,910</b>	<b>288,567</b>	<b>33,653</b>	<b>437,137</b>	<b>991,339</b>	<b>72,750</b>	<b>289,557</b>	<b>34,120</b>
Alabama . . . . .	6,107	16,068	842	4,096	270	6,183	15,981	797	3,946	279
Alaska . . . . .	586	786	—	300	12	742	898	—	320	7
Arizona . . . . .	6,657	11,987	349	4,868	458	5,911	12,287	352	4,819	506
Arkansas . . . . .	1,990	7,283	379	1,717	137	2,263	7,036	319	1,883	112
California . . . . .	47,467	88,615	8,196	31,121	4,140	46,483	90,005	8,097	31,297	4,147
Colorado . . . . .	5,282	15,095	904	4,117	588	5,756	15,218	853	4,088	636
Connecticut . . . . .	5,268	14,017	931	6,301	462	4,842	13,499	947	5,755	533
Delaware . . . . .	989	3,198	—	568	100	1,153	3,246	245	586	96
District of Columbia . . . . .	461	6,875	2,643	5,284	556	369	6,711	2,681	5,062	475
Florida . . . . .	33,401	32,056	1,878	9,112	1,030	29,524	31,430	2,105	9,044	1,109
Georgia . . . . .	6,521	18,734	2,083	6,099	666	6,732	19,103	1,990	5,652	654
Hawaii . . . . .	2,353	3,385	131	911	132	2,350	3,701	137	925	145
Idaho . . . . .	2,291	3,086	82	644	42	2,297	3,035	68	722	47
Illinois . . . . .	24,537	47,127	4,552	17,208	2,007	23,913	47,387	4,429	17,075	2,062
Indiana . . . . .	8,723	26,627	1,476	6,610	974	8,681	26,623	1,518	6,943	967
Iowa . . . . .	7,076	15,844	1,661	2,890	537	7,233	16,450	1,315	2,775	608
Kansas . . . . .	5,012	12,016	665	3,048	351	5,374	11,714	655	2,986	389
Kentucky . . . . .	5,713	11,773	1,168	3,473	248	5,196	11,708	1,144	3,261	281
Louisiana . . . . .	2,650	16,535	1,521	4,109	290	2,603	16,221	1,392	3,972	301
Maine . . . . .	2,084	5,178	170	534	29	2,030	5,122	183	503	25
Maryland . . . . .	7,038	16,617	1,124	5,165	663	7,129	16,760	968	5,334	690
Massachusetts . . . . .	14,552	40,383	3,557	14,686	1,912	13,617	41,555	3,732	15,377	1,908
Michigan . . . . .	21,384	37,468	2,897	11,468	1,289	21,834	38,181	2,504	11,534	1,321
Minnesota . . . . .	6,443	20,229	1,580	3,463	577	7,654	20,667	1,529	3,607	529
Mississippi . . . . .	4,316	8,911	491	2,288	268	4,332	9,173	461	2,037	212
Missouri . . . . .	6,844	23,600	2,470	7,806	579	6,545	23,541	2,287	7,670	541
Montana . . . . .	663	4,356	66	740	60	734	4,140	74	765	49
Nebraska . . . . .	2,805	8,331	755	1,634	210	2,918	8,410	752	1,609	215
Nevada . . . . .	936	1,943	75	431	28	884	1,929	42	419	32
New Hampshire . . . . .	2,491	6,558	167	1,399	57	2,372	6,770	173	1,649	78
New Jersey . . . . .	9,869	23,450	1,690	6,303	735	9,534	23,328	1,753	6,454	670
New Mexico . . . . .	1,779	4,690	191	1,734	209	1,766	4,548	170	1,732	206
New York . . . . .	49,694	87,178	6,746	31,554	3,410	47,956	86,651	6,962	32,890	3,366
North Carolina . . . . .	10,854	25,125	1,573	5,665	753	10,659	24,919	1,620	5,678	788
North Dakota . . . . .	1,941	4,263	134	534	67	1,980	4,209	117	587	76
Ohio . . . . .	18,351	43,122	3,565	12,118	1,450	17,850	43,983	3,341	12,185	1,612
Oklahoma . . . . .	5,607	13,498	1,022	3,800	412	5,338	13,545	999	3,935	342
Oregon . . . . .	4,872	10,938	938	2,649	433	4,673	10,922	899	2,784	349
Pennsylvania . . . . .	18,798	56,669	3,980	13,217	1,832	18,586	57,158	3,730	13,501	1,802
Rhode Island . . . . .	3,642	7,809	78	1,573	183	3,822	7,737	78	1,720	212
South Carolina . . . . .	5,114	12,814	690	3,098	258	4,766	12,551	738	3,269	266
South Dakota . . . . .	1,081	3,979	134	745	60	793	3,738	140	719	65
Tennessee . . . . .	5,937	17,312	1,368	3,988	606	5,566	17,328	1,344	4,000	576
Texas . . . . .	20,865	57,263	4,557	17,702	1,978	20,816	57,438	4,456	17,174	2,079
Utah . . . . .	3,011	10,670	361	2,288	371	3,151	11,085	365	2,403	361
Vermont . . . . .	1,179	3,999	206	865	53	1,128	4,080	193	839	41
Virginia . . . . .	6,801	24,391	1,666	5,468	689	7,037	24,010	1,643	5,589	693
Washington . . . . .	11,841	17,331	908	4,370	527	12,278	17,767	901	4,066	599
West Virginia . . . . .	2,791	7,862	319	1,820	113	2,563	7,518	329	1,751	110
Wisconsin . . . . .	8,921	24,531	950	5,355	747	8,723	25,322	1,030	5,393	795
Wyoming . . . . .	1,313	1,657	69	380	75	1,309	1,625	59	345	68
<b>U.S. Service Schools</b> . . . . .	<b>9,246</b>	<b>3,69*</b>	<b>153</b>	<b>1,251</b>	<b>20</b>	<b>9,184</b>	<b>3,363</b>	<b>154</b>	<b>1,228</b>	<b>26</b>
<b>Outlying areas</b> . . . . .	<b>5,211</b>	<b>12,381</b>	<b>671</b>	<b>1,262</b>	<b>24</b>	<b>4,690</b>	<b>12,268</b>	<b>503</b>	<b>1,183</b>	<b>185</b>
American Samoa . . . . .	84	—	—	—	—	84	—	—	—	—
Guam . . . . .	66	175	—	37	—	67	171	—	30	—
Northern Marianas . . . . .	27	—	—	—	—	15	—	—	—	—
Puerto Rico . . . . .	4,925	12,108	671	1,200	24	4,350	11,952	503	1,120	185
Trust Territory of the Pacific . . . . .	47	—	—	—	—	92	—	—	—	—
Virgin Islands . . . . .	62	98	—	25	—	82	145	—	33	—

<sup>1</sup> Preliminary data

\* Data not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" survey, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1987).

Table 202.—1- to 4-year awards and associate degrees, by field of study: 1982-83 to 1986-87<sup>1</sup>

Field of study	1- to 4-year awards					Associate degrees				
	1982-83	1983-84	1984-85	1985-86	1986-87	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11
<b>Total</b> .....	<b>120,024</b>	<b>124,833</b>	<b>123,680</b>	<b>120,380</b>	<b>109,613</b>	<b>456,441</b>	<b>452,416</b>	<b>454,712</b>	<b>446,047</b>	<b>437,137</b>
Agriculture and natural resources, total..	3,398	2,970	2,969	2,891	1,640	7,760	6,879	6,554	5,741	5,428
Agricultural business and agricultural production.....	2,382	2,150	2,216	2,087	1,389	4,779	4,395	4,175	3,651	3,655
Agricultural science.....	821	614	583	591	107	1,506	1,367	1,393	1,096	806
Renewable natural resources.....	195	206	170	213	144	1,475	1,117	986	994	967
Architecture and environmental design.....	293	400	411	550	593	1,699	1,495	1,490	1,432	1,662
Area and ethnic studies.....	3	15	20	64	208	23	30	32	33	19
Business and management.....	33,294	37,106	39,014	38,716	34,886	120,236	120,034	120,731	117,358	115,197
Accounting.....	814	799	680	746	776	6,148	6,128	5,527	5,094	5,253
Business and management, general.....	829	668	685	642	836	13,956	13,934	12,887	12,163	12,363
Business administration and management.....	715	609	682	825	723	19,717	18,683	19,530	16,988	20,401
Business and management, other.....	6,144	7,783	6,579	5,984	1,993	11,711	11,424	11,307	11,268	11,351
Business data processing.....	4,005	4,768	4,363	4,179	3,213	16,307	18,709	18,835	15,926	13,294
Secretarial and related programs.....	12,202	13,354	15,160	15,130	14,015	20,830	21,070	21,845	21,095	20,019
Business and office, other.....	2,589	2,409	3,408	3,475	3,881	15,079	14,082	14,378	15,373	14,877
Marketing and distribution.....	2,617	2,690	2,736	3,144	4,552	15,622	15,214	15,624	16,553	16,938
Consumer and personal services.....	3,379	4,026	4,721	4,589	4,837	868	790	798	898	701
Communications.....	135	115	154	119	481	2,049	1,881	1,846	2,055	1,590
Communications technologies.....	289	216	232	314	283	1,821	1,871	2,270	1,929	1,947
Computer and information sciences.....	1,960	2,327	2,453	1,889	1,977	10,065	12,824	12,677	10,704	9,098
Education.....	407	532	561	573	661	7,653	7,652	7,580	7,391	7,309
Engineering.....	121	521	233	485	113	3,699	4,459	3,881	5,256	4,518
Engineering technologies.....	34,146	32,353	31,212	28,419	28,297	58,898	57,735	59,951	58,083	58,191
Mechanics and repairers.....	14,657	14,811	14,795	13,418	12,308	9,177	9,253	8,666	10,996	11,023
Construction trades.....	5,808	4,062	3,499	3,289	3,204	2,407	2,179	2,341	2,131	2,082
Engineering technologies, other.....	13,881	13,480	12,918	11,712	12,785	47,314	46,303	48,944	44,956	45,086
Foreign languages.....	39	38	39	63	13	355	326	368	437	426
Health sciences.....	25,880	28,376	27,220	25,789	22,310	66,448	68,270	68,453	66,559	62,545
Dental assisting.....	2,958	3,037	2,912	2,623	2,595	4,560	4,389	4,160	4,051	4,017
Emergency medical technician—ambulance.....	500	718	573	721	668	500	139	74	88	63
Emergency medical technician—paramedic.....	550	579	596	546	454	201	186	211	267	307
Medical lab technician.....	105	85	33	110	64	2,712	3,037	2,788	2,609	2,205
Medical assisting.....	1,495	1,851	1,786	1,653	2,094	1,835	1,932	2,196	2,004	1,881
Nursing assisting.....	1,541	2,972	3,067	3,096	1,200	97	140	133	33	24
Practical nursing.....	12,555	12,910	12,322	10,570	8,748	1,622	1,389	1,252	391	607
Nursing, general.....	471	466	581	674	745	37,395	40,114	40,334	46,610	37,613
Health sciences, other.....	5,705	5,758	5,350	5,796	5,742	17,526	16,944	17,305	17,906	15,828
Home economics.....	3,962	3,991	3,762	4,099	3,603	9,369	9,247	9,611	9,469	9,311
Law.....	452	632	781	819	755	1,742	1,813	2,060	2,259	2,501
Letters.....	16	188	54	226	14	638	630	617	548	508
Liberal/general studies.....	683	1,273	1,343	1,754	907	109,619	108,019	106,396	107,672	108,207
Library and archival sciences.....	83	69	89	66	63	218	155	128	126	117
Life sciences.....	118	88	82	81	6	1,109	1,209	1,121	998	907
Mathematics.....	2	28	18	99	19	809	783	789	602	607
Military sciences.....	0	0	11	970	959	88	87	23	30	50
Multi-/interdisciplinary studies.....	117	121	139	134	36	10,339	8,218	8,525	9,586	9,796
Parks and recreation.....	120	61	113	147	99	1,022	731	728	634	556
Philosophy and religion.....	49	12	65	161	80	193	144	138	114	100
Theology.....	639	677	724	559	460	677	712	701	705	578
Physical sciences.....	79	86	101	120	107	3,142	2,877	2,193	2,107	2,059
Science technologies.....	77	71	73	101	99	1,438	1,369	1,138	1,054	934
Physical sciences, other.....	2	15	28	19	8	1,704	1,508	1,055	1,053	1,125
Psychology.....	20	54	38	54	53	1,031	1,088	983	939	1,011
Protective services.....	1,692	1,661	1,832	2,066	2,141	13,163	11,983	12,305	12,096	11,960
Criminal justice administration and studies.....	394	444	444	510	597	5,996	5,666	5,533	5,579	5,803
Law enforcement and security services.....	561	641	870	1,019	502	4,074	4,019	4,211	4,167	3,860
Fire control and safety.....	235	380	373	394	380	2,150	1,671	1,724	1,666	1,449
Protective services, other.....	502	196	145	13	662	943	627	837	684	848
Public affairs.....	937	906	1,069	614	548	4,344	4,027	3,675	3,649	3,553
Transportation and material moving.....	634	558	734	296	277	1,620	1,601	1,561	1,338	1,284
Public affairs, other.....	303	348	335	318	271	2,724	2,426	2,114	2,311	2,269
Social sciences.....	42	8	15	179	127	2,958	2,734	2,587	2,540	2,620
Visual and performing arts.....	11,048	9,811	8,926	8,380	7,962	15,284	14,503	13,742	13,961	14,560
Fine arts, general.....	50	57	75	69	47	1,422	1,074	1,033	924	1,011
Graphic arts technician.....	187	181	215	237	193	2,131	1,972	1,686	1,855	721
Precision production.....	10,257	8,967	8,199	7,609	7,333	8,691	9,166	8,711	9,104	9,204
Visual and performing arts, other.....	554	606	436	465	389	3,040	2,291	2,312	2,078	3,624
Undistributed.....	0	0	0	0	232	0	0	2,537	1,034	146

<sup>1</sup> 1986-87 are preliminary data.

"Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)

SOURCE U.S. Department of Education, National Center for Education Statistics.



**Table 203.—Associate degrees and other subbaccalaureate awards,<sup>1</sup> by length of curriculum, sex of student and field of study: 1986-87**

Field of study	Less than 1-year awards			1- to 4-year awards			Associate degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
<b>Total</b>	<b>43,933</b>	<b>21,253</b>	<b>22,680</b>	<b>109,613</b>	<b>48,598</b>	<b>61,015</b>	<b>437,137</b>	<b>191,525</b>	<b>245,612</b>
Agriculture and natural resources, total	1,612	1,248	364	1,640	1,148	492	5,428	3,663	1,765
Agricultural business and agricultural production	1,392	1,076	306	1,389	971	418	3,655	2,473	1,182
Agricultural science	167	154	53	107	65	42	806	372	434
Renewable natural resources	43	38	5	144	112	32	967	818	149
Architecture and environmental design	5	0	5	583	61	532	1,662	228	1,434
Area and ethnic studies	39	12	27	208	9	199	19	8	11
Business and management	11,730	2,604	9,126	34,886	5,244	29,642	115,197	36,906	78,291
Accounting	93	20	73	776	181	595	5,253	1,438	3,815
Business and management, general	553	214	339	836	285	551	12,363	4,882	7,481
Business administration and management	483	260	203	723	272	451	20,401	8,859	11,542
Business and management, other	1,499	720	779	1,993	814	1,179	11,351	5,957	5,394
Business data processing	1,544	486	1,058	3,213	985	2,228	13,294	5,859	7,435
Secretarial and related programs	3,861	103	3,758	14,015	301	13,714	20,019	255	19,764
Business and office, other	1,220	248	372	3,881	708	3,173	14,877	4,243	10,634
Marketing and distribution	1,747	449	1,298	4,552	986	3,566	16,938	5,007	11,931
Consumer and personal services	750	104	646	4,897	712	4,185	701	406	295
Communications	249	177	72	461	313	148	1,590	893	697
Communications technologies	31	21	10	283	157	126	1,947	1,166	779
Computer and information sciences	897	467	430	1,977	854	1,123	9,096	4,780	4,318
Education	125	16	109	661	99	562	7,309	2,101	5,208
Engineering	51	46	5	113	87	26	4,518	4,042	476
Engineering technologies	6,561	6,086	475	28,297	26,446	1,851	58,191	53,055	5,136
Mechanics and repairers	3,550	3,304	246	12,308	11,699	609	11,023	10,439	584
Construction trades	969	840	29	3,204	3,043	161	2,082	2,007	75
Engineering technologies, other	2,042	1,842	200	12,785	11,704	1,081	45,086	40,609	4,477
Foreign languages	45	18	27	13	2	11	426	231	195
Health sciences	11,406	3,025	8,381	22,310	3,045	19,265	62,545	7,217	55,328
Dental assisting	40	2	38	2,595	95	2,500	4,017	316	3,701
Emergency medical technician-ambulance	1,963	1,396	567	688	446	222	63	50	13
Emergency medical technician-paramedic	802	402	200	454	339	115	307	213	94
Medical lab technician	61	2	59	64	9	55	2,205	417	1,788
Medical assisting	279	7	272	2,094	48	2,046	1,881	36	1,845
Nursing assisting	4,820	455	4,465	1,200	272	928	24	10	14
Practical nursing	444	34	410	8,748	495	8,253	607	38	569
Nursing, general	16	0	16	745	53	692	37,613	2,602	35,011
Health sciences, other	3,081	727	2,354	5,742	1,288	4,454	15,828	3,535	12,293
Home economics	1,419	479	940	3,603	772	2,831	9,311	2,738	6,573
Law	472	59	413	755	115	640	2,501	288	2,213
Letters	52	16	36	14	10	4	508	159	349
Liberal/general studies	650	180	470	907	417	490	108,207	46,389	61,818
Library and archival sciences	23	0	23	63	3	60	117	19	98
Life sciences	223	182	41	6	0	6	907	403	504
Mathematics	5	2	3	19	16	3	667	419	248
Military sciences	0	0	0	959	938	21	50	48	-
Multi/interdisciplinary studies	10	2	8	36	24	12	9,796	4,563	5,233
Parks and recreation	5	2	3	99	48	51	556	282	274
Philosophy and religion	2	0	2	80	56	24	100	64	36
Theology	151	76	75	460	225	235	578	338	240
Physical sciences	13	9	4	107	75	32	2,059	1,252	807
Science technologies	10	8	2	99	70	29	834	563	371
Physical sciences, other	3	1	2	8	5	3	1,125	689	436
Psychology	4	3	1	53	13	40	1,011	291	720
Protective services	3,685	2,978	707	2,141	1,661	480	11,960	8,757	3,203
Criminal justice administration and studies	1,145	931	214	597	421	176	5,803	3,976	1,827
Law enforcement and security services	792	679	113	502	428	74	3,860	2,877	983
Fire control and safety	469	432	37	380	363	17	1,449	1,390	59
Protective services, other	1,279	836	343	662	449	213	848	514	334
Public affairs	2,377	2,018	359	548	280	268	3,553	1,540	2,013
Transportation and material moving	2,304	1,988	316	277	216	61	1,284	1,062	222
Public affairs, other	73	30	43	271	64	207	2,269	478	1,791
Social sciences	35	25	10	127	34	93	2,620	1,111	1,509
Visual and performing arts	1,805	1,430	375	7,962	6,376	1,586	4,560	8,455	6,105
Fine arts, general	4	1	3	47	23	24	1,011	358	653
Graphic arts technician	0	0	0	193	98	95	721	267	454
Precision production	1,680	1,422	258	7,333	6,089	1,244	9,204	6,417	2,787
Visual and performing arts, other	121	7	114	389	166	223	3,624	1,413	2,211
Undistributed	251	72	179	232	70	162	146	117	29

<sup>1</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)

Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph D., Ed D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
<b>All fields..</b>	<b>991,339</b>	<b>480,854</b>	<b>510,485</b>	<b>289,557</b>	<b>141,363</b>	<b>148,194</b>	<b>34,120</b>	<b>22,099</b>	<b>12,021</b>
<b>Agriculture and natural resources, total</b>	<b>14,991</b>	<b>10,314</b>	<b>4,677</b>	<b>3,523</b>	<b>2,461</b>	<b>1,062</b>	<b>1,049</b>	<b>871</b>	<b>178</b>
Agricultural business and agricultural production, total	5,338	4,071	1,267	732	564	168	181	151	30
Agricultural business and management, total	3,916	3,053	863	535	414	121	138	115	23
Agricultural business and management, general	425	311	114	51	37	14	4	4	0
Agricultural business	1,361	1,076	285	24	21	3	0	0	0
Agricultural economics	1,978	1,532	446	453	349	104	134	111	23
Agricultural business and management, other	152	134	18	7	7	0	0	0	0
Agricultural mechanics	279	276	3	13	12	1	0	0	0
Agricultural production	142	116	26	66	59	7	16	14	2
Horticulture	415	268	147	49	32	17	12	10	2
International agriculture	26	16	10	13	10	3	0	0	0
Agricultural business and agricultural production, other	560	342	218	56	37	19	15	12	3
Agricultural sciences, total	6,834	4,216	2,618	1,841	1,216	625	680	549	131
Agricultural sciences, general	1,185	829	356	216	154	62	1	1	0
Animal sciences, total	3,181	1,751	1,430	583	364	219	196	160	36
Animal sciences, general	2,718	1,455	1,263	435	269	166	139	113	26
Animal breeding and genetics	0	0	0	9	5	4	3	3	0
Animal health	16	8	8	13	4	9	2	2	0
Animal nutrition	0	0	0	10	5	5	10	6	4
Dairy	197	137	60	53	42	11	14	12	2
Fisheries science	0	0	0	0	0	0	0	0	0
Poultry	98	75	23	21	13	8	11	8	3
Animal sciences, other	152	76	76	42	26	16	17	16	1
Food sciences	489	230	259	247	121	126	110	73	37
Plant sciences, total	1,732	1,243	489	652	475	177	297	251	46
Plant sciences, general	226	161	65	63	45	18	17	15	2
Agronomy	739	609	130	348	274	74	182	161	21
Horticulture science	624	363	261	158	100	58	69	49	20
Ornamental horticulture	0	0	0	0	0	0	0	0	0
Plant breeding and genetics	0	0	0	0	0	0	0	0	0
Plant pathology (applied)	0	0	0	0	0	0	0	0	0
Plant protection (pest management)	36	28	8	24	15	9	1	1	0
Range management	88	65	23	55	38	17	27	24	3
Plant sciences, other	19	17	2	4	3	1	1	1	0
Soil sciences	140	99	41	116	84	32	67	59	8
Agricultural sciences, other	107	64	43	27	18	9	9	5	4
Renewable natural resources, total	2,819	2,027	792	950	681	269	188	171	17
Renewable natural resources, general	686	428	258	197	127	70	39	31	8
Conservation and regulation	205	143	62	22	17	5	0	0	0
Fishing and fisheries	127	103	24	77	60	17	19	19	0
Forestry production and processing	203	169	34	48	41	7	14	14	0
Forestry and related sciences	872	692	180	430	311	119	94	87	7
Wildlife management	592	395	197	131	92	39	16	14	2
Renewable natural resources, other	134	97	37	45	33	12	6	6	0
<b>Architecture and environmental design, total</b>	<b>8,922</b>	<b>5,590</b>	<b>3,332</b>	<b>3,142</b>	<b>2,073</b>	<b>1,069</b>	<b>92</b>	<b>66</b>	<b>26</b>
Architecture and environmental design, general	742	515	227	26	11	15	3	2	1
Architecture	4,350	3,250	1,100	1,622	1,172	450	24	21	3
City, community, and regional planning	309	221	88	815	532	283	56	35	21
Environmental design	690	464	226	36	18	18	1	0	1
Interior design	1,456	160	1,296	37	4	33	0	0	0
Landscape architecture	812	544	268	271	125	146	1	1	0
Urban design	2	2	0	81	54	27	2	2	0
Architecture and environmental design, other	561	434	127	254	157	97	5	5	0
<b>Area and ethnic studies, total</b>	<b>3,340</b>	<b>1,278</b>	<b>2,062</b>	<b>851</b>	<b>452</b>	<b>399</b>	<b>132</b>	<b>73</b>	<b>59</b>
Area studies, total	2,772	1,013	1,729	736	397	339	116	60	56
African studies	19	7	12	14	7	7	3	0	3
American studies	1,024	371	653	174	65	109	70	31	39
Asian studies	576	255	321	146	90	56	20	15	5
European studies	219	61	158	60	46	14	1	0	1
Latin American studies	224	73	151	156	78	78	0	0	0
Middle Eastern studies	67	28	39	66	43	23	15	11	4
Russian and Slavic studies	251	116	135	97	57	40	1	0	1
Area studies, other	392	132	260	23	11	12	6	3	3
Ethnic studies, total	416	179	237	63	27	36	8	5	3
Afro-American (black) studies	150	66	84	17	7	10	0	0	0
Hispanic-American studies	47	18	29	13	4	9	0	0	0
Ethnic studies, other	219	95	124	33	16	17	8	5	3
Area and ethnic studies, other	152	56	96	52	28	24	8	8	0

Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph.D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Business and management, business and office, and marketing and distribution..	241,156	128,958	112,198	67,496	45,211	22,285	1,098	839	259
Business and management, total.....	233,719	126,750	106,969	67,352	45,137	22,216	1,098	839	259
Business and management, general	41,773	22,654	19,119	11,871	8,187	3,684	175	145	30
Accounting.....	43,813	21,267	22,546	2,920	1,725	1,195	61	44	17
Banking and finance.....	24,339	15,822	8,517	4,516	3,166	1,350	67	60	7
Business administration and management	68,344	37,862	30,482	35,941	24,237	11,704	524	381	143
Business economics.....	3,555	2,346	1,209	201	143	58	59	51	8
Human resources development	872	420	452	784	402	382	8	5	3
Institutional management.....	4,813	2,581	2,232	244	159	85	3	3	0
Insurance and risk management.....	397	254	143	33	25	8	1	1	0
International business management	1,111	486	625	1,727	1,167	560	16	12	4
Investments and securities.....	269	169	100	142	113	29	0	0	0
Labor/industrial relations.....	1,062	538	524	644	291	353	15	10	5
Management information systems	3,441	1,979	1,462	1,101	799	302	9	7	2
Management science, total.....	2,206	1,327	879	713	539	174	48	39	9
Business statistics.....	0	0	0	0	0	0	0	0	0
Operations research (quantitative methods)	741	436	305	440	326	114	37	31	6
Management science, other.....	1,465	891	574	273	213	60	11	8	3
Marketing management and research.....	29,573	14,445	15,128	1,828	984	844	33	24	9
Organizational behavior.....	479	194	285	150	68	82	20	12	8
Personnel management.....	1,752	809	943	265	144	121	0	0	0
Real estate.....	838	590	248	206	173	33	1	1	0
Small business management and ownership	70	51	19	6	3	3	0	0	0
Taxation.....	0	0	0	1,016	708	308	0	0	0
Trade and industrial supervision and management	696	541	155	69	60	9	0	0	0
Consumer and personal services.....	70	53	17	0	0	0	0	0	0
Business and management, other.....	4,246	2,362	1,884	2,976	2,044	932	58	44	14
Business and office, total.....	3,186	791	2,395	44	28	16	0	0	0
Accounting, bookkeeping, and related programs	270	122	148	37	25	12	0	0	0
Business data processing and related programs	868	494	374	4	3	1	0	0	0
Office supervision and management.....	1,304	104	1,200	0	0	0	0	0	0
Secretarial and related programs.....	620	35	585	0	0	0	0	0	0
Business and office, other.....	124	36	88	3	0	3	0	0	0
Marketing and distribution, total.....	4,251	1,417	2,834	99	46	53	0	0	0
Apparel and accessories marketing	1,547	40	1,507	5	1	4	0	0	0
Business and personal services marketing	758	419	339	0	0	0	0	0	0
General marketing.....	1,264	618	646	49	24	25	0	0	0
Transportation and travel marketing	210	64	146	37	15	22	0	0	0
Marketing and distribution, other.....	472	276	196	8	6	2	0	0	0
Communications and communications technologies, total.....	45,408	18,155	27,253	3,937	1,606	2,331	275	158	117
Communications, total.....	43,969	17,388	26,581	3,666	1,457	2,209	273	157	116
Communications, general.....	20,243	7,676	12,567	1,473	573	900	204	113	91
Advertising.....	2,665	948	1,717	165	70	95	4	2	2
Communications, research.....	106	28	78	3	2	1	11	7	4
Journalism (mass communications)	10,891	3,963	6,928	1,217	481	736	25	18	7
Public relations.....	1,376	405	971	60	13	47	0	0	0
Radio/television news broadcasting	942	428	514	10	1	9	0	0	0
Radio television, general.....	5,604	3,032	2,572	244	132	112	12	9	3
Communications, other.....	2,142	908	1,234	494	185	309	17	8	9
Communications technologies, total.....	1,439	767	672	271	149	122	2	1	1
Motion picture technology.....	55	43	12	0	0	0	0	0	0
Photographic technology.....	27	14	13	0	0	0	0	0	0
Radio and television technology.....	1,233	646	587	198	106	92	2	1	1
Communications technologies, other.....	124	64	60	73	43	30	0	0	0
Computer and information sciences, total.....	29,664	25,929	13,735	8,491	5,995	2,495	374	322	52
Computer and information sciences, general.....	31,788	21,142	10,646	7,076	5,119	1,957	350	306	44
Computer programming.....	346	270	76	40	32	8	0	0	0
Data processing.....	754	418	336	33	23	10	0	0	0
Information science and systems.....	4,678	2,770	1,908	964	544	420	17	12	5
Systems analysis.....	454	275	179	149	121	28	0	0	0
Computer and information sciences, other.....	1,644	1,054	590	229	156	73	7	4	3
Education, total.....	87,115	20,770	66,345	75,501	19,842	55,659	6,909	3,117	3,792
Education, general.....	1,883	407	1,476	7,501	2,053	5,505	1,026	438	588
Bilingual/bicultural education.....	359	115	244	419	130	279	42	23	19
Curriculum and instruction.....	394	21	373	3,619	782	2,917	713	260	453

**Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued**

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph D., Ed D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Education administration, total	25	7	18	8,965	4,037	4,928	2,122	1,097	1,025
Education administration, general	3	0	3	5,670	2,662	3,008	1,502	804	698
Administration of special education	3	0	3	22	9	13	18	6	12
Adult and continuing education administration	0	0	0	119	39	80	44	22	22
Educational supervision	3	3	0	2-5	308	537	19	8	11
Elementary and secondary education administration	14	2	12	1,394	664	730	84	49	35
Higher education administration	2	2	0	293	102	191	359	165	194
Community college education administration	0	1	0	86	30	56	12	7	5
Educational administration, other	0	0	0	536	223	313	84	36	48
Educational media	29	6	22	765	181	584	32	18	14
Evaluation and research, total	1	0	1	154	56	98	117	49	68
Evaluation and research, general	0	0	0	52	18	34	40	16	24
Educational statistics and research	1	0	1	36	18	18	50	24	26
Educational testing, evaluation, and measurement	0	0	0	60	15	45	20	7	13
Elementary and secondary research	0	0	0	0	0	0	0	0	0
Higher education research	0	0	0	6	5	1	7	2	5
School psychology	158	33	25	1,438	344	1,094	502	186	316
Social foundations	0	0	0	185	69	116	121	60	81
Special education, total	6,996	492	6,504	8,826	1,025	7,801	230	61	169
Special education, general	4,664	346	4,318	6,519	793	5,726	193	50	143
Education of the deaf and hearing impaired	183	5	178	229	26	203	2	1	1
Education of the gifted and talented	2	0	2	162	11	151	3	0	3
Education of the emotionally handicapped	169	15	154	254	44	210	2	1	1
Education of the mentally handicapped	554	47	507	206	23	183	2	1	1
Education of the multiple handicapped	66	6	60	94	6	88	0	0	0
Education of the physically handicapped	42	1	41	51	2	49	3	0	3
Education of the visually handicapped	26	3	23	85	12	73	0	0	0
Remedial education	0	0	0	42	0	42	0	0	0
Special learning disabilities	285	3	277	634	57	577	14	2	12
Speech correction	845	31	814	282	7	275	0	0	0
Special education, other	360	30	330	288	44	244	11	6	5
Student counseling and personnel services	103	23	80	9,314	2,395	6,919	441	213	228
Teacher education, general programs, total	44,137	4,309	39,828	16,706	2,562	14,144	426	174	254
Adult and continuing education	79	25	54	554	162	392	109	42	67
Elementary education	35,778	2,677	33,101	10,239	951	9,288	104	20	84
Junior high/middle school education	549	88	461	413	61	352	0	0	0
Pre-elementary education	3,975	85	3,890	1,415	36	1,379	26	3	23
Secondary education	3,482	1,413	2,069	3,174	1,126	2,048	97	55	42
Teacher education, general programs, other	274	21	253	911	226	685	92	54	38
Teacher education, specific subject areas, total	32,244	15,123	17,121	14,323	5,028	9,295	899	426	463
Agricultural education	893	539	354	345	270	75	31	24	7
Art education	1,213	217	996	620	143	477	49	18	31
Business education	1,921	389	1,532	622	118	504	26	12	14
Driver and safety education	49	42	7	77	67	10	0	0	0
English education	1,149	219	930	421	79	342	31	7	24
Foreign languages education	211	39	172	91	16	75	30	16	14
Health education	1,693	417	1,276	879	134	545	84	29	55
Home economics education	850	1	849	202	1	201	13	0	13
Industrial arts education	2,315	2,087	228	611	488	123	39	22	17
Marketing and distributive education	236	101	135	35	10	25	1	1	0
Mathematics education	1,426	513	913	478	164	314	33	14	19
Music education	3,109	1,275	1,834	955	425	530	87	47	40
Physical education	12,250	8,427	5,823	3,557	1,825	1,732	196	110	88
Reading education	181	15	166	3,063	176	2,887	75	9	66
Science education	1,215	505	710	481	212	269	47	32	15
Social science education	819	348	471	119	39	80	4	2	2
Social studies education	948	537	411	112	59	53	5	3	2
Technical education	305	215	90	131	73	58	23	12	11
Trade and industrial education	1,284	981	303	635	348	287	78	53	25
Teacher education, other	777	258	519	1,089	381	708	47	25	22
Teaching English as a second language	16	4	12	649	183	466	1	0	1
Education, other	771	230	541	2,510	797	1,713	235	102	133
Engineering and engineering technologies, total	93,074	80,347	12,727	22,693	19,841	2,852	3,820	3,557	263
Engineering, total	73,797	82,547	11,250	22,06	19,312	2,789	3,809	3,548	261
Engineering, general	2,737	2,294	443	1,048	920	126	228	216	12
Aerospace, aeronautical, and astronautical engineering	3,011	2,784	227	718	663	55	128	118	10
Agricultural engineering	559	498	61	151	138	13	68	63	5
Architectural engineering	485	390	95	50	45	5	0	0	0
Bioengineering and biomedical engineering	637	411	226	313	231	82	58	47	11
Ceramic engineering	301	217	84	107	81	28	34	31	3
Chemical engineering	4,983	3,603	1,380	1,184	961	223	497	439	58
Civil engineering	8,147	7,068	1,079	2,901	2,522	379	451	434	17

**Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued**

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Computer engineering.....	2,021	1,666	355	709	595	114	57	51	6
Electrical, electronics, and communications engineering.....	24,563	21,397	3,166	6,234	5,635	599	726	691	35
Engineering mechanics.....	159	139	20	181	161	20	103	100	3
Engineering physics.....	396	333	63	90	80	10	38	36	2
Engineering science.....	266	207	59	206	175	31	41	38	3
Environmental health engineering.....	96	70	26	312	221	91	41	35	6
Geological engineering.....	243	195	48	76	66	10	5	5	0
Geophysical engineering.....	78	65	13	29	24	5	6	6	0
Industrial engineering.....	4,140	2,817	1,323	1,726	1,407	319	165	145	20
Materials engineering.....	411	291	120	430	332	98	210	179	31
Mechanical engineering.....	15,429	13,739	1,690	3,157	2,930	227	528	511	17
Metallurgical engineering.....	436	343	93	258	220	38	111	104	7
Mining and mineral engineering.....	298	266	32	89	83	6	28	26	2
Naval architecture and marine engineering.....	428	396	32	31	30	1	5	5	0
Nuclear engineering.....	323	296	27	261	234	27	90	88	2
Ocean engineering.....	124	111	13	86	75	11	21	21	0
Petroleum engineering.....	1,067	932	135	201	181	20	20	20	0
Surveying and mapping sciences, total.....	92	71	21	31	29	2	6	6	0
Systems engineering.....	305	240	65	226	186	40	27	27	0
Textile engineering.....	26	17	9	2	2	0	0	0	0
Engineering, other.....	2,056	1,721	335	1,276	1,085	191	117	106	11
Engineering and related technologies, total.....	19,277	17,800	1,477	612	529	83	11	9	2
Architectural technologies.....	896	832	64	13	12	1	0	0	0
Civil technologies.....	850	777	73	0	0	0	0	0	0
Electrical and electronic technologies.....	5,145	4,822	323	24	20	4	0	0	0
Electromechanical instrumentation and maintenance technologies.....	214	201	13	11	11	0	0	0	0
Environmental control technologies.....	104	84	20	44	30	14	0	0	0
Industrial production technologies.....	4,629	4,216	413	176	158	18	6	5	1
Quality control and safety technologies.....	235	187	48	138	115	23	0	0	0
Mechanical and related technologies.....	2,441	2,303	138	0	0	0	0	0	0
Mining and petroleum technologies.....	66	63	3	5	4	1	5	4	1
Mechanics and repairers.....	187	182	5	0	0	0	0	0	0
Construction trades.....	27	22	5	0	0	0	0	0	0
Engineering and related technologies, other.....	4,483	4,111	372	201	179	22	0	0	0
Foreign languages, total.....	10,184	2,791	7,393	1,746	517	1,229	441	164	257
Foreign languages, multiple emphasis.....	689	196	493	236	59	177	40	18	22
African (non-Somitic) languages.....	2	2	0	2	1	1	3	3	0
Asiatic languages, total.....	288	152	136	43	19	24	22	16	6
Chinese.....	110	54	56	16	7	9	10	7	3
Japanese.....	135	70	65	10	2	8	3	2	1
Asiatic languages, other.....	43	28	15	17	10	7	9	7	2
Baltic-Slavic languages, total.....	577	232	345	110	50	60	22	9	13
Baltic languages.....	0	0	0	0	0	0	0	0	0
Russian languages.....	502	201	301	54	25	29	8	2	6
Slavic languages (other than Russian).....	75	31	44	56	25	31	14	7	7
Germanic languages, total.....	1,416	549	867	249	97	152	77	37	40
German.....	1,363	537	826	234	87	147	70	33	37
Scandinavian languages.....	35	10	25	8	5	3	1	1	0
Germanic languages, other.....	19	2	16	7	5	2	6	3	3
Greek (classical).....	50	33	17	7	6	1	2	2	0
Indic languages.....	2	0	2	1	0	1	4	1	3
Italic languages, total.....	6,881	1,507	5,344	1,042	256	786	227	71	156
French.....	3,057	583	2,474	421	94	327	85	22	63
Italian.....	219	48	171	53	14	39	17	6	11
Latin.....	79	29	50	16	6	10	2	0	2
Portuguese.....	16	7	9	5	2	3	3	2	1
Spanish.....	3,445	854	2,591	504	127	377	104	36	68
Italic languages, other.....	65	16	49	43	13	30	16	5	11
Semitic languages, total.....	71	17	54	27	16	11	13	10	3
Arabic.....	8	3	5	1	1	0	1	1	0
Hebrew.....	55	9	46	16	10	6	5	3	2
Semitic languages, other.....	8	5	3	10	5	5	7	6	1
Foreign languages, other.....	208	73	135	29	13	16	31	17	14
Allied health and health sciences, total.....	63,206	9,177	54,029	18,426	3,887	14,539	1,213	564	649
Allied health, total.....	12,719	2,427	10,292	2,981	701	2,280	60	31	29
Dental services.....	736	11	725	39	19	20	0	0	0
Diagnostic and treatment services.....	711	246	465	36	23	13	0	0	0
Medical laboratory technologies.....	2,226	479	1,747	28	6	22	0	0	0
Mental health/human services.....	753	122	631	1,117	284	833	29	19	10
Miscellaneous allied health services.....	786	302	484	107	40	67	0	0	0

Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph.D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Nursing-related services.....	291	8	283	94	13	81	0	0	0
Rehabilitative services.....	6,317	1,009	5,308	1,276	247	1,029	14	3	11
Occupational therapy.....	1,952	129	1,823	307	27	280	2	0	2
Physical therapy.....	3,239	668	2,571	522	127	395	3	1	2
Speech-language pathology/audiology.....	0	0	0	0	0	0	0	0	0
Rehabilitative services, other.....	1,126	212	914	447	93	354	9	2	7
Allied health, other.....	899	250	649	284	69	215	17	9	8
Health sciences, total.....	50,487	6,750	43,737	15,445	3,186	12,259	1,153	533	620
Audiology and speech pathology.....	2,563	128	2,435	2,985	165	2,820	89	24	65
Basic clinical health sciences.....	178	64	114	137	60	77	106	67	39
Chiropractic.....	0	0	0	0	0	0	0	0	0
Dentistry, total.....	180	96	84	411	315	96	14	10	4
Epidemiology.....	0	0	0	0	0	0	0	0	0
Health services administration, total.....	3,210	686	2,524	2,592	955	1,637	23	14	9
Health services administration.....	2,295	594	1,701	2,215	853	1,362	16	10	6
Health care planning.....	25	5	20	126	38	88	5	2	3
Medical records administration.....	671	46	625	0	0	0	0	0	0
Health services administration, other.....	219	41	178	251	64	187	2	2	0
Medical laboratory.....	1,259	276	983	79	17	62	4	2	2
Medicine, total.....	129	48	81	164	84	80	72	49	23
Nursing.....	33,976	1,850	32,126	6,184	428	5,756	275	27	248
Optometry.....	278	171	107	11	10	1	2	0	2
Osteopathic medicine.....	1	0	1	1	0	1	0	0	0
Pharmacy.....	5,022	2,213	2,809	265	149	116	199	141	58
Pre-dentistry.....	110	79	31	0	0	0	0	0	0
Pre-medicine.....	527	370	157	0	0	0	0	0	0
Pre-veterinary.....	33	20	13	1	0	1	0	0	0
Public health.....	291	102	189	1,663	623	1,040	172	75	97
Veterinary medicine.....	194	104	90	117	67	50	62	42	20
Health sciences, other.....	2,536	543	1,993	835	313	522	135	82	53
Home economics and vocational home economics, total.....	14,942	1,116	13,826	2,070	256	1,814	297	65	232
Home economics, total.....	13,898	865	13,033	1,973	241	1,732	247	57	190
Home economics, general.....	4,007	162	3,845	464	19	445	55	9	46
Business home economics.....	176	5	171	0	0	0	0	0	0
Family and community services.....	170	13	157	28	6	22	0	0	0
Family/consumer resource management.....	623	105	518	41	4	37	18	2	16
Food sciences and human nutrition.....	3,023	252	2,771	660	57	603	59	17	42
Human environment and housing.....	687	61	626	38	17	21	1	0	1
Individual and family development.....	2,207	121	2,086	596	123	473	97	28	69
Textiles and clothing.....	2,863	141	2,722	97	4	93	14	1	13
Home economics, other.....	142	5	137	49	11	38	3	0	3
Vocational home economics, total.....	1,044	251	793	97	15	82	50	8	42
Consumer and homemaking education.....	537	38	499	30	3	27	6	1	5
Institutional, home management, and supporting services.....	91	33	58	16	5	11	2	0	2
Vocational home economics, other.....	416	180	236	51	7	44	42	7	35
Law, total.....	1,178	370	808	1,943	1,423	520	120	79	41
Law.....	1	0	1	733	542	191	61	40	21
Pre-law.....	251	141	110	0	0	0	0	0	0
Legal assisting.....	425	62	363	2	0	2	0	0	0
Law, other.....	501	167	334	1,208	881	327	59	39	20
Letters, total.....	37,133	12,684	24,449	6,123	2,140	3,983	1,181	515	666
English, general.....	25,754	8,427	17,327	3,884	1,344	2,540	659	281	378
Classics.....	362	184	178	92	54	38	49	26	23
Comparative literature.....	615	221	394	185	72	113	108	48	60
Composition.....	147	59	88	10	4	6	1	0	1
Creative writing.....	470	193	277	410	178	232	1	0	1
Linguistics.....	474	140	334	541	195	346	171	74	97
Literature, American.....	26	9	17	9	0	9	6	2	4
Literature, English.....	1,318	432	886	206	65	141	72	30	42
Rhetoric.....	0	0	0	0	0	0	0	0	0
Speech, debate, and forensics.....	6,817	2,645	4,172	576	177	399	79	40	39
Technical and business writing.....	130	51	79	80	26	54	0	0	0
Letters, other.....	1,020	323	697	130	25	105	35	14	21
Liberal/general studies, total.....	21,365	9,312	12,053	1,126	459	667	29	15	14
Liberal arts and sciences.....	14,846	6,771	8,075	999	404	595	16	9	9

**Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued**

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Liberal/general studies, other .....	6,519	2,541	3,978	127	55	72	11	6	5
Library and archival sciences, total.....	139	20	119	3,815	796	3,019	57	12	39
Library and archival sciences, general .....	9	1	8	672	131	541	5	4	1
Library science .....	121	19	102	3,092	656	2,436	47	11	36
Library and archival sciences, other.....	9	0	9	51	9	42	5	3	2
Life sciences, total .....	38,114	19,641	18,473	4,954	2,539	2,415	3,423	2,226	1,197
Biology, general .....	27,458	14,045	13,413	2,022	1,050	972	537	339	198
Biochemistry and biophysics .....	2,111	1,194	917	265	151	114	461	297	164
Botany, total .....	310	161	149	364	185	179	306	215	91
Botany, general .....	237	126	111	195	89	106	159	109	50
Bacteriology .....	41	17	24	28	10	18	12	6	6
Plant pathology .....	16	9	7	84	52	32	87	62	25
Botany, other.....	16	9	7	57	34	23	48	38	10
Cell and molecular biology, total .....	629	379	250	98	48	50	180	118	62
Cell biology .....	90	48	42	40	18	22	57	36	21
Molecular biology .....	329	204	125	53	26	27	87	56	31
Cell and molecular biology, other .....	210	127	83	5	4	1	36	26	10
Microbiology .....	2,057	982	1,075	360	176	184	325	222	103
Miscellaneous specialized areas, total .....	1,415	687	728	839	355	484	554	336	218
Anatomy .....	87	52	35	53	28	25	85	42	43
Biometrics and biostatistics .....	8	6	2	92	38	54	46	28	18
Ecology .....	440	244	196	184	111	73	70	51	19
Marine biology .....	269	159	110	64	34	30	27	20	7
Neurosciences .....	97	58	39	15	9	6	72	52	20
Nutritional sciences .....	225	37	188	264	42	222	113	47	66
Toxicology .....	82	37	45	58	29	29	59	42	17
Miscellaneous specialized areas, other .....	207	94	113	109	64	45	82	54	28
Zoology .....	3,032	1,643	1,389	833	486	347	900	597	303
Zoology, general .....	2,299	1,264	1,035	241	144	97	172	121	51
Entomology .....	90	63	27	155	103	52	113	92	21
Genetics, human and animal .....	174	78	96	95	29	66	108	59	49
Pathology, human and animal .....	26	8	18	52	32	20	115	71	44
Pharmacology, human and animal .....	41	22	19	64	31	33	212	128	84
Physiology, human and animal .....	402	208	194	226	147	79	176	123	53
Zoology, other .....	0	0	0	0	0	0	4	3	1
Life sciences, other .....	1,102	550	552	173	88	85	160	102	58
Mathematics, total .....	16,489	8,834	7,655	3,321	2,024	1,297	725	599	126
Mathematics, general .....	13,933	7,292	6,641	2,260	1,351	909	527	447	80
Actuarial sciences .....	187	119	68	36	27	9	2	1	1
Applied mathematics .....	969	563	406	351	240	111	59	48	11
Pure mathematics .....	108	74	34	18	13	5	12	9	3
Statistics .....	463	266	197	577	343	234	115	85	30
Mathematics, other .....	829	520	309	79	50	29	10	9	1
Military sciences and military technologies, total .....	383	357	26	83	81	2	0	0	0
Military sciences, total .....	383	357	26	60	58	2	0	0	0
Military technologies, total .....	0	0	0	23	23	0	0	0	0
Multi/interdisciplinary studies, total .....	16,402	7,597	8,805	3,041	1,764	1,277	276	174	102
Biological and physical sciences .....	2,005	1,142	863	261	129	132	22	17	5
Engineering and other disciplines .....	282	212	70	224	150	74	52	45	7
Humanities and social sciences .....	2,352	876	1,476	452	162	290	27	13	14
Systems science .....	34	21	13	885	732	153	3	3	0
Women's studies .....	118	3	115	14	1	13	2	0	2
Multi/interdisciplinary studies, other .....	11,611	5,343	6,268	1,205	590	615	170	96	74
Parks and recreation, total .....	4,107	1,636	2,471	476	213	263	32	20	12
Parks and recreation, general .....	1,570	575	995	150	62	88	19	10	9
Outdoor recreation .....	139	63	76	24	10	14	0	0	0
Parks and recreation management .....	2,164	884	1,300	236	95	141	9	8	1
Water resources .....	50	45	5	35	29	6	0	0	0
Parks and recreation, other .....	164	69	95	31	17	14	4	2	2
Philosophy and religion, total .....	5,976	3,840	2,136	1,108	698	410	422	329	93
Philosophy .....	3,250	2,179	1,071	415	296	119	223	180	43
Religion .....	2,467	1,486	981	576	349	227	192	144	48
Philosophy and religion, other .....	259	175	84	117	53	64	7	5	2

**Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued**

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
<b>Theology, total</b> .....	5,710	4,331	1,379	4,881	3,225	1,656	1,236	1,108	128
Biblical languages .....	44	39	5	10	9	1	0	0	0
Bible studies .....	1,883	1,513	370	295	251	44	17	17	0
Missionary studies .....	244	184	80	196	147	49	24	22	2
Religious education .....	925	548	377	716	367	349	38	28	10
Religious music .....	203	117	86	126	75	51	6	4	2
Theological studies .....	1,594	1,283	311	2,310	1,566	744	830	758	72
Theology, other .....	817	667	150	228	810	418	321	279	42
<b>Physical sciences and science technologies, total</b> .....	19,974	14,302	5,672	5,652	4,243	1,409	3,672	3,038	634
<b>Physical sciences, total</b> .....	19,885	14,253	5,632	5,649	4,241	1,408	3,671	3,037	634
Physical sciences, general .....	631	539	142	65	45	2	2	2	0
Astronomy .....	100	84	16	60	44	16	52	43	9
Astrophysics .....	29	22	7	11	11	0	14	11	3
Atmospheric science and meteorology .....	344	282	62	214	185	29	61	51	10
Chemistry, total .....	9,661	6,070	3,591	1,738	1,174	564	1,976	1,555	421
Chemistry, general .....	9,483	5,936	3,527	1,611	1,093	518	1,818	1,427	391
Analytical chemistry .....	1	1	0	14	8	6	12	9	3
Inorganic chemistry .....	0	0	0	7	5	2	13	10	3
Organic chemistry .....	0	0	0	15	13	2	33	28	5
Pharmaceutical chemistry .....	10	7	3	43	26	17	44	35	9
Chemistry, other .....	187	126	61	48	29	19	56	46	10
Geological sciences, total .....	3,665	2,814	851	1,603	1,188	415	280	223	57
Geology .....	3,367	2,591	776	1,386	1,029	357	220	173	47
Geochemistry .....	9	6	3	15	12	3	6	4	2
Geophysics and seismology .....	142	110	32	114	87	27	26	23	3
Geological sciences, other .....	147	107	40	88	60	28	28	23	5
Miscellaneous physical sciences, total .....	693	548	145	300	199	101	136	116	20
Metallurgy .....	2	1	1	13	10	3	15	15	0
Oceanography .....	150	129	21	112	78	34	69	58	11
Earth science .....	523	404	119	126	84	42	50	41	9
Miscellaneous physical sciences, other .....	13	14	4	49	27	22	2	2	0
Physics, total .....	4,330	3,635	695	1,563	1,320	243	1,086	983	103
Physics, general .....	4,191	3,526	665	1,475	1,246	229	1,000	906	94
Physics, other .....	139	109	30	88	74	14	86	77	9
Physical sciences, other .....	382	259	123	95	75	20	64	53	11
Science technologies, total .....	89	49	40	3	2	1	1	1	0
<b>Psychology, total</b> .....	42,868	13,332	29,536	8,204	2,856	5,348	3,123	1,458	1,665
Psychology, general .....	40,009	12,339	27,670	3,883	1,415	2,468	1,633	766	867
Clinical psychology .....	68	20	48	857	264	593	876	395	481
Counseling psychology .....	197	53	144	1,908	551	1,357	215	103	112
Developmental psychology .....	250	25	225	109	37	72	51	20	31
Experimental psychology .....	165	54	111	37	20	17	57	31	26
Industrial and organizational psychology .....	113	40	73	440	216	224	41	22	19
Physiological psychology .....	121	56	65	9	5	4	24	12	12
Psychometrics and quantitative psychology .....	2	0	2	5	2	3	8	6	2
Social psychology .....	487	199	288	40	20	20	48	18	30
Psychology, other .....	1,456	546	910	916	326	590	170	85	85
<b>Protective services, total</b> .....	12,930	7,974	4,956	1,019	719	300	18	15	3
<b>Criminal justice, total</b> .....	12,777	7,827	4,950	1,012	712	300	18	15	3
Correctional administration .....	184	113	71	27	22	5	0	0	0
Corrections .....	336	127	209	65	42	23	3	2	1
Criminal justice administration .....	3,211	2,012	1,199	364	239	125	15	13	2
Criminal justice studies .....	6,596	3,966	2,630	449	339	110	0	0	0
Criminal justice technology .....	16	9	7	0	0	0	0	0	0
Forensic studies .....	182	79	103	37	22	15	0	0	0
Law enforcement .....	1,297	928	369	41	30	11	0	0	0
Law enforcement administration .....	102	77	25	9	8	1	0	0	0
Criminal justice, other .....	853	516	337	20	10	10	0	0	0
Fire protection .....	145	141	4	7	7	0	0	0	0
Protective services, other .....	8	6	2	0	0	0	0	0	0
<b>Public affairs, total</b> .....	14,161	4,537	9,624	17,032	6,191	10,841	398	216	182
Public affairs, general .....	820	455	365	575	320	255	25	21	4
Community services .....	998	252	746	353	169	184	8	3	5
International public service .....	148	65	83	107	76	31	0	0	0
Public administration .....	1,462	800	662	4,967	2,917	2,050	91	67	24
Public policy studies .....	218	96	122	458	264	194	41	21	20
Public works .....	0	0	0	8	8	0	0	0	0



**Table 204.—Bachelor's, master's, and doctor's degrees conferred<sup>1</sup> by institutions of higher education, by sex of student and field of study: 1986-87—Continued**

Field of study	Bachelor's degrees requiring 4 or 5 years			Master's degrees			Doctor's degrees (Ph.D., Ed.D., etc.)		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
Social work, total .....	8,368	1,198	7,170	9,442	1,780	7,662	203	86	117
Social work, general .....	7,775	1,110	6,665	8,795	1,658	7,137	191	82	109
Medical social work .....	47	11	36	58	20	38	0	0	0
Social work, other .....	546	77	469	589	102	487	12	4	8
Transportation and material moving .....	1,643	1,466	177	433	420	13	0	0	0
Public affairs, other .....	504	205	299	689	237	452	30	18	12
<b>Social sciences, total .....</b>	<b>96,185</b>	<b>53,879</b>	<b>42,306</b>	<b>10,397</b>	<b>6,294</b>	<b>4,103</b>	<b>2,916</b>	<b>2,026</b>	<b>890</b>
Social sciences, general .....	4,121	1,928	2,493	493	269	224	30	19	11
Anthropology .....	2,730	981	1,749	710	294	416	346	169	177
Archeology .....	67	21	46	36	11	25	17	7	10
Criminology .....	1,142	663	459	57	36	21	3	2	1
Demography .....	10	7	3	18	10	8	9	7	2
Economics .....	22,387	14,780	7,607	1,855	1,381	474	750	624	126
Geography .....	3,055	2,124	931	554	360	194	131	100	31
History .....	16,968	10,586	6,402	2,023	1,205	818	534	360	174
International relations .....	3,648	1,657	1,991	1,415	872	543	61	53	8
Political science and government .....	26,834	15,999	10,835	1,618	1,111	507	435	316	119
Sociology .....	12,231	3,842	8,389	950	414	536	451	271	180
Urban studies .....	557	298	259	281	133	128	30	14	16
Social sciences, other .....	2,115	973	1,142	407	198	209	119	84	35
<b>Visual and performing arts, total .....</b>	<b>36,223</b>	<b>13,783</b>	<b>22,440</b>	<b>8,506</b>	<b>3,757</b>	<b>4,749</b>	<b>792</b>	<b>447</b>	<b>345</b>
Visual and performing arts, general .....	1,549	539	1,010	227	99	128	1	1	0
Crafts .....	352	84	268	88	31	57	0	0	0
Dance .....	675	79	596	186	25	161	4	0	4
Design .....	4,513	1,754	2,759	279	126	153	0	0	0
Dramatic arts .....	4,563	1,869	2,694	1,108	564	544	84	55	29
Film arts, total .....	1,639	967	672	368	220	148	6	4	2
Cinematography/film .....	615	389	226	213	129	64	6	4	2
Photography .....	641	334	307	86	46	40	0	0	0
Film arts, other .....	383	244	139	69	45	24	0	0	0
Fine arts, total .....	14,804	4,680	10,124	2,738	998	1,740	175	54	121
Fine arts, general .....	9,830	3,260	6,570	1,573	626	947	44	18	26
Art history and appreciation .....	1,789	351	1,438	386	71	315	110	30	80
Arts management .....	73	12	31	69	24	45	1	0	1
Painting .....	783	278	505	177	80	97	0	0	0
Fine arts, other .....	2,329	779	1,550	533	197	336	20	6	14
Graphic arts technology .....	0	0	0	0	0	0	0	0	0
Music, total .....	6,924	3,256	3,668	3,454	1,669	1,785	518	329	189
Music, general .....	3,697	1,680	2,017	1,249	598	651	236	143	88
Music history and appreciation .....	56	23	33	52	32	20	29	16	13
Music performance .....	2,313	1,069	1,244	1,629	761	868	164	96	68
Music theory and composition .....	276	197	79	218	138	80	53	40	13
Music, other .....	582	287	295	306	140	166	36	29	7
Precision production .....	423	199	224	3	2	1	0	0	0
Visual and performing arts, other .....	781	356	425	55	23	32	4	4	0

<sup>1</sup> Preliminary data

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)

NOTE—Aggregations by field of study derived from the *Classification of Instructional Programs* developed by the National Center for Education Statistics

**Table 205.—Bachelor's degrees conferred by institutions of higher education, by discipline division: 1970-71 to 1986-87**

Discipline division	1970-71	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Total .....</b>	<b>839,730</b>	<b>922,362</b>	<b>945,776</b>	<b>922,933</b>	<b>925,746</b>	<b>919,549</b>	<b>921,204</b>	<b>921,390</b>	<b>929,417</b>	<b>935,140</b>	<b>952,998</b>	<b>969,510</b>	<b>974,309</b>	<b>979,477</b>	<b>987,823</b>	<b>991,339</b>
Agriculture and natural resources.....	12,672	14,756	16,253	17,528	19,402	21,467	22,650	23,134	22,802	21,886	21,029	20,909	19,317	18,107	16,823	14,991
Architecture and environmental design.....	5,570	6,962	7,822	8,226	9,146	9,222	9,250	9,273	9,132	9,455	9,728	9,823	9,186	9,325	9,119	8,922
Area and ethnic studies.....	2,582	3,512	3,721	3,544	3,577	3,450	3,257	3,006	2,840	2,887	2,862	2,971	2,879	2,867	3,060	3,340
Business and management.....	114,865	126,263	131,766	133,010	142,379	150,964	160,187	171,764	185,361	199,338	214,001	226,893	230,031	233,351	238,160	241,156
Communications.....	10,324	13,959	16,250	18,156	20,045	21,698	23,873	24,906	26,927	29,428	32,428	36,954	38,586	40,358	41,666	43,969
Communications technologies.....	478	358	846	1,092	1,237	1,516	1,527	1,551	1,689	1,854	1,794	1,648	1,579	1,725	1,425	1,439
Computer and information sciences.....	2,388	4,304	4,756	5,033	5,652	6,407	7,201	8,719	11,154	15,121	20,267	24,510	32,172	38,878	41,889	39,664
Education.....	176,614	194,229	185,225	167,015	154,807	143,722	136,141	126,109	118,169	108,309	101,113	97,991	92,382	88,161	87,221	87,115
Engineering.....	44,898	46,411	42,840	39,388	38,388	40,936	46,869	53,021	58,402	63,287	67,021	72,248	75,732	77,154	76,333	73,797
Engineering technologies.....	5,148	4,854	7,446	7,464	7,943	8,347	8,855	9,354	10,491	11,713	12,984	17,022	18,712	18,951	19,620	19,277
Foreign languages.....	19,945	18,964	18,840	17,606	15,471	13,944	12,730	11,825	11,133	10,319	9,841	9,685	9,479	9,954	10,102	10,184
Health sciences.....	25,190	33,523	41,394	48,858	53,813	57,122	59,168	61,819	63,607	63,348	63,385	64,614	64,338	64,513	64,535	63,206
Home economics.....	11,167	13,533	15,336	16,772	17,409	17,439	17,621	16,300	18,411	18,370	17,872	16,705	16,316	15,555	15,288	14,942
Law.....	545	474	494	436	531	559	653	678	683	776	846	1,099	1,272	1,157	1,197	1,178
Letters.....	64,933	61,799	55,469	48,534	43,019	38,849	36,365	34,557	33,497	33,208	34,334	32,743	33,739	34,091	35,434	37,133
Liberal/general studies.....	5,461	8,201	9,739	13,032	14,736	16,763	19,694	19,524	20,069	18,596	18,145	18,524	18,815	19,191	19,248	21,365
Library and archival sciences.....	1,013	1,159	1,164	1,069	843	781	693	558	398	375	307	258	255	202	157	139
Life sciences.....	35,743	42,233	48,340	51,741	54,275	53,605	51,502	48,846	46,370	43,216	41,639	39,982	38,640	38,445	38,524	38,114
Mathematics.....	24,801	23,067	21,635	18,181	15,984	14,196	12,569	11,806	11,378	11,078	11,599	12,453	13,211	15,146	16,306	16,489
Military sciences.....	357	253	316	340	1,177	933	386	347	251	305	283	267	195	299	256	383
Multi/interdisciplinary studies.....	8,306	12,091	14,802	15,185	17,707	17,149	15,944	14,630	14,404	15,895	17,651	17,282	16,734	15,727	15,700	16,402
Parks and recreation.....	1,621	2,724	3,705	4,518	5,182	5,514	5,623	5,981	5,753	5,729	5,335	5,198	4,752	4,593	4,433	4,107
Philosophy and religion.....	8,146	9,142	9,444	8,997	8,447	8,158	7,907	7,347	7,069	6,776	6,309	6,483	6,435	6,400	6,239	5,976
Theology.....	3,744	3,534	4,218	4,809	5,520	6,109	6,319	6,091	6,207	5,841	5,998	6,053	5,914	6,039	5,602	5,710
Physical sciences.....	21,412	20,696	21,178	20,778	21,465	22,497	22,986	23,207	23,410	23,952	24,052	23,405	23,671	23,732	21,731	19,974
Psychology.....	37,880	47,695	51,821	50,988	49,908	47,373	44,559	42,461	41,962	40,833	41,031	40,364	39,872	39,811	40,521	42,868
Protective services.....	2,045	4,381	8,257	9,956	12,507	14,530	14,889	14,803	15,015	13,707	12,438	12,579	12,654	12,510	12,704	12,930
Public affairs.....	6,252	11,346	12,671	14,730	16,751	17,627	18,078	18,882	18,422	18,714	18,739	16,290	14,396	13,838	13,878	14,161
Social sciences.....	155,236	155,922	150,298	135,165	126,287	116,879	112,827	107,922	103,519	100,345	99,545	95,088	93,212	91,461	93,703	96,185
Visual and performing arts.....	30,394	36,017	39,730	40,782	42,138	41,793	40,951	40,969	40,892	40,479	40,422	39,460	39,833	37,936	36,949	36,223

<sup>1</sup> Preliminary data

NOTE—Beginning in 1982-83, the taxonomy used to collect data on earned degrees by major field of study was revised. The figures for earlier years have been reclassified when necessary to make them conform to the new taxonomy.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)

Table 206.—Master's degrees conferred by institutions of higher education, by discipline division: 1970-71 to 1986-87

Discipline division	1970-71	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Total</b> .....	<b>230,509</b>	<b>263,371</b>	<b>277,033</b>	<b>292,450</b>	<b>311,771</b>	<b>317,164</b>	<b>311,620</b>	<b>301,079</b>	<b>295,081</b>	<b>295,739</b>	<b>295,546</b>	<b>289,921</b>	<b>284,263</b>	<b>266,251</b>	<b>268,567</b>	<b>289,557</b>
Agriculture and natural resources .....	2,457	2,807	2,928	3,067	3,340	3,724	4,023	3,994	3,973	4,003	4,163	4,254	4,178	3,928	3,801	3,523
Architecture and environmental design .....	1,705	2,307	2,702	2,938	3,215	3,213	3,115	3,113	3,139	3,153	3,327	3,357	3,223	3,275	3,260	3,142
Area and ethnic studies .....	1,032	1,053	1,160	1,168	995	1,052	981	853	852	804	809	826	888	879	927	851
Business and management .....	26,481	31,007	32,644	36,247	42,512	48,420	48,326	50,372	55,006	57,898	61,299	65,319	66,653	67,527	67,137	67,496
Communications .....	1,770	2,308	2,503	2,644	2,961	2,870	3,077	2,654	2,911	2,896	3,104	3,502	3,513	3,460	3,500	3,666
Communications technologies .....	86	98	137	150	165	221	219	228	171	209	223	102	143	209	323	271
Computer and information sciences .....	1,588	2,113	2,276	2,299	2,603	2,798	3,038	3,055	3,647	4,218	4,935	5,321	6,190	7,101	8,070	8,491
Education .....	88,952	105,565	112,610	120,169	128,417	126,825	119,038	111,995	103,951	98,938	93,757	84,853	77,187	76,137	76,353	75,501
Engineering .....	16,309	16,497	15,170	15,127	16,014	15,961	16,038	15,227	15,904	16,386	17,526	18,830	20,094	20,926	21,059	22,081
Engineering technologies .....	134	122	209	221	328	284	360	268	339	323	413	520	567	631	602	612
Foreign languages .....	4,755	4,289	3,964	3,807	3,531	3,147	2,726	2,426	2,236	2,104	2,008	1,759	1,773	1,724	1,721	1,746
Health sciences .....	5,445	7,879	9,090	9,901	11,885	12,323	13,619	14,781	15,068	16,004	15,942	17,068	17,443	17,363	18,624	18,426
Home economics .....	1,452	1,679	1,858	1,901	2,179	2,334	2,613	2,510	2,690	2,570	2,355	2,406	2,422	2,383	2,298	2,070
Law .....	955	1,048	1,181	1,245	1,442	1,574	1,786	1,647	1,817	1,832	1,803	2,091	1,802	1,796	1,924	1,943
Letters .....	11,148	10,808	10,384	10,068	9,468	8,701	8,306	7,289	6,807	6,515	6,421	5,767	5,818	5,934	6,291	6,123
Liberal/general studies .....	549	1,210	1,593	1,630	1,758	1,492	1,387	1,251	1,373	1,085	1,094	889	1,173	1,180	1,154	1,126
Library and archival sciences .....	7,001	7,696	8,134	8,091	8,037	7,572	6,914	5,906	5,374	4,859	4,506	3,979	3,805	3,893	3,626	3,815
Life sciences .....	5,728	6,263	6,552	6,550	6,582	7,114	6,806	6,831	6,510	5,978	5,874	5,696	5,406	5,059	5,013	4,954
Mathematics .....	5,191	5,028	4,834	4,327	3,857	3,695	3,373	3,036	2,860	2,567	2,727	2,837	2,741	2,882	3,159	3,321
Military sciences .....	2	0	0	0	0	43	45	38	46	43	49	110	127	119	83	63
Multi/interdisciplinary studies .....	1,157	1,336	1,844	1,938	2,033	3,006	3,100	3,335	3,579	3,434	3,884	2,930	3,148	3,184	3,104	3,041
Parks and recreation .....	218	391	440	604	571	609	574	755	647	643	526	565	555	544	495	476
Philosophy and religion .....	1,326	1,218	1,384	1,402	1,356	1,300	1,248	1,143	1,204	1,229	1,152	1,091	1,153	1,167	1,163	1,108
Theology .....	2,710	2,778	2,898	3,228	3,290	3,625	3,323	3,558	3,922	4,220	4,064	4,782	5,106	4,352	4,467	4,881
Physical sciences .....	6,367	6,257	6,062	5,807	5,466	5,331	5,561	5,451	5,219	5,284	5,514	5,290	5,576	5,796	5,902	5,652
Psychology .....	4,431	5,831	6,588	7,066	7,811	8,301	8,180	8,003	7,806	7,998	7,791	8,378	8,002	8,408	8,293	8,204
Protective services .....	194	342	561	993	1,197	1,681	1,902	1,729	1,805	1,538	1,336	1,300	1,219	1,235	1,074	1,019
Public affairs .....	8,215	10,899	12,077	14,610	16,117	17,917	18,341	18,300	18,413	18,524	18,216	16,245	15,373	16,045	16,300	17,032
Social sciences .....	16,476	17,288	17,249	16,892	15,824	15,395	14,578	12,807	12,101	11,855	11,892	11,112	10,465	10,380	10,428	10,397
Visual and performing arts .....	6,675	7,254	8,001	8,362	8,817	8,636	9,036	8,524	8,708	8,629	8,746	8,742	8,520	8,714	8,416	8,506

<sup>1</sup> Preliminary data

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared August 1989)

NOTE—Beginning in 1982-83, the taxonomy used to collect data on earned degrees by major field of study was revised. The figures for earlier years have been reclassified when necessary to make them conform to the new taxonomy.

Table 207.—Doctor's degrees conferred by institutions of higher education, by discipline division: 1970-71 to 1986-87

Discipline division	1970-71	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Total</b> .....	<b>32,107</b>	<b>34,777</b>	<b>33,816</b>	<b>34,083</b>	<b>34,064</b>	<b>33,232</b>	<b>32,131</b>	<b>32,730</b>	<b>32,615</b>	<b>32,958</b>	<b>32,707</b>	<b>32,775</b>	<b>33,209</b>	<b>32,943</b>	<b>33,653</b>	<b>34,120</b>
Agriculture and natural resources.....	1,086	1,059	930	991	928	893	971	950	991	1,067	1,079	1,149	1,172	1,213	1,158	1,049
Architecture and environmental design.....	36	58	69	69	82	73	73	96	79	93	80	97	84	89	73	92
Area and ethnic studies.....	144	163	165	165	188	153	145	135	151	162	102	153	139	137	157	132
Business and management.....	807	923	981	1,009	953	863	866	860	792	842	855	809	977	866	969	1,098
Communications.....	145	139	168	162	196	162	179	182	182	171	182	205	215	228	212	273
Communications technologies.....	0	0	7	3	8	9	12	10	11	11	18	9	4	6	11	2
Computer and information sciences.....	128	196	198	213	244	216	196	236	240	252	251	262	251	248	344	374
Education.....	6,403	7,318	7,293	7,446	7,778	7,963	7,595	7,736	7,941	7,900	7,680	7,551	7,473	7,151	7,110	6,909
Engineering.....	3,637	3,473	3,308	3,106	2,819	2,583	2,437	2,500	2,502	2,551	2,621	2,822	2,979	3,221	3,400	3,809
Engineering technologies.....	1	19	4	2	2	3	3	6	5	10	15	9	2	9	10	11
Foreign languages.....	781	991	923	857	864	752	649	641	549	588	536	488	462	437	448	441
Health sciences.....	459	643	568	609	577	538	638	705	771	827	910	1,155	1,163	1,199	1,241	1,213
Home economics.....	123	165	136	156	178	160	203	219	192	247	247	255	279	276	311	297
Law.....	20	37	27	21	76	60	39	46	40	60	22	72	121	105	54	120
Letters.....	1,857	2,170	2,076	1,951	1,884	1,723	1,616	1,504	1,500	1,380	1,313	1,176	1,215	1,239	1,215	1,181
Liberal/general studies.....	11	8	20	16	36	33	55	264	106	23	35	55	48	53	38	29
Library and archival sciences.....	39	102	60	56	71	75	67	70	73	71	64	52	74	87	62	57
Life sciences.....	3,645	3,636	3,439	3,384	3,392	3,397	3,309	3,542	3,636	3,718	3,743	3,341	3,437	3,432	3,358	3,423
Mathematics.....	1,199	1,068	1,031	975	856	823	805	730	724	728	681	698	695	699	742	725
Military sciences.....	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Multi/interdisciplinary studies.....	80	191	176	254	237	271	246	445	295	256	358	387	378	285	319	276
Parks and recreation.....	2	14	25	14	15	15	10	25	21	42	33	33	27	36	39	32
Philosophy and religion.....	554	580	557	544	554	468	444	415	374	410	364	404	442	468	477	422
Theology.....	312	666	768	872	1,033	1,125	1,160	1,232	1,319	1,276	1,288	1,208	1,202	1,140	1,183	1,236
Physical sciences.....	4,390	4,006	3,626	3,626	3,431	3,341	3,133	3,102	3,089	3,141	3,286	3,269	3,306	3,403	3,551	3,672
Psychology.....	1,782	2,089	2,336	2,442	2,581	2,761	2,587	2,662	2,768	2,955	2,780	3,108	2,973	2,908	3,088	3,123
Protective services.....	1	3	3	11	9	10	17	15	18	21	24	38	31	33	21	18
Public affairs.....	185	214	214	271	298	316	385	344	372	388	389	347	421	431	385	398
Social sciences.....	3,659	4,230	4,123	4,209	4,154	3,784	3,583	3,358	3,219	3,114	3,061	2,931	2,911	2,851	2,955	2,916
Visual and performing arts.....	621	616	585	649	620	662	708	700	655	654	670	692	728	693	722	792

<sup>1</sup> Preliminary data

NOTE —Beginning in 1982-83, the taxonomy used to collect data on earned degrees by major field of study was revised. The figures for earlier years have been reclassified when necessary to make them conform to the new taxonomy.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989.)

**Table 208.—Degrees conferred by institutions of higher education, by control of institution: 1973-74 to 1986-87**

Year	Public institutions					Private institutions				
	Associate	Bachelor's	Master's	Doctor's	First-professional <sup>1</sup>	Associate	Bachelor's	Master's	Doctor's	First-professional
1	2	3	4	5	6	7	8	9	10	11
1973-74	303,188	651,544	184,632	21,810	23,208	40,736	294,232	92,401	12,006	30,608
1974-75	318,474	634,785	193,804	22,176	23,612	41,697	288,148	98,646	11,907	32,304
1975-76	345,006	635,161	206,298	21,751	25,766	46,448	290,585	105,473	12,313	36,883
1976-77	355,650	630,463	208,901	21,229	26,344	50,727	289,086	108,263	12,003	38,015
1977-78	358,874	627,903	202,099	20,456	27,097	53,372	293,301	109,521	11,675	39,484
1978-79	346,808	621,866	192,016	20,817	27,785	55,894	299,724	109,063	11,913	41,063
1979-80	344,536	624,084	187,499	20,608	27,942	56,374	305,333	110,582	12,007	42,189
1980-81	352,391	626,452	184,384	20,895	29,128	63,986	308,688	111,355	12,063	42,828
1981-82	366,700	636,475	182,295	20,889	29,611	67,800	316,523	113,251	11,818	42,421
1982-83	—	646,317	176,246	21,186	29,757	—	323,193	113,675	11,589	43,379
1983-84	379,000	646,013	170,693	21,111	29,586	73,000	328,296	113,570	12,068	44,821
1984-85	377,625	652,246	170,000	21,337	30,152	77,087	327,231	116,251	11,606	44,911
1985-86	369,052	658,586	169,903	21,433	29,568	76,995	329,237	118,664	12,220	44,342
1986-87 <sup>2</sup>	358,893	659,240	167,803	21,872	29,346	78,244	332,099	121,754	12,248	43,404

<sup>1</sup> Data are approximations  
<sup>2</sup> Preliminary data.  
 —Data not available

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989)

**Table 209.—Earned degrees conferred by institutions of higher education, by control of institution, level of degree, and discipline division: 1986-87<sup>1</sup>**

Discipline division	Public institutions				Private institutions			
	Associate degrees	Bachelor's degrees	Master's degrees	Doctor's degrees	Associate degrees	Bachelor's degrees	Master's degrees	Doctor's degrees
1	2	3	4	5	6	7	8	9
<b>Total</b>	<b>358,893</b>	<b>659,240</b>	<b>167,803</b>	<b>21,872</b>	<b>78,244</b>	<b>332,099</b>	<b>121,754</b>	<b>12,248</b>
Agriculture and natural resources	5,191	14,437	3,340	1,032	237	554	183	17
Architecture and environmental design	609	6,732	2,098	56	1,053	2,190	1,044	36
Area and ethnic studies	13	1,384	485	57	6	1,956	366	75
Business and management	88,665	155,294	26,243	770	26,512	85,862	41,253	328
Communications	1,245	31,684	2,128	208	345	12,285	1,538	65
Communications technologies	1,629	773	16	0	318	666	255	2
Computer and information sciences	5,424	25,290	4,239	242	3,674	14,374	4,252	132
Education	6,528	67,986	54,187	5,120	781	19,129	21,314	1,789
Engineering	3,364	53,725	14,088	2,446	1,154	20,072	7,993	1,363
Engineering technologies	41,407	13,467	481	11	16,784	5,810	131	0
Foreign languages	351	5,832	1,177	288	75	4,352	569	173
Health sciences	55,766	39,948	11,157	887	6,777	23,258	7,269	326
Home economics	6,079	12,848	1,632	224	3,232	2,094	438	73
Law	1,974	770	334	9	527	408	1,609	111
Letters	465	22,996	4,629	805	43	14,137	1,494	376
Liberal/general studies	98,956	15,148	462	12	9,251	6,217	664	17
Library and archival sciences	109	120	2,953	47	8	19	862	10
Life sciences	840	23,722	3,667	2,412	67	14,392	1,287	1,011
Mathematics	623	10,918	2,602	489	44	5,571	719	236
Military sciences	32	367	83	0	18	16	0	0
Multi/interdisciplinary studies	9,599	12,076	1,475	210	197	4,326	1,566	66
Parks and recreation	491	3,658	424	31	65	449	52	1
Philosophy and religion	30	1,771	285	128	70	4,205	823	294
Theology	5	1	0	0	573	5,709	4,881	1,236
Physical sciences	1,938	13,220	4,163	2,484	121	6,754	1,489	1,188
Psychology	931	26,654	3,810	1,562	80	16,214	4,394	1,561
Protective services	11,612	10,236	661	18	348	2,694	358	0
Public affairs <sup>3</sup>	1,969	8,595	9,897	188	300	3,923	6,702	210
Social sciences	2,321	57,739	6,166	1,672	299	38,446	4,231	1,244
Transportation and maternal moving	1,027	688	12	0	257	955	421	0
Visual and performing arts	9,678	21,161	4,909	484	4,882	15,062	3,597	308

<sup>1</sup> Preliminary data  
<sup>2</sup> Includes 146 degrees not reported by discipline division  
<sup>3</sup> Excludes degrees classified as transportation and maternal moving, which are shown separately.

SOURCE U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989)

Table 210.—Number of institutions of higher education conferring degrees,<sup>1</sup> by level of degree and discipline division: 1986-87

Discipline division	Total number of institutions awarding degrees				Number of public institutions awarding degrees				Number of private institutions awarding degrees			
	Associate degrees	Bachelor's degrees	Master's degrees	Doctor's degrees	Associate degrees	Bachelor's degrees	Master's degrees	Doctor's degrees	Associate degrees	Bachelor's degrees	Master's degrees	Doctor's degrees
	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>2,089</b>	<b>1,788</b>	<b>1,205</b>	<b>453</b>	<b>1,208</b>	<b>645</b>	<b>476</b>	<b>208</b>	<b>693</b>	<b>1,243</b>	<b>729</b>	<b>244</b>
Agriculture and natural resources.....	395	202	104	61	363	148	83	57	32	54	11	4
Architecture and environmental design.....	131	213	117	17	81	117	84	11	50	96	33	6
Area and ethnic studies.....	12	303	91	34	8	131	50	16	4	172	41	16
Business and management.....	1,809	1,313	336	107	1,067	482	338	73	548	831	298	34
Communications.....	222	793	195	42	175	333	135	32	47	480	60	10
Communications technology.....	184	50	14	3	139	19	4	0	25	31	10	3
Computer and information sciences.....	595	1,017	276	78	383	420	177	51	212	597	99	27
Education.....	403	1,193	743	196	311	454	411	133	92	739	332	63
Engineering.....	263	376	246	15C	256	203	162	107	27	173	84	49
Engineering technologies.....	1,092	284	51	4	906	202	39	4	186	82	12	0
Foreign languages.....	63	799	189	74	53	349	130	45	10	450	59	29
Health sciences.....	1,146	916	444	117	906	412	265	84	238	504	179	33
Home economics.....	523	368	160	35	448	227	125	26	75	161	35	9
Law.....	200	95	56	15	154	35	23	5	46	60	33	10
Letters.....	103	1,184	426	139	89	455	292	88	14	729	134	51
Liberal/general studies.....	1,205	527	88	12	905	229	37	7	300	296	51	5
Library and archival sciences.....	39	41	90	19	35	33	68	14	4	8	22	5
Life sciences.....	145	1,212	438	217	128	466	310	143	17	746	128	74
Mathematics.....	137	1,121	333	136	125	482	252	90	12	659	81	46
Military sciences.....	4	9	3	n	2	7	3	0	2	2	0	0
Multi/interdisciplinary studies.....	196	626	191	58	170	279	120	42	28	347	71	16
Parks and recreation.....	90	245	74	14	80	170	85	12	10	75	9	2
Philosophy and religion.....	30	735	171	66	13	259	79	43	17	546	92	43
Theology.....	78	442	227	105	4	2	0	0	74	340	227	105
Physical sciences.....	249	1,084	345	200	221	451	244	132	28	613	101	66
Protective services.....	727	392	102	6	671	224	72	6	56	168	30	0
Psychology.....	143	1,192	449	216	123	449	269	122	20	743	180	94
Public affairs.....	310	959	331	60	258	296	214	32	52	363	117	28
Social sciences.....	212	1,205	430	160	170	478	291	101	42	787	139	59
Visual and performing arts.....	703	1,151	372	91	567	433	233	56	136	718	139	35

<sup>1</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989.)

**Table 211.—First-professional degrees<sup>1</sup> conferred by Institutions of higher education, by sex of student, control of institution, and field of study: 1981-82 to 1986-87**

Control of institution and field of study	1981-82	1982-83	1983-84			1984-85			1985-86			1986-87 <sup>2</sup>		
	Total	Total	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Total, all institutions...</b>	<b>72,032</b>	<b>73,136</b>	<b>74,407</b>	<b>51,334</b>	<b>23,073</b>	<b>75,063</b>	<b>50,455</b>	<b>24,608</b>	<b>73,910</b>	<b>49,261</b>	<b>24,649</b>	<b>72,750</b>	<b>47,460</b>	<b>25,290</b>
Dentistry (D.D.S. or D.M.D.) ..	5,282	5,585	5,353	4,302	1,051	5,339	4,233	1,106	5,046	3,907	1,139	4,741	3,603	1,138
Medicine (M.D.) ..	15,814	15,484	15,813	11,359	4,454	16,041	11,167	4,874	15,938	11,022	4,916	15,620	10,566	5,054
Optometry (O.D.) ..	1,110	1,116	1,086	824	262	1,115	812	303	1,029	744	285	1,082	697	385
Osteopathic medicine (D.O.) ..	1,047	1,319	1,515	1,185	330	1,489	1,136	353	1,547	1,159	388	1,618	1,206	412
Pharmacy (D.Pharm.) ..	625	705	709	332	377	861	430	431	903	432	471	861	351	510
Podiatry (Pod.D. or D.P.) or Podiatric medicine (D.P.M.) ..	598	631	607	530	77	582	464	118	612	488	124	590	468	122
Veterinary medicine (D.V.M.) ..	2,038	2,060	2,269	1,309	960	2,178	1,135	1,043	2,270	1,191	1,079	2,230	1,150	1,080
Chiropractic (D.C. or D.C.M.) ..	2,626	2,889	3,105	2,401	704	2,681	2,072	589	3,395	2,554	841	2,655	1,982	673
Law, general (LL.B. or J.D.) ..	35,991	36,853	37,012	22,362	13,630	37,491	23,070	14,421	35,844	21,874	13,970	36,172	21,643	14,529
Theological professions, general (B.D., M.Div., M.H.L.) ..	6,901	6,494	6,878	5,673	1,205	7,221	5,886	1,335	7,283	5,865	1,418	7,181	5,794	1,387
Other ..	—	—	60	37	23	85	50	35	43	25	18	—	—	—
<b>Total, public institutions...</b>	<b>29,611</b>	<b>29,757</b>	<b>29,586</b>	<b>20,106</b>	<b>9,480</b>	<b>30,152</b>	<b>19,895</b>	<b>10,257</b>	<b>29,568</b>	<b>19,119</b>	<b>10,449</b>	<b>29,346</b>	<b>18,610</b>	<b>10,736</b>
Dentistry (D.D.S. or D.M.D.) ..	3,154	3,438	3,174	2,554	620	3,051	2,414	637	2,827	2,170	657	2,655	2,004	651
Medicine (M.D.) ..	9,706	9,589	9,674	7,013	2,661	10,071	7,126	2,945	9,991	6,908	3,083	9,711	6,839	3,072
Optometry (O.D.) ..	436	427	384	272	112	458	306	150	441	302	139	454	272	182
Osteopathic medicine (D.O.) ..	364	386	537	388	149	455	322	133	486	355	131	480	344	136
Pharmacy (D.Pharm.) ..	328	366	356	164	192	416	198	218	473	219	254	475	196	279
Podiatry (Pod.D. or D.P.) or Podiatric medicine (D.P.M.) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Veterinary medicine (D.V.M.) ..	1,889	1,828	2,060	1,200	860	1,963	1,037	926	1,931	1,008	923	2,003	1,056	947
Chiropractic (D.C. or D.C.M.) ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Law, general (LL.B. or J.D.) ..	13,740	13,743	13,380	8,499	4,881	13,695	8,463	5,232	13,419	8,157	5,262	13,568	8,099	5,469
Theological professions, general (B.D., M.Div., M.H.L.) ..	—	—	—	—	—	2	1	1	—	—	—	—	—	—
Other ..	—	—	21	16	5	43	28	15	—	—	—	—	—	—
<b>Total, private institutions...</b>	<b>42,421</b>	<b>43,379</b>	<b>44,821</b>	<b>31,228</b>	<b>13,593</b>	<b>44,911</b>	<b>30,560</b>	<b>14,351</b>	<b>44,342</b>	<b>30,142</b>	<b>14,200</b>	<b>43,404</b>	<b>28,850</b>	<b>14,554</b>
Dentistry (D.D.S. or D.M.D.) ..	2,128	2,147	2,179	1,748	431	2,288	1,819	469	2,219	1,737	482	2,086	1,599	487
Medicine (M.D.) ..	6,108	5,915	6,139	4,346	1,793	5,970	4,041	1,929	5,947	4,114	1,833	5,909	3,927	1,982
Optometry (O.D.) ..	680	689	702	552	150	659	508	153	588	442	146	622	425	203
Osteopathic medicine (D.O.) ..	683	933	978	797	181	1,034	814	220	1,061	804	237	1,138	862	276
Pharmacy (D.Pharm.) ..	297	339	353	168	185	445	232	213	430	213	217	386	155	231
Podiatry (Pod.D. or D.P.) or podiatric medicine (D.P.M.) ..	598	631	607	530	77	582	464	118	612	488	124	590	468	122
Veterinary medicine (D.V.M.) ..	149	232	206	109	100	215	98	117	339	183	158	227	94	133
Chiropractic (D.C. or D.C.M.) ..	2,626	2,889	3,105	2,401	704	2,661	2,072	589	3,395	2,554	841	2,655	1,982	673
Law, general (LL.B. or J.D.) ..	22,251	23,110	23,632	14,883	8,749	23,796	14,607	9,189	22,425	13,717	8,708	22,604	13,544	9,060
Theological professions, general (B.D., M.Div., M.H.L.) ..	6,901	6,494	6,878	5,673	1,205	7,219	5,885	1,334	7,293	5,865	1,418	7,181	5,794	1,387
Other ..	—	—	39	21	18	42	22	20	43	25	18	—	—	—

<sup>1</sup> Includes degrees which require at least 6 years of college work for completion (including at least 2 years of pre-professional training)

<sup>2</sup> Preliminary data.

—Data not reported or not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)

Table 212.—First-professional degrees conferred in dentistry, medicine, and law, by sex: 1949-50 to 1986-87

Year	Dentistry (DDS or DMD)				Medicine (M.D.)				Law (LL.B. or J.D.)			
	Number of institutions conferring degrees	Degrees conferred			Number of institutions conferring degrees	Degrees conferred			Number of institutions conferring degrees	Degrees conferred		
		Total	Men	Women		Total	Men	Women		Total	Men	Women
1	2	3	4	5	6	7	8	9	10	11	12	13
1949-50.....	40	2,579	2,581	18	72	5,612	5,028	584	(1)	(1)	(1)	(1)
1951-52.....	41	2,918	2,895	23	72	6,201	5,871	330	(1)	(1)	(1)	(1)
1953-54.....	42	3,102	3,063	39	73	6,712	6,377	335	(1)	(1)	(1)	(1)
1955-56.....	42	3,009	2,975	34	73	6,210	6,464	346	131	8,262	7,974	288
1957-58.....	43	3,065	3,031	34	75	6,816	6,469	347	131	9,394	9,122	272
1959-60.....	45	3,247	3,221	26	79	7,032	6,645	387	134	9,240	9,010	230
1961-62.....	46	3,183	3,166	17	81	7,138	6,749	389	134	9,364	9,091	273
1963-64.....	46	3,180	3,168	12	82	7,303	6,878	425	133	10,679	10,372	307
1965-66.....	47	3,178	3,146	32	84	7,673	7,170	503	136	13,246	12,776	470
1967-68.....	48	3,422	3,375	47	85	7,944	7,318	626	138	16,454	15,805	649
1969-70.....	48	3,718	3,684	34	86	8,314	7,615	699	145	14,916	14,115	801
1970-71.....	48	3,745	3,703	42	89	8,919	8,110	809	147	17,421	16,181	1,240
1971-72.....	48	3,862	3,819	43	92	9,253	8,423	830	147	21,764	20,266	1,498
1972-73.....	51	4,047	3,992	55	97	10,307	9,388	919	152	27,205	25,037	2,168
1973-74.....	52	4,440	4,355	85	99	11,356	10,093	1,263	151	29,326	25,986	3,340
1974-75.....	52	4,773	4,627	146	104	12,447	10,818	1,629	154	29,296	24,881	4,415
1975-76.....	56	5,425	5,187	238	107	13,426	11,252	2,174	166	32,293	26,085	6,208
1976-77.....	57	5,138	4,764	374	109	13,461	10,891	2,570	169	34,104	26,447	7,657
1977-78.....	57	5,189	4,623	566	109	14,279	11,210	3,069	169	34,402	25,457	8,945
1978-79.....	58	5,434	4,794	640	109	14,786	11,381	3,405	175	35,206	25,180	10,026
1979-80.....	58	5,258	4,558	700	112	14,902	11,416	3,486	179	35,647	24,893	10,754
1980-81.....	58	5,460	4,672	78	116	15,505	11,672	3,833	176	36,331	24,563	11,768
1981-82.....	59	5,282	4,467	815	119	15,814	11,867	3,947	180	35,991	23,965	12,026
1982-83.....	59	5,585	4,631	954	118	15,484	11,350	4,134	177	36,853	23,550	13,303
1983-84.....	60	5,353	4,302	1,051	119	15,813	11,359	4,454	179	37,012	23,382	13,630
1984-85.....	59	5,339	4,233	1,106	120	16,041	11,167	4,874	181	37,491	23,070	14,421
1985-86.....	59	5,046	3,907	1,139	120	15,938	11,022	4,916	181	35,844	21,874	13,970
1986-87 <sup>2</sup> .....	58	4,741	3,603	1,138	122	15,620	10,566	5,054	180	36,172	21,643	14,529

<sup>1</sup> Data prior to 1955-56 are not shown because they lack comparability with the figures for subsequent years

<sup>2</sup> Preliminary data

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989)



**Table 213.—Associate degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
<b>All fields, total<sup>1</sup></b>	<b>436,308</b>	<b>361,819</b>	<b>35,466</b>	<b>19,345</b>	<b>11,794</b>	<b>3,196</b>	<b>4,688</b>
Men .....	190,841	158,126	13,956	8,764	6,172	1,263	2,560
Women.....	245,467	203,693	21,510	10,581	5,622	1,933	2,128
<b>Agriculture and natural resources, total</b>	<b>5,458</b>	<b>5,149</b>	<b>62</b>	<b>125</b>	<b>27</b>	<b>51</b>	<b>44</b>
Men .....	3,691	3,492	46	61	20	36	36
Women.....	1,767	1,657	16	64	7	15	8
<b>Architecture and environmental design, total</b>	<b>1,665</b>	<b>1,448</b>	<b>56</b>	<b>73</b>	<b>54</b>	<b>4</b>	<b>30</b>
Men .....	229	169	10	23	19	1	7
Women.....	1,436	1,279	46	50	35	3	23
<b>Area and ethnic studies, total</b>	<b>14</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>0</b>
Men .....	6	2	0	1	0	3	0
Women.....	8	1	3	1	0	3	0
<b>Business and management, total</b>	<b>115,231</b>	<b>93,990</b>	<b>11,699</b>	<b>4,694</b>	<b>2,853</b>	<b>811</b>	<b>1,184</b>
Men .....	36,924	30,367	3,479	1,376	997	203	502
Women.....	78,307	63,623	8,220	3,318	1,856	608	682
<b>Communications, total</b>	<b>3,541</b>	<b>2,972</b>	<b>329</b>	<b>124</b>	<b>41</b>	<b>22</b>	<b>53</b>
Men .....	2,065	1,750	190	64	24	9	28
Women.....	1,476	1,222	139	60	17	13	25
<b>Computer and information sciences, total</b>	<b>5,101</b>	<b>7,110</b>	<b>954</b>	<b>415</b>	<b>404</b>	<b>47</b>	<b>171</b>
Men .....	4,791	3,855	415	267	199	20	95
Women.....	4,310	3,255	539	208	205	27	76
<b>Education, total</b>	<b>7,333</b>	<b>5,942</b>	<b>639</b>	<b>414</b>	<b>130</b>	<b>134</b>	<b>74</b>
Men .....	2,113	1,654	222	124	57	33	23
Women.....	5,220	4,288	417	290	73	101	51
<b>Engineering, total</b>	<b>4,539</b>	<b>3,400</b>	<b>261</b>	<b>337</b>	<b>387</b>	<b>28</b>	<b>126</b>
Men .....	4,061	3,060	225	307	332	22	115
Women.....	478	340	36	30	55	6	11
<b>Engineering technologies, total</b>	<b>57,973</b>	<b>47,936</b>	<b>4,019</b>	<b>2,445</b>	<b>2,592</b>	<b>332</b>	<b>649</b>
Men .....	52,860	43,950	3,526	2,247	2,255	298	584
Women.....	5,113	3,986	493	198	337	34	65
<b>Foreign languages, total</b>	<b>421</b>	<b>353</b>	<b>14</b>	<b>22</b>	<b>13</b>	<b>11</b>	<b>8</b>
Men .....	231	203	9	5	5	6	3
Women.....	190	150	5	17	8	5	5
<b>Health professions, total</b>	<b>62,547</b>	<b>53,876</b>	<b>4,878</b>	<b>2,046</b>	<b>1,028</b>	<b>403</b>	<b>316</b>
Men .....	7,214	5,945	599	374	173	51	72
Women.....	55,333	47,931	4,279	1,672	855	352	244
<b>Home economics, total</b>	<b>9,328</b>	<b>7,618</b>	<b>969</b>	<b>396</b>	<b>207</b>	<b>54</b>	<b>64</b>
Men .....	2,738	2,461	131	44	66	17	19
Women.....	6,590	5,157	838	352	141	37	65
<b>Law, total</b>	<b>2,498</b>	<b>2,179</b>	<b>170</b>	<b>94</b>	<b>40</b>	<b>11</b>	<b>4</b>
Men .....	287	216	44	19	3	5	0
Women.....	2,211	1,963	126	75	37	6	4
<b>Letters, total</b>	<b>508</b>	<b>390</b>	<b>35</b>	<b>29</b>	<b>33</b>	<b>6</b>	<b>15</b>
Men .....	158	115	14	8	13	3	5
Women.....	350	275	21	21	20	3	10
<b>Liberal/general studies, total</b>	<b>108,097</b>	<b>89,365</b>	<b>7,885</b>	<b>5,838</b>	<b>2,718</b>	<b>813</b>	<b>1,478</b>
Men .....	46,337	38,103	3,250	2,546	1,263	351	874
Women.....	61,760	51,262	4,635	3,292	1,455	462	654
<b>Library and archival science, total</b>	<b>117</b>	<b>104</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>1</b>
Men .....	19	14	1	2	1	0	1
Women.....	98	90	4	2	2	0	0
<b>Life sciences, total</b>	<b>892</b>	<b>617</b>	<b>105</b>	<b>54</b>	<b>62</b>	<b>18</b>	<b>36</b>
Men .....	397	288	21	30	25	5	28
Women.....	495	329	84	24	37	13	8
<b>Mathematics, total</b>	<b>666</b>	<b>499</b>	<b>39</b>	<b>40</b>	<b>72</b>	<b>4</b>	<b>12</b>
Men .....	418	313	27	22	46	2	8
Women.....	248	186	12	18	26	2	4
<b>Military sciences, total</b>	<b>50</b>	<b>39</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>

**Table 213.—Associate degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87—Continued**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
Men .....	48	37	9	1	0	1	0
Women .....	2	2	0	0	0	0	0
Multi/interdisciplinary studies, total .....	9,794	8,800	399	239	273	33	50
Men .....	4,563	4,057	181	124	154	13	34
Women .....	5,231	4,743	218	115	119	20	16
Parks and recreation, total .....	551	478	38	21	8	0	3
Men .....	278	227	29	12	5	0	5
Women .....	273	251	9	9	3	0	1
Philosophy and religion, total .....	100	90	4	3	1	2	0
Men .....	64	57	2	3	1	1	0
Women .....	36	33	2	0	0	1	0
Physical sciences, total .....	2,061	1,767	104	78	67	6	39
Men .....	1,253	1,080	53	51	36	3	30
Women .....	808	687	51	27	31	3	9
Protective services, total .....	11,910	9,739	1,132	788	134	81	36
Men .....	8,711	7,290	661	579	109	46	26
Women .....	3,199	2,449	471	209	25	35	10
Psychology, total .....	1,014	825	77	67	20	17	8
Men .....	292	233	29	16	6	6	2
Women .....	722	592	48	51	14	11	6
Public affairs, total .....	3,560	2,774	459	141	69	63	54
Men .....	1,548	1,277	129	69	19	14	40
Women .....	2,012	1,497	330	72	50	49	14
Social sciences, total .....	2,584	1,853	304	256	95	52	24
Men .....	1,095	792	155	80	37	18	13
Women .....	1,489	1,061	149	176	58	34	11
Theology, total .....	594	527	34	18	3	1	11
Men .....	355	308	30	11	1	0	5
Women .....	239	219	4	7	2	1	6
Visual and performing arts, total .....	14,161	11,976	784	581	460	185	175
Men .....	8,095	6,811	469	358	306	96	55
Women .....	6,066	5,165	315	223	154	89	120

<sup>1</sup> This tabulation excludes 683 men and 146 women whose racial/ethnic group could not be imputed. Because of imputation methods, field of study totals by race/ethnicity may differ slightly from field of study by sex. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared June 1989.)

**Table 214.—Bachelor's degrees conferred by institutions of higher education, by racial/ethnic group and sex of student: 1976-77 to 1986-87**

Year and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Non-resident alien
1	2	3	4	5	6	7	8
Number of degrees conferred							
<b>1976-77</b>							
Total <sup>1</sup> .....	917,900	807,688	58,636	18,743	13,793	3,326	15,714
Men.....	494,424	438,161	25,147	10,318	7,638	1,804	11,356
Women.....	423,476	369,527	33,489	8,425	6,155	1,522	4,358
<b>1978-79</b>							
Total <sup>2</sup> .....	919,540	802,542	60,246	20,396	15,407	3,410	17,839
Men.....	476,065	418,215	24,859	10,418	8,261	1,736	12,776
Women.....	443,475	384,327	35,587	9,678	7,146	1,674	5,063
<b>1980-81</b>							
Total <sup>3</sup> .....	934,800	807,319	60,673	21,832	18,784	3,593	22,589
Men.....	469,625	406,173	24,511	10,810	10,107	1,700	16,324
Women.....	465,175	401,146	36,162	11,022	8,687	1,893	6,265
<b>1984-85</b>							
Total <sup>4</sup> .....	968,311	826,106	57,473	25,874	25,395	4,246	29,217
Men.....	476,148	405,085	23,018	12,402	13,554	1,998	20,091
Women.....	492,163	421,021	34,455	13,472	11,841	2,248	9,126
<b>1986-87</b>							
Total <sup>5</sup> .....	991,260	841,820	56,555	26,990	32,618	3,971	29,306
Men.....	480,780	406,751	22,499	12,864	17,249	1,819	19,598
Women.....	510,480	435,069	34,056	14,126	15,369	2,152	9,708

Percentage distribution of degrees conferred

<b>1976-77</b>							
Total <sup>1</sup> .....	100.0	88.0	6.4	2.0	1.5	0.4	1.7
Men.....	100.0	88.6	5.1	2.1	1.5	0.4	2.3
Women.....	100.0	87.3	7.9	2.0	1.5	0.4	1.0
<b>1978-79</b>							
Total <sup>2</sup> .....	100.0	87.3	6.6	2.2	1.7	0.4	1.9
Men.....	100.0	87.8	5.2	2.2	1.7	0.4	2.7
Women.....	100.0	86.7	8.0	2.2	1.6	0.4	1.1
<b>1980-81</b>							
Total <sup>3</sup> .....	100.0	86.4	6.5	2.3	2.0	0.4	2.4
Men.....	100.0	86.5	5.2	2.3	2.2	0.4	3.5
Women.....	100.0	86.2	7.8	2.4	1.9	0.4	1.3
<b>1984-85</b>							
Total <sup>4</sup> .....	100.0	85.3	5.9	2.7	2.6	0.4	3.0
Men.....	100.0	85.1	4.8	2.6	2.8	0.4	4.2
Women.....	100.0	85.5	7.0	2.7	2.4	0.5	1.9
<b>1986-87</b>							
Total <sup>5</sup> .....	100.0	84.9	5.7	2.7	3.3	0.4	3.0
Men.....	100.0	84.6	4.7	2.7	3.6	0.4	4.1
Women.....	100.0	85.2	6.7	2.8	3.0	0.4	1.9

<sup>1</sup> Excludes 1,121 men and 528 women whose racial/ethnic group was not available

<sup>2</sup> Excludes 1,279 men and 571 women whose racial/ethnic group was not available

<sup>3</sup> Excludes 258 men and 82 women whose racial/ethnic group was not available

<sup>4</sup> Excludes 6,290 men and 4,786 women whose racial/ethnic group was not available

<sup>5</sup> Excludes 74 men and 5 women whose racial/ethnic group was not available. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989)

**Table 215.—Bachelor's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaska Native	Nonresident alien
1	2	3	4	5	6	7	8
<b>All fields, total</b> .....	<b>991,260</b>	<b>841,820</b>	<b>56,555</b>	<b>26,990</b>	<b>32,618</b>	<b>3,971</b>	<b>29,376</b>
Men .....	480,780	406,751	22,499	12,864	17,249	1,819	19,598
Women .....	510,480	435,069	34,056	14,126	15,369	2,152	9,708
<b>Agriculture and natural resources, total</b> .....	<b>14,991</b>	<b>13,657</b>	<b>299</b>	<b>231</b>	<b>283</b>	<b>58</b>	<b>463</b>
Men .....	10,314	9,406	182	152	161	38	375
Women .....	4,677	4,251	117	79	122	20	88
<b>Architecture and environmental design, total</b> .....	<b>8,950</b>	<b>7,271</b>	<b>277</b>	<b>338</b>	<b>365</b>	<b>25</b>	<b>673</b>
Men .....	5,617	4,501	198	233	208	15	462
Women .....	3,333	2,770	79	105	157	11	211
<b>Area and ethnic studies, total</b> .....	<b>3,307</b>	<b>2,649</b>	<b>201</b>	<b>146</b>	<b>214</b>	<b>29</b>	<b>68</b>
Men .....	1,249	997	85	58	77	9	23
Women .....	2,058	1,652	116	88	137	20	45
<b>Business and management, total</b> .....	<b>241,100</b>	<b>205,118</b>	<b>14,686</b>	<b>6,397</b>	<b>6,002</b>	<b>783</b>	<b>8,114</b>
Men .....	128,920	111,091	6,051	3,251	2,873	400	5,254
Women .....	112,180	94,027	8,635	3,146	3,129	383	2,860
<b>Communications, total</b> .....	<b>45,393</b>	<b>39,493</b>	<b>3,228</b>	<b>1,011</b>	<b>919</b>	<b>132</b>	<b>610</b>
Men .....	18,153	15,941	1,125	402	356	58	271
Women .....	27,240	23,552	2,103	609	563	74	339
<b>Computer and information sciences, total</b> .....	<b>39,590</b>	<b>30,251</b>	<b>2,928</b>	<b>1,077</b>	<b>2,546</b>	<b>116</b>	<b>2,672</b>
Men .....	25,866	20,480	1,329	615	1,542	63	1,837
Women .....	13,724	9,771	1,599	462	1,004	53	835
<b>Education, total</b> .....	<b>87,083</b>	<b>78,216</b>	<b>4,253</b>	<b>2,223</b>	<b>1,092</b>	<b>452</b>	<b>847</b>
Men .....	20,759	18,050	1,348	518	312	124	407
Women .....	66,324	60,166	2,905	1,705	780	328	440
<b>Engineering, total</b> .....	<b>73,839</b>	<b>57,563</b>	<b>2,356</b>	<b>2,007</b>	<b>5,695</b>	<b>214</b>	<b>6,004</b>
Men .....	62,568	48,977	1,638	1,880	4,613	184	5,476
Women .....	11,271	8,586	718	327	1,082	30	528
<b>Engineering technologies, total</b> .....	<b>19,258</b>	<b>15,725</b>	<b>1,145</b>	<b>546</b>	<b>802</b>	<b>75</b>	<b>985</b>
Men .....	17,781	14,631	942	498	734	63	913
Women .....	1,477	1,094	203	48	68	12	52
<b>Foreign languages, total</b> .....	<b>10,197</b>	<b>8,421</b>	<b>321</b>	<b>808</b>	<b>341</b>	<b>24</b>	<b>282</b>
Men .....	2,792	2,287	87	209	140	10	59
Women .....	7,405	6,134	234	599	201	14	223
<b>Health professions, total</b> .....	<b>63,213</b>	<b>55,410</b>	<b>3,822</b>	<b>1,332</b>	<b>1,577</b>	<b>274</b>	<b>798</b>
Men .....	9,177	7,790	481	255	337	46	268
Women .....	54,036	47,620	3,341	1,077	1,240	228	530
<b>Home economics, total</b> .....	<b>14,940</b>	<b>13,072</b>	<b>879</b>	<b>232</b>	<b>423</b>	<b>119</b>	<b>215</b>
Men .....	1,115	909	98	18	46	18	26
Women .....	13,825	12,163	781	214	377	101	189
<b>Law, total</b> .....	<b>1,177</b>	<b>1,074</b>	<b>52</b>	<b>25</b>	<b>22</b>	<b>2</b>	<b>2</b>
Men .....	369	334	14	11	9	1	0
Women .....	808	740	38	14	13	1	2
<b>Letters, total</b> .....	<b>37,132</b>	<b>33,499</b>	<b>1,589</b>	<b>736</b>	<b>780</b>	<b>99</b>	<b>429</b>
Men .....	12,680	11,543	465	242	246	40	144
Women .....	24,452	21,956	1,124	494	534	59	285
<b>Liberal/general studies, total</b> .....	<b>21,366</b>	<b>18,066</b>	<b>1,620</b>	<b>893</b>	<b>356</b>	<b>133</b>	<b>298</b>
Men .....	9,315	7,993	618	305	160	50	189
Women .....	12,051	10,073	1,002	588	196	83	109
<b>Library and archival science, total</b> .....	<b>140</b>	<b>122</b>	<b>9</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>6</b>
Men .....	20	16	0	0	0	0	4
Women .....	120	106	9	3	0	0	2
<b>Life sciences, total</b> .....	<b>38,120</b>	<b>31,279</b>	<b>1,932</b>	<b>1,259</b>	<b>2,620</b>	<b>147</b>	<b>883</b>
Men .....	19,656	18,393	740	657	1,343	79	444
Women .....	18,464	14,886	1,192	602	1,277	68	439
<b>Mathematics, total</b> .....	<b>16,444</b>	<b>13,556</b>	<b>846</b>	<b>269</b>	<b>1,050</b>	<b>53</b>	<b>670</b>
Men .....	8,792	7,216	402	170	540	33	431
Women .....	7,652	6,340	444	99	510	20	239
<b>Military sciences, total</b> .....	<b>384</b>	<b>360</b>	<b>1</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>8</b>

**Table 215.—Bachelor's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87—Continued**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaska Native	Nonresident alien
1	2	3	4	5	6	7	8
Men .....	358	336	1	12	1	1	7
Women.....	26	24	0	1	0	0	1
Multi/interdisciplinary studies, total.....	16,399	13,754	1,074	527	625	101	318
Men .....	7,598	6,451	450	212	284	46	155
Women.....	8,801	7,303	624	315	341	55	163
Parks and recreation, total.....	4,106	3,735	186	60	71	19	35
Men .....	1,636	1,449	105	24	32	9	17
Women.....	2,470	2,286	81	36	39	10	18
Philosophy and religion, total.....	5,984	5,324	233	142	163	11	111
Men .....	3,845	3,393	160	101	106	8	77
Women.....	2,139	1,931	73	41	57	3	34
Physical sciences, total.....	20,071	17,159	844	423	918	74	653
Men .....	14,372	12,505	445	287	615	46	474
Women.....	5,699	4,654	399	136	303	28	179
Protective services, total.....	12,930	10,177	1,930	534	140	53	96
Men .....	7,974	6,521	919	333	98	28	75
Women.....	4,956	3,656	1,011	201	42	25	21
Psychology, total.....	42,835	37,014	2,535	1,401	1,188	186	511
Men .....	13,328	11,540	683	459	417	65	164
Women.....	29,507	25,474	1,852	942	771	121	347
Public affairs, total.....	14,178	11,289	1,822	542	197	127	201
Men .....	4,541	3,683	455	166	66	41	130
Women.....	9,637	7,606	1,367	376	131	86	71
Social sciences, total.....	96,172	81,659	5,942	2,883	2,942	464	2,282
Men .....	53,870	46,493	2,676	1,564	1,448	249	1,440
Women.....	42,302	35,168	3,266	1,319	1,494	215	842
Theology, total.....	5,728	5,236	177	81	92	15	127
Men .....	4,330	3,950	142	63	67	13	95
Women.....	1,398	1,286	35	18	25	2	32
Visual and performing arts, total ..	36,233	31,671	1,368	851	1,194	184	965
Men .....	13,785	11,875	660	369	418	82	381
Women.....	22,448	19,796	708	482	776	102	584

<sup>1</sup> This tabulation excludes 74 men and 5 women whose racial/ethnic group could not be imputed. Because of imputation methods, field of study totals by race/ethnicity may differ slightly from field of study totals by sex of student. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989.)

**Table 216.—Master's degrees conferred by institutions of higher education, by racial/ethnic group and sex of student: 1976-77 to 1986-87**

Year and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Non-resident alien
1	2	3	4	5	6	7	8
<b>1976-77</b>							
Total <sup>1</sup> .....	316,602	266,061	21,037	6,071	5,122	967	17,344
Men .....	167,396	139,210	7,761	3,268	3,123	521	13,493
Women .....	149,206	126,851	13,256	2,803	1,999	446	3,851
<b>1978-79</b>							
Total <sup>2</sup> .....	300,255	249,360	19,416	5,555	5,496	999	19,427
Men .....	152,637	124,058	7,070	2,786	3,325	495	14,903
Women .....	147,616	125,302	12,348	2,769	2,171	504	4,524
<b>1980-81</b>							
Total <sup>3</sup> .....	294,183	241,216	17,133	6,461	6,262	1,034	22,057
Men .....	145,666	115,562	6,158	3,095	3,773	501	16,587
Women .....	148,517	125,654	10,975	3,376	2,509	533	5,470
<b>1984-85</b>							
Total <sup>4</sup> .....	280,421	223,626	13,939	6,864	7,782	1,256	26,952
Men .....	139,417	106,059	5,200	3,059	4,842	583	19,674
Women .....	141,004	117,569	6,739	3,805	2,940	673	7,278
<b>1986-87</b>							
Total <sup>5</sup> .....	269,341	228,670	13,867	7,044	6,558	1,104	29,898
Men .....	141,264	105,573	5,151	3,330	5,238	517	21,455
Women .....	148,077	123,297	6,716	3,714	3,320	587	6,443

<sup>1</sup> Excludes 387 men and 175 women whose racial/ethnic group was not available

<sup>2</sup> Excludes 733 men and 91 women whose racial/ethnic group was not available

<sup>3</sup> Excludes 1,377 men and 179 women whose racial/ethnic group was not available

<sup>4</sup> Excludes 3,973 men and 1,857 women whose racial/ethnic group was not available

<sup>5</sup> Excludes 99 men and 117 women whose racial/ethnic group was not available. Data are preliminary

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completons" survey. (This table was prepared June 1989.)

Table 217.—Master's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
<b>All fields, total<sup>1</sup></b> .....	<b>289,341</b>	<b>228,870</b>	<b>13,867</b>	<b>7,044</b>	<b>8,558</b>	<b>1,104</b>	<b>29,698</b>
Men.....	141,264	105,573	5,151	3,330	5,238	517	21,455
Women.....	148,077	123,297	8,716	3,714	3,320	587	8,443
<b>Agriculture and natural resources, total</b> .....	<b>3,521</b>	<b>2,536</b>	<b>79</b>	<b>44</b>	<b>58</b>	<b>6</b>	<b>798</b>
Men.....	2,460	1,680	63	30	36	4	647
Women.....	1,061	856	16	14	22	2	151
<b>Architecture and environmental design, total</b> .....	<b>3,164</b>	<b>2,250</b>	<b>77</b>	<b>93</b>	<b>92</b>	<b>8</b>	<b>644</b>
Men.....	2,086	1,419	48	68	57	7	487
Women.....	1,078	831	29	25	35	1	157
<b>Area and ethnic studies, total</b> .....	<b>853</b>	<b>585</b>	<b>39</b>	<b>53</b>	<b>38</b>	<b>5</b>	<b>133</b>
Men.....	457	310	10	30	25	4	78
Women.....	396	275	29	23	13	1	55
<b>Business and management, total</b> .....	<b>67,504</b>	<b>53,582</b>	<b>2,810</b>	<b>1,437</b>	<b>2,304</b>	<b>170</b>	<b>7,201</b>
Men.....	45,219	35,505	1,637	954	1,531	112	5,480
Women.....	22,285	18,077	1,173	483	773	58	1,721
<b>Communications, total</b> .....	<b>3,892</b>	<b>3,072</b>	<b>225</b>	<b>70</b>	<b>79</b>	<b>12</b>	<b>434</b>
Men.....	1,589	1,233	83	31	29	5	208
Women.....	2,303	1,839	142	39	50	7	226
<b>Computer and information sciences, total</b> .....	<b>8,481</b>	<b>5,053</b>	<b>222</b>	<b>132</b>	<b>834</b>	<b>23</b>	<b>2,217</b>
Men.....	5,985	3,475	136	98	561	20	1,695
Women.....	2,496	1,578	86	34	273	3	522
<b>Education, total</b> .....	<b>75,473</b>	<b>64,492</b>	<b>5,250</b>	<b>2,232</b>	<b>724</b>	<b>376</b>	<b>2,399</b>
Men.....	19,835	16,431	1,127	601	232	120	1,124
Women.....	55,838	48,061	4,123	1,631	492	256	1,275
<b>Engineering, total</b> .....	<b>22,046</b>	<b>13,343</b>	<b>419</b>	<b>521</b>	<b>1,715</b>	<b>39</b>	<b>6,009</b>
Men.....	19,279	11,399	328	450	1,513	33	5,556
Women.....	2,767	1,944	91	71	202	6	453
<b>Engineering technologies, total</b> .....	<b>612</b>	<b>405</b>	<b>30</b>	<b>8</b>	<b>42</b>	<b>25</b>	<b>102</b>
Men.....	529	343	23	6	39	25	93
Women.....	83	62	7	2	3	0	9
<b>Foreign languages, total</b> .....	<b>1,745</b>	<b>1,179</b>	<b>29</b>	<b>162</b>	<b>36</b>	<b>4</b>	<b>335</b>
Men.....	516	351	9	42	8	3	103
Women.....	1,229	828	20	120	28	1	232
<b>Health professions, total</b> .....	<b>16,421</b>	<b>15,724</b>	<b>856</b>	<b>378</b>	<b>489</b>	<b>62</b>	<b>912</b>
Men.....	3,885	3,048	139	72	152	12	462
Women.....	14,536	12,676	717	306	337	50	450
<b>Home economics, total</b> .....	<b>2,069</b>	<b>1,731</b>	<b>90</b>	<b>25</b>	<b>49</b>	<b>17</b>	<b>157</b>
Men.....	256	206	12	3	5	3	27
Women.....	1,813	1,525	78	22	44	14	130
<b>Law, total</b> .....	<b>1,944</b>	<b>1,100</b>	<b>44</b>	<b>50</b>	<b>78</b>	<b>4</b>	<b>668</b>
Men.....	1,423	809	26	30	53	3	502
Women.....	521	291	18	20	25	1	166
<b>Letters, total</b> .....	<b>6,125</b>	<b>5,149</b>	<b>141</b>	<b>89</b>	<b>130</b>	<b>20</b>	<b>596</b>
Men.....	2,142	1,774	38	37	43	9	241
Women.....	3,983	3,375	103	52	87	11	355
<b>Liberal/general studies, total</b> .....	<b>1,129</b>	<b>1,038</b>	<b>19</b>	<b>10</b>	<b>12</b>	<b>8</b>	<b>42</b>
Men.....	459	428	3	1	5	1	21
Women.....	670	610	16	9	7	7	21
<b>Library and archival science, total</b> .....	<b>3,814</b>	<b>3,318</b>	<b>146</b>	<b>48</b>	<b>93</b>	<b>9</b>	<b>200</b>
Men.....	796	679	25	14	21	1	56
Women.....	3,018	2,639	121	34	72	8	144
<b>Life sciences, total</b> .....	<b>4,950</b>	<b>3,944</b>	<b>175</b>	<b>86</b>	<b>198</b>	<b>11</b>	<b>536</b>
Men.....	2,538	2,038	84	40	89	4	283
Women.....	2,412	1,906	91	46	109	7	253
<b>Mathematics, total</b> .....	<b>3,319</b>	<b>2,113</b>	<b>76</b>	<b>55</b>	<b>193</b>	<b>3</b>	<b>879</b>
Men.....	2,022	1,247	47	39	116	1	572
Women.....	1,297	866	29	16	77	2	307
<b>Military sciences, total</b> .....	<b>119</b>	<b>90</b>	<b>8</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>

**Table 217.—Master's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87— Continued**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
Men .....	118	101	7	5	0	0	5
Women.....	1	0	1	0	0	0	0
Multi/interdisciplinary studies, total.....	3,035	2,585	114	55	66	31	184
Men .....	1,762	1,491	60	26	34	21	130
Women.....	1,273	1,094	54	29	32	10	54
Parks and recreation, total.....	475	414	25	3	14	1	18
Men .....	212	183	7	2	7	1	12
Women.....	263	231	18	1	7	0	6
Philosophy and religion, total.....	1,109	894	41	29	29	3	113
Men .....	698	541	30	20	25	2	80
Women.....	411	353	11	9	4	1	33
Physical sciences, total .....	5,630	4,062	84	116	241	9	1,118
Men .....	4,220	3,023	48	85	174	7	883
Women.....	1,410	1,039	36	31	67	2	235
Protective services, total .....	1,019	808	140	15	10	8	38
Men .....	719	586	80	10	5	7	31
Women.....	300	222	60	5	5	1	7
Psychology, total .....	8,124	7,093	398	243	120	37	233
Men .....	2,828	2,471	123	91	35	13	95
Women .....	5,296	4,622	275	152	85	24	138
Public affairs, total.....	17,029	13,645	1,553	610	313	135	773
Men .....	6,189	4,696	517	263	146	52	515
Women.....	10,840	8,949	1,036	347	167	83	258
Social sciences, total.....	10,395	7,441	416	245	250	23	2,020
Men .....	6,293	4,316	226	154	152	17	1,428
Women.....	4,102	3,125	190	91	98	6	592
Theology, total.....	4,841	4,108	121	88	112	8	404
Men .....	3,193	2,658	86	63	70	6	310
Women.....	1,648	1,450	35	25	42	2	94
Visual and performing arts, total .....	8,503	7,105	240	142	239	47	730
Men .....	3,756	3,132	129	65	75	24	331
Women.....	4,747	3,973	111	77	164	23	399

<sup>1</sup> This tabulation excludes 99 men and 117 women whose racial/ethnic group could not be imputed. Because of imputation methods, field of study totals by race/ethnicity may differ slightly from field of study totals by sex of student. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completers" survey. (This table was prepared June 1989.)



**Table 218.—Doctor's degrees<sup>1</sup> conferred by institutions of higher education, by racial/ethnic group and sex of student: 1976-77 to 1986-87**

Year and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Non-resident alien
1	2	3	4	5	6	7	8
<b>1976-77</b>							
Total <sup>2</sup> .....	33,126	26,851	1,253	522	658	95	3,747
Men.....	25,036	20,032	766	383	540	67	3,248
Women.....	8,090	6,819	487	139	118	28	499
<b>1978-79</b>							
Total <sup>3</sup> .....	32,675	26,138	1,268	439	811	104	3,915
Men.....	23,488	18,433	734	294	646	69	3,312
Women.....	9,187	7,705	534	145	165	35	603
<b>1980-81</b>							
Total <sup>4</sup> .....	32,839	25,908	1,265	456	877	130	4,203
Men.....	22,595	17,310	694	277	655	95	3,564
Women.....	10,244	8,598	571	179	222	35	639
<b>1984-85</b>							
Total <sup>5</sup> .....	32,307	23,934	1,154	677	1,106	119	5,317
Men.....	21,296	15,017	561	431	802	64	4,421
Women.....	11,011	8,917	593	246	304	55	896
<b>1986-87</b>							
Total <sup>6</sup> .....	34,033	24,435	1,060	750	1,097	104	6,587
Men.....	22,059	14,813	488	439	795	58	5,466
Women.....	11,974	9,622	572	311	302	46	1,121

<sup>1</sup> Includes Ph D, Ed.D, and comparable degrees at the doctoral level. Excludes first-professional degrees.

<sup>2</sup> Excludes 106 men whose racial/ethnic group was not available.

<sup>3</sup> Excludes 53 men and 2 women whose racial/ethnic group was not available.

<sup>4</sup> Excludes 116 men and 3 women whose racial/ethnic group was not available.

<sup>5</sup> Excludes 404 men and 232 women whose racial/ethnic group was not available.

<sup>6</sup> Excludes 40 men and 47 women whose racial/ethnic group was not available. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared June 1989.)

**Table 219.—Doctor's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
<b>All fields, total</b> .....	<b>34,033</b>	<b>24,435</b>	<b>1,060</b>	<b>750</b>	<b>1,097</b>	<b>104</b>	<b>6,587</b>
Men.....	22,059	14,813	488	439	795	58	5,466
Women.....	11,974	9,622	572	311	302	46	1,121
<b>Agriculture and natural resources, total</b> .....	<b>1,048</b>	<b>650</b>	<b>18</b>	<b>15</b>	<b>32</b>	<b>2</b>	<b>331</b>
Men.....	871	526	13	12	28	2	290
Women.....	177	124	5	3	4	0	41
<b>Architecture and environmental design, total</b> .....	<b>92</b>	<b>45</b>	<b>7</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>39</b>
Men.....	66	28	4	0	1	0	33
Women.....	26	17	3	0	0	0	6
<b>Area and ethnic studies, total</b> .....	<b>132</b>	<b>99</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>22</b>
Men.....	73	54	2	2	1	1	13
Women.....	59	45	5	0	0	0	9
<b>Business and management, total</b> .....	<b>1,094</b>	<b>688</b>	<b>29</b>	<b>10</b>	<b>50</b>	<b>2</b>	<b>315</b>
Men.....	836	473	21	6	46	1	289
Women.....	258	215	8	4	4	1	26
<b>Communications, total</b> .....	<b>280</b>	<b>209</b>	<b>17</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>42</b>
Men.....	163	116	7	7	0	0	33
Women.....	117	93	10	4	1	0	9
<b>Computer and information sciences, total</b> .....	<b>374</b>	<b>219</b>	<b>2</b>	<b>6</b>	<b>20</b>	<b>1</b>	<b>126</b>
Men.....	322	178	1	5	16	1	121
Women.....	52	41	1	1	4	0	5
<b>Education, total</b> .....	<b>6,909</b>	<b>5,495</b>	<b>468</b>	<b>207</b>	<b>104</b>	<b>49</b>	<b>586</b>
Men.....	3,117	2,412	177	87	59	25	357
Women.....	3,792	3,083	291	120	45	24	229
<b>Engineering, total</b> .....	<b>3,907</b>	<b>1,672</b>	<b>29</b>	<b>68</b>	<b>258</b>	<b>3</b>	<b>1,777</b>
Men.....	3,546	1,502	26	65	240	3	1,710
Women.....	261	170	3	3	18	0	67
<b>Engineering technologies, total</b> .....	<b>11</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>
Men.....	9	3	1	0	0	0	5
Women.....	2	2	0	0	0	0	0
<b>Foreign languages, total</b> .....	<b>441</b>	<b>300</b>	<b>16</b>	<b>42</b>	<b>4</b>	<b>0</b>	<b>79</b>
Men.....	184	117	7	11	2	0	47
Women.....	257	183	9	31	2	0	32
<b>Health professions, total</b> .....	<b>1,213</b>	<b>932</b>	<b>33</b>	<b>17</b>	<b>40</b>	<b>3</b>	<b>188</b>
Men.....	584	406	8	10	23	1	116
Women.....	649	526	25	7	17	2	72
<b>Home economics, total</b> .....	<b>297</b>	<b>225</b>	<b>23</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>37</b>
Men.....	65	49	2	1	1	0	12
Women.....	232	176	21	5	5	0	25
<b>Law, total</b> .....	<b>120</b>	<b>71</b>	<b>3</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>27</b>
Men.....	79	42	1	12	0	0	24
Women.....	41	29	2	7	0	0	3
<b>Letters, total</b> .....	<b>1,181</b>	<b>950</b>	<b>28</b>	<b>26</b>	<b>21</b>	<b>6</b>	<b>150</b>
Men.....	515	405	6	17	5	3	79
Women.....	666	545	22	9	16	3	71
<b>Liberal/general studies, total</b> .....	<b>29</b>	<b>22</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>
Men.....	14	11	0	0	0	0	3
Women.....	15	11	2	1	0	0	1
<b>Library and archival science, total</b> .....	<b>57</b>	<b>43</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>10</b>
Men.....	19	13	0	0	2	1	3
Women.....	38	30	1	0	0	0	7
<b>Life sciences, total</b> .....	<b>3,417</b>	<b>2,624</b>	<b>53</b>	<b>59</b>	<b>149</b>	<b>5</b>	<b>527</b>
Men.....	2,223	1,703	30	36	83	4	367
Women.....	1,194	921	23	23	66	1	160
<b>Mathematics, total</b> .....	<b>723</b>	<b>349</b>	<b>9</b>	<b>9</b>	<b>37</b>	<b>1</b>	<b>318</b>
Men.....	598	285	8	7	24	1	273
Women.....	125	64	1	2	13	0	45
<b>Military sciences, total</b> .....	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 219.—Doctor's degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1983-87—Continued**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
Men.....	0	0	0	0	0	0	0
Women.....	0	0	0	0	0	0	0
Multi/interdisciplinary studies, total..	276	215	2	8	4	1	46
Men.....	174	127	1	5	2	0	39
Women.....	102	88	1	3	2	1	7
Parks and recreation, total.....	33	28	2	0	0	0	3
Men.....	20	17	0	0	0	0	3
Women.....	13	11	2	0	0	0	0
Philosophy and religion, total.....	420	346	7	5	9	0	53
Men.....	329	266	6	5	6	0	46
Women.....	91	80	1	0	3	0	7
Physical sciences, total.....	3,671	2,441	26	60	166	3	975
Men.....	3,038	1,985	22	43	129	3	856
Women.....	633	456	4	17	37	0	119
Protective services, total.....	19	15	0	0	3	0	1
Men.....	16	14	0	0	2	0	0
Women.....	3	1	0	0	1	0	1
Psychology, total.....	3,056	2,725	97	71	51	16	96
Men.....	1,427	1,289	35	23	22	6	52
Women.....	1,629	1,436	62	48	29	10	44
Public affairs, total.....	397	292	34	18	0	2	45
Men.....	215	146	16	16	2	2	33
Women.....	182	146	18	2	4	0	12
Social sciences, total.....	2,915	2,051	95	68	77	4	620
Men.....	2,026	1,328	57	50	59	2	530
Women.....	889	723	38	18	18	2	90
Theology, total.....	1,230	1,020	39	11	37	2	101
Men.....	1,103	931	34	11	36	2	89
Women.....	127	109	5	0	1	0	12
Visual and performing arts, total.....	791	684	12	1	18	2	64
Men.....	447	387	3	8	6	0	43
Women.....	344	297	9	3	12	2	21

<sup>1</sup> This tabulation excludes 40 men and 47 women whose racial/ethnic group could not be imputed. Because of imputation methods, field of study totals by race/ethnicity may differ slightly from field of study totals by sex of student. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (table was prepared June 1989).

**Table 220.—First-professional degrees conferred by institutions of higher education, by racial/ethnic group, major field of study, and sex of student: 1986-87**

Major field of study and sex of student	Total	White non-Hispanic	Black non-Hispanic	Hispanic	Asian or Pacific Islander	American Indian/Alaskan Native	Nonresident alien
1	2	3	4	5	6	7	8
<b>All fields, total</b> <sup>1</sup> .....	71,617	62,668	3,420	2,051	2,270	304	884
Men.....	46,522	41,149	1,835	1,303	1,420	183	632
Women.....	25,095	21,539	1,585	748	850	121	252
<b>Dentistry (D.D.S. or D.M.D.), total</b> .....	4,739	3,856	262	169	319	13	120
Men.....	3,602	3,006	169	120	218	11	78
Women.....	1,137	850	93	49	101	2	42
<b>Medicine (M.D.), total</b> .....	15,429	13,137	786	484	805	66	151
Men.....	10,431	9,003	437	319	534	36	102
Women.....	4,998	4,134	349	165	271	30	49
<b>Optometry (O.D.), total</b> .....	1,082	943	18	29	74	4	14
Men.....	697	625	8	20	33	3	8
Women.....	385	318	10	9	41	1	6
<b>Osteopathic medicine (D.O.), total</b> .....	1,618	1,498	26	25	45	13	11
Men.....	1,206	1,132	7	17	31	10	9
Women.....	412	366	19	8	14	3	2
<b>Pharmacy (D.Pharm.), total</b> .....	861	531	112	42	110	6	60
Men.....	351	236	37	16	27	6	29
Women.....	510	295	75	26	83	0	31
<b>Podiatry (Pod.D. or D.P.) or podiatric medicine (D.P.M.), total</b> .....	591	521	33	11	12	2	12
Men.....	468	423	18	8	8	2	9
Women.....	123	98	15	3	4	0	3
<b>Veterinary medicine (D.V.M.), total</b> .....	2,230	2,052	29	90	24	31	4
Men.....	1,150	1,035	12	73	11	16	3
Women.....	1,080	1,017	17	17	13	15	1
<b>Chiropractic medicine (D.C. or D.C.M.), total</b> .....	2,493	2,298	26	39	30	4	96
Men.....	1,864	1,723	16	28	25	3	69
Women.....	629	575	10	11	5	1	27
<b>Law, general (LL.B. or J.D.), total</b> .....	36,056	32,242	1,735	1,054	694	152	179
Men.....	21,561	19,578	822	610	393	84	124
Women.....	14,495	12,714	913	444	301	68	55
<b>Theological professions, general (B.D., M.Div., Rabbi), total</b> .....	6,518	5,610	393	108	157	13	237
Men.....	5,192	4,438	309	92	140	12	201
Women.....	1,326	1,172	84	16	17	1	38

<sup>1</sup> This tabulation excludes 938 men and 195 women whose racial/ethnic group could not be imputed. Because of imputation methods, field of study totals by race/ethnicity may differ slightly from field of study by sex. Data are preliminary.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989).

**Table 221.—Earned degrees in agriculture and natural resources<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71	12,672	12,136	536	2,457	2,313	144	1,086	1,055	31
1971-72	13,516	12,779	737	2,680	2,490	190	971	945	26
1972-73	14,756	13,661	1,095	2,807	2,588	219	1,059	1,031	28
1973-74	16,253	14,684	1,569	2,929	2,640	288	930	897	33
1974-75	17,528	15,061	2,467	3,067	2,703	364	991	958	33
1975-76	19,402	15,845	3,557	3,340	2,862	478	928	867	61
1976-77	21,467	16,690	4,777	3,724	3,177	547	893	831	62
1977-78	22,650	17,069	5,581	4,023	3,268	755	971	909	62
1978-79	23,134	16,854	6,280	3,994	3,187	807	950	877	73
1979-80	22,802	16,045	6,757	3,976	3,082	894	991	879	112
1980-81	21,886	15,154	6,732	4,003	3,081	942	1,067	940	127
1981-82	21,029	14,443	6,586	4,163	3,114	1,049	1,079	925	154
1982-83	20,909	14,085	6,824	4,254	3,129	1,125	1,149	1,004	145
1983-84	19,317	13,206	6,111	4,178	2,989	1,189	1,112	1,001	171
1984-85	18,107	12,477	5,630	3,928	2,846	1,082	1,213	1,036	177
1985-86	16,823	11,544	5,279	3,801	2,701	1,100	1,158	966	192
1986-87 <sup>2</sup>	14,991	10,314	4,677	3,523	2,461	1,062	1,049	871	178

<sup>1</sup>Includes degrees in agribusiness and agricultural production, agricultural sciences, and renewable natural resources

<sup>2</sup>Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS) "Completions" survey (This table was prepared June 1989)

**Table 222.—Earned degrees in architecture and environmental design<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50.....	2,563	2,441	122	166	159	7	1	1	—
1951-52.....	2,210	2,098	112	240	230	10	—	—	—
1953-54.....	1,623	1,531	92	158	147	11	3	1	2
1955-56.....	1,443	1,373	70	199	182	17	2	2	—
1957-58.....	1,812	1,536	76	231	216	15	5	5	—
1959-60.....	1,801	1,744	57	319	305	14	17	17	—
1961-62.....	1,774	1,719	55	311	296	15	1	1	—
1963-64.....	2,059	1,981	78	383	366	17	3	3	—
1965-66.....	2,663	2,561	102	702	661	41	12	11	1
1967-68.....	3,057	2,931	126	1,021	953	68	15	15	—
1969-70.....	4,105	3,888	217	1,427	1,260	167	35	33	2
1970-71.....	5,570	4,906	664	1,705	1,469	236	36	33	3
1971-72.....	6,440	5,667	773	1,899	1,626	273	50	43	7
1972-73.....	6,962	6,042	920	2,307	1,943	364	58	54	4
1973-74.....	7,822	6,695	1,157	2,702	2,208	494	69	65	4
1974-75.....	8,226	6,791	1,435	2,938	2,343	595	69	58	11
1975-76.....	9,145	7,396	1,750	3,215	2,545	670	62	69	13
1976-77.....	9,222	7,249	1,973	3,213	2,489	724	73	62	11
1977-78.....	9,250	7,054	2,196	3,115	2,304	811	73	57	16
1978-79.....	9,273	6,876	2,397	3,113	2,226	887	96	74	22
1979-80.....	9,132	6,596	2,536	3,139	2,245	894	79	66	13
1980-81.....	9,455	6,800	2,655	3,153	2,234	919	93	73	20
1981-82.....	9,728	6,825	2,903	3,327	2,242	1,085	80	58	22
1982-83.....	9,823	6,403	3,420	3,357	2,224	1,133	97	74	23
1983-84.....	9,186	5,895	3,291	3,223	2,197	1,026	84	62	22
1984-85.....	9,325	6,019	3,306	3,275	2,146	1,127	89	66	23
1985-86.....	9,119	5,824	3,295	3,260	2,129	1,131	73	56	17
1986-87 <sup>2</sup> .....	8,922	5,590	3,332	3,142	2,073	1,069	92	66	26

<sup>1</sup> Prior to 1965-66, includes degrees in architecture. From 1965-66, includes degrees in environmental design, general architecture, interior design, landscape architecture, urban architecture, city, community, and regional planning, and other architecture and environmental design.

<sup>2</sup> Preliminary data  
—Data not reported

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and re-

ported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared May 1989.)

**Table 223.—Earned degrees in business and management conferred by institutions of higher education, by level of degree and sex of student: 1955-56 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1955-56.....	42,813	38,706	4,107	3,280	3,118	162	129	127	2
1957-58.....	51,991	48,063	3,928	4,223	4,072	151	110	105	5
1959-60.....	52,110	48,265	3,845	4,814	4,845	169	138	136	2
1961-62.....	52,139	48,236	3,903	5,401	5,221	180	232	227	5
1963-64.....	59,198	54,692	4,506	6,513	6,310	203	281	274	7
1965-66.....	63,639	58,376	5,263	13,142	12,806	338	402	385	17
1967-68.....	80,138	73,147	6,991	18,048	17,431	617	456	442	14
1969-70.....	105,580	96,346	9,234	21,561	20,792	769	820	610	10
1970-71.....	114,865	104,404	10,461	26,481	25,443	1,038	807	784	23
1971-72.....	121,360	109,776	11,584	30,367	29,166	1,201	896	878	20
1972-73.....	126,263	112,097	13,366	31,007	29,481	1,526	923	871	52
1973-74.....	131,766	114,850	16,916	32,644	30,491	2,153	981	931	50
1974-75.....	133,010	111,411	21,599	36,247	33,185	3,062	1,009	968	41
1975-78.....	142,379	114,267	28,112	42,512	37,559	4,953	953	901	52
1976-77.....	150,964	115,526	35,438	46,420	39,766	6,654	863	809	54
1977-78.....	160,187	116,579	43,608	48,326	40,150	8,176	866	794	72
1978-79.....	171,784	119,227	52,557	50,372	40,701	9,671	860	760	100
1979-80.....	185,361	122,897	62,464	55,006	42,722	12,284	792	677	115
1980-81.....	199,338	125,795	73,543	57,898	43,394	14,504	842	717	125
1981-82.....	214,001	129,668	84,333	61,299	44,243	17,056	855	704	151
1982-83.....	226,893	131,716	95,175	65,319	46,441	18,862	809	673	136
1983-84.....	230,031	129,909	100,122	66,653	46,561	20,088	977	775	202
1984-85.....	233,351	128,032	105,319	67,527	46,624	20,903	866	718	148
1985-86.....	238,160	129,271	108,889	67,137	46,283	20,854	969	759	210
1986-87 <sup>1</sup> .....	241,156	128,958	112,198	67,496	45,211	22,285	1,098	339	259

<sup>1</sup> Preliminary data.

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989).

**Table 224.—Earned degrees in communications<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71.....	10,802	6,989	3,813	1,856	1,214	642	145	126	19
1971-72.....	12,340	7,984	4,376	2,200	1,443	757	111	96	15
1972-73.....	14,317	9,074	5,243	2,406	1,546	860	139	114	25
1973-74.....	17,096	10,536	6,560	2,840	1,668	972	175	146	29
1974-75.....	19,248	11,455	7,793	2,794	1,618	1,176	165	119	46
1975-78.....	21,282	12,458	8,824	3,126	1,818	1,308	204	154	50
1976-77.....	23,214	12,932	10,282	3,091	1,719	1,372	171	130	41
1977-78.....	25,400	13,480	11,920	3,296	1,673	1,623	191	138	53
1978-79.....	26,457	13,266	13,191	2,882	1,483	1,399	192	138	54
1979-80.....	28,616	13,656	14,960	3,082	1,527	1,555	193	121	72
1980-81.....	31,282	14,179	17,103	3,105	1,448	1,657	182	107	75
1981-82.....	34,222	14,917	19,305	3,327	1,578	1,749	200	136	64
1982-83.....	38,602	16,185	22,417	3,604	1,661	1,943	214	128	88
1983-84.....	40,165	16,847	23,518	3,656	1,600	2,056	219	131	88
1984-85.....	42,083	17,238	24,845	3,669	1,576	2,093	234	143	91
1985-86.....	43,091	17,647	25,444	3,823	1,610	2,213	223	116	107
1986-87 <sup>2</sup> .....	45,408	18,155	27,253	3,937	1,606	2,331	275	158	117

<sup>1</sup> Includes degrees in communications, general, journalism, radio-television, advertising, communications media, and other communications.

<sup>2</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989).

**Table 225.—Earned degrees in computer and information sciences<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71 .....	2,388	2,064	324	1,588	1,424	164	128	125	3
1971-72 .....	3,402	2,941	461	1,977	1,752	225	167	155	12
1972-73 .....	4,304	3,664	640	2,113	1,888	225	196	181	15
1973-74 .....	4,756	3,976	780	2,276	1,983	293	198	189	9
1974-75 .....	5,033	4,080	953	2,299	1,961	338	213	199	14
1975-76 .....	5,652	4,534	1,118	2,603	2,226	377	244	221	23
1976-77 .....	6,407	4,876	1,531	2,798	2,332	466	216	197	19
1977-78 .....	7,201	5,349	1,852	3,038	2,471	567	196	181	15
1978-79 .....	8,719	6,272	2,447	3,055	2,480	575	236	206	30
1979-80 .....	11,154	7,782	3,372	3,647	2,883	764	240	213	27
1980-81 .....	15,121	10,202	4,919	4,218	3,247	971	252	227	25
1981-82 .....	20,267	13,218	7,049	4,935	3,625	1,310	251	230	21
1982-83 .....	24,510	15,606	8,904	5,321	3,813	1,508	262	228	34
1983-84 .....	32,172	20,246	11,926	6,190	4,379	1,811	251	225	26
1984-85 .....	38,878	24,579	14,299	7,101	5,064	2,037	248	223	25
1985-86 .....	41,889	26,923	14,966	8,070	5,658	2,412	344	299	45
1986-87 <sup>2</sup> .....	39,664	25,929	13,735	8,491	5,995	2,496	374	322	52

<sup>1</sup> Includes degrees in computer and information sciences, general, information sciences and systems, data processing, computer programming, systems analysis, and other information sciences

<sup>2</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989.)



**Table 226.—Earned degrees in education conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50	81,472	31,398	30,074	20,069	12,025	8,044	953	797	156
1951-52	82,875	24,538	38,137	26,382	15,194	11,188	1,146	954	192
1953-54	56,275	18,754	39,521	27,785	15,423	12,362	1,498	1,237	261
1955-56	89,928	19,882	50,244	30,127	16,002	14,125	1,583	1,301	282
1957-58	82,274	25,423	56,851	31,112	16,479	14,633	1,638	1,297	341
1959-60	89,421	25,838	63,583	33,512	18,126	15,386	1,580	1,281	309
1961-62	96,954	26,015	70,939	35,932	19,838	16,094	1,900	1,537	363
1963-64	112,209	28,654	85,555	40,895	21,864	18,831	2,348	1,892	456
1965-66	117,185	28,819	88,366	50,430	25,818	24,814	3,063	2,461	602
1967-68	134,905	32,492	102,413	63,503	30,798	32,705	4,079	3,249	830
1969-70	165,453	41,347	124,106	79,349	35,451	43,898	5,894	4,898	1,196
1970-71	178,814	45,094	131,520	88,952	38,977	49,975	8,403	5,045	1,358
1971-72	191,220	49,537	141,683	98,143	41,818	56,327	7,044	5,384	1,660
1972-73	194,229	51,441	142,788	105,565	44,128	61,437	7,318	5,504	1,814
1973-74	185,225	49,160	138,065	112,610	45,124	67,486	7,293	5,318	1,977
1974-75	187,015	44,557	122,458	120,169	45,421	74,748	7,446	5,147	2,299
1975-76	154,807	42,070	112,737	128,417	45,796	82,621	7,778	5,179	2,599
1976-77	143,722	39,941	103,781	126,825	43,288	83,537	7,963	5,189	2,774
1977-78	136,141	37,484	98,657	119,038	38,413	80,825	7,595	4,634	2,961
1978-79	126,109	33,819	92,290	111,995	35,143	78,852	7,738	4,472	3,264
1979-80	118,189	30,922	87,247	103,951	31,020	72,931	7,941	4,419	3,522
1980-81	108,309	27,778	81,233	98,938	28,256	70,682	7,900	4,164	3,738
1981-82	101,113	24,402	76,711	93,757	25,953	67,804	7,680	3,950	3,730
1982-83	97,991	23,870	74,321	84,853	23,232	61,821	7,551	3,764	3,787
1983-84	92,382	22,215	70,167	77,107	21,581	55,606	7,473	3,703	3,770
1984-85	88,181	21,264	66,897	76,137	20,945	55,192	7,151	3,419	3,732
1985-86	87,221	20,988	66,235	76,353	20,719	55,634	7,110	3,315	3,795
1986-87 <sup>1</sup>	87,115	20,770	66,345	75,501	19,642	55,859	8,909	3,117	3,792

<sup>1</sup> Preliminary data.

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

NOTE.—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989).

**Table 227.—Earned degrees in engineering<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50	52,248	52,071	175	4,496	4,481	15	417	416	1
1951-52	30,472	30,412	60	4,091	4,073	18	529	526	3
1953-54	22,227	22,162	65	4,204	4,189	15	594	594	—
1955-56	26,219	26,143	76	4,724	4,705	19	610	610	—
1957-58	35,191	35,082	109	5,786	5,768	20	647	643	4
1959-60	37,679	37,537	142	7,159	7,133	26	786	783	3
1961-62	34,551	34,430	121	8,909	8,889	40	1,207	1,203	4
1963-64	35,013	34,882	151	10,827	10,793	34	1,693	1,686	7
1965-66	35,615	35,472	143	13,675	13,599	76	2,304	2,295	9
1967-68	37,368	37,159	209	15,182	15,083	99	2,932	2,920	12
1969-70	44,479	44,149	330	15,593	15,421	172	3,681	3,657	24
1970-71	50,045	49,646	400	16,443	16,258	185	3,638	3,615	23
1971-72	51,134	50,638	526	16,960	16,688	272	3,671	3,649	22
1972-73	51,265	50,652	613	16,619	16,341	278	3,492	3,438	54
1973-74	53,286	49,490	796	15,379	15,023	356	3,312	3,257	55
1974-75	48,852	45,838	1,014	15,348	14,973	375	3,108	3,042	66
1975-76	48,331	44,871	1,460	16,342	15,760	582	2,821	2,755	66
1976-77	49,283	47,065	2,218	16,245	15,525	720	2,588	2,513	73
1977-78	55,654	51,945	3,709	16,398	15,533	865	2,440	2,383	57
1978-79	62,375	57,201	5,174	15,495	14,544	951	2,506	2,423	83
1979-80	68,893	62,488	6,405	16,243	15,101	1,142	2,507	2,412	95
1980-81	75,000	67,301	7,699	16,709	15,347	1,362	2,561	2,457	104
1981-82	80,005	70,899	9,106	17,939	16,311	1,628	2,636	2,496	140
1982-83	89,270	78,316	10,954	19,350	17,553	1,797	2,831	2,706	125
1983-84	94,444	82,309	12,135	20,661	18,504	2,157	2,981	2,816	165
1984-85	96,105	83,453	12,652	21,557	19,249	2,308	3,230	3,022	208
1985-86	95,953	83,372	12,581	21,661	19,168	2,493	3,410	3,181	229
1986-87 <sup>2</sup>	93,074	80,347	12,727	22,693	19,841	2,852	3,820	3,557	263

<sup>1</sup> Includes degrees in engineering and engineering technologies<sup>2</sup> Preliminary data.

—Data not reported.

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

NOTE.—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degree classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

**Table 228.—Earned degrees in chemical, civil, and electrical engineering conferred by institutions of higher education, by level of degree: 1970-71 to 1986-87**

Year	Chemical engineering			Civil engineering <sup>1</sup>			Electrical engineering		
	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's
1	2	3	4	5	6	7	8	9	10
1970-71 .....	3,579	1,100	406	8,526	2,425	446	12,198	4,282	879
1971-72 .....	3,825	1,154	394	6,803	2,487	415	12,101	4,206	824
1972-73 .....	3,578	1,051	397	7,390	2,627	397	12,313	3,895	791
1973-74 .....	3,399	1,044	400	8,017	2,652	368	11,316	3,499	705
1974-75 .....	3,070	990	346	7,651	2,789	356	10,181	3,469	701
1975-78 .....	3,140	1,031	308	7,923	2,999	370	9,791	3,774	649
1976-77 .....	3,524	1,086	291	8,228	2,964	309	9,936	3,788	566
1977-78 .....	4,569	1,235	259	9,135	2,685	277	11,133	3,740	503
1978-79 .....	5,568	1,149	304	9,809	2,646	253	12,338	3,591	586
1979-80 .....	6,320	1,270	264	10,328	2,683	270	13,821	3,836	525
1980-81 .....	8,527	1,267	300	10,878	2,891	325	14,938	3,901	535
1981-82 .....	6,740	1,285	311	10,524	2,995	329	18,455	4,462	526
1982-83 .....	7,185	1,368	319	9,989	3,074	340	18,049	4,531	550
1983-84 .....	7,475	1,514	330	9,693	3,146	369	19,943	5,078	585
1984-85 .....	7,146	1,544	418	9,162	3,172	377	21,891	5,153	660
1985-86 .....	5,877	1,361	446	8,679	2,926	395	23,742	5,534	722
1986-87 <sup>2</sup> .....	4,983	1,164	497	8,147	2,901	451	24,563	6,234	726

<sup>1</sup> From 1970-71 to 1981-82 includes "construction and transportation engineering"

<sup>2</sup> Preliminary data.

NOTE.—Degrees in engineering technologies are not included in this tabulation

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989.)

**Table 229.—Earned degrees in English and literature<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50.....	17,240	8,221	9,019	2,259	1,320	939	230	181	49
1951-52.....	14,058	5,798	8,260	1,922	1,043	879	284	237	47
1953-54.....	12,545	4,726	7,819	1,674	862	812	356	290	66
1955-56.....	14,385	5,526	8,859	1,892	969	923	382	323	59
1957-58.....	16,631	6,733	9,898	2,319	1,207	1,112	333	280	53
1959-60.....	20,128	7,580	12,548	2,931	1,458	1,473	397	314	83
1961-62.....	24,334	8,531	15,803	3,514	1,702	1,812	486	390	96
1963-64.....	32,614	10,943	21,671	4,443	2,015	2,428	556	441	115
1965-66.....	39,015	13,196	25,819	6,265	2,854	3,411	699	540	159
1967-68.....	47,977	15,700	32,277	7,916	3,434	4,482	977	717	260
1969-70.....	56,400	18,644	37,756	8,480	3,309	5,171	1,205	832	373
1970-71.....	57,026	19,000	38,026	8,935	3,485	5,450	1,441	1,021	420
1971-72.....	55,991	19,169	36,822	8,714	3,356	5,358	1,591	1,056	535
1972-73.....	52,478	18,544	33,934	8,151	3,203	4,948	1,631	1,040	591
1973-74.....	47,343	17,091	30,252	7,906	3,192	4,714	1,616	1,006	610
1974-75.....	40,297	14,727	25,570	7,620	2,932	4,688	1,507	884	623
1975-76.....	35,432	13,252	22,180	7,217	2,775	4,442	1,511	856	655
1976-77.....	31,996	11,816	20,180	6,513	2,436	4,077	1,318	718	600
1977-78.....	29,732	10,837	18,895	6,351	2,292	4,059	1,265	670	595
1978-79.....	27,720	9,776	17,944	5,522	2,015	3,507	1,137	600	537
1979-80.....	26,638	9,032	17,606	5,122	1,857	3,265	1,131	594	537
1980-81.....	26,006	8,788	17,218	4,948	1,793	3,155	1,047	494	553
1981-82.....	26,152	8,692	17,460	4,809	1,698	3,111	974	455	519
1982-83.....	25,632	8,550	17,082	4,350	1,538	2,812	890	416	474
1983-84.....	26,419	8,723	17,696	4,403	1,566	2,837	911	421	520
1984-85.....	26,536	8,862	17,674	4,571	1,590	2,981	943	426	517
1985-86.....	27,360	9,150	18,210	4,923	1,740	3,183	937	405	532
1986-87 <sup>2</sup> .....	28,822	9,576	19,246	4,876	1,743	3,133	896	387	509

<sup>1</sup> Includes degrees conferred in general English, English literature, comparative literature, classics, creative writing, composition, American literature, and technical and business writing.

<sup>2</sup> Preliminary data.

NOTE.—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above

with bachelor's degrees; any degrees classified as "second-professional" or "second-level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE.—U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989.)

**Table 230.—Earned degrees in modern foreign languages<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50.....	4,477	1,746	2,731	919	456	463	188	135	33
1951-52.....	3,887	1,220	2,467	791	443	348	203	161	42
1953-54.....	3,204	1,071	2,133	882	366	316	184	144	40
1955-56.....	3,290	1,064	2,226	667	324	343	196	157	39
1957-58.....	3,752	1,332	2,420	691	355	336	149	102	47
1959-60.....	4,527	1,548	2,979	832	392	440	150	100	50
1961-62.....	6,823	2,141	4,882	1,235	566	669	182	127	55
1963-64.....	10,898	2,970	7,928	1,844	802	1,042	266	190	76
1965-66.....	13,576	3,672	9,904	2,900	1,191	1,709	345	239	106
1967-68.....	17,499	4,450	13,049	3,911	1,555	2,356	491	336	155
1969-70.....	19,457	4,921	14,536	4,154	1,476	2,678	590	369	221
1970-71.....	19,057	4,734	14,323	4,410	1,494	2,916	704	425	279
1971-72.....	18,140	4,446	13,694	4,278	1,450	2,828	754	487	287
1972-73.....	18,234	4,348	13,886	3,994	1,407	2,587	891	521	370
1973-74.....	18,256	4,279	13,977	3,795	1,254	2,541	876	488	388
1974-75.....	17,118	3,914	13,204	3,674	1,180	2,494	829	442	387
1975-76.....	15,081	3,496	11,585	3,365	1,100	2,265	831	429	402
1976-77.....	13,630	3,226	10,404	2,992	890	2,102	733	352	381
1977-78.....	12,449	2,938	9,511	2,658	771	1,887	636	290	346
1978-79.....	11,533	2,706	8,827	2,342	887	1,655	627	288	339
1979-80.....	10,816	2,583	8,233	2,160	631	1,529	524	218	306
1980-81.....	10,052	2,402	7,650	2,023	659	1,364	561	262	299
1981-82.....	9,577	2,279	7,298	1,917	573	1,344	502	224	278
1982-83.....	9,335	2,343	6,992	1,605	533	1,072	454	185	269
1983-84.....	9,158	2,400	6,758	1,641	513	1,128	429	191	238
1984-85.....	9,684	2,533	7,151	1,613	505	1,108	389	158	231
1985-86.....	9,810	2,586	7,124	1,656	482	1,174	427	174	253
1986-87 <sup>2</sup> .....	9,847	2,656	7,191	1,694	492	1,202	406	165	241

<sup>1</sup> Includes degrees conferred in a single language or a combination of modern foreign languages. Excludes degrees in linguistics, Latin, classical Greek, and "other" foreign languages.

<sup>2</sup> Preliminary data.

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above

with bachelor's degrees, any degrees classified as "second-professional" or "second-level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989).

**Table 231.—Earned degrees in French, German, and Spanish conferred by institutions of higher education, by level of degree: 1949–50 to 1986–87**

Year	French			German			Spanish		
	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's
1	2	3	4	5	6	7	8	9	10
1949–50.....	1,471	299	53	540	121	40	2,122	373	34
1951–52.....	1,380	267	50	415	121	56	1,562	281	43
1953–54.....	1,268	234	57	327	86	48	1,192	197	39
1955–56.....	1,388	207	53	364	78	33	1,292	235	32
1957–58.....	1,548	252	37	488	83	34	1,431	254	34
1959–60.....	1,927	316	58	659	126	21	1,810	261	31
1961–62.....	2,926	452	53	1,075	212	44	2,275	333	34
1963–64.....	4,775	590	76	1,591	344	75	3,695	557	47
1965–66.....	5,583	1,054	80	2,061	514	93	4,816	858	80
1967–68.....	7,068	1,301	152	2,368	771	117	6,381	1,188	123
1969–70.....	7,624	1,409	181	2,652	669	118	7,226	1,372	139
1970–71.....	7,306	1,437	192	2,601	690	144	7,068	1,456	168
1971–72.....	6,822	1,421	193	2,477	608	167	6,847	1,421	152
1972–73.....	6,705	1,277	203	2,520	598	176	7,209	1,298	206
1973–74.....	6,263	1,195	213	2,425	550	149	7,250	1,217	203
1974–75.....	5,745	1,077	200	2,289	480	147	7,719	1,228	202
1975–76.....	4,783	914	190	1,983	471	164	5,984	1,080	178
1976–77.....	4,228	875	177	1,820	394	126	5,359	930	153
1977–78.....	3,708	692	155	1,647	357	101	4,832	822	113
1978–79.....	3,558	576	143	1,524	344	106	4,563	720	118
1979–80.....	3,285	513	128	1,466	309	94	4,331	685	103
1980–81.....	3,178	460	115	1,286	294	79	3,870	592	131
1981–82.....	3,054	485	92	1,327	324	76	3,833	588	140
1982–83.....	2,871	360	106	1,367	281	68	3,349	506	129
1983–84.....	2,876	418	86	1,292	241	63	3,254	537	102
1984–85.....	2,991	385	74	1,411	240	58	3,415	505	115
1985–86.....	3,015	409	86	1,396	249	73	3,385	521	95
1986–87 <sup>1</sup> .....	3,057	421	85	1,363	234	70	3,445	504	104

<sup>1</sup> Preliminary data.

"second-level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989.)

**Table 232.—Earned degrees in the health professions<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71	25,190	5,764	19,426	5,445	2,401	3,044	459	384	75
1971-72	28,570	6,990	21,580	6,875	2,987	3,888	425	351	74
1972-73	33,523	7,744	25,779	7,879	3,304	4,575	643	483	160
1973-74	41,394	9,365	32,029	9,090	3,533	5,557	568	439	129
1974-75	48,858	10,855	38,003	9,901	3,710	6,191	609	437	172
1975-76	53,813	11,412	42,401	11,885	3,955	7,930	577	411	166
1976-77	57,122	11,887	45,235	12,323	3,910	8,413	538	366	172
1977-78	59,168	11,548	47,620	13,619	3,990	9,629	638	393	245
1978-79	61,819	11,161	50,658	14,781	4,223	10,558	705	447	258
1979-80	63,907	11,336	52,271	15,068	4,131	10,937	771	424	347
1980-81	63,348	10,464	52,884	16,004	4,151	11,853	827	469	358
1981-82	63,385	10,064	53,321	15,942	3,843	12,099	910	499	411
1982-83	64,614	10,204	54,410	17,068	4,232	12,836	1,155	649	506
1983-84	64,338	10,079	54,259	17,443	4,269	13,174	1,163	573	590
1984-85	64,513	9,786	54,727	17,383	4,135	13,248	1,199	565	634
1985-86	64,535	9,683	54,852	18,624	4,460	14,164	1,241	604	637
1986-87 <sup>2</sup>	63,206	9,177	54,029	18,426	3,887	14,539	1,213	564	649

<sup>1</sup> Includes degrees in health professions, general, hospital and health care administration; nursing, dental specialties, medical specialties; occupational therapy; optometry; pharmacy; physical therapy; dental hygiene; public health; medical record librarianship; podiatry or podiatric medicine, biomedical communication, veterinary medicine specialties; speech pathology and audiology; chiropractic, medical laboratory technologies, dental technologies; radiologic technologies; and other health professions. Excludes first-professional degrees that require at least 6 years for completion (including at least 2

years of preprofessional training) in dentistry, medicine, optometry, osteopathic medicine, pharmacy, podiatry or podiatric medicine, veterinary medicine, and chiropractic.

<sup>2</sup> Preliminary data.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989.)

**Table 233.—Earned degrees in the life sciences<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1951-52 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1951-52.....	11,094	8,212	2,882	2,307	1,908	399	764	680	64
1953-54.....	9,279	6,710	2,569	1,610	1,287	323	1,077	977	100
1955-56.....	12,423	9,515	2,908	1,759	1,379	380	1,025	908	117
1957-58.....	14,308	11,159	3,149	1,852	1,448	404	1,125	987	138
1959-60.....	15,576	11,654	3,922	2,154	1,668	486	1,205	1,086	119
1961-62.....	16,915	12,136	4,779	2,642	1,982	660	1,338	1,179	159
1963-64.....	22,723	16,321	6,402	3,296	2,348	948	1,625	1,432	193
1965-66.....	26,916	19,368	7,548	4,232	3,085	1,147	2,097	1,792	305
1967-68.....	31,826	22,986	8,840	5,506	3,959	1,547	2,784	2,345	439
1969-70.....	37,389	27,004	10,385	5,800	3,975	1,825	3,289	2,820	469
1970-71.....	35,743	25,333	10,410	5,728	3,805	1,923	3,645	3,050	595
1971-72.....	37,293	26,323	10,970	6,101	4,087	2,014	3,653	3,031	622
1972-73.....	42,233	29,636	12,597	6,263	4,354	1,909	3,636	2,928	710
1973-74.....	48,340	33,245	15,095	6,552	4,555	1,997	3,439	2,740	699
1974-75.....	51,741	34,612	17,129	6,550	4,587	1,963	3,384	2,841	743
1975-76.....	54,275	35,520	18,755	6,582	4,497	2,085	3,392	2,663	729
1976-77.....	53,605	34,218	19,387	7,114	4,718	2,396	3,397	2,671	726
1977-78.....	51,502	31,705	19,797	6,806	4,400	2,406	3,309	2,511	798
1978-79.....	48,846	29,191	19,655	6,831	4,265	2,566	3,542	2,636	906
1979-80.....	46,370	26,828	19,542	6,510	4,098	2,412	3,636	2,690	946
1980-81.....	43,216	24,149	19,067	5,978	3,654	2,324	3,718	2,666	1,052
1981-82.....	41,639	22,754	18,885	5,874	3,426	2,448	3,743	2,654	1,089
1982-83.....	39,982	21,564	18,418	5,696	3,214	2,482	3,341	2,266	1,075
1983-84.....	38,840	20,558	18,082	5,406	2,996	2,410	3,437	2,381	1,056
1984-85.....	38,445	20,064	18,381	5,059	2,847	2,412	3,432	2,307	1,125
1985-86.....	38,524	19,993	18,531	5,013	2,616	2,397	3,358	2,229	1,129
1986-87 <sup>2</sup> .....	38,114	19,641	18,473	4,954	2,539	2,415	3,423	2,226	1,197

<sup>1</sup>Includes degrees in anatomy, bacteriology, biochemistry, biology, botany, entomology, physiology, zoology, and other biological sciences  
<sup>2</sup>Preliminary data

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

**Table 234.—Earned degrees in biology, zoology, and microbiology conferred by institutions of higher education, by level of degree: 1970-71 to 1986-87**

Year	Biology, general			Zoology <sup>1</sup>			Microbiology		
	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's
1	2	3	4	5	6	7	8	9	10
1970-71.....	26,294	2,665	536	5,768	1,255	1,235	1,122	382	323
1971-72.....	27,473	2,943	580	5,570	1,260	1,228	1,263	416	326
1972-73.....	31,185	2,959	627	5,808	1,263	1,113	1,567	454	318
1973-74.....	36,188	3,186	657	6,238	1,347	1,017	1,907	448	348
1974-75.....	38,748	3,109	637	6,224	1,339	1,047	2,394	490	324
1975-76.....	40,163	3,177	624	6,214	1,268	1,030	2,485	529	336
1976-77.....	39,530	3,322	608	5,716	1,311	1,056	2,492	581	309
1977-78.....	37,598	3,094	664	5,236	1,296	978	2,355	530	338
1978-79.....	35,962	3,093	663	5,008	1,277	1,050	2,342	512	367
1979-80.....	33,523	2,911	718	4,447	1,202	1,079	2,347	545	348
1980-81.....	31,323	2,598	734	4,020	1,198	1,076	2,227	438	351
1981-82.....	29,651	2,579	678	3,770	1,135	1,059	2,215	430	338
1982-83.....	28,022	2,354	521	3,578	1,005	911	2,141	406	319
1983-84.....	27,379	2,313	617	3,440	960	928	2,214	413	351
1984-85.....	27,593	2,130	658	3,287	895	903	2,091	378	295
1985-86.....	27,618	2,173	574	3,139	829	930	2,184	342	328
1986-87 <sup>2</sup> .....	27,458	2,022	537	3,032	833	896	2,057	360	325

<sup>1</sup>Zoology includes general zoology, entomology, genetics, pathology, pharmacology, physiology, and microbiology  
<sup>2</sup>Preliminary data

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989)



**Table 235.—Earned degrees in mathematics<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50.....	6,382	4,842	1,440	974	784	190	160	151	9
1951-52.....	4,696	3,374	1,322	802	663	139	206	195	11
1953-54.....	4,078	2,717	1,361	706	579	127	227	213	14
1955-58.....	4,646	3,128	1,518	898	719	179	235	225	10
1957-58.....	6,905	4,943	1,962	1,234	994	240	247	232	15
1959-60.....	11,399	8,293	3,106	1,757	1,422	335	303	285	18
1961-62.....	14,570	10,331	4,239	2,680	2,179	501	396	372	24
1963-64.....	18,624	12,656	5,968	3,597	2,911	686	596	567	29
1965-66.....	19,977	13,326	6,651	4,769	3,769	1,000	782	725	57
1967-68.....	23,513	14,782	8,731	5,527	4,199	1,328	947	895	52
1969-70.....	27,442	17,177	10,265	5,636	3,966	1,670	1,236	1,140	96
1970-71.....	24,801	15,369	9,432	5,191	3,673	1,518	1,199	1,106	93
1971-72.....	23,713	14,454	9,259	5,198	3,655	1,543	1,128	1,039	89
1972-73.....	23,067	13,796	9,271	5,029	3,525	1,503	1,068	966	102
1973-74.....	21,635	12,791	8,844	4,834	3,337	1,497	1,031	931	100
1974-75.....	18,181	10,586	7,595	4,327	2,905	1,422	975	865	110
1975-76.....	15,984	9,475	6,509	3,857	2,547	1,310	856	732	94
1976-77.....	14,196	8,303	5,893	3,695	2,396	1,299	823	704	109
1977-78.....	12,569	7,398	5,171	3,373	2,228	1,145	805	681	124
1978-79.....	11,806	6,899	4,907	3,036	1,985	1,051	730	608	122
1979-80.....	11,378	6,562	4,816	2,860	1,828	1,032	724	624	100
1980-81.....	11,078	6,342	4,736	2,567	1,692	875	738	614	114
1981-82.....	11,599	6,593	5,006	2,727	1,821	906	681	587	94
1982-83.....	12,453	6,995	5,458	2,837	1,858	979	698	582	116
1983-84.....	13,211	7,366	5,645	2,741	1,791	950	695	569	126
1984-85.....	15,146	8,164	6,901	2,882	1,874	1,008	699	590	109
1985-86.....	16,306	8,725	7,581	3,159	2,047	1,112	742	618	124
1986-87 <sup>2</sup> .....	16,489	8,834	7,655	3,321	2,024	1,297	725	599	126

<sup>1</sup> Includes degrees conferred in statistics<sup>2</sup> Preliminary data.

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

NOTE.—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey. (This table was prepared May 1989.)

**Table 236.—Earned degrees in the physical sciences<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1951-52 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1951-52	12,118	10,799	1,319	3,054	2,830	224	1,720	1,663	57
1953-54	9,838	8,584	1,254	2,374	2,197	177	1,686	1,825	61
1955-56	11,629	10,140	1,489	2,655	2,435	220	1,667	1,599	68
1957-58	14,317	12,659	1,658	3,030	2,759	271	1,655	1,589	66
1959-60	16,007	14,013	1,994	3,376	3,049	327	1,838	1,776	62
1961-62	15,851	13,728	2,123	3,928	3,544	384	2,122	2,035	87
1963-64	17,456	15,044	2,412	4,561	4,155	406	2,455	2,342	113
1965-66	17,129	14,822	2,307	4,987	4,462	525	3,045	2,914	131
1967-68	18,380	16,739	2,641	5,499	4,869	630	3,593	3,405	188
1969-70	21,439	18,522	2,917	5,935	5,093	842	4,312	4,077	235
1970-71	21,412	18,459	2,953	6,367	5,521	846	4,390	4,144	246
1971-72	20,745	17,663	3,082	6,287	5,404	883	4,103	3,830	273
1972-73	20,696	17,626	3,070	6,257	5,414	843	4,006	3,738	268
1973-74	21,178	17,674	3,504	6,062	5,186	876	3,626	3,373	253
1974-75	20,778	16,992	3,786	5,807	4,969	838	3,626	3,325	301
1975-76	21,465	17,353	4,112	5,466	4,648	818	3,431	3,132	299
1976-77	22,497	17,996	4,501	5,331	4,450	881	3,341	3,022	319
1977-78	22,986	18,090	4,896	5,561	4,620	941	3,133	2,821	312
1978-79	23,207	17,985	5,222	5,451	4,461	990	3,102	2,752	350
1979-80	23,410	17,864	5,546	5,219	4,248	971	3,089	2,705	384
1980-81	23,952	18,064	5,888	5,284	4,200	1,084	3,141	2,765	376
1981-82	24,052	17,866	6,186	5,514	4,318	1,196	3,286	2,835	451
1982-83	23,405	17,016	6,389	5,290	4,157	1,133	3,269	2,811	458
1983-84	23,671	17,134	6,537	5,576	4,238	1,308	3,306	2,815	491
1984-85	23,732	17,095	6,637	5,796	4,452	1,344	3,403	2,851	552
1985-86	21,731	15,769	5,962	5,902	4,470	1,432	3,551	2,963	588
1986-87 <sup>2</sup>	19,974	14,302	5,672	5,652	4,243	1,409	3,672	3,038	634

<sup>1</sup> Includes degrees in astronomy, chemistry, geology, metallurgy, meteorology, physics, science technologies, and other physical sciences  
<sup>2</sup> Preliminary data

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989).

**Table 237.—Earned degrees in chemistry, physics, and geology conferred by institutions of higher education, by level of degree: 1970-71 to 1986-87**

Year	Chemistry			Physics			Geology <sup>1</sup>		
	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's
1	2	3	4	5	6	7	8	9	10
1970-71	1,000	2,275	2,159	5,071	2,138	1,482	2,414	651	324
1971-72	1,159	2,248	1,971	4,634	2,033	1,344	2,573	841	310
1972-73	10,128	2,225	1,872	4,259	1,747	1,338	2,923	827	305
1973-74	10,438	2,125	1,823	3,952	1,655	1,115	3,253	938	315
1974-75	10,549	1,986	1,822	3,706	1,574	1,080	3,319	932	292
1975-76	11,022	1,783	1,621	3,544	1,451	997	3,358	1,003	313
1976-77	11,215	1,767	1,568	3,420	1,319	945	3,879	1,047	325
1977-78	11,315	1,886	1,521	3,330	1,294	873	4,342	1,239	268
1978-79	11,509	1,757	1,516	3,337	1,319	918	4,502	1,300	286
1979-80	11,232	1,723	1,545	3,396	1,192	830	4,597	1,295	313
1980-81	11,347	1,654	1,622	3,441	1,294	866	5,202	1,396	294
1981-82	11,025	1,618	1,595	3,472	1,282	563	5,538	1,540	282
1982-83	10,796	1,622	1,746	3,793	1,369	873	6,102	1,552	295
1983-84	10,704	1,667	1,744	3,907	1,532	953	6,549	1,514	315
1984-85	10,482	1,719	1,789	4,097	1,523	951	6,308	1,692	289
1985-86	10,116	1,754	1,908	4,100	1,501	1,010	4,974	1,767	271
1986-87 <sup>2</sup>	9,661	1,738	1,976	4,330	1,563	1,086	3,665	1,603	280

<sup>1</sup> Includes geology, geochemistry, and geophysics and seismology. Beginning in 1982-83, also includes other geological sciences

<sup>2</sup> Preliminary data

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared June 1989).

**Table 238.—Earned degrees in psychology conferred by institutions of higher education, by level of degree and by sex of student: 1949-50 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1949-50	9,569	6,055	3,514	1,316	948	368	283	241	42
1951-52	6,591	3,775	2,816	1,406	1,066	340	540	467	73
1953-54	5,706	3,074	2,832	1,254	885	369	619	553	66
1955-56	5,601	3,082	2,519	973	690	283	634	546	88
1957-58	6,867	4,038	2,829	1,235	636	399	572	488	84
1959-60	8,061	4,773	3,288	1,406	981	425	641	544	97
1961-62	9,578	5,798	3,780	1,832	1,269	563	781	632	149
1963-64	13,258	7,817	5,441	2,059	1,371	688	939	757	182
1965-66	16,897	10,002	6,895	2,530	1,680	850	1,046	826	220
1967-68	23,819	13,792	10,027	3,479	2,321	1,158	1,268	982	286
1969-70	33,606	19,042	14,564	4,111	2,549	1,562	1,668	1,296	372
1970-71	37,880	21,029	16,851	4,431	2,763	1,668	1,792	1,355	427
1971-72	43,093	23,159	18,934	5,289	3,259	2,030	1,881	1,414	467
1972-73	47,695	24,976	22,719	5,631	3,495	2,336	2,089	1,484	605
1973-74	51,821	25,705	26,116	6,588	3,971	2,617	2,336	1,645	631
1974-75	50,988	24,190	26,798	7,066	4,044	3,022	2,442	1,688	754
1975-76	49,908	22,632	27,076	7,811	4,171	3,640	2,581	1,762	819
1976-77	47,373	20,553	26,820	8,301	4,313	3,988	2,761	1,770	991
1977-78	44,559	18,348	26,211	8,160	3,919	4,241	2,587	1,621	966
1978-79	42,461	16,464	25,997	8,003	3,672	4,331	2,662	1,597	1,065
1979-80	41,962	15,419	26,543	7,806	3,376	4,430	2,788	1,602	1,166
1980-81	40,633	14,295	26,538	7,998	3,358	4,640	2,955	1,681	1,274
1981-82	41,031	13,623	27,408	7,791	3,209	4,582	2,780	1,518	1,262
1982-83	40,364	13,105	27,259	8,378	3,236	5,140	3,108	1,621	1,487
1983-84	39,872	12,792	27,080	8,002	2,961	5,041	2,973	1,517	1,456
1984-85	39,811	12,694	27,117	8,408	3,044	5,364	2,908	1,492	1,416
1985-86	40,521	12,578	27,943	8,293	2,923	5,370	3,088	1,497	1,591
1986-87 <sup>1</sup>	42,868	13,332	29,536	8,204	2,856	5,348	3,123	1,458	1,665

<sup>1</sup> Preliminary data.

NOTE.—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degree classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989.)

**Table 239.—Earned degrees in public affairs and services<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71	6,252	2,489	3,763	8,215	4,176	4,039	185	141	44
1971-72	8,221	3,260	4,961	9,183	4,780	4,403	219	170	49
1972-73	11,346	4,587	6,759	10,899	5,767	5,132	214	174	40
1973-74	12,671	4,890	7,781	12,077	6,455	5,622	214	165	49
1974-75	14,730	5,465	9,265	14,610	7,747	6,863	271	200	71
1975-76	16,751	6,776	9,975	16,117	8,421	7,696	298	198	100
1976-77	17,627	6,705	10,922	17,917	9,251	8,666	316	210	106
1977-78	18,082	6,146	11,936	18,341	9,033	9,308	380	256	129
1978-79	18,882	6,009	12,873	18,300	8,547	9,753	344	233	111
1979-80	18,422	5,650	12,772	18,413	8,261	10,152	372	241	131
1980-81	18,714	5,670	13,044	18,524	7,790	10,734	388	226	162
1981-82	18,739	5,733	13,006	18,216	7,314	10,902	389	210	179
1982-83	16,290	4,910	11,380	16,245	6,112	10,133	347	184	163
1983-84	14,396	4,592	9,804	15,373	5,869	9,504	421	231	190
1984-85	13,838	4,635	9,203	16,045	5,938	10,107	431	213	218
1985-86	13,878	4,670	9,208	16,300	6,108	10,192	385	174	211
1986-87 <sup>2</sup>	14,161	4,537	9,624	17,032	6,191	10,841	398	216	182

<sup>1</sup> Includes degrees in community services, general, public administration, management; social work and helping services; international public service, transportation and public utilities; clinical social work, and other public affairs and services

<sup>2</sup> Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

**Table 240.—Earned degrees in the social sciences<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71	155,236	98,090	57,146	16,476	11,779	4,697	3,659	3,152	507
1971-72	158,037	100,879	57,158	17,416	12,517	4,899	4,078	3,480	598
1972-73	155,922	99,704	56,218	17,288	12,529	4,759	4,230	3,569	661
1973-74	150,298	95,637	54,661	17,249	12,289	4,960	4,123	3,382	741
1974-75	135,165	84,813	50,352	16,892	11,826	5,066	4,209	3,332	877
1975-76	126,287	78,623	47,664	15,824	10,831	4,993	4,154	3,259	895
1976-77	116,879	71,006	45,873	15,395	10,340	5,055	3,784	2,949	835
1977-78	112,827	67,144	45,683	14,578	9,751	4,827	3,583	2,713	870
1978-79	107,922	62,765	45,157	12,807	8,300	4,507	3,358	2,492	866
1979-80	103,518	58,434	45,085	12,101	7,746	4,355	3,219	2,347	872
1980-81	100,345	56,039	44,306	11,855	7,403	4,452	3,114	2,269	845
1981-82	99,545	55,111	44,434	11,892	7,408	4,484	3,061	2,237	824
1982-83	95,088	52,708	42,380	11,112	6,916	4,196	2,931	2,042	889
1983-84	93,212	52,102	41,110	10,465	6,496	3,969	2,911	2,030	881
1984-85	91,461	51,172	40,289	10,380	6,400	3,980	2,851	1,933	918
1985-86	93,703	52,254	41,049	10,428	6,339	4,089	2,955	1,970	985
1986-87 <sup>2</sup>	96,185	53,679	42,306	10,397	6,294	4,103	2,916	2,026	890

<sup>1</sup> Includes degrees in social sciences, general, anthropology, archeology, economics, history, geography, political science and government, sociology, criminology; international relations, urban studies, demography; and other social sciences

<sup>2</sup> Preliminary data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

**Table 241.—Earned degrees in economics, history, political science and government, and sociology conferred by institutions of higher education, by level of degree: 1949-50 to 1986-87**

Year	Economics			History			Political science and government <sup>1</sup>			Sociology		
	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's	Bachelor's	Master's	Doctor's
1	2	3	4	5	6	7	8	9	10	11	12	13
1949-50.....	14,568	921	200	13,542	1,801	275	6,336	710	127	7,870	552	98
1951-52.....	8,593	695	239	10,187	1,445	317	4,911	525	147	6,848	517	141
1953-54.....	6,719	609	245	9,363	1,220	355	5,314	534	153	5,692	440	184
1955-56.....	6,555	581	232	10,510	1,114	259	5,633	509	203	5,878	402	170
1957-58.....	7,457	669	239	12,840	1,397	297	6,116	665	170	3,568	397	150
1959-60.....	7,453	708	237	14,737	1,794	342	6,596	722	201	7,147	440	161
1961-62.....	8,366	853	268	17,340	2,163	343	8,328	839	214	8,120	578	173
1963-64.....	10,583	1,104	385	23,668	2,705	507	12,126	1,163	263	10,943	646	198
1965-66.....	11,555	1,522	458	28,612	3,883	599	15,242	1,429	336	15,038	981	244
1967-68.....	15,193	1,916	600	35,291	4,845	688	20,387	1,937	457	21,710	1,193	387
1969-70.....	17,197	1,988	794	43,386	5,049	1,036	25,713	2,105	525	30,436	1,813	534
1970-71.....	15,758	1,995	721	44,663	5,157	991	27,482	2,318	700	33,263	1,808	574
1971-72.....	15,231	2,224	794	43,695	5,217	1,133	28,135	2,451	758	35,216	1,944	636
1972-73.....	14,770	2,225	845	40,943	5,030	1,140	30,100	2,398	747	35,436	1,923	583
1973-74.....	14,285	2,141	788	37,049	4,533	1,114	30,744	2,448	766	35,491	2,196	632
1974-75.....	14,046	2,127	815	31,470	4,226	1,117	29,126	2,333	680	31,488	2,112	693
1975-76.....	14,741	2,087	763	28,400	3,658	1,014	28,302	2,191	723	27,634	2,009	729
1976-77.....	15,296	2,158	758	25,433	3,393	921	26,411	2,222	641	24,713	1,830	714
1977-78.....	15,661	1,995	706	23,004	3,033	813	26,069	2,069	636	22,750	1,611	599
1978-79.....	16,409	1,955	712	21,019	2,536	756	25,628	2,037	563	20,285	1,415	612
1979-80.....	17,863	1,821	677	19,301	2,367	712	25,457	1,938	535	18,881	1,341	583
1980-81.....	18,753	1,911	727	18,301	2,237	643	24,977	1,875	484	17,272	1,240	610
1981-82.....	19,676	1,964	677	17,146	2,210	636	25,658	1,954	513	16,042	1,145	558
1982-83.....	20,517	1,972	734	16,465	2,040	575	25,791	1,829	435	14,105	1,112	522
1983-84.....	20,719	1,891	729	16,642	1,937	561	25,719	1,769	457	13,145	1,008	520
1984-85.....	20,711	1,992	749	16,048	1,921	468	25,834	1,500	441	11,968	1,022	480
1985-86.....	21,602	1,937	789	16,413	1,959	497	26,439	1,704	439	12,271	965	504
1986-87 <sup>2</sup> .....	22,387	1,855	750	16,988	2,023	534	26,834	1,618	435	12,231	850	451

<sup>1</sup> Excludes degrees in public administration and international relations  
<sup>2</sup> Preliminary data.

level" are included with master's degrees. Data for all years are for 50 States and the District of Columbia

NOTE—Although a strenuous effort has been made to provide a consistent series of data, minor changes have occurred over time in the way degrees are classified and reported. Any degrees classified in early surveys as "first-professional" are included above with bachelor's degrees, any degrees classified as "second-professional" or "second-

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

**Table 242.—Earned degrees in visual and performing arts<sup>1</sup> conferred by institutions of higher education, by level of degree and sex of student: 1970-71 to 1986-87**

Year	Bachelor's degrees			Master's degrees			Doctor's degrees		
	Total	Men	Women	Total	Men	Women	Total	Men	Women
1	2	3	4	5	6	7	8	9	10
1970-71.....	30,394	12,256	18,138	6,675	3,510	3,165	821	483	138
1971-72.....	33,831	13,580	20,251	7,537	4,049	3,488	572	428	144
1972-73.....	36,017	14,267	21,750	7,254	4,005	3,249	616	449	167
1973-74.....	39,730	15,821	23,909	8,001	4,325	3,676	585	440	145
1974-75.....	40,782	15,532	25,250	8,362	4,448	3,914	649	446	203
1975-76.....	42,138	16,491	25,647	8,817	4,507	4,310	620	447	173
1976-77.....	41,793	16,166	25,627	8,636	4,211	4,425	662	447	215
1977-78.....	40,951	15,572	25,379	9,036	4,327	4,709	708	448	260
1978-79.....	40,969	15,380	25,589	8,524	3,933	4,591	700	454	246
1979-80.....	40,892	15,065	25,827	8,708	4,067	4,641	655	413	242
1980-81.....	40,479	14,798	25,681	8,629	4,056	4,573	654	396	258
1981-82.....	40,422	14,819	25,603	8,746	3,866	4,880	670	380	290
1982-83.....	39,469	14,689	24,770	8,742	4,011	4,731	692	404	288
1983-84.....	39,833	15,103	24,730	8,520	3,897	4,623	728	406	322
1984-85.....	37,933	14,506	23,430	8,714	3,897	4,817	693	407	286
1985-86.....	36,949	14,284	22,665	8,416	3,775	4,641	722	396	326
1986-87 <sup>2</sup> .....	36,223	13,783	22,440	8,506	3,757	4,749	792	447	345

<sup>1</sup> Includes degrees in fine arts, general, art, art history and appreciation, music (performing composition, theory), music (liberal arts program), music history and appreciation, dramatic arts, dance, applied design, cinematography, photography, and other fine and applied arts

SOURCE U.S. Department of Education, National Center for Education Statistics, "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared May 1989)

<sup>2</sup> Preliminary data.

Table 243.—Statistical profile of persons receiving doctor's degrees,<sup>1</sup> by field of study: 1986-87

Item	All fields	Field of study								
		Education	Engineering	Humanities	Life sciences	Mathematics	Physical sciences	Business and management	Social sciences	Other professional fields <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11
Doctor's degrees conferred (number)	<sup>3</sup> 32,276	6,447	3,716	3,504	5,742	740	3,837	980	5,716	1,083
Sex (percent)										
Men ...	64.6	44.9	93.5	55.1	64.6	83.1	83.3	76.6	57.2	58.4
Women ...	35.2	55.1	6.6	44.9	35.2	16.9	16.7	23.4	42.8	41.6
Racial/ethnic group (percent)										
American Indian ...	0.4	0.6	0.2	0.3	0.3	(*)	*0.2	(*)	0.4	*0.4
Asian ...	12.7	4.1	34.6	4.6	11.6	(*)	*20.3	(*)	7.5	*12.9
Black ...	3.6	7.3	1.5	3.4	3.0	(*)	*1.2	(*)	4.0	*4.9
Mexican-American ...	0.6	1.1	0.4	0.5	0.4	(*)	*0.3	(*)	0.6	*0.4
Puerto Rican ...	0.6	0.6	0.1	0.9	0.5	(*)	*0.7	(*)	0.4	*0.5
Other Hispanic ...	2.1	1.3	2.2	2.7	2.6	(*)	*2.2	(*)	2.3	*0.9
White ...	70.0	78.7	49.2	77.3	72.4	(*)	*64.7	(*)	73.9	*69.1
Other and unknown ...	9.9	6.0	11.9	10.0	9.1	(*)	*10.4	(*)	10.6	*10.8
Citizenship (percent)										
United States ...	70.6	84.9	41.6	76.0	73.5	46.6	65.1	60.4	76.1	75.4
Foreign ...	22.2	9.2	50.7	14.3	20.5	47.6	28.5	31.7	15.7	15.9
Unknown ...	7.0	6.0	7.4	7.7	6.1	6.4	6.4	6.0	6.3	6.7
Marital status (percent)										
Married ...	57.2	65.7	58.4	54.5	56.7	51.1	51.0	62.6	53.2	58.3
Not married ...	34.0	26.7	31.4	36.4	35.4	41.5	41.5	27.3	36.6	31.2
Unknown ...	6.6	7.6	10.1	9.2	7.8	7.5	7.5	9.9	10.0	10.5
Median age at doctorate (years)	33.6	39.6	31.0	35.0	31.7	29.6	29.6	34.3	33.5	37.0
Percent with bachelor's degree in same field as doctorate	54.9	37.6	75.2	58.5	55.6	73.0	72.6	35.5	56.4	23.6
Percent with master's degree ..	76.5	94.5	65.6	66.5	62.5	75.0	52.6	86.6	80.4	93.7
Median time lapse from bachelor's to doctorate (years)										
Total time ...	10.4	16.2	6.1	12.0	6.7	7.9	7.1	11.3	10.3	13.6
Registered time ...	7.2	7.9	5.9	6.5	6.9	6.6	6.6	7.0	7.4	7.7
Postdoctoral activities (percent)										
Postdoctoral study plans	22.6	4.4	19.4	7.4	52.2	23.5	50.3	3.1	14.6	4.3
Fellowship ...	10.6	1.4	5.4	4.1	29.6	6.1	20.2	1.0	6.5	2.2
Research associateship ...	9.5	1.4	12.2	1.5	17.2	12.6	29.0	1.5	3.9	1.1
Traineeship ...	0.9	0.6	1.2	0.3	1.5	2.2	0.5	0.1	1.3	0.5
Other ...	1.4	0.9	0.5	1.5	3.9	0.4	0.6	0.4	1.2	0.6
Planned postdoctoral employment	67.1	86.7	68.2	61.1	39.6	65.4	40.7	85.5	74.0	83.9
Educational institution	39.6	63.0	25.1	65.4	20.6	48.4	11.3	71.4	35.7	53.9
Industry, business ...	13.0	6.0	32.5	4.6	6.4	10.5	22.4	9.6	12.4	6.1
Government ...	6.4	7.9	7.3	2.2	6.2	2.4	4.6	2.1	9.4	7.1
Nonprofit organization ...	4.5	5.4	1.0	4.4	2.2	1.1	0.6	0.9	10.6	11.4
Other and unknown ...	3.4	4.3	2.3	4.3	2.2	3.0	1.5	1.4	5.6	3.4
Postdoctoral status unknown	10.1	9.0	12.4	11.5	6.2	11.1	9.0	11.4	11.2	11.7
Definite postdoctoral study	16.7	2.6	11.6	3.9	41.2	16.1	39.7	1.7	10.1	2.6
Seeking postdoctoral study	6.0	1.6	7.6	3.5	11.0	7.4	10.6	1.3	4.7	1.6
Definite employment	48.4	84.6	47.3	55.0	26.1	46.2	30.7	72.4	51.3	65.7
Seeking employment.	16.7	22.0	20.9	26.1	11.5	19.2	10.0	13.1	22.6	18.2
Primary activity (percent)										
Research and development	27.6	5.3	64.6	7.4	48.9	36.9	68.9	29.9	23.0	6.8
Teaching ...	36.9	36.0	21.2	73.7	26.9	50.6	16.9	55.1	27.9	51.4
Administration ...	13.4	36.5	1.6	5.0	6.3	1.5	2.5	4.6	6.0	13.3
Professional services	13.2	12.5	5.4	4.6	6.4	2.9	4.7	3.5	34.3	16.7
Other ...	2.4	1.9	1.5	3.6	3.5	1.5	2.1	1.7	2.6	3.2
Region of employment after doctorate (percent)										
New England ...	6.2	5.1	6.6	9.2	3.6	5.3	7.5	5.5	7.1	5.1
Middle Atlantic ...	14.4	12.5	15.5	14.3	9.9	12.3	16.6	13.0	17.6	13.2
East North Central ...	13.6	13.7	10.6	16.2	12.4	11.7	13.7	15.5	12.9	16.0
West North Central ...	6.2	7.3	3.3	6.7	6.1	6.5	4.4	6.2	5.5	7.0
South Atlantic ...	14.6	16.7	11.3	13.4	13.0	12.9	12.5	15.9	17.2	14.0
East South Central ...	4.3	5.6	3.4	3.9	4.0	4.4	3.3	5.6	3.0	5.6
West South Central ...	7.7	6.9	6.1	6.9	6.1	5.6	6.6	11.3	6.7	9.3
Mountain ...	5.1	5.7	6.0	4.2	5.2	4.1	5.4	6.6	4.2	3.2
Pacific and insular	10.2	9.2	13.3	9.6	10.1	11.1	12.3	7.3	10.3	7.6
Foreign	10.1	5.7	17.2	7.1	20.0	17.5	10.0	10.0	7.6	10.7
Region unknown	7.5	9.4	6.4	6.5	5.6	6.4	5.6	3.0	7.6	6.1

<sup>1</sup> Includes Ph.D., Ed.D., and comparable degrees at the doctoral level. Excludes first-professional degrees, such as M.D., D.D.S., and D.V.M.

<sup>2</sup> Includes communications.

<sup>3</sup> Includes 450 degrees in computer sciences and 61 degrees in other or unspecified fields not shown separately.

<sup>4</sup> Within the racial/ethnic category, mathematics and computer sciences are included under physical sciences.

<sup>5</sup> Business administration is included under other professional fields.

<sup>6</sup> Includes business administration, communications, other professional fields, and other and unspecified.

NOTE.—The above classification of degrees by field differs somewhat from that in most publications of the National Center for Education Statistics (NCES). The major differences are that history is included under humanities rather than social sciences and that psychology is included under social sciences. The number of degrees also differs slightly from that reported in the NCES "Licenses and Other Formal Awards Conferred" survey. The above tabulation excludes some non-research doctorate degrees such as doctor's degrees in theology. Because of rounding, percents may not add to 100.0.

SOURCE: National Academy of Sciences, National Research Council, Office of Scientific and Engineering Personnel, *Summary Report 1987 Doctorate Recipients From United States Universities*. (This table was prepared March 1989.)

Table 244.—Statistical profile of persons receiving doctor's degrees in education: 1977-78 to 1986-87

Item	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	8	7	8	9	10	11
<b>Number of doctorates</b> .....	<b>7,190</b>	<b>7,370</b>	<b>7,576</b>	<b>7,489</b>	<b>7,226</b>	<b>7,147</b>	<b>6,780</b>	<b>6,717</b>	<b>6,602</b>	<b>6,447</b>
<b>Sex (percent)</b>										
Men .....	60.3	57.9	55.5	52.8	51.2	49.6	49.0	48.2	45.8	44.9
Women .....	39.7	42.1	44.5	47.2	48.8	50.4	51.0	51.8	54.4	55.1
<b>Racial/ethnic group (percent)<sup>1</sup></b>										
American Indian .....	0.8	0.9	0.7	0.6	0.4	0.8	0.5	0.8	0.4	0.8
Asian .....	2.8	2.9	3.2	3.4	3.9	4.2	4.2	4.2	3.8	4.1
Black .....	9.5	9.0	9.2	9.3	9.9	8.8	9.3	9.1	8.3	7.3
Mexican-American .....	(2)	(2)	0.7	1.1	1.1	1.1	1.1	0.8	1.3	1.1
Puerto Rican .....	(2)	(2)	0.3	0.5	0.8	0.7	0.5	1.1	0.4	0.8
Other Hispanic .....	(2)	(2)	1.4	1.1	1.3	1.5	1.2	1.8	1.8	1.3
White .....	77.3	76.4	77.7	77.3	77.3	78.5	78.2	78.5	78.3	76.7
Other and unknown .....	7.1	7.9	8.8	6.8	5.4	4.7	5.0	6.0	7.7	8.0
<b>Citizenship (percent)</b>										
United States .....	90.1	88.8	88.7	87.7	86.8	87.1	86.8	85.5	84.7	84.9
Foreign .....	7.5	8.1	8.2	8.8	9.9	9.8	9.8	10.4	9.8	9.2
Unknown .....	2.4	3.1	3.1	3.8	3.5	3.1	3.4	4.1	5.6	8.0
<b>Marital status (percent)</b>										
Married .....	89.7	89.3	88.7	87.9	87.1	87.5	86.8	86.9	85.1	85.7
Not married .....	26.0	26.2	26.8	27.3	28.3	28.1	28.6	27.8	27.4	26.7
Unknown .....	4.2	4.4	4.6	4.8	4.8	4.4	4.4	5.3	7.5	7.8
<b>Median age at doctorate (years)</b> .....	<b>38.5</b>	<b>36.5</b>	<b>37.0</b>	<b>37.3</b>	<b>37.4</b>	<b>37.8</b>	<b>38.4</b>	<b>38.7</b>	<b>39.4</b>	<b>39.8</b>
<b>Percent with bachelor's degree in same field as doctorate</b> .....	<b>39.7</b>	<b>38.8</b>	<b>39.0</b>	<b>38.9</b>	<b>39.9</b>	<b>39.5</b>	<b>39.8</b>	<b>38.7</b>	<b>39.0</b>	<b>37.8</b>
<b>Percent with master's degree</b> .....	<b>96.2</b>	<b>95.8</b>	<b>96.1</b>	<b>95.7</b>	<b>95.6</b>	<b>96.3</b>	<b>96.4</b>	<b>96.0</b>	<b>94.9</b>	<b>94.5</b>
<b>Median time lapse from bachelor's to doctorate (years)</b>										
Total time .....	12.7	12.7	13.1	13.5	13.8	14.1	14.6	15.1	15.7	18.2
Registered time .....	6.5	6.6	8.9	7.0	7.2	7.4	7.8	7.8	7.8	7.9

<sup>1</sup> Longitudinal comparisons by race/ethnicity should be done with extreme care, due to periodic changes in the survey.

<sup>2</sup> Hispanic subcategories were not collected until 1980.

NOTE.—The National Research Council's classification of degrees by field differs somewhat from that in most publications of the National Center for Education Statistics (NCES). The number of degrees also differs slightly from that reported in the NCES.

"Degrees and Other Formal Awards Conferred" survey. Because of rounding, percents may not add to 100.0.

SOURCE: National Academy of Sciences, National Research Council, Office of Scientific and Engineering Personnel, Doctorate Records File. (This table was prepared March 1989.)

Table 245.—Statistical profile of persons receiving doctor's degrees in engineering: 1977-78 to 1986-87

Item	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11
<b>Number of doctorates</b> .....	<b>2,423</b>	<b>2,484</b>	<b>2,479</b>	<b>2,528</b>	<b>2,644</b>	<b>2,780</b>	<b>2,915</b>	<b>3,165</b>	<b>3,376</b>	<b>3,716</b>
<b>Sex (percent)</b>										
Men.....	97.8	97.5	96.4	96.1	95.3	95.5	94.8	93.7	93.3	93.5
Women.....	2.2	2.5	3.6	3.9	4.7	4.5	5.2	6.3	6.7	6.6
<b>Racial/ethnic group (percent)<sup>1</sup></b>										
American Indian.....	0.5	0.2	0.1	0.2	0.1	( <sup>2</sup> )	0.1	( <sup>2</sup> )	0.1	0.2
Asian.....	26.3	29.0	29.9	31.8	31.5	32.4	35.2	36.4	32.1	34.6
Black.....	1.4	2.1	2.3	2.3	2.0	2.4	2.3	2.3	1.5	1.5
Mexican-American.....	( <sup>2</sup> )	( <sup>2</sup> )	0.4	0.7	0.3	0.4	0.3	0.3	0.2	0.4
Puerto Rican.....	( <sup>2</sup> )	( <sup>2</sup> )	0.1	0.2	0.4	0.2	0.2	0.2	0.3	0.1
Other Hispanic.....	( <sup>2</sup> )	( <sup>2</sup> )	2.6	2.8	2.7	2.9	2.2	2.2	2.3	2.2
White.....	60.9	57.6	57.4	55.3	54.3	53.9	51.7	48.9	50.4	49.2
Other and unknown.....	7.4	7.8	7.1	6.6	8.6	7.3	7.8	9.7	12.5	11.9
<b>Citizenship (percent)</b>										
United States.....	52.0	51.9	50.6	46.2	44.1	47.7	42.5	40.4	40.8	41.8
Foreign.....	45.1	45.6	46.3	49.1	50.1	47.0	52.9	54.6	50.8	50.7
Unknown.....	3.0	2.5	3.1	4.7	5.9	5.4	4.6	5.0	8.4	7.4
<b>Marital status (percent)</b>										
Married.....	64.9	64.7	62.1	61.6	61.5	61.2	58.6	59.6	59.1	58.4
Not married.....	30.3	31.2	32.7	32.1	31.7	32.5	34.8	33.5	31.0	31.4
Unknown.....	4.8	4.0	5.2	5.8	6.8	6.3	6.6	6.9	9.8	10.1
<b>Median age at doctorate (years)</b> .....	<b>30.2</b>	<b>30.3</b>	<b>30.3</b>	<b>30.5</b>	<b>30.7</b>	<b>30.8</b>	<b>30.7</b>	<b>30.9</b>	<b>31.0</b>	<b>31.0</b>
<b>Percent with bachelor's degree in same field as doctorate</b> .....	<b>78.2</b>	<b>77.9</b>	<b>75.2</b>	<b>74.1</b>	<b>72.4</b>	<b>74.0</b>	<b>74.3</b>	<b>74.2</b>	<b>73.0</b>	<b>75.2</b>
<b>Percent with master's degree</b> .....	<b>90.2</b>	<b>90.6</b>	<b>90.4</b>	<b>89.4</b>	<b>88.8</b>	<b>88.3</b>	<b>88.8</b>	<b>86.7</b>	<b>86.5</b>	<b>85.6</b>
<b>Median time lapse from bachelor's to doctorate (years)</b>										
Total time.....	7.5	7.6	7.6	7.9	8.0	8.0	8.0	8.1	8.1	8.1
Registered time.....	5.6	5.5	5.6	5.6	5.8	5.7	5.8	5.8	5.9	5.9

<sup>1</sup> Longitudinal comparisons by race/ethnicity should be done with extreme care, due to periodic changes in the survey.

<sup>2</sup> Less than 0.05 percent.

<sup>3</sup> Hispanic subcategories were not collected until 1980.

NOTE.—The National Research Council's classification of degrees by field differs somewhat from that in most publications of the National Center for Education Statistics.

(NCES) The number of degrees also differs slightly from that reported in the NCES "Degrees and Other Formal Awards Conferred" survey. Because of rounding, percents may not add to 100.

SOURCE: National Academy of Sciences, National Research Council, Office of Scientific and Engineering Personnel, Doctorate Records File (This table was prepared March 1989.)



Table 246.—Statistical profile of persons receiving doctor's degrees in the physical sciences: 1977-78 to 1986-87

Item	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11
<b>Number of doctorates</b> .....	<b>3,234</b>	<b>3,321</b>	<b>3,151</b>	<b>3,208</b>	<b>3,348</b>	<b>3,438</b>	<b>3,459</b>	<b>3,531</b>	<b>3,679</b>	<b>3,837</b>
<b>Sex (percent)</b>										
Men.....	90.4	89.4	87.7	88.1	86.3	86.4	85.4	83.7	83.6	83.3
Women.....	9.6	10.6	12.3	11.3	13.7	13.6	14.6	16.3	16.4	16.7
<b>Racial/ethnic group (percent) <sup>1</sup></b>										
American Indian.....	0.5	0.4	0.2	( <sup>2</sup> )	0.1	0.2	0.2	0.1	0.2	0.2
Asian.....	13.8	13.7	14.7	15.1	15.5	15.8	17.8	17.8	19.8	20.3
Black.....	1.8	1.7	1.2	1.7	1.6	1.4	1.8	1.5	1.4	1.2
Mexican-American.....	( <sup>3</sup> )	( <sup>3</sup> )	0.4	0.3	0.2	0.2	0.3	0.5	0.3	0.3
Puerto Rican.....	( <sup>3</sup> )	( <sup>3</sup> )	0.1	0.3	0.2	0.2	0.3	0.2	0.3	0.7
Other Hispanic.....	( <sup>3</sup> )	( <sup>3</sup> )	1.7	1.7	1.8	2.1	2.6	2.2	2.4	2.2
White.....	73.0	73.2	73.1	73.0	74.8	73.6	71.3	70.3	65.7	64.7
Other and unknown.....	8.6	8.6	8.6	7.7	5.8	6.3	5.8	7.6	9.9	10.4
<b>Citizenship (percent)</b>										
United States.....	77.1	77.4	75.9	75.4	75.0	74.0	73.6	70.3	66.1	65.1
Foreign.....	20.7	20.6	21.6	21.3	21.9	23.1	23.5	25.5	27.8	28.5
Unknown.....	2.2	2.0	2.4	3.3	3.1	2.9	2.9	4.1	6.1	6.4
<b>Marital status (percent)</b>										
Married.....	60.1	56.8	54.0	53.1	54.1	52.7	51.9	51.5	50.8	51.0
Not married.....	35.9	39.4	41.8	42.1	41.4	42.9	43.9	43.4	41.7	41.5
Unknown.....	3.9	3.8	4.3	4.8	4.5	4.3	4.2	5.1	7.5	7.5
<b>Median age at doctorate (years)</b> .....	<b>29.3</b>	<b>28.9</b>	<b>29.1</b>	<b>29.0</b>	<b>29.2</b>	<b>29.3</b>	<b>29.5</b>	<b>29.5</b>	<b>29.9</b>	<b>29.8</b>
<b>Percent with bachelor's degree in same field as doctorate</b> .....	<b>77.4</b>	<b>78.1</b>	<b>76.5</b>	<b>76.6</b>	<b>77.2</b>	<b>75.4</b>	<b>77.7</b>	<b>75.0</b>	<b>73.4</b>	<b>72.6</b>
<b>Percent with master's degree</b> .....	<b>57.7</b>	<b>56.1</b>	<b>54.6</b>	<b>53.8</b>	<b>53.6</b>	<b>54.4</b>	<b>53.2</b>	<b>52.4</b>	<b>52.1</b>	<b>52.6</b>
<b>Median time lapse from bachelor's to doctorate (years)</b>										
Total time.....	6.9	6.6	6.8	6.7	6.8	7.0	7.0	7.1	7.1	7.1
Registered time.....	5.7	5.6	5.7	5.7	5.8	5.9	6.0	6.0	6.1	6.6

<sup>1</sup> Longitudinal comparisons by race/ethnicity should be done with extreme care, due to periodic changes in the survey.

<sup>2</sup> Less than 0.05 percent.

<sup>3</sup> Hispanic subcategories were not collected until 1980.

(<sup>4</sup> CES) The number of degrees also differs slightly from that reported in the NCES "Degrees and Other Formal Awards Conferred" survey. Because of rounding, percentages may not add to 100.0.

NOTE.—The National Research Council's classification of degrees by field differs somewhat from that in most publications of the National Center for Education Statistics.

SOURCE: National Academy of Sciences, National Research Council, Office of Scientific and Engineering Personnel, Doctorate Records File (This table was prepared March 1989).

Table 247.—Statistical profile of persons receiving doctor's degrees in the social sciences: 1977-78 to 1986-87

Item	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11
<b>Number of doctorates.....</b>	<b>6,453</b>	<b>6,379</b>	<b>6,253</b>	<b>6,505</b>	<b>6,250</b>	<b>6,055</b>	<b>5,695</b>	<b>5,720</b>	<b>5,641</b>	<b>5,718</b>
<b>Sex (percent)</b>										
Men.....	69.8	67.0	65.4	64.4	63.3	60.7	59.2	58.9	57.6	57.2
Women.....	30.2	33.0	34.6	35.6	36.7	39.3	40.8	41.1	42.1	42.8
<b>Racial/ethnic group (percent)<sup>1</sup></b>										
American Indian.....	0.4	0.6	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.4
Asian.....	4.2	5.1	5.4	4.8	5.9	5.8	6.5	7.0	6.6	7.5
Black.....	4.7	4.6	4.4	4.5	5.0	4.3	4.8	4.8	4.3	4.0
Mexican-American.....	( )	( )	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Puerto Rican.....	( )	( )	0.3	0.2	0.5	0.3	0.5	0.4	0.5	0.4
Other Hispanic.....	( )	( )	1.8	1.6	1.5	1.9	1.9	1.8	2.4	2.3
White.....	78.5	77.9	79.5	80.2	78.2	79.7	77.6	76.4	75.6	73.9
Other and unknown.....	10.0	9.3	7.9	7.6	7.9	6.9	7.6	8.4	9.5	10.8
<b>Citizenship (percent)</b>										
United States.....	83.6	84.4	84.7	84.0	81.8	82.9	80.6	79.3	77.9	76.1
Foreign.....	11.7	11.6	11.6	11.9	12.6	12.5	14.1	15.3	15.3	15.7
Unknown.....	4.7	4.0	3.7	4.2	5.6	4.5	5.4	5.4	6.9	8.3
<b>Marital status (percent)</b>										
Married.....	59.2	57.4	57.4	56.6	55.4	55.1	54.9	53.5	53.9	53.2
Not married.....	33.8	36.5	37.2	37.5	37.6	38.8	38.2	39.3	37.5	36.8
Unknown.....	7.1	6.1	5.4	5.9	7.0	6.1	6.9	7.2	8.6	10.0
Median age at doctorate (years).....	30.9	31.5	31.6	32.0	32.3	32.4	32.7	33.0	33.4	33.5
Percent with bachelor's degree in same field as doctorate.....	57.7	56.4	58.6	59.1	57.4	58.9	59.3	58.5	57.0	56.4
Percent with master's degree.....	81.2	82.2	83.0	83.6	81.6	82.1	82.4	82.9	81.5	80.4
Median time lapse from bachelor's to doctorate (years)										
Total time.....	8.2	8.5	8.7	9.0	9.2	9.3	9.7	9.9	10.0	10.3
Registered time.....	6.0	6.2	6.4	6.5	6.7	6.8	7.1	7.1	7.2	7.4

<sup>1</sup> Longitudinal comparisons by race/ethnicity should be done with extreme care, due to periodic changes in the survey.

<sup>2</sup> Hispanic categories were not collected until 1980.

NOTE—The National Research Council's classification of degrees by field differs somewhat from that in most publications of the National Center for Education Statistics (NCES). The major differences are that history is included under humanities rather than

social sciences and that psychology is included under social sciences. The number of degrees also differs slightly from that reported in the NCES "Degrees and Other Formal Awards Conferred" survey. Because of rounding, percents may not add to 100.0.

SOURCE: National Academy of Sciences, National Research Council, Office of Scientific and Engineering Personnel, Doctorate Records File. (This table was prepared March 1989.)

Table 248.—Doctor's degrees<sup>1</sup> conferred by 60 large institutions of higher education: 1977-78 to 1986-87

Institution	Rank order <sup>2</sup>	Total, 1977-78 to 1986-87	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87 <sup>3</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
United States, all institutions	—	329,841	32,131	32,730	32,615	32,958	32,707	32,775	33,209	32,943	33,653	34,120
Total, 60 large institutions	—	199,282	19,974	20,184	20,075	20,228	19,915	19,355	19,890	19,727	19,800	20,124
University of California, Berkeley	1	7,163	766	709	735	872	712	702	898	689	753	727
University of Wisconsin, Madison	2	8,502	665	688	685	823	690	594	630	874	606	667
University of Michigan, Ann Arbor	3	8,137	635	660	569	552	605	584	738	607	598	589
Columbia University (N.Y.) <sup>4</sup>	4	6,002	630	585	630	810	587	529	603	625	610	593
University of Illinois, Urbana Campus	5	5,907	590	652	597	622	567	543	538	622	560	618
Ohio State University, Main Campus	8	5,553	587	575	566	530	586	563	521	543	512	570
Stanford University (Calif.)	7	4,978	490	527	458	495	469	451	497	497	530	562
University of Minnesota, Minneapolis-St. Paul	6	4,961	493	466	485	518	459	466	495	515	556	508
Harvard University (Mass.)	9	4,856	560	533	513	586	462	474	457	385	452	434
University of California, Los Angeles	10	4,739	485	495	479	559	481	465	465	449	433	448
University of Texas at Austin	11	4,688	453	455	432	452	418	418	427	474	545	612
Michigan State University	12	4,531	437	464	474	485	488	481	395	405	438	484
Cornell University (N.Y.) <sup>5</sup>	13	4,375	486	433	419	424	465	442	432	433	456	445
Massachusetts Institute of Technology	14	4,219	425	381	367	406	416	429	415	447	455	456
Indiana University, Bloomington	15	4,216	439	486	451	436	448	413	417	397	353	374
New York University	16	4,122	437	458	438	432	435	344	418	391	377	382
University of Southern California	17	3,889	427	435	424	365	365	308	424	424	363	354
University of Pittsburgh, Main Campus (Pa.)	18	3,888	384	360	383	357	426	407	389	398	390	394
Purdue University, Main Campus (Ind.)	19	3,824	381	374	367	396	377	388	383	389	379	370
Pennsylvania State University, Main Campus	20	3,678	340	370	385	394	389	394	364	371	350	341
University of Maryland, College Park Campus	21	3,583	334	387	310	346	364	—	387	373	370	378
University of Washington	22	3,556	310	342	351	342	368	360	358	342	345	411
University of Pennsylvania	23	3,502	335	331	335	323	398	361	406	367	341	307
Rutgers University, New Brunswick (N.J.)	24	3,467	339	387	323	381	340	372	362	343	320	320
University of Chicago (Ill.)	25	3,266	370	328	296	340	349	315	329	291	329	319
Boston University (Mass.)	26	3,040	259	274	338	318	314	324	333	278	307	299
Northwestern University (Ill.)	27	3,037	292	301	308	308	287	274	310	326	312	319
Nova University (Fla.)	28	3,017	352	399	447	332	294	240	210	209	263	271
University of Massachusetts at Amherst	29	2,984	348	318	282	317	298	264	266	300	290	311
Florida State University	30	2,941	303	343	370	338	318	293	273	257	224	226
Texas A&M University, Main Campus	31	2,940	262	257	290	274	253	286	298	315	336	369
University of Florida	32	2,921	298	313	281	295	237	299	294	301	290	313
Yale University (Conn.)	33	2,908	322	323	286	265	292	261	299	276	259	305
University of North Carolina at Chapel Hill	34	2,893	294	300	307	296	280	279	283	260	283	311
University of Georgia	35	2,854	277	252	268	268	282	298	270	355	309	275
University of Iowa	36	2,812	297	306	274	270	315	248	273	274	258	287
Temple University (Pa.)	37	2,554	289	237	260	230	237	227	243	264	277	290
University of Arizona	38	2,550	232	217	259	225	270	269	259	261	260	298
Iowa State University of Science and Technology	39	2,418	208	227	239	256	249	214	228	245	256	296
University of Kansas, Main Campus	40	2,356	263	252	238	222	236	212	241	260	211	221
Virginia Polytechnic Institute and State University	41	2,349	178	193	194	211	227	248	271	260	274	295
University of California, Davis	42	2,307	151	195	247	270	204	290	253	224	245	228
University of Tennessee, Knoxville	43	2,306	231	251	218	228	234	232	250	223	233	206
University of Colorado at Boulder	44	2,295	259	241	212	267	218	215	258	198	198	229
University of Missouri, Columbia	45	2,295	226	267	254	220	229	221	245	230	202	181
Vanderbilt University (Tenn.)	48	2,250	119	122	250	282	267	228	232	239	259	252
City University of New York Graduate School and University Center	47	2,236	284	261	190	212	203	208	200	234	237	292
Princeton University (N.J.)	48	2,210	224	242	185	217	230	231	226	211	216	218
University of Virginia, Main Campus	49	2,187	231	228	229	227	202	224	190	221	217	218
State University of New York at Buffalo, Main Campus	50	2,175	227	236	234	208	238	213	208	194	206	209
Johns Hopkins University (Md.)	51	2,080	218	196	164	209	187	187	212	254	220	213
University of Nebraska, Lincoln	52	2,017	198	189	206	222	201	203	215	179	201	203
Oklahoma State University, Main Campus	53	1,997	203	189	193	198	187	197	197	220	224	189
University of Oregon	54	1,918	182	198	201	207	215	197	208	173	197	140
North Carolina State University at Raleigh	55	1,841	152	185	164	159	191	177	210	204	219	200
University of Cincinnati, Main Campus (Ohio)	58	1,825	164	173	183	193	181	189	202	171	187	182
University of Connecticut	57	1,819	189	181	194	205	168	159	195	181	174	193
University of Utah	58	1,783	181	108	208	193	181	188	182	175	168	179
University of Rochester (N.Y.)	59	1,762	174	199	191	160	164	179	154	168	195	198
United States International University (Calif.)	60	1,777	149	138	209	284	226	139	172	128	157	115

<sup>1</sup> Includes Ph.D., Ed.D., and comparable degrees at the doctoral level. Excludes first-professional degrees (e.g., M.D., D.D.S., and D.V.M.).

<sup>2</sup> Institutions are ranked by the total number of doctor's degrees conferred during the 10-year period 1976-77 to 1986-87.

<sup>3</sup> Preliminary data.

<sup>4</sup> Includes degrees conferred by the Main Division and Teachers College.

<sup>5</sup> Includes degrees conferred by the Endowed and Statutory Colleges — Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics "Degrees and Other Formal Awards Conferred" surveys, and Integrated Postsecondary Education Data System (IPEDS), "Completions" survey (This table was prepared April 1989).

**Table 249.—Percent of the high school class of 1980 enrolled in postsecondary education, by attendance status, sex, race/ethnicity, socioeconomic status, and ability level: Fall 1980 to fall 1985**

Sex, race/ethnicity, socioeconomic status, and ability level	Fall 1980		Fall 1981		Fall 1982		Fall 1983		Fall 1984		Fall 1985	
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>46.1</b>	<b>5.8</b>	<b>43.1</b>	<b>6.6</b>	<b>34.1</b>	<b>9.9</b>	<b>33.3</b>	<b>6.8</b>	<b>17.1</b>	<b>7.5</b>	<b>10.4</b>	<b>7.6</b>
<b>Sex</b>												
Male.....	43.2	5.4	42.4	6.0	33.9	9.0	34.0	6.4	15.3	6.7	11.6	7.5
Female.....	48.9	6.1	43.8	7.1	34.3	10.8	32.7	7.1	15.9	8.1	9.2	7.8
<b>Race/ethnicity</b>												
White, non-Hispanic.....	47.7	5.8	44.6	6.6	35.5	10.2	34.7	6.7	18.0	7.6	10.5	7.8
Black, non-Hispanic.....	42.0	4.1	39.8	4.8	29.8	8.1	28.3	6.0	12.7	5.4	8.9	8.2
Hispanic.....	34.9	7.8	30.5	9.4	23.8	10.6	22.9	8.0	11.6	8.0	10.0	8.3
American Indian.....	34.2	5.3	35.0	6.9	21.0	11.9	22.4	8.2	14.8	2.1	10.5	2.8
Asian.....	67.4	12.0	64.6	12.8	57.7	15.8	53.8	10.9	37.2	13.6	20.8	16.8
<b>Socioeconomic status<sup>1</sup></b>												
Low.....	30.3	5.0	26.7	5.4	18.7	8.7	17.1	5.4	9.7	5.3	8.3	5.8
Low-middle.....	40.3	5.9	35.8	7.1	27.3	9.4	25.0	6.8	13.5	7.1	8.0	7.8
High-middle.....	51.9	7.0	48.5	7.2	38.0	11.7	36.7	8.0	18.2	8.6	10.5	7.8
High.....	70.2	5.6	68.4	6.9	59.3	11.0	60.1	7.8	29.2	9.5	18.5	9.0
<b>Ability level<sup>2</sup></b>												
Low.....	22.2	4.9	19.6	5.6	13.0	7.8	12.8	4.6	7.2	3.3	5.2	2.9
Low-middle.....	38.4	6.4	34.8	7.7	25.5	10.7	23.7	8.0	13.8	8.0	8.0	7.4
High-middle.....	58.1	6.3	52.3	7.8	39.9	13.1	39.2	8.0	19.6	8.3	11.7	8.4
High.....	75.1	5.7	73.3	6.1	63.8	10.3	63.5	7.1	30.8	9.6	18.4	11.1

<sup>1</sup> Socioeconomic status quartiles as measured by a composite score on parental education, family income, father's occupation, and household characteristics in 1980  
<sup>2</sup> Ability level quartiles as measured by performance on a test battery administered as part of the High School and Beyond survey in 1980

SOURCE U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey (This table was prepared October 1986)

**Table 250.—Percent of the high school class of 1980 enrolled in 4-year colleges, by attendance status, sex, race/ethnicity, socioeconomic status, and ability level: Fall 1980 to fall 1985**

Sex, race/ethnicity, socioeconomic status, and ability level	Fall 1980		Fall 1981		Fall 1982		Fall 1983		Fall 1984		Fall 1985	
	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time	Full-time	Part-time
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>30.3</b>	<b>1.5</b>	<b>28.9</b>	<b>1.6</b>	<b>26.3</b>	<b>3.4</b>	<b>27.9</b>	<b>2.7</b>	<b>13.8</b>	<b>4.3</b>	<b>7.9</b>	<b>4.2</b>
<b>Sex</b>												
Male.....	28.9	1.4	28.5	1.6	25.9	3.3	28.7	2.6	15.5	4.1	9.2	4.1
Female.....	31.6	1.5	29.3	1.6	26.6	3.5	27.2	2.7	12.3	4.6	6.7	4.3
<b>Race/ethnicity</b>												
White, non-Hispanic.....	31.8	1.5	30.6	1.6	28.0	3.5	29.8	2.7	14.7	4.4	8.3	4.2
Black, non-Hispanic.....	28.2	1.1	26.1	1.3	21.2	3.2	21.3	2.1	9.1	3.0	5.6	3.2
Hispanic.....	16.7	1.3	14.2	1.5	13.9	2.0	15.5	2.8	9.1	4.7	6.2	4.3
American Indian.....	14.5	1.3	14.4	1.8	13.2	2.7	15.7	2.3	9.8	1.0	6.6	1.0
Asian.....	44.6	4.0	43.1	4.0	42.6	6.6	46.4	4.7	34.0	8.5	18.3	8.3
<b>Socioeconomic status<sup>1</sup></b>												
Low.....	15.5	1.1	14.8	0.9	12.3	2.2	12.2	1.4	6.6	2.4	4.0	2.3
Low-middle.....	23.2	1.3	20.9	1.4	19.1	2.7	19.7	2.3	10.0	4.0	5.6	4.0
High-middle.....	33.5	1.4	31.4	1.6	28.7	3.6	29.6	3.2	14.6	4.7	8.0	4.5
High.....	55.0	2.3	54.6	2.5	49.8	5.3	54.3	3.7	25.9	6.8	16.1	8.2
<b>Ability level<sup>2</sup></b>												
Low.....	8.2	1.0	7.4	0.8	6.2	1.5	7.1	0.5	4.1	0.8	2.4	0.9
Low-middle.....	21.1	0.7	19.9	0.8	17.3	2.7	17.2	2.5	9.8	3.6	5.1	3.7
High-middle.....	35.8	1.7	32.9	2.3	29.6	4.5	32.5	3.6	15.5	5.8	9.2	4.5
High.....	62.9	2.3	61.5	2.6	56.8	5.2	58.8	3.8	28.8	7.3	17.0	8.0

<sup>1</sup> Socioeconomic status quartiles as measured by a composite score on parental education, family income, father's occupation, and household characteristics in 1980  
<sup>2</sup> Ability level quartiles as measured by performance on a test battery administered as part of the High School and Beyond survey in 1980

SOURCE U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey (This table was prepared October 1986)

**Table 251.—Mean number of semester credits completed by bachelor's degree recipients, by major and course area: 1972 to 1976 and 1980 to 1984**

Selected college majors	Course areas									
	Total	Business	Computer science	Education	Engineering	Mathematics	Biological sciences	Physical sciences	Social sciences	Other
1	2	3	4	5	6	7	8	9	10	11
<b>1972-76<sup>1</sup></b>										
Mean, all majors.....	124.0	7.8	1.0	9.7	2.3	7.4	7.6	9.0	30.3	48.8
Business and management.....	124.4	41.2	2.3	0.5	0.4	10.2	2.5	4.8	30.4	32.0
Computer science.....	133.3	6.6	33.5	0.4	5.3	22.4	1.9	7.8	20.6	34.8
Education.....	126.4	0.9	0.3	40.2	—	5.0	5.5	4.3	23.9	46.4
Engineering.....	134.8	1.6	2.0	0.1	50.0	18.2	1.3	20.5	14.0	27.1
English.....	117.8	0.5	0.1	7.8	0.1	3.2	3.4	3.4	24.2	75.2
Fine arts.....	124.9	0.3	0.1	6.6	—	1.3	2.5	2.1	13.6	98.4
Life sciences.....	122.2	0.4	0.8	1.7	—	8.4	35.6	26.2	17.8	31.3
Physical sciences.....	122.7	0.8	1.4	0.9	1.9	16.2	9.6	49.5	13.1	29.2
Psychology.....	119.1	2.0	0.5	5.9	0.3	5.5	6.2	5.9	56.0	36.9
Social sciences.....	120.6	3.4	0.4	3.3	0.4	5.3	3.2	4.3	60.3	40.1
<b>1980-84<sup>2</sup></b>										
Mean, all majors.....	123.5	12.8	3.3	6.2	4.6	8.4	5.3	8.1	27.5	47.2
Business and management.....	122.8	41.2	4.5	0.6	1.1	8.9	2.2	3.9	27.5	32.7
Computer science.....	129.3	11.8	27.9	0.3	4.7	21.3	1.8	8.5	19.0	33.9
Education.....	127.4	0.7	0.3	45.5	0.1	4.4	4.4	3.8	20.8	47.3
Engineering.....	132.3	1.0	2.3	0.8	52.5	16.2	1.1	20.2	12.3	25.9
English.....	114.8	1.7	1.5	6.9	—	2.2	2.1	4.7	21.4	74.4
Fine arts.....	120.5	1.7	0.6	5.1	—	1.7	2.7	1.5	14.1	93.1
Life sciences.....	121.9	0.7	1.5	1.9	0.2	10.1	33.5	22.6	18.1	33.3
Physical sciences.....	124.3	0.2	4.9	0.1	2.0	14.1	12.9	48.7	11.6	30.0
Psychology.....	120.7	3.0	2.7	2.1	—	6.5	5.8	4.2	55.2	41.2
Social sciences.....	119.2	6.0	1.4	1.0	0.5	5.4	4.4	5.1	52.0	43.3

<sup>1</sup> Sample survey based on 1972 high school seniors who completed bachelor's degrees by 1976

<sup>2</sup> Sample survey based on 1980 high school seniors who completed bachelor's degrees by 1984

—Data not reported or not applicable

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey (This table was prepared April 1986)

**Table 252.—Colleges and universities offering remedial instruction or tutoring, by type and control of institution: 1980, 1984, and 1988**

Type and control of institution	Percent of colleges offering remedial instruction or tutoring			Change in percentage points	
	1980	1984	1988	1980 to 1984	1984 to 1988
1	2	3	4	5	6
All 4-year colleges.....	78.9	85.8	89.0	6.9	3.2
All 2-year colleges.....	83.8	93.4	93.8	9.6	0.4
Public institutions					
4-year colleges.....	89.8	92.9	94.7	3.1	1.8
2-year colleges.....	89.6	97.2	98.9	7.6	1.7
Private institutions					
4-year colleges.....	73.8	82.5	86.3	8.7	3.6
2-year colleges.....	61.9	78.9	77.8	17.0	-1.1

SOURCE: College Entrance Examination Board, *Annual Survey of Colleges, 1986-87, Summary Statistics*, copyrighted, and unpublished tabulations (This table was prepared January 1989)

**Table 253.—Highest level of education attained by 1980 high school seniors, by selected student and school characteristics: Spring 1986**

Student and school characteristics	Highest educational attainment of 1980 high school seniors in 1986						
	Total	No high school diploma <sup>1</sup>	High school diploma	License <sup>2</sup>	Associate degree	Bachelor's degree	Graduate/professional degree
1	2	3	4	5	6	7	8
<b>Total</b> .....	<b>100.0</b>	<b>0.9</b>	<b>61.8</b>	<b>11.9</b>	<b>6.5</b>	<b>18.2</b>	<b>0.7</b>
<b>Sex</b> .....							
Men.....	100.0	1.0	64.0	10.5	5.9	17.6	0.9
Women.....	100.0	0.8	59.6	13.3	7.0	18.8	0.6
<b>Race/ethnicity</b> .....							
White, non-Hispanic.....	100.0	0.8	60.0	11.5	6.6	20.2	0.9
Black, non-Hispanic.....	100.0	1.2	69.4	13.9	5.3	9.9	0.2
Hispanic.....	100.0	1.7	70.2	13.8	7.3	6.8	0.1
Asian.....	100.0	( <sup>3</sup> )	49.6	12.6	8.7	27.3	1.7
American Indian.....	100.0	( <sup>3</sup> )	61.2	18.6	9.3	10.8	( <sup>3</sup> )
<b>Socioeconomic status group<sup>4</sup></b> .....							
Low.....	100.0	1.2	74.1	12.3	5.5	6.6	0.2
Low-middle.....	100.0	0.5	66.7	13.6	8.0	11.1	0.2
High-middle.....	100.0	0.1	58.4	12.9	7.7	20.4	0.6
High.....	100.0	( <sup>3</sup> )	45.7	8.7	6.3	37.1	2.2
<b>High school program<sup>5</sup></b> .....							
General.....	100.0	0.8	69.7	12.6	6.5	10.2	0.2
Academic.....	100.0	0.1	45.6	8.8	7.2	36.6	1.6
Vocational.....	100.0	0.6	72.8	16.2	6.9	3.6	0.0
<b>Postsecondary education plans<sup>6</sup></b> .....							
No plans.....	100.0	1.4	83.5	12.7	2.1	0.2	( <sup>3</sup> )
Attend vocational/technical school.....	100.0	0.3	72.5	17.7	8.4	1.1	( <sup>3</sup> )
Attend college less than 4 years.....	100.0	0.2	65.5	14.4	13.1	6.8	( <sup>3</sup> )
Earn bachelor's degree.....	100.0	( <sup>3</sup> )	48.3	8.2	6.9	35.8	0.7
Earn advanced degree.....	100.0	0.1	43.5	7.9	4.9	40.6	3.0
<b>Type of high school</b> .....							
Public.....	100.0	1.0	63.2	12.1	6.6	16.4	0.7
Catholic.....	100.0	( <sup>3</sup> )	47.4	11.9	6.4	32.8	1.6
Other private.....	100.0	( <sup>3</sup> )	52.3	7.0	3.9	36.7	0.1

<sup>1</sup> Seniors who dropped out of high school after spring 1980 survey and had not completed high school by 1986.  
<sup>2</sup> Persons who earned a certificate for completing a program of study.  
<sup>3</sup> Less than .05 percent.  
<sup>4</sup> Socioeconomic status was measured by a composite score on parental education, family income, father's occupation, and household characteristics in 1980.  
<sup>5</sup> Students' self-reported high school program.  
<sup>6</sup> During their senior year of high school, students were asked about the highest level of education they planned to attain. Students who planned to get less than a high

school education or a high school education only were classified as having no postsecondary education plans.  
 NOTE—Because of rounding, percents may not add to 100.0.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey (This table was prepared September 1987.)

**Table 254.—Highest level of education attained by 1980 high school seniors, by race/ethnicity and October 1980 postsecondary education attendance status: Spring 1986**

Race/ethnicity and October 1980 postsecondary education attendance status	Highest educational attainment 1980 high school seniors in 1986						
	Total	No high school diploma <sup>1</sup>	High school diploma	License <sup>2</sup>	Associate degree	Bachelor's degree	Graduate/professional degree
1	2	3	4	5	6	7	8
<b>All students</b>							
Part-time 2-year public college.....	100 0	0 7	66.4	17.7	8 8	6.5	( <sup>3</sup> )
Part-time 4-year public college.....	100 0	2 7	57 1	15.4	1.6	22 6	0.6
Full-time 2-year public college.....	100 0	( <sup>3</sup> )	49 5	11 7	20 7	17.6	0.5
Full-time 4-year public college.....	100 0	( <sup>3</sup> )	41 7	7.6	4 5	44 9	1.3
Full-time 4-year private college.....	100 0	( <sup>3</sup> )	31 1	8.8	5 1	51 9	3.0
Not a student.....	100 0	1 8	78 2	12 8	3.6	3.5	0.2
<b>White</b>							
Part-time 2-year public college.....	100.0	0 8	67 7	17.9	6.9	6 7	( <sup>3</sup> )
Part-time 4-year public college.....	100.0	3.4	54.8	14.5	0.3	27 0	( <sup>3</sup> )
Full-time 2-year public college.....	100 0	( <sup>3</sup> )	48 6	10.8	20 7	19.3	0 7
Full-time 4-year public college.....	100 0	( <sup>3</sup> )	39 0	6 8	4.8	48.0	1.5
Full-time 4-year private college.....	100 0	( <sup>3</sup> )	28 1	7.9	5.1	55.7	3.3
Not a student.....	100.0	1 6	78 5	12.7	3.5	3.5	0.2
<b>Black</b>							
Part-time 2-year public college.....	100.0	( <sup>3</sup> )	65 8	22.1	9.8	2.3	( <sup>3</sup> )
Part-time 4-year public college.....	100.0	( <sup>3</sup> )	58 5	25.1	6.0	8 5	1.8
Full-time 2-year public college.....	100 0	( <sup>3</sup> )	52.8	19 2	18.9	9.1	( <sup>3</sup> )
Full-time 4-year public college.....	100 0	( <sup>3</sup> )	59.4	11 2	3.4	25 6	0.5
Full-time 4-year private college.....	100 0	( <sup>3</sup> )	50 5	15.0	5.5	28 5	0 6
Not a student.....	100 0	2.2	78.1	13.3	3.6	2.8	( <sup>3</sup> )
<b>Hispanic</b>							
Part-time 2-year public college.....	100.0	( <sup>3</sup> )	57.0	14.9	23 4	4.4	( <sup>3</sup> )
Part-time 4-year public college.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Full-time 2-year public college.....	100.0	( <sup>3</sup> )	53 9	14 9	22.7	8.5	( <sup>3</sup> )
Full-time 4-year public college.....	100 0	( <sup>3</sup> )	51 1	18.4	4.1	25.6	0.9
Full-time 4-year private college.....	100 0	( <sup>3</sup> )	46.8	19 4	6 1	26.8	1 0
Not a student.....	100 0	3.1	83 2	10 3	2 4	0 9	( <sup>3</sup> )

<sup>1</sup> Seniors who dropped out of high school after spring 1980 survey and had not completed high school by 1986  
<sup>2</sup> Includes persons who earned a certificate for completing a program of study  
<sup>3</sup> Less than .05 percent  
<sup>4</sup> Fewer than 30 cases available for analysis. Estimates are suppressed because they are unreliable

NOTE—Because of rounding, percents may not add to 100 0

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey. (This table was prepared September 1987.)

**Table 255.—Highest level of education attained by 1980 high school seniors, by socioeconomic status and race/ethnicity: Spring 1986**

Socioeconomic status <sup>1</sup> in 1980 and race/ethnicity	Highest educational attainment of 1980 high school seniors in 1986						
	Total	No high school diploma <sup>2</sup>	High school diploma	License <sup>3</sup>	Associate degree	Bachelor's degree	Graduate/professional degree
1	2	3	4	5	6	7	8
<b>Lower 25 percent</b>							
White, non-Hispanic.....	100 0	0 9	75 1	12 2	5 0	6.6	0 3
Black, non-Hispanic.....	100 0	1 4	73 0	12 7	5 1	7.7	0 1
Hispanic.....	100 0	1 6	73 3	11 8	7.8	4.9	( <sup>4</sup> )
Asian.....	100 0	( <sup>4</sup> )	53 4	17 3	15 7	12 0	1 6
<b>Middle 50 percent</b>							
White, non-Hispanic.....	100 0	0 3	62 0	13 0	8 0	16.3	0 4
Black, non-Hispanic.....	100 0	0 3	67 5	14 7	6 5	10 7	0 3
Hispanic.....	100 0	1 0	67 0	14 7	6 5	10.7	0 2
Asian.....	100 0	( <sup>4</sup> )	51 1	11 7	11 1	5 1	( <sup>4</sup> )
<b>Upper 25 percent</b>							
White, non-Hispanic.....	100 0	( <sup>4</sup> )	44 9	8 6	6 2	38 2	2 2
Black, non-Hispanic.....	100 0	( <sup>4</sup> )	56 3	12 4	5.4	25 5	0 4
Hispanic.....	100 0	0 3	60 0	11 4	9 6	18 0	0 7
Asian.....	100 0	( <sup>4</sup> )	42 9	6 5	4 8	40 0	5 9

<sup>1</sup> Socioeconomic status was measured by a composite score on parental education, family income, father's occupation, and household characteristics in 1980  
<sup>2</sup> Seniors who dropped out of high school after spring 1980 survey and had not completed high school by 1986  
<sup>3</sup> Includes persons who earned a certificate for completing a program of study  
<sup>4</sup> Less than .05 percent

NOTE—Because of rounding, percents may not add to 100 0

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond survey. (This table was prepared September 1987.)

**Table 256.—Cumulative percent of 1972, 1980, and 1982 high school graduates completing college, by level of degree and selected student characteristics: 1976 to 1986**

Student characteristics	1972 high school seniors												1980 high school seniors			
	1- to 2-year degree, <sup>1</sup> by year of attainment						Bachelor's degree, by year of attainment						1- to 2-year degree <sup>1</sup>		Bachelor's degree <sup>1</sup>	1982 high school seniors 1- to 2-year degree
	June 1976	June 1978	June 1980	June 1982	June 1984	June 1986	June 1976	June 1978	June 1980	June 1982	June 1984	June 1986	Feb. 1984	Feb. 1986	Feb. 1986	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Total</b> .....	<b>6.39</b>	<b>7.87</b>	<b>9.35</b>	<b>11.76</b>	<b>14.22</b>	<b>16.59</b>	<b>14.33</b>	<b>23.71</b>	<b>25.14</b>	<b>26.42</b>	<b>27.08</b>	<b>27.68</b>	<b>8.84</b>	<b>12.51</b>	<b>18.77</b>	<b>7.85</b>
<b>Sex</b>																
Male.....	5.57	7.09	8.58	10.84	13.69	15.81	13.32	25.64	27.47	28.71	29.57	30.09	7.70	10.84	18.35	5.94
Female.....	7.16	8.62	10.02	12.64	14.73	17.33	15.29	21.87	22.92	24.24	24.72	25.39	9.92	14.08	19.17	9.59
<b>Race/ethnicity</b>																
White.....	6.94	8.52	9.91	12.11	14.72	16.99	15.61	25.46	26.98	28.05	28.76	29.39	9.03	12.54	20.79	7.93
Black.....	2.14	3.48	4.89	9.36	11.09	14.61	7.75	13.49	14.69	18.29	18.66	19.18	6.37	10.42	10.14	7.14
Hispanic.....	3.29	4.01	6.59	9.07	10.99	13.69	3.09	9.13	9.70	10.44	10.81	10.88	9.16	14.71	6.75	9.49
Asian.....	8.02	8.02	12.77	21.00	25.49	27.66	5.76	5.76	5.76	10.72	15.29	18.52	11.63	15.68	28.65	5.29
American Indian.....	4.11	5.51	11.36	20.06	23.46	26.23	29.19	48.48	53.23	54.93	54.93	56.06	16.88	20.35	9.22	5.79
<b>Ability level<sup>2</sup></b>																
Lower 25 percent.....	3.48	4.20	4.94	5.91	7.14	9.27	1.47	3.80	4.12	4.68	4.98	5.14	6.02	8.71	2.98	7.31
Middle 50 percent.....	8.23	9.84	11.63	14.73	17.15	19.15	8.70	17.75	19.15	20.77	21.54	22.05	10.83	15.06	15.53	9.36
Upper 25 percent.....	7.04	8.76	10.28	13.43	16.77	18.68	31.76	47.94	50.04	51.81	52.61	53.56	9.32	12.18	41.82	5.46
<b>High school grades</b>																
A.....	7.89	8.72	9.72	13.52	16.95	19.02	41.94	57.21	59.27	59.82	60.20	60.65	8.17	11.29	48.95	3.85
A to B.....	7.40	9.45	10.91	12.95	14.93	16.95	23.48	38.04	39.31	40.94	41.50	42.37	12.61	15.92	28.54	7.08
B.....	7.07	8.12	9.88	11.74	14.91	16.79	12.31	22.75	24.92	26.16	27.02	28.02	9.72	14.00	18.49	9.46
B to C.....	6.79	8.58	10.21	12.83	15.63	18.15	6.00	13.10	14.29	16.08	17.04	17.46	9.65	12.47	8.95	8.52
C.....	2.58	3.99	5.22	7.74	9.27	12.77	2.37	5.40	6.09	6.82	7.20	7.74	5.41	9.97	2.50	7.19
D.....	3.22	3.51	5.04	6.97	8.00	9.74	1.08	2.81	3.61	4.26	4.51	4.51	2.96	7.63	1.26	6.20
<b>High school program</b>																
General.....	5.43	6.90	8.04	10.07	11.91	14.68	5.57	10.77	11.96	13.12	13.73	14.21	8.50	12.04	9.96	8.49
Academic.....	7.96	9.79	11.64	15.00	18.50	20.88	27.50	43.56	45.58	47.42	48.21	49.08	10.24	13.96	37.40	6.77
Vocational/technical.....	4.71	5.53	6.78	7.88	9.22	10.93	1.29	3.69	4.29	4.68	5.15	5.39	9.08	12.60	3.44	9.22
<b>Socioeconomic status<sup>4</sup></b>																
Lower 25 percent.....	4.19	5.30	6.72	8.19	9.91	12.38	5.02	8.89	10.08	11.00	11.55	11.97	7.12	10.06	6.84	7.99
Middle 50 percent.....	7.22	8.64	10.08	12.41	15.08	17.40	10.92	19.17	20.28	21.77	22.39	23.04	10.01	13.89	15.56	8.52
Upper 25 percent.....	6.73	8.67	10.28	13.69	16.40	18.75	29.13	45.61	47.86	49.10	49.93	50.58	9.88	13.36	38.25	6.35

<sup>1</sup> Includes licenses, awards, and associate degree programs of 1 to 2 years duration  
<sup>2</sup> Ability level as measured by a test battery administered as part of the High School and Beyond survey  
<sup>3</sup> Low C or D grade average  
<sup>4</sup> Socioeconomic status as measured by a composite score on parental education, family income, father's occupation, and household characteristics

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond and National Longitudinal Study surveys, unpublished tabulations. (This table was prepared November 1988.)



**Table 257.—Changes in scores on Graduate Record Examination (GRE) and professional school admission tests: 1964 to 1987<sup>1</sup>**

Magnitude of change and test	Change in standard deviation units <sup>2</sup>	
	Long-term (1964-1987)	Short-term (1976-1987)
1	2	3
<b>Moderate increase (+0.20 to +0.39)</b>		
Mathematics (GRE <sup>3</sup> area test)	+0.37	+0.12
LSAT <sup>4</sup> (1975-1982)	+0.21	—
<b>Small increase (+0.10 to +0.19)</b>		
Biology (MCAT <sup>5</sup> subtest, 1977-1982)	+0.15	—
Physics (GRE area test)	+0.13	-0.10
GRE quantitative	+0.12	+0.26
<b>No change (-0.09 to +0.09)</b>		
Chemistry (GRE area test)	+0.01	-0.01
Engineering (GRE area test)	+0.01	+0.23
Biology (GRE area test)	-0.01	-0.08
Chemistry (MCAT subtest; 1977-1982)	-0.06	—
Computer science	—	+0.07
<b>Small decline (-0.10 to -0.19)</b>		
Economics (GRE area test)	-0.10	+0.07
Reading (MCAT subtest; 1977-1982)	-0.10	—
GMAT <sup>6</sup>	-0.16	—
Education (GRE area test)	-0.18	+0.13
<b>Moderate decline (-0.20 to -0.39)</b>		
Psychology (GRE area test)	-0.21	+0.04
MCAT quantitative (1977-1982)	-0.22	—
Music (GRE area test)	-0.22	+0.05
Geology (GRE area test; 1967-1987)	-0.31	-0.08
<b>Large decline (-0.40 to -0.74)</b>		
GRE verbal	-0.42	-0.10
English literature (GRE area test)	-0.67	-0.06
French (GRE area test; 1964-1979)	-0.68	—
History (GRE area test)	-0.74	-0.08
<b>Extreme decline (-0.75 and below)</b>		
Sociology (GRE area test)	-1.04	-0.22
Political science (GRE area test)	-1.14	-0.23

<sup>1</sup> Test score changes are for these years unless indicated otherwise

<sup>2</sup> Computed as the change in scale points divided by the mean standard deviation for the entire period

<sup>3</sup> GRE—Graduate Record Examination

<sup>4</sup> LSAT—Law School Admissions Test

<sup>5</sup> MCAT—Medical College Admission Test

<sup>6</sup> GMAT—Graduate Management Admissions Test

—Data not available

SOURCE U.S. Department of Education, National Institute of Education, *The Standardized Test Scores of College Graduates, 1964-1982, 1985*, and National Center for Education Statistics, *The Condition of Education, 1988* (This table was prepared May 1989)

**Table 258.—Average undergraduate tuition and fees and room and board rates<sup>1</sup> in institutions of higher education, by type and control of institution: 1964-65 to 1987-88**

Year and control of institution	Total tuition, room, and board					Tuition and required fees (in-State)					Dormitory rooms					Board (7-day basis)				
	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year
		All 4-year	Universities	Other 4-year			All 4-year	Universities	Other 4-year			All 4-year	Universities	Other 4-year			All 4-year	Universities	Other 4-year	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>All institutions</b>																				
1976-77.....	\$2,275	\$2,577	\$2,647	\$2,527	\$1,598	\$924	\$1,218	\$1,210	\$1,223	\$346	\$603	\$611	\$649	\$584	\$503	\$748	\$748	\$788	\$719	\$750
1977-78.....	2,411	2,725	2,777	2,685	1,703	984	1,291	1,269	1,305	378	645	654	691	628	525	781	780	818	752	801
1978-79.....	2,587	2,917	2,967	2,879	1,828	1,073	1,397	1,370	1,413	411	688	696	737	667	575	826	825	860	800	842
1979-80.....	2,809	3,167	3,223	3,124	1,979	1,163	1,513	1,484	1,530	451	751	759	803	729	628	895	895	936	865	900
1980-81.....	3,151	3,499	3,535	3,469	2,230	1,289	1,679	1,634	1,705	526	836	846	881	821	705	976	975	1,020	943	1,000
1981-82.....	3,489	3,951	4,005	3,908	2,476	1,457	1,907	1,860	1,935	590	950	961	1,023	919	793	1,083	1,082	1,121	1,055	1,094
1982-83.....	3,877	4,406	4,466	4,356	2,713	1,626	2,139	2,081	2,173	675	1,064	1,078	1,150	1,028	873	1,187	1,189	1,235	1,155	1,165
1983-84.....	4,167	4,747	4,793	4,712	2,854	1,783	2,344	2,300	2,368	730	1,145	1,162	1,211	1,130	916	1,239	1,242	1,282	1,214	1,208
1984-85.....	4,563	5,160	5,236	5,107	3,179	1,985	2,567	2,539	2,583	821	1,267	1,282	1,343	1,242	1,058	1,310	1,311	1,353	1,282	1,301
1985-86 <sup>1</sup> .....	4,885	5,504	5,597	5,441	3,367	2,181	2,784	2,770	2,793	888	1,338	1,355	1,424	1,309	1,107	1,365	1,365	1,403	1,339	1,372
1986-87 <sup>2</sup> .....	5,206	5,964	6,124	5,857	3,295	2,312	3,042	3,042	3,042	897	1,405	1,427	1,501	1,376	1,034	1,489	1,495	1,581	1,439	1,364
1987-88 <sup>3</sup> .....	5,510	6,320	6,460	6,220	3,500	2,480	3,260	3,230	3,270	950	1,470	1,490	1,580	1,440	1,110	1,560	1,570	1,650	1,510	1,440
<b>Public institutions</b>																				
1964-65.....	950	—	1,051	867	638	243	—	298	224	99	271	—	291	241	178	436	—	462	402	361
1965-66.....	983	—	1,105	904	670	257	—	327	241	109	281	—	304	255	194	445	—	474	408	367
1966-67.....	1,026	—	1,171	947	710	275	—	360	259	121	294	—	321	271	213	457	—	490	417	376
1967-68.....	1,064	—	1,199	997	789	283	—	366	268	144	313	—	337	292	243	468	—	496	437	402
1968-69.....	1,117	—	1,245	1,063	883	295	—	377	281	170	337	—	359	318	278	485	—	509	464	435
1969-70.....	1,203	—	1,362	1,135	951	323	—	427	306	178	369	—	395	346	308	511	—	540	483	465
1970-71.....	1,287	—	1,477	1,206	998	351	—	478	332	187	401	—	431	375	338	535	—	568	499	473
1971-72.....	1,357	—	1,579	1,283	1,073	376	—	526	354	192	430	—	463	400	366	551	—	590	509	515
1972-73.....	1,458	—	1,668	1,460	1,197	407	—	566	455	233	476	—	500	455	398	575	—	602	550	566
1973-74.....	1,517	—	1,707	1,506	1,274	438	—	581	463	274	480	—	505	464	409	599	—	621	579	591
1974-75.....	1,583	—	1,760	1,558	1,339	432	—	599	448	277	506	—	527	497	424	625	—	634	613	638
1975-76.....	1,666	—	1,935	1,657	1,386	433	—	642	469	245	544	—	573	533	442	689	—	720	655	699
1976-77.....	1,789	1,935	2,067	1,827	1,491	479	617	689	564	283	582	592	614	572	465	728	727	763	692	742
1977-78.....	1,888	2,038	2,170	1,931	1,590	512	655	736	596	306	621	631	649	616	486	755	752	785	720	797
1978-79.....	1,994	2,145	2,289	2,027	1,691	543	688	777	622	327	655	664	689	641	527	796	793	823	764	837
1979-80.....	2,165	2,327	2,487	2,198	1,822	583	738	840	662	355	715	725	750	703	574	867	865	898	833	893
1980-81.....	2,373	2,550	2,712	2,421	2,027	635	804	915	722	391	799	811	827	796	642	940	936	969	904	994
1981-82.....	2,663	2,871	3,079	2,705	2,224	714	909	1,042	813	434	909	925	970	885	703	1,039	1,036	1,067	1,006	1,086
1982-83.....	2,945	3,196	3,403	3,022	2,390	798	1,031	1,164	936	473	1,010	1,030	1,072	993	755	1,136	1,134	1,167	1,103	1,162
1983-84.....	3,156	3,433	3,628	3,285	2,534	891	1,148	1,284	1,052	528	1,087	1,110	1,131	1,092	801	1,178	1,175	1,213	1,141	1,205
1984-85.....	3,408	3,682	3,899	3,518	2,807	971	1,228	1,386	1,117	584	1,196	1,217	1,237	1,200	921	1,241	1,237	1,276	1,201	1,302
1985-86 <sup>1</sup> .....	3,571	3,859	4,146	3,637	2,981	1,045	1,318	1,536	1,157	641	1,242	1,263	1,290	1,240	960	1,285	1,278	1,320	1,240	1,380
1986-87 <sup>2</sup> .....	3,805	4,138	4,469	3,891	2,989	1,106	1,414	1,651	1,248	660	1,301	1,323	1,355	1,295	979	1,398	1,401	1,464	1,348	1,349
1987-88 <sup>3</sup> .....	3,960	4,320	4,680	4,060	3,160	1,160	1,490	1,750	1,320	690	1,350	1,370	1,410	1,340	1,050	1,450	1,460	1,520	1,400	1,420
<b>Private institutions</b>																				
1964-65.....	1,907	—	2,202	1,810	1,455	1,088	—	1,297	1,023	702	331	—	390	308	289	486	—	515	479	464
1965-66.....	2,005	—	2,316	1,899	1,557	1,154	—	1,369	1,086	768	356	—	418	330	316	495	—	529	483	473
1966-67.....	2,124	—	2,456	2,007	1,679	1,233	—	1,456	1,162	845	385	—	452	355	347	506	—	548	490	487
1967-68.....	2,205	—	2,545	2,104	1,762	1,297	—	1,534	1,237	892	392	—	455	366	366	516	—	556	501	504
1968-69.....	2,321	—	2,673	2,237	1,876	1,383	—	1,638	1,335	956	404	—	463	382	391	531	—	572	520	529

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**Table 258.—Average undergraduate tuition and fees and room and board rates<sup>1</sup> in institutions of higher education, by type and control of institution: 1964-65 to 1987-88—Continued**

Year and control of institution	Total tuition, room, and board					Tuition and required fees (in-State)					Dormitory rooms					Board (7-day basis)				
	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year	All institutions	4-year institutions			2-year
		All 4-year	Univer-sities	Other 4-year			All 4-year	Univer-sities	Other 4-year			All 4-year	Univer-sities	Other 4-year			All 4-year	Univer-sities	Other 4-year	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1969-70.....	\$2,530	—	\$2,920	\$2,420	\$1,993	\$1,533	—	\$1,809	\$1,468	\$1,034	\$436	—	\$503	\$409	\$413	\$561	—	\$608	\$543	\$546
1970-71.....	2,738	—	3,163	2,599	2,103	1,684	—	1,980	1,603	1,109	466	—	542	434	434	586	—	641	562	560
1971-72.....	2,917	—	3,375	2,748	2,186	1,820	—	2,133	1,721	1,172	494	—	576	454	449	603	—	666	573	565
1972-73.....	3,038	—	3,512	2,934	2,273	1,898	—	2,226	1,848	1,221	524	—	622	490	457	616	—	664	598	595
1973-74.....	3,164	—	3,717	3,040	2,410	1,989	—	2,375	1,925	1,303	533	—	622	502	483	642	—	720	613	624
1974-75.....	3,403	—	4,076	3,156	2,591	2,117	—	2,614	1,954	1,367	586	—	691	536	564	700	—	771	666	660
1975-76.....	3,663	—	4,467	3,385	2,711	2,272	—	2,881	2,084	1,427	636	—	753	583	572	755	—	833	718	712
1976-77.....	3,806	\$3,977	4,715	3,714	2,971	2,467	\$2,534	3,051	2,351	1,592	649	\$651	783	604	607	790	\$791	882	759	772
1977-78.....	4,158	4,240	5,033	3,967	3,148	2,624	2,700	3,240	2,520	1,706	698	702	850	648	631	836	838	943	800	811
1978-79.....	4,514	4,609	5,403	4,327	3,389	2,867	2,958	3,487	2,771	1,831	758	761	916	704	700	889	890	1,000	851	858
1979-80.....	4,912	5,013	5,891	4,700	3,751	3,130	3,225	3,811	3,020	2,062	827	851	1,001	768	766	955	957	1,078	912	923
1980-81.....	5,470	5,594	6,569	5,249	4,303	3,498	3,617	4,275	3,390	2,413	918	921	1,086	859	871	1,054	1,056	1,209	1,000	1,019
1981-82.....	6,166	6,330	7,443	5,947	4,746	3,953	4,113	4,887	3,853	2,605	1,038	1,039	1,229	970	1,022	1,175	1,178	1,327	1,124	1,119
1982-83.....	6,920	7,126	8,536	6,646	5,364	4,439	4,639	5,583	4,329	3,008	1,181	1,181	1,453	1,083	1,177	1,300	1,306	1,501	1,234	1,179
1983-84.....	7,508	7,759	9,308	7,244	5,571	4,851	5,093	6,217	4,726	3,099	1,278	1,279	1,531	1,191	1,253	1,380	1,387	1,559	1,327	1,219
1984-85.....	8,202	8,451	10,243	7,849	6,203	5,315	5,556	6,843	5,135	3,485	1,426	1,426	1,753	1,309	1,424	1,462	1,469	1,647	1,405	1,294
1985-86.....	8,885	9,228	11,034	8,551	6,512	5,789	6,121	7,374	5,641	3,672	1,553	1,557	1,940	1,420	1,500	1,542	1,551	1,720	1,490	1,340
1986-87 <sup>2</sup> .....	9,676	10,039	12,278	9,276	6,384	6,316	6,658	8,118	6,171	3,684	1,658	1,673	2,097	1,518	1,266	1,702	1,708	2,063	1,587	1,434
1987-88 <sup>3</sup> .....	10,190	10,800	13,220	9,970	6,790	6,820	7,200	8,770	6,670	3,910	1,760	1,780	2,250	1,610	1,360	1,810	1,820	2,200	1,690	1,520

<sup>1</sup> Room and board data are estimated.

<sup>2</sup> Because of revisions in data collection procedures, figures are not entirely comparable with those for previous years. In particular, data on board rates are somewhat higher than earlier years because they reflect a basis of 20 meals per week rather than meals served 7 days per week. Since many institutions serve fewer than 3 meals each day, the 1986-87 and 1987-88 data reflect a more complete accounting of total board costs. Because of their low response rate, data for private 2-year colleges must be interpreted with caution.

<sup>3</sup> Estimated data based on information collected by the College Board. See footnote 2.

—Data not available.

NOTE.—Data are for the entire academic year and are average charges paid by students. Tuition and fees were weighted by the number of full-time-equivalent undergraduates but are not adjusted to reflect student residency. Room

and board were based on full-time students. The data have not been adjusted for changes in the purchasing power of the dollar. Some data have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Institutional Characteristics of Colleges and Universities" and "Fall Enrollment in Institutions of Higher Education" surveys, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment", and College Board, news release, August 7, 1989. (This table was prepared June 1989.)

**Table 259.—Average undergraduate tuition and fees and room and board rates<sup>1</sup> in institutions of higher education, by control of institution and by State: 1986-87**

State	Public 4-year				Private 4-year				2-year, tuition only	
	Total	Tuition (in-State)	Room	Board	Total	Tuition	Room	Board	Public	Private
1	2	3	4	5	6	7	8	9	10	11
<b>United States.....</b>	<b>\$4,138</b>	<b>\$1,414</b>	<b>\$1,323</b>	<b>\$1,401</b>	<b>\$10,039</b>	<b>\$6,658</b>	<b>\$1,673</b>	<b>\$1,708</b>	<b>\$660</b>	<b>\$3,684</b>
Alabama.....	3,406	1,275	1,043	1,088	6,777	4,316	1,172	1,289	666	2,779
Alaska.....	3,983	975	1,429	1,579	7,245	3,719	1,589	1,937	824	—
Arizona.....	3,832	1,136	1,361	1,335	4,530	2,462	923	1,145	358	—
Arkansas.....	2,793	931	784	1,078	5,287	3,310	792	1,185	472	2,082
California.....	5,139	1,031	1,986	2,172	11,782	8,073	1,689	2,020	96	4,655
Colorado.....	4,438	1,482	1,373	1,583	10,689	7,913	1,376	1,400	623	586
Connecticut.....	4,317	1,527	1,370	1,420	12,567	8,534	1,964	2,069	573	7,367
Delaware.....	—	906	1,120	—	5,811	2,794	1,461	1,556	932	—
District of Columbia.....	—	634	—	—	11,466	7,128	2,370	1,968	—	—
Florida.....	3,870	1,055	1,254	1,561	—	1,367	—	—	608	—
Georgia.....	3,623	1,369	959	1,295	8,819	5,688	1,492	1,639	789	2,626
Hawaii.....	4,249	972	1,307	1,970	5,153	3,020	1,133	1,000	281	—
Idaho.....	3,744	1,036	846	1,862	8,539	5,774	900	1,865	690	582
Illinois.....	4,450	1,708	1,339	1,403	9,955	6,560	1,729	1,666	866	3,614
Indiana.....	4,822	1,627	1,890	1,305	9,530	6,762	1,349	1,416	1,211	3,800
Iowa.....	3,457	1,385	1,008	1,064	8,260	5,847	1,063	1,350	1,057	3,180
Kansas.....	3,529	1,271	1,143	1,115	6,349	4,121	965	1,243	537	3,461
Kentucky.....	3,273	1,152	889	1,232	6,380	3,868	1,077	1,435	540	3,126
Louisiana.....	3,575	1,341	1,051	1,183	10,359	6,812	1,765	1,782	619	—
Maine.....	4,535	1,561	1,476	1,498	12,674	9,032	1,767	1,875	880	2,067
Maryland.....	5,325	1,682	1,889	1,754	11,140	7,274	1,914	1,952	906	4,660
Massachusetts.....	4,220	1,388	1,294	1,538	13,474	8,953	2,312	2,209	750	5,602
Michigan.....	4,738	1,877	1,212	1,649	7,727	5,093	1,208	1,426	917	3,648
Minnesota.....	4,005	1,814	1,113	1,078	9,436	6,843	1,223	1,370	1,229	1,908
Mississippi.....	3,865	1,603	1,050	1,212	5,535	3,890	655	990	489	1,733
Missouri.....	3,406	1,277	1,162	967	8,162	5,474	1,312	1,376	524	3,788
Montana.....	4,118	1,205	1,205	1,708	6,364	3,867	924	1,573	423	953
Nebraska.....	3,342	1,292	870	1,180	7,536	5,090	1,171	1,275	740	3,180
Nevada.....	3,527	988	1,302	1,237	4,900	3,100	1,800	—	573	—
New Hampshire.....	4,534	2,190	1,424	920	12,337	8,401	1,995	1,941	1,514	2,710
New Jersey.....	4,920	1,861	1,758	1,301	11,955	8,221	1,934	1,800	733	1,200
New Mexico.....	3,618	915	1,121	1,582	6,504	649	1,175	1,680	407	—
New York.....	4,704	1,431	1,642	1,631	11,344	7,364	2,048	1,932	1,340	4,795
North Carolina.....	3,057	818	1,131	1,108	8,004	5,597	1,072	1,335	216	3,635
North Dakota.....	3,130	1,198	682	1,250	5,897	4,162	887	1,048	1,074	—
Ohio.....	4,835	1,982	1,408	1,445	8,950	6,176	1,316	1,458	1,181	3,360
Oklahoma.....	2,925	757	944	1,224	6,151	3,662	1,120	1,369	456	2,262
Oregon.....	3,938	1,296	1,052	1,590	10,270	7,122	1,330	1,818	484	—
Pennsylvania.....	5,147	2,496	1,408	1,243	10,607	7,140	1,828	1,639	1,626	4,284
Rhode Island.....	5,398	1,845	1,803	1,750	11,941	8,187	1,952	1,802	844	—
South Carolina.....	4,224	1,733	1,105	1,386	7,023	4,534	1,279	1,210	645	2,714
South Dakota.....	3,408	1,409	798	1,201	7,800	5,202	1,133	1,465	—	3,920
Tennessee.....	3,375	1,133	1,029	1,213	7,696	5,075	1,391	1,230	660	2,323
Texas.....	3,853	885	1,443	1,525	8,569	5,510	1,308	1,751	300	2,184
Utah.....	3,949	1,159	1,638	1,152	—	1,498	—	—	884	—
Vermont.....	6,357	2,942	1,988	1,427	9,369	6,393	1,534	1,442	1,966	4,858
Virginia.....	4,983	2,070	1,482	1,431	8,875	5,724	1,672	1,479	775	4,644
Washington.....	3,940	1,339	1,268	1,333	10,109	6,837	1,611	1,661	654	—
West Virginia.....	4,106	1,003	1,627	1,176	8,989	6,164	1,235	1,590	517	1,311
Wisconsin.....	3,597	1,271	1,126	1,100	8,968	6,055	1,303	1,610	887	—
Wyoming.....	—	778	1,088	—	—	—	—	—	516	—

<sup>1</sup> Preliminary data  
—Data not reported or not applicable

NOTE—Data are for the entire academic year and are average charges. Tuition and fees were weighted by the number of full-time-equivalent undergraduates but are not adjusted to reflect student residency. Room and board are based on full-time students.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Fall Enrollment in Institutions of Higher Education" and "Institutional Characteristics of Colleges and Universities" surveys, Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment", and College Board, *College Costs, 1986-87* (This table was prepared April 1988).

**Table 260.—Percent of undergraduates enrolled in fall 1986 and average amount awarded per student, by type and source of aid and selected student characteristics**

Selected student characteristics	Enrollment of undergraduates, <sup>1</sup> in thousands	Any aid			Grants			Loans			Work study		
		Total <sup>2</sup>	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Percent of all undergraduates receiving aid													
All undergraduates.....	11,213	45.5	34.9	28.8	37.6	24.6	27.2	24.4	23.3	1.6	6.1	4.7	1.8
<b>Sex</b>													
Men.....	5,035	44.5	34.1	27.8	36.5	23.6	26.4	23.9	22.9	1.4	5.6	4.2	1.7
Women.....	6,179	46.3	35.6	29.7	38.6	25.5	27.9	24.9	23.7	1.7	6.6	5.0	1.8
<b>Race/ethnicity</b>													
White, non-Hispanic.....	8,724	43.3	32.0	28.4	35.1	20.9	26.8	23.6	22.6	1.6	5.6	4.1	1.8
Black, non-Hispanic.....	1,043	63.8	55.7	33.2	56.6	47.0	31.2	35.0	32.7	2.6	9.8	8.6	1.7
Hispanic.....	763	47.8	40.9	27.2	41.1	33.2	25.9	24.0	23.4	1.0	5.8	4.5	1.3
Asian American.....	572	40.5	33.3	28.5	36.2	27.0	27.7	18.4	18.1	1.0	7.6	6.2	1.6
American Indian.....	112	48.9	40.3	29.7	41.2	35.0	26.1	19.7	18.5	1.1	6.8	5.3	2.1
<b>Age</b>													
23 years old or younger.....	6,768	50.0	39.0	33.5	41.2	26.5	31.8	28.7	27.6	1.8	8.4	6.3	2.5
24 to 29 years old.....	1,897	42.8	34.2	21.9	34.4	25.5	19.8	22.5	21.2	1.9	3.6	2.9	0.8
30 years old or over.....	2,548	35.4	24.8	21.7	30.6	19.2	20.7	14.4	13.6	0.9	2.0	1.6	0.5
<b>Marital status</b>													
Married.....	2,714	35.4	24.6	20.0	29.5	18.1	18.8	15.3	14.3	1.2	2.0	1.7	0.4
Not married <sup>3</sup> .....	8,500	48.7	38.3	31.7	40.2	26.8	29.9	27.3	26.2	1.7	7.5	5.6	2.2
<b>Attendance status</b>													
Full-time.....	3,997	58.3	47.4	37.3	48.2	33.2	35.4	34.2	33.0	2.0	9.2	6.9	2.7
Part-time.....	4,216	24.4	14.4	15.0	20.3	10.6	13.8	8.4	7.4	1.1	1.1	0.9	0.3
<b>Dependency status</b>													
Dependent.....	6,975	45.2	33.9	30.7	36.5	21.7	29.1	25.3	24.2	1.6	7.4	5.4	2.3
Independent.....	4,239	46.4	37.1	26.0	39.9	29.7	24.5	23.3	22.2	1.5	4.1	3.4	0.9
<b>Housing status</b>													
School-owned.....	2,220	63.8	49.1	48.0	53.3	30.9	45.6	41.3	39.9	2.5	16.3	12.0	5.2
Off-campus, not with parents.....	5,652	42.3	32.7	24.7	34.9	23.9	23.1	22.1	21.1	1.5	4.1	3.2	0.9
With parents.....	3,342	38.6	29.3	23.3	31.9	21.8	22.1	17.1	16.2	1.1	2.9	2.2	0.9
Average 1986-87 award for full-time, full-year undergraduates enrolled in fall 1986													
All full-time, full-year undergraduates.....	5,621	\$3,813	\$2,973	\$2,113	\$2,630	\$1,598	\$2,033	\$2,456	\$2,425	\$1,723	\$1,077	\$1,002	\$1,105
<b>Sex</b>													
Men.....	2,632	3,964	3,127	2,202	2,788	1,756	2,125	2,539	2,504	1,747	1,096	1,012	1,118
Women.....	2,989	3,690	2,849	2,043	2,504	1,474	1,960	2,388	2,360	1,707	1,065	995	1,095
<b>Race/ethnicity</b>													
White, non-Hispanic.....	4,454	3,716	2,970	2,043	2,525	1,554	1,953	2,484	2,441	1,879	1,044	983	1,029
Black, non-Hispanic.....	492	4,126	3,132	2,308	2,827	1,785	2,248	2,257	2,299	1,141	1,170	1,003	1,632
Hispanic.....	333	3,817	2,741	2,161	2,728	1,518	2,129	2,439	2,420	—	1,166	1,163	1,214
Asian American.....	299	4,374	2,903	2,546	3,280	1,640	2,474	2,478	2,464	—	1,206	1,082	1,443
American Indian.....	44	4,201	3,020	2,413	3,299	1,859	2,556	2,762	2,762	—	—	—	—
<b>Age</b>													
23 years old or younger.....	4,459	3,853	2,912	2,229	2,697	1,531	2,146	2,390	2,363	1,688	1,063	976	1,102
24 to 29 years old.....	624	3,810	3,265	1,724	2,440	1,757	1,646	2,708	2,664	1,657	1,166	1,136	1,200
30 years old or over.....	538	3,535	3,033	1,529	2,366	1,791	1,442	2,643	2,598	2,102	1,146	1,152	—
<b>Marital status</b>													
Married.....	634	3,478	3,034	1,690	2,266	1,678	1,618	2,666	2,623	1,905	1,042	1,085	782
Not married <sup>3</sup> .....	4,986	3,858	2,964	2,158	2,677	1,594	2,075	2,429	2,400	1,695	1,080	996	1,122
<b>Dependency status</b>													
Dependent.....	4,404	3,762	2,828	2,254	2,664	1,448	2,179	2,402	2,377	1,701	1,038	952	1,080
Independent.....	1,217	3,939	3,277	1,655	2,546	1,842	1,558	2,584	2,541	1,778	1,206	1,151	1,214
<b>Housing status</b>													
School-owned.....	1,844	4,650	3,280	2,788	3,311	1,728	2,677	2,448	2,393	1,951	1,026	906	1,115
Off-campus, not with parents.....	2,079	3,708	3,132	1,715	2,431	1,735	1,640	2,520	2,494	1,650	1,194	1,170	1,144
With parents.....	1,698	2,757	2,256	1,532	1,942	1,214	1,488	2,330	2,341	1,399	1,033	996	994

**Table 260.—Percent of undergraduates enrolled in fall 1986 and average amount awarded per student, by type and source of aid and selected student characteristics—Continued**

Selected student characteristics	Enrollment of undergraduates, <sup>1</sup> in thousands	Any aid			Grants			Loans			Work study		
		Total <sup>2</sup>	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Average 1986-87 award for other undergraduates enrolled in fall 1986													
<b>All other undergraduates<sup>4</sup></b> .....	<b>5,592</b>	<b>\$2,199</b>	<b>\$2,203</b>	<b>\$1,145</b>	<b>\$1,458</b>	<b>\$1,223</b>	<b>\$1,079</b>	<b>\$2,121</b>	<b>\$2,121</b>	<b>\$1,197</b>	<b>\$913</b>	<b>\$856</b>	<b>\$949</b>
<b>Sex</b>													
Men .....	2,403	2,259	2,172	1,340	1,583	1,315	1,245	2,109	2,062	1,424	990	899	957
Women .....	3,190	2,155	2,225	1,011	1,362	1,161	965	2,128	2,159	1,052	866	833	941
<b>Race/ethnicity</b>													
White, non-Hispanic .....	4,270	2,061	2,123	1,137	1,373	1,163	1,059	2,137	2,114	1,277	906	840	916
Black, non-Hispanic .....	551	2,410	2,295	1,026	1,574	1,333	963	2,007	2,084	—	1,001	916	—
Hispanic .....	429	2,499	2,454	1,142	1,546	1,233	1,132	2,257	2,271	—	—	—	—
Asian American .....	273	2,842	2,488	1,520	1,972	1,452	1,473	2,138	2,072	—	—	—	—
American Indian .....	68	2,126	1,893	—	1,834	1,236	—	—	—	—	—	—	—
<b>Age</b>													
23 years old or younger .....	2,310	2,525	2,282	1,377	1,691	207	1,329	2,044	2,057	1,084	890	802	995
24 to 29 years old .....	1,273	1,917	2,089	893	1,234	1,216	807	2,02	2,103	1,281	1,008	1,037	—
30 years old or over .....	2,010	1,939	2,158	992	1,307	1,257	917	2,344	2,297	1,385	925	—	—
<b>Marital status</b>													
Married .....	2,080	1,805	2,068	1,008	1,216	1,221	898	2,313	2,263	1,547	936	—	—
Not married <sup>3</sup> .....	3,512	2,388	2,254	1,215	1,581	1,225	1,173	2,061	2,080	1,076	910	849	946
<b>Dependency status</b>													
Dependent .....	2,571	2,383	2,207	1,400	1,637	1,170	1,358	2,059	2,067	1,154	922	839	1,020
Independent .....	3,021	2,070	2,206	953	1,344	1,262	874	2,176	2,169	1,259	900	882	—
<b>Housing status</b>													
School-owned .....	376	3,469	2,553	2,010	2,364	1,268	1,957	2,120	2,048	1,489	906	801	975
Off-campus, not with parents .....	3,573	2,000	2,167	952	1,298	1,223	870	2,147	2,159	1,142	861	821	921
With parents .....	1,643	2,159	2,129	1,168	1,485	1,207	1,144	2,064	2,086	1,186	1,094	1,123	—

<sup>1</sup> Numbers of undergraduates may not equal figures reported in other tables, since these data are based on a sample survey.

<sup>2</sup> Includes students who reported they were awarded aid, but did not specify the source or type of aid.

<sup>3</sup> Includes students who were single, separated, divorced, or widowed.

<sup>4</sup> Enrollment data include persons whose attendance status was not reported.

—Data not available.

NOTE—Because of rounding and/or the fact that some students receive aid from multiple sources, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Undergraduate Financing of Postsecondary Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989).

**Table 261.—Undergraduates enrolled in fall 1986, by aid status and source of aid during 1986-87, and control and level of institution**

Control and level of institution	Number of undergraduates, fall 1986 <sup>1</sup>	Aid status, 1986-87, in percents					
		Nonaided	Receiving aid, by source				
			Any aid <sup>2</sup>	Federal	State	Institutional	Other
1	2	3	4	5	6	7	8
<b>All institutions</b> .....	<b>11,213,432</b>	<b>54.5</b>	<b>45.5</b>	<b>34.9</b>	<b>14.8</b>	<b>14.0</b>	<b>6.8</b>
<b>Public</b> .....	<b>8,572,090</b>	<b>62.0</b>	<b>38.0</b>	<b>28.5</b>	<b>12.5</b>	<b>8.8</b>	<b>6.0</b>
4-year doctoral.....	2,581,556	53.2	46.8	35.5	13.9	14.4	6.8
Other 4-year.....	1,681,052	52.7	47.3	38.4	19.2	9.1	5.7
2-year.....	4,180,263	71.5	28.5	19.9	9.0	5.3	5.7
Less than 2-year.....	129,219	48.2	51.8	41.9	14.2	5.3	5.0
<b>Private, nonprofit</b> .....	<b>2,038,949</b>	<b>34.7</b>	<b>65.3</b>	<b>48.4</b>	<b>25.4</b>	<b>39.0</b>	<b>11.2</b>
4-year doctoral.....	769,069	38.2	61.8	45.7	21.0	37.8	10.8
Other 4-year.....	1,119,661	32.1	67.9	50.1	28.5	42.0	12.0
2-year.....	133,779	36.1	63.9	47.3	24.5	28.3	7.2
Less than 2-year.....	16,441	33.8	66.2	59.4	27.2	3.9	6.5
<b>Private, proprietary</b> .....	<b>602,394</b>	<b>16.0</b>	<b>84.0</b>	<b>80.6</b>	<b>10.3</b>	<b>4.1</b>	<b>3.7</b>
2-year and above.....	223,859	17.3	82.7	79.2	18.1	4.1	3.6
Less than 2-year.....	378,535	15.2	84.8	81.4	5.7	4.1	3.8

<sup>1</sup> Numbers of undergraduates may not equal figures reported in other tables, since these data are based on a sample survey.  
<sup>2</sup> Includes students who reported they were awarded aid but did not specify the source of aid.

SOURCE U.S. Department of Education, National Center for Education Statistics, *Undergraduate Financing of Postsecondary Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989.)

NOTE—Because some students receive aid from multiple sources, details may not add to totals.

**Table 262.—Undergraduates enrolled in fall 1986, by type and source of aid received during 1986-87, and by control and level of institution**

Control and level of institution	Number of undergraduates, fall 1986 <sup>1</sup>	Type and source of aid, 1986-87, in percents											
		Any aid			Grants			Loans			Work-study		
		Total <sup>2</sup>	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal	Non-Federal	Total	Federal <sup>3</sup>	Non-Federal
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>All institutions</b> .....	<b>11,213,432</b>	<b>45.5</b>	<b>34.9</b>	<b>28.8</b>	<b>37.6</b>	<b>24.6</b>	<b>27.2</b>	<b>24.4</b>	<b>23.3</b>	<b>1.6</b>	<b>6.1</b>	<b>4.7</b>	<b>1.6</b>
<b>Public</b> .....	<b>8,572,090</b>	<b>38.0</b>	<b>28.5</b>	<b>23.7</b>	<b>31.5</b>	<b>21.3</b>	<b>22.2</b>	<b>17.3</b>	<b>16.2</b>	<b>1.2</b>	<b>4.6</b>	<b>3.6</b>	<b>1.1</b>
4-year doctoral.....	2,581,556	46.8	35.5	28.5	36.4	23.1	26.7	27.6	26.4	1.6	5.8	4.5	1.5
Other 4-year.....	1,681,052	47.3	38.4	30.0	38.1	28.1	28.2	34.9	24.0	1.3	8.1	6.2	2.2
2-year.....	4,180,263	28.5	19.9	18.1	25.4	17.1	17.0	7.8	6.7	1.0	2.4	2.1	0.4
Less than 2-year.....	129,219	51.8	41.9	22.9	46.1	34.8	22.3	19.6	19.4	0.5	3.4	2.5	0.9
<b>Private, nonprofit</b> .....	<b>2,038,949</b>	<b>65.3</b>	<b>48.4</b>	<b>54.1</b>	<b>56.7</b>	<b>29.3</b>	<b>51.9</b>	<b>40.7</b>	<b>39.4</b>	<b>2.9</b>	<b>14.3</b>	<b>10.2</b>	<b>5.1</b>
4-year doctoral.....	769,069	61.7	45.7	50.8	52.2	24.3	47.9	39.5	38.0	3.8	13.0	9.6	3.8
Other 4-year.....	1,119,661	67.9	50.1	57.7	60.1	32.2	55.9	42.1	40.9	2.3	16.4	11.3	6.6
2-year.....	133,779	63.9	47.9	44.7	53.6	32.4	43.1	35.7	34.4	2.4	5.7	5.2	0.4
Less than 2-year.....	16,441	66.2	59.4	35.5	55.5	45.2	33.7	40.4	38.9	1.8	5.0	4.0	1.7
<b>Private, proprietary</b> .....	<b>602,394</b>	<b>84.0</b>	<b>80.6</b>	<b>17.2</b>	<b>60.3</b>	<b>55.7</b>	<b>15.3</b>	<b>70.7</b>	<b>70.0</b>	<b>2.1</b>	<b>0.8</b>	<b>0.6</b>	<b>0.2</b>
2-year and above.....	223,859	82.7	79.2	24.2	54.9	49.0	22.3	69.3	68.6	1.9	1.2	0.7	0.5
Less than 2-year.....	378,535	84.8	81.4	13.0	63.5	59.7	10.9	71.5	70.9	2.2	0.5	0.5	0.1

<sup>1</sup> Numbers of undergraduates may not equal figures reported in other tables, since these data are based on a sample survey.  
<sup>2</sup> Includes students who reported they were awarded aid but did not specify the source of aid.

NOTE—Because some students receive multiple types and sources of aid, details may not add to totals.

<sup>3</sup> Prior to October 17, 1986, private, proprietary institutions were prohibited by law from spending CWS (College Work-Study) funds for on-campus work.

SOURCE U.S. Department of Education, National Center for Education Statistics, *Undergraduate Financing of Postsecondary Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989.)

**Table 263.—Undergraduates enrolled in fall 1986, by Federal aid program and by control and level of institution: 1986-87**

Control and level of institution	Number of undergraduates, fall 1986 <sup>1</sup>	Type of Federal aid, 1986-87, in percents							
		Any Federal aid	Any Title IV aid <sup>2</sup>	Selected Title IV programs <sup>3</sup>					Any other Federal aid
				Pell	SEOG	CWS <sup>4</sup>	NDSL	GSL <sup>5</sup>	
1	2	3	4	5	6	7	8	9	10
<b>All institutions</b> .....	<b>11,213,432</b>	<b>34.9</b>	<b>30.8</b>	<b>17.5</b>	<b>5.0</b>	<b>4.3</b>	<b>5.6</b>	<b>20.5</b>	<b>4.0</b>
<b>Public</b> .....	8,572,090	28.5	24.3	15.5	3.7	3.3	4.0	13.7	4.1
4-year doctoral.....	2,581,556	35.5	32.0	16.9	4.7	4.2	7.6	21.9	3.6
Other 4-year.....	1,681,052	38.4	34.6	21.1	5.5	5.7	6.8	19.8	3.7
2-year.....	4,180,263	19.9	15.1	12.0	2.5	1.9	0.6	6.0	4.3
Less than 2-year.....	129,219	41.9	33.1	25.6	2.3	2.5	2.4	18.0	9.4
<b>Private, nonprofit</b> .....	2,038,949	48.4	44.7	17.3	8.9	9.6	11.8	35.2	3.6
4-year doctoral.....	769,069	45.7	41.1	13.0	8.0	8.9	13.6	33.9	4.8
Other 4-year.....	1,111,661	50.1	46.8	19.0	9.9	10.7	11.6	36.4	3.2
2-year.....	113,779	47.9	45.6	25.6	4.9	5.2	4.2	32.1	2.7
Less than 2-year.....	16,441	59.4	58.1	33.6	7.6	4.0	0.9	37.6	5.8
<b>Private, proprietary</b> .....	602,394	80.6	75.5	46.9	9.6	0.5	7.7	67.3	4.9
2-year and above.....	223,859	79.2	74.8	39.5	9.5	0.7	7.9	65.8	4.4
Less than 2-year.....	378,535	81.4	75.9	51.3	9.8	0.5	7.5	68.1	5.2

<sup>1</sup> Numbers of undergraduates may not equal figures reported in other tables, since these data are based on a sample survey.  
<sup>2</sup> Includes Pell, SEOG, CWS, NDSL, PLUS/ALAS (Parent Loans for Undergraduates and Auxiliary Loans to Assist Students) and the Federal portion of SSIG (State Student Incentive Grants) program.  
<sup>3</sup> Selected types of Federal aid: SEOG=Supplemental Educational Opportunity Grants; CWS=College Work-Study; NDSL=National Direct Student Loans; GSL=Guaranteed Student Loans.  
<sup>4</sup> Prior to October 17, 1986, private, proprietary institutions were prohibited by law from spending CWS funds for on-campus work.

<sup>5</sup> Does not include PLUS/ALAS  
<sup>6</sup> Includes aid from all Federal departments and agencies except Title IV aid

NOTE.—Because some students receive aid from multiple sources, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Undergraduate Financing of Postsecondary Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989)

**Table 264.—Postbaccalaureate students enrolled in fall 1986, by aid status and source of aid during 1986-87, and by control and level of institution**

Control and level of institution	Number of postbaccalaureate students, fall 1986	Aid status, 1986-87, in percents						
		Nonaided	Receiving aid, by source					Other <sup>3</sup>
			Any aid <sup>2</sup>	Federal	State	Institutional	Employer	
1	2	3	4	5	6	7	8	9
<b>All institutions</b> .....	<b>1,340,079</b>	<b>43.2</b>	<b>56.8</b>	<b>27.3</b>	<b>5.9</b>	<b>34.8</b>	<b>7.4</b>	<b>3.8</b>
<b>Master's</b>								
Total.....	852,340	52.6	47.4	17.0	3.2	28.1	9.7	2.3
Public.....	527,428	55.2	44.8	14.9	3.4	28.9	7.1	1.6
4-year doctoral.....	346,540	50.0	50.0	16.6	3.4	33.0	7.4	2.0
Other 4-year.....	180,888	65.2	34.8	11.5	3.5	21.2	6.3	0.8
Private.....	324,912	48.3	51.7	20.3	2.9	26.8	14.0	3.5
4-year doctoral.....	215,047	43.1	56.9	22.9	3.4	32.5	14.0	4.2
Other 4-year.....	109,865	58.6	41.4	15.3	2.0	15.5	14.1	2.2
<b>Doctoral</b>								
Total.....	184,483	27.3	72.7	17.7	3.9	61.6	6.5	2.7
Public.....	117,528	29.2	70.8	17.3	4.7	60.9	5.8	2.5
Private.....	66,955	23.9	76.1	18.2	2.5	62.8	7.7	3.0
<b>First-professional</b>								
Total.....	303,258	26.4	73.6	62.3	14.5	37.4	1.4	8.7
Public.....	101,528	27.7	72.3	59.9	12.9	32.6	1.6	9.1
Private.....	201,728	25.8	74.2	63.5	15.4	39.9	1.3	8.5

<sup>1</sup> Numbers of postbaccalaureate students may not equal figures reported in other tables, since these data are based on a sample survey.  
<sup>2</sup> Includes students who reported they were awarded aid but did not specify the source of aid.  
<sup>3</sup> Includes aid provided by corporations, unions, foundations, fraternal organizations, community organizations, etc.

NOTE.—Because some students receive aid from multiple sources, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Student Financing of Graduate and Professional Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989)



**Table 265.—Postbaccalaureate students enrolled in fall 1986, by type of aid received during 1986-87, by level of study and by control and level of institution**

Control and level of institution	Number of postbaccalaureate students, <sup>1</sup> fall 1986	Type of aid, 1986-87, in percents						
		Any aid <sup>2</sup>	Fellowships/grants <sup>3</sup>	Tuition waivers	Assistantships <sup>4</sup>	Loans		
						Any loans	Guaranteed student loans	Other
1	2	3	4	5	6	7	8	9
<b>All institutions</b> .....	<b>1,340,779</b>	<b>56.8</b>	<b>25.2</b>	<b>17.6</b>	<b>20.2</b>	<b>26.5</b>	<b>23.5</b>	<b>13.3</b>
<b>Master's</b>								
Total .....	852,340	47.4	22.0	17.2	17.3	15.8	13.6	5.0
Public .....	527,428	44.8	17.4	19.9	20.1	13.4	11.5	3.6
4-year doctoral .....	346,540	50.0	19.6	23.0	24.2	15.4	13.3	4.2
Other 4-year .....	180,888	34.8	13.3	14.0	12.4	9.6	7.9	2.6
Private .....	324,912	51.7	29.3	12.8	12.7	19.6	17.0	7.2
4-year doctoral .....	215,047	56.9	32.6	16.3	16.3	21.9	19.2	8.8
Other 4-year .....	109,865	41.4	22.8	5.7	5.8	15.0	12.7	4.0
<b>Doctoral</b>								
Total .....	184,483	72.7	31.1	38.3	49.0	15.8	13.1	4.5
Public .....	117,528	70.8	25.1	38.3	52.4	15.3	13.2	2.9
Private .....	66,955	76.1	41.6	38.4	43.0	16.7	12.9	7.4
<b>First-professional</b>								
Total .....	303,256	73.6	30.6	6.3	11.0	62.9	57.5	42.1
Public .....	101,528	72.3	30.0	7.4	11.1	59.9	55.7	38.8
Private .....	201,728	74.2	31.0	5.7	11.9	64.4	58.4	44.7

<sup>1</sup> Numbers of postbaccalaureate students may not equal figures reported in other tables, since these data are based on a sample survey.

<sup>2</sup> Includes students who reported they were awarded aid but did not specify the type of aid.

<sup>3</sup> Includes students who received employer benefits.

<sup>4</sup> Includes students who received teaching or research assistantships and/or participated in work-study programs.

NOTE—Because some students receive various types of aid, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Student Financing of Graduate and Professional Education: A Report of the 1987 National Postsecondary Student Aid Study* (This table was prepared February 1989).

**Table 266.—Scholarship and fellowship awards<sup>1</sup> of institutions of higher education, by control of institution: 1959-60 to 1985-86**

[In thousands]

Year	Total scholarship and fellowship awards			Scholarship and fellowship awards from unrestricted funds			Scholarship and fellowship awards from restricted funds		
	All institutions	Public	Private	All institutions	Public	Private	All institutions	Public	Private
1	2	3	4	5	6	7	8	9	10
1959-60.....	\$172,051	\$59,673	\$112,377	—	—	—	—	—	—
1961-62.....	228,765	78,255	150,510	—	—	—	—	—	—
1963-64.....	300,370	107,767	192,603	—	—	—	—	—	—
1965-66.....	425,524	153,256	272,269	—	—	—	—	—	—
1966-67.....	583,390	248,077	335,311	—	—	—	—	—	—
1967-68.....	712,425	326,915	385,510	—	—	—	—	—	—
1968-69.....	814,755	367,433	447,322	—	—	—	—	—	—
1969-70.....	954,594	456,977	527,617	—	—	—	—	—	—
1970-71.....	1,098,198	528,243	569,955	—	—	—	—	—	—
1971-72.....	1,241,372	621,387	619,986	—	—	—	—	—	—
1972-73.....	1,322,411	656,054	666,357	—	—	—	—	—	—
1973-74.....	1,396,488	705,691	690,797	—	—	—	—	—	—
1974-75.....	1,448,542	713,780	730,762	\$631,801	\$267,191	\$364,610	\$817,741	\$451,589	\$366,152
1975-76.....	1,635,859	798,515	837,343	686,604	276,334	410,269	949,255	522,181	427,074
1976-77.....	1,770,215	859,011	911,204	748,763	291,073	457,690	1,021,451	567,938	453,514
1977-78.....	1,839,298	840,666	998,632	818,101	305,563	512,537	1,021,197	535,102	486,095
1978-79.....	1,944,599	861,578	1,083,021	883,213	326,201	557,012	1,061,386	535,377	526,009
1979-80.....	2,200,468	970,363	1,230,106	904,876	324,224	580,652	1,295,592	646,138	649,454
1980-81.....	2,504,525	1,064,864	1,439,661	1,080,614	367,476	713,138	1,423,911	697,388	726,523
1981-82.....	2,684,945	1,088,717	1,596,228	1,236,081	374,632	861,449	1,448,864	714,085	734,779
1982-83.....	2,922,897	1,188,383	1,734,514	1,478,762	460,291	1,018,470	1,444,136	728,092	716,044
1983-84.....	3,301,673	1,276,644	2,025,028	1,738,188	518,626	1,219,562	1,563,485	758,018	805,466
1984-85.....	3,670,355	1,374,803	2,295,551	1,961,597	569,058	1,392,539	1,708,758	805,745	903,012
1985-86.....	4,160,174	1,575,909	2,584,266	2,285,116	696,973	1,588,143	1,875,059	878,935	996,123

<sup>1</sup> Includes Supplementary Educational Opportunity Grants and State Student Incentive Grants, but excludes Pell Grants  
 --Data not collected

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)

NOTE—Because of rounding, details may not add to totals

**Table 267.—Pell Grant revenue of institutions of higher education compared to current-fund revenue and tuition, by type and control of institution: 1982-83 to 1985-86**

[Amounts in thousands]

Year and type and control of institution	Current-fund revenue		Pell Grant revenue	Pell Grants as a percent of current-fund revenue	Pell Grants as a percent of tuition	Distribution of Pell Grants
	Total	Tuition				
1	2	3	4	5	6	7
<b>1982-83</b>						
All institutions.....	\$77,595,726	\$17,776,041	\$1,855,879	2.4	10.4	100.0
4-year institutions.....	67,716,926	15,670,373	1,299,503	1.9	8.3	70.0
2-year institutions.....	9,878,799	2,105,668	556,376	5.6	26.4	30.0
Public institutions.....	50,412,086	7,295,979	1,257,270	2.5	17.2	67.7
4-year institutions.....	41,328,037	5,721,599	812,395	2.0	14.2	43.8
2-year institutions.....	9,084,049	1,574,279	444,875	4.9	28.3	24.0
Private institutions.....	27,183,640	10,480,163	598,609	2.2	5.7	32.3
4-year institutions.....	26,388,890	9,948,774	487,108	1.8	4.9	26.2
2-year institutions.....	794,750	531,389	111,501	14.0	21.0	6.0
<b>1983-84</b>						
All institutions.....	84,417,287	19,714,884	2,119,716	2.5	10.8	100.0
4-year institutions.....	73,827,400	17,399,381	1,478,158	2.0	8.5	69.7
2-year institutions.....	10,589,887	2,315,503	641,558	6.1	27.7	30.3
Public institutions.....	54,545,275	8,123,318	1,478,362	2.7	18.2	69.7
4-year institutions.....	44,849,649	6,419,039	962,451	2.1	15.0	45.4
2-year institutions.....	9,695,626	1,704,279	515,910	5.3	30.3	24.3
Private institutions.....	29,872,012	11,591,566	641,354	2.1	5.5	30.3
4-year institutions.....	28,577,751	10,980,342	515,706	1.8	4.7	24.3
2-year institutions.....	894,251	611,224	125,648	14.1	20.6	5.9
<b>1984-85</b>						
All institutions.....	92,472,694	21,283,329	2,259,538	2.4	10.6	100.0
4-year institutions.....	81,023,952	18,814,449	1,572,771	1.9	8.4	69.6
2-year institutions.....	11,448,743	2,468,879	686,767	6.0	27.8	30.4
Public institutions.....	59,794,159	8,647,637	1,607,965	2.7	18.6	71.2
4-year institutions.....	49,325,939	6,849,480	1,052,350	2.1	15.4	46.6
2-year institutions.....	10,468,220	1,798,157	555,615	5.3	30.9	24.6
Private institutions.....	32,678,536	12,635,692	651,573	2.0	5.2	28.8
4-year institutions.....	31,698,013	11,964,969	520,421	1.6	4.3	23.0
2-year institutions.....	980,523	670,722	131,152	13.4	19.6	5.8
<b>1985-86</b>						
All institutions.....	100,437,616	23,116,605	2,565,048	2.6	11.1	100.0
4-year institutions.....	88,144,386	20,498,399	1,770,042	2.0	8.6	69.0
2-year institutions.....	12,293,231	2,618,206	795,006	6.5	30.4	31.0
Public institutions.....	65,004,632	9,434,177	1,873,456	2.9	19.8	73.0
4-year institutions.....	53,746,503	7,539,717	1,214,303	2.3	16.1	47.3
2-year institutions.....	11,258,128	1,899,460	659,153	5.9	34.7	25.7
Private institutions.....	35,432,985	13,677,429	691,592	2.0	5.1	27.0
4-year institutions.....	34,397,882	12,958,683	555,739	1.6	4.3	21.7
2-year institutions.....	1,035,102	718,746	135,853	13.1	18.9	5.3

NOTE — Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)

**Table 268.—State awards for need-based<sup>1</sup> undergraduate scholarship and grant programs, by State: 1981-82 to 1987-88**

[In thousands]

State	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88 <sup>2</sup>	Percent change, 1981-82 to 1987-88 <sup>3</sup>
1	2	3	4	5	6	7	8	9
<b>United States.....</b>	<b>\$987,061</b>	<b>\$945,898</b>	<b>\$1,024,206</b>	<b>\$1,141,671</b>	<b>\$1,222,112</b>	<b>\$1,325,984</b>	<b>\$1,408,279</b>	<b>58.8</b>
Alabama.....	505	1,556	1,731	2,242	2,242	2,120	2,260	347.5
Alaska.....	329	226	189	241	241	229	240	-27.1
Arizona.....	2,283	2,305	2,027	2,355	2,401	2,437	3,244	42.1
Arkansas.....	1,603	1,866	2,226	3,792	4,108	3,800	3,896	143.0
California.....	86,363	82,753	86,031	92,168	112,373	112,770	135,002	56.3
Colorado.....	7,278	7,485	7,341	8,779	9,282	9,491	9,325	28.1
Connecticut.....	8,792	8,594	9,371	9,812	11,085	9,094	18,337	85.8
Delaware.....	544	531	548	536	756	875	852	56.8
District of Columbia.....	1,118	1,117	759	1,109	1,106	1,059	1,106	-1.1
Florida.....	12,302	13,405	12,515	13,967	14,819	14,151	17,186	39.7
Georgia.....	3,493	3,661	3,683	4,040	4,510	4,946	4,934	41.3
Hawaii.....	737	550	493	493	604	595	734	-0.4
Idaho.....	496	482	378	509	509	487	343	-30.8
Illinois.....	89,634	93,515	104,384	110,217	122,300	131,788	135,772	51.5
Indiana.....	20,578	19,880	20,380	25,007	26,448	30,512	45,408	120.7
Iowa.....	15,829	17,259	20,263	22,205	22,379	22,378	28,157	87.4
Kansas.....	5,004	4,865	4,664	4,841	5,609	5,250	5,430	8.5
Kentucky.....	6,322	6,316	7,886	8,242	8,758	12,139	12,229	93.4
Louisiana.....	2,220	1,396	1,683	1,931	2,003	1,818	1,880	-15.3
Maine.....	537	518	477	794	809	1,151	1,422	164.8
Maryland.....	5,921	5,718	5,459	7,361	8,859	7,822	9,051	52.9
Massachusetts.....	17,071	16,750	25,655	35,937	43,466	56,995	81,854	261.2
Michigan.....	28,626	30,499	30,753	32,866	57,645	66,864	68,380	138.9
Minnesota.....	28,019	29,217	46,600	44,900	45,486	65,473	60,000	114.1
Mississippi.....	1,321	1,297	1,015	1,297	1,288	1,287	1,406	8.4
Missouri.....	8,941	8,894	8,766	9,128	9,645	9,692	9,835	10.0
Montana.....	390	400	353	382	440	401	420	7.7
Nebraska.....	1,119	1,062	860	1,089	1,093	1,042	1,089	-2.7
Nevada.....	150	402	327	414	414	326	352	134.7
New Hampshire.....	592	567	536	582	660	623	856	44.8
New Jersey.....	39,774	45,890	47,980	57,579	65,173	63,978	72,475	82.2
New Mexico.....	720	1,000	695	1,025	1,461	1,461	1,481	102.9
New York.....	280,000	299,880	327,320	380,390	363,949	391,989	381,007	35.9
North Carolina.....	3,299	4,421	3,974	4,449	4,440	4,386	4,559	38.2
North Dakota.....	872	699	635	702	808	503	540	-19.8
Ohio.....	31,864	35,077	41,974	44,800	45,900	47,846	49,400	55.0
Oklahoma.....	2,265	8,605	6,561	6,487	8,242	8,630	10,493	363.3
Oregon.....	7,669	8,660	8,546	8,936	9,514	9,204	10,121	32.0
Pennsylvania.....	77,572	87,644	83,474	88,002	96,800	103,401	109,823	41.6
Rhode Island.....	5,938	8,696	6,745	7,560	7,856	8,930	9,226	55.4
South Carolina.....	12,631	12,275	12,588	13,726	15,146	16,348	16,460	30.3
South Dakota.....	431	531	440	531	624	563	581	34.8
Tennessee.....	8,439	7,221	8,700	8,207	9,434	10,618	16,500	158.3
Texas.....	18,697	21,811	21,438	22,291	19,033	20,990	21,931	17.3
Utah.....	1,171	1,174	1,538	1,665	1,131	1,080	1,080	-7.8
Vermont.....	5,531	8,381	7,030	7,218	7,124	8,088	8,242	49.0
Virginia.....	3,733	4,000	4,975	4,274	4,415	4,349	4,420	18.4
Washington.....	5,304	5,977	7,530	7,185	8,927	9,022	12,975	144.8
West Virginia.....	4,300	4,044	4,376	4,850	5,187	5,157	5,227	21.8
Wisconsin.....	20,829	23,040	23,011	24,655	27,818	27,622	34,754	68.9
Wyoming.....	49	204	204	204	204	204	204	318.3

<sup>1</sup> In 1987-88, 81 percent of all aid was need-based aid, compared with non-need-based aid or other types of aid<sup>2</sup> Estimated<sup>3</sup> Changes may reflect introduction of new programs or discontinuation of existing programs

Table 269.—Current-fund revenue of institutions of higher education, by source: 1975-76 to 1985-86

Source	1975-76	1977-78	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund revenue</b>	<b>\$39,703,166</b>	<b>\$47,034,032</b>	<b>\$58,519,982</b>	<b>\$65,584,789</b>	<b>\$72,190,856</b>	<b>\$77,595,726</b>	<b>\$84,417,287</b>	<b>\$92,472,894</b>	<b>\$100,437,618</b>
Tuition and fees from students	8,171,942	9,855,270	11,930,340	13,773,259	15,774,036	17,776,041	19,714,884	21,283,329	23,116,605
Federal Government	8,477,178	8,968,501	8,302,843	9,747,586	9,591,805	9,631,097	10,406,166	11,509,125	12,704,750
Appropriations	906,477	1,046,632	1,223,429	1,346,835	1,297,832	1,347,259	1,426,539	1,570,590	1,617,510
Unrestricted grants and contracts	622,676	760,310	965,300	1,126,558	1,173,656	1,225,523	1,332,157	1,474,586	1,658,636
Restricted grants and contracts <sup>1</sup>	3,884,694	4,305,864	5,582,997	6,005,317	5,848,329	5,608,619	6,024,108	6,570,045	7,190,345
Independent operations (FFRDC) <sup>2</sup>	1,063,331	855,686	1,131,117	1,268,877	1,271,988	1,449,695	1,623,363	1,893,904	2,238,259
State governments	12,260,885	14,746,166	18,378,299	20,106,222	21,848,791	23,065,636	24,706,990	27,563,011	29,911,500
Appropriations	11,740,998	14,165,047	17,611,584	19,266,186	20,963,863	22,084,273	23,635,701	26,373,160	28,402,288
Unrestricted grants and contracts	57,366	67,926	91,892	84,848	107,630	101,155	120,546	135,139	154,109
Restricted grants and contracts	482,521	513,193	674,813	755,188	777,298	880,208	950,683	1,074,712	1,355,102
Local governments	1,616,975	1,744,230	1,587,552	1,790,740	1,937,669	2,031,353	2,192,275	2,367,212	2,544,506
Appropriations	1,419,543	1,532,093	1,314,368	1,482,536	1,603,904	1,693,399	1,826,590	1,973,284	2,153,160
Unrestricted grants and contracts	18,147	32,257	36,891	29,629	41,055	37,006	43,421	63,442	58,975
Restricted grants and contracts	179,285	179,880	236,293	278,575	292,710	300,948	322,264	350,485	334,371
Private gifts, grants, and contracts	1,917,036	2,320,368	2,808,075	3,176,670	3,563,558	4,052,849	4,415,275	4,896,325	5,410,905
Unrestricted	796,369	921,705	1,084,041	1,210,903	1,357,419	1,552,294	1,674,942	1,944,876	2,111,972
Restricted	1,120,667	1,398,663	1,724,034	1,965,766	2,206,140	2,500,555	2,740,333	2,951,448	3,298,933
Endowment income	687,470	832,246	1,176,627	1,364,443	1,596,813	1,720,677	1,873,945	2,096,298	2,275,898
Unrestricted	387,941	461,081	670,841	770,358	906,845	958,392	1,021,134	1,227,797	1,285,194
Restricted	319,530	371,165	505,785	594,085	689,968	762,285	852,811	868,501	990,704
Sales and services	7,687,382	9,479,491	12,094,281	13,677,366	15,543,098	17,024,587	18,467,779	19,701,912	21,274,265
Educational activities	845,420	882,715	1,239,439	1,409,730	1,582,922	1,723,484	1,970,747	2,126,927	2,373,494
Auxiliary enterprises	4,547,822	5,327,821	6,481,458	7,287,290	8,121,611	8,769,521	9,458,369	10,100,410	10,674,138
Hospitals	2,484,340	3,268,958	4,373,384	4,980,346	5,638,565	6,531,582	7,040,662	7,474,575	8,226,835
Other sources <sup>3</sup>	884,298	1,017,719	1,641,965	1,948,503	2,335,084	2,293,706	2,839,973	3,015,483	3,199,166

Percentage distribution									
Total current-fund revenue	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Tuition and fees from students	20.6	21.0	20.4	21.0	21.9	22.9	23.4	23.0	23.0
Federal Government	16.3	14.8	15.2	14.9	13.3	12.4	12.3	12.4	12.6
Appropriations	2.3	2.2	2.1	2.1	1.8	1.7	1.7	1.7	1.6
Unrestricted grants and contracts	1.6	1.6	1.6	1.7	1.6	1.6	1.6	1.6	1.7
Restricted grants and contracts	9.8	9.2	9.5	9.2	8.1	7.2	7.1	7.1	7.2
Independent operations (FFRDC) <sup>2</sup>	2.7	1.8	1.9	1.3	1.6	1.9	1.9	2.0	2.2
State governments	30.9	31.4	31.4	30.7	30.3	29.7	29.3	29.8	29.8
Appropriations	29.6	30.1	30.1	29.4	29.0	28.5	28.0	28.5	28.3
Unrestricted grants and contracts	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2
Restricted grants and contracts	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.2	1.3
Local governments	4.1	3.7	2.7	2.7	2.7	2.6	2.6	2.6	2.5
Appropriations	3.6	3.3	2.2	2.3	2.2	2.2	2.2	2.1	2.1
Unrestricted grants and contracts	( <sup>3</sup> )	0.1	0.1	( <sup>3</sup> )	0.1	( <sup>3</sup> )	0.1	0.1	0.1
Restricted grants and contracts	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Private gifts, grants, and contracts	4.8	4.9	4.8	4.8	4.9	5.2	5.2	5.3	5.4
Unrestricted	2.0	2.0	1.9	1.8	1.9	2.0	2.0	2.1	2.1
Restricted	2.8	3.0	2.9	3.0	3.1	3.2	3.2	3.2	3.3
Endowment income	1.7	1.8	2.0	2.1	2.2	2.2	2.2	2.3	2.3
Unrestricted	0.9	1.0	1.1	1.2	1.3	1.2	1.2	1.3	1.3
Restricted	0.8	0.8	0.9	0.9	1.0	1.0	1.0	0.9	1.0
Sales and services	19.4	20.2	20.7	20.9	21.5	21.9	21.9	21.3	21.2
Educational activities	1.6	1.9	2.1	2.1	2.2	2.2	2.3	2.3	2.4
Auxiliary enterprises	11.5	11.3	11.1	11.1	11.3	11.3	11.2	10.9	10.6
Hospitals	6.3	7.0	7.5	7.6	8.1	8.4	8.3	8.1	8.2
Other sources	2.2	2.3	2.8	3.0	3.2	3.0	3.1	3.3	3.2

<sup>1</sup> Excludes Pell Grants. Federally supported student aid that is received through students is included under tuition and auxiliary enterprises

<sup>2</sup> Generally includes only those revenues associated with major federally funded research and development centers (FFRDC). Large drop after 1975-76 was caused by a change in administration of one of the centers

<sup>3</sup> Less than 0.05 percent.

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education," surveys (This table was prepared August 1987)

**Table 270.—Current-fund revenue of public institutions of higher education, by source: 1975-76 to 1985-86**

Source	1975-76	1977-78	1978-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund revenue</b>	<b>\$26,834,898</b>	<b>\$31,544,538</b>	<b>\$38,824,207</b>	<b>\$43,195,617</b>	<b>\$47,270,822</b>	<b>\$50,412,086</b>	<b>\$54,545,275</b>	<b>\$59,794,159</b>	<b>\$65,004,632</b>
Tuition and fees from students	3,77,536	4,141,965	4,860,162	5,570,404	6,394,813	7,295,879	8,123,318	8,647,637	9,439,177
Federal Government	4,01,120	4,039,692	5,073,481	5,540,101	5,373,330	5,351,137	5,719,602	6,909,818	6,852,370
Appropriations	731,878	892,333	1,025,663	1,128,101	1,087,493	1,142,486	1,215,618	1,349,183	1,401,367
Unrestricted grants and contracts	323,023	387,704	470,429	529,424	573,015	598,135	642,117	723,509	816,364
Restricted grants and contracts <sup>1</sup>	2,496,271	2,716,693	3,518,235	3,812,197	3,835,947	3,535,108	3,774,093	4,120,268	4,481,723
Independent operations (FFRDC) <sup>2</sup>	397,948	42,962	81,154	70,379	76,875	75,408	67,777	118,880	152,916
State governments	11,983,337	14,430,936	17,973,842	19,675,968	21,597,064	22,562,685	24,157,318	26,965,417	29,220,596
Appropriations	11,570,063	13,973,273	17,390,352	19,006,716	20,895,114	21,805,452	23,340,360	26,065,494	28,071,070
Unrestricted grants and contracts	34,913	42,301	48,740	45,390	63,570	54,547	66,000	71,113	86,779
Restricted grants and contracts	358,361	415,362	534,751	623,663	638,379	702,686	750,956	828,910	1,060,737
Local governments	1,499,527	1,635,582	1,436,474	1,622,938	1,757,007	1,645,517	1,984,164	2,176,781	2,325,844
Appropriations	1,415,592	1,527,320	1,310,360	1,476,001	1,599,110	1,691,259	1,824,430	1,970,829	2,150,459
Unrestricted grants and contracts	7,258	16,633	17,608	9,915	16,834	12,447	18,856	35,398	27,852
Restricted grants and contracts	78,677	91,630	106,505	135,022	141,064	141,811	140,898	172,534	147,533
Private gifts, grants, and contracts	618,409	775,927	978,697	1,100,084	1,277,049	1,498,319	1,621,468	1,845,606	2,109,782
Unrestricted	59,050	91,320	105,495	110,462	138,118	180,457	204,441	236,385	279,361
Restricted	557,359	684,607	873,202	989,622	1,138,931	1,317,861	1,417,027	1,609,220	1,830,401
Endowment income	96,997	126,796	191,037	214,561	244,070	274,113	315,109	342,833	396,603
Unrestricted	44,590	65,877	98,930	102,888	114,571	129,423	137,945	147,237	181,824
Restricted	52,408	60,919	92,107	111,673	129,499	144,690	177,165	195,596	216,979
Sales and services	4,686,171	5,819,597	7,442,992	8,455,449	9,820,314	10,392,946	11,262,071	11,967,500	12,990,670
Educational activities	423,259	565,422	819,154	943,737	1,071,743	1,158,594	1,279,212	1,424,698	1,596,946
Auxiliary enterprises	2,889,513	3,393,785	4,088,524	4,814,561	5,122,566	5,501,669	5,947,717	6,296,312	6,684,794
Hospitals	1,373,399	1,860,410	2,535,313	2,897,151	3,426,005	3,732,684	4,035,142	4,246,293	4,706,930
Other sources	493,770	572,043	867,523	1,016,110	1,207,176	1,191,491	1,362,205	1,536,566	1,667,600

Percentage distribution									
<b>Total current-fund revenue</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Tuition and fees from students	13.0	13.1	12.5	12.9	13.5	14.5	14.9	14.5	14.5
Federal Government	14.9	12.8	13.1	12.8	11.4	10.6	10.5	10.6	10.5
Appropriations	2.9	2.8	2.6	2.6	2.3	2.3	2.2	2.3	2.2
Unrestricted grants and contracts	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3
Restricted grants and contracts <sup>1</sup>	9.3	8.6	9.1	8.8	7.7	7.0	6.9	6.9	6.9
Independent operations (FFRDC) <sup>2</sup>	1.5	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.2
State governments	44.6	45.7	46.3	45.6	45.3	44.8	44.3	45.1	45.0
Appropriations	43.1	44.3	44.8	44.0	43.8	43.3	42.8	43.6	43.2
Unrestricted grants and contracts	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Restricted grants and contracts	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.6
Local governments	5.6	5.2	3.7	3.8	3.7	3.7	3.6	3.6	3.6
Appropriations	5.3	4.8	3.4	3.4	3.4	3.4	3.3	3.3	3.3
Unrestricted grants and contracts	(?)	0.1	(?)	(?)	(?)	(?)	(?)	0.1	(?)
Restricted grants and contracts	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Private gifts, grants, and contracts	2.3	2.5	2.5	2.5	2.7	3.0	3.0	3.1	3.2
Unrestricted	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
Restricted	2.1	2.2	2.2	2.3	2.4	2.6	2.6	2.7	2.8
Endowment income	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.6
Unrestricted	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.3
Restricted	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Sales and services	17.5	18.4	19.2	19.6	20.4	20.6	20.6	20.0	20.0
Educational activities	1.6	1.8	2.1	2.2	2.3	2.3	2.3	2.4	2.5
Auxiliary enterprises	10.8	10.8	10.5	10.7	10.8	10.9	10.9	10.5	10.3
Hospitals	5.1	5.9	6.5	6.7	7.2	7.4	7.4	7.1	7.2
Other sources	1.8	1.8	2.2	2.4	2.6	2.4	2.5	2.6	2.6

<sup>1</sup> Excludes Pell Grants. Federally supported student aid that is received through students is included under tuition and auxiliary enterprises.

<sup>2</sup> Generally includes only those revenues associated with major federally funded research and development centers (FFRDC). Large drop after 1975-76 was caused by a change in administration of one of the centers.

<sup>3</sup> Less than 0.05 percent.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared August 1987).

**Table 271.—Current-fund revenue of private institutions of higher education, by source: 1975-76 to 1985-86**

Source	1975-76	1977-78	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund revenue</b>	<b>\$12,868,268</b>	<b>\$15,489,434</b>	<b>\$19,695,774</b>	<b>\$22,389,172</b>	<b>\$24,920,034</b>	<b>\$27,183,840</b>	<b>\$29,872,012</b>	<b>\$32,878,536</b>	<b>\$35,432,985</b>
Tuition and fees from students	4,694,378	5,713,306	7,070,178	8,202,855	9,379,225	10,480,163	11,591,566	12,835,691	13,877,429
Federal Government	2,478,058	2,928,809	3,829,362	4,207,485	4,216,475	4,279,960	4,686,184	5,199,307	5,852,380
Appropriations	124,589	154,299	187,786	218,733	210,339	204,774	210,123	221,407	218,143
Unrestricted grants and contracts	299,653	372,606	494,671	597,134	600,641	627,388	690,040	751,076	842,272
Restricted grants and contracts <sup>1</sup>	1,388,423	1,589,171	2,066,762	2,193,119	2,212,382	2,073,511	2,250,015	2,449,780	2,708,622
Independent operations (FFRDC) <sup>2</sup>	865,383	812,734	1,069,963	1,198,498	1,195,113	1,374,287	1,535,586	1,777,044	2,085,343
State governments	297,548	315,230	404,457	430,253	451,728	502,951	549,873	617,593	690,914
Appropriations	170,935	191,774	221,242	259,470	268,749	278,821	295,401	307,686	331,219
Unrestricted grants and contracts	22,453	25,625	43,153	39,458	44,080	46,809	54,546	64,026	85,330
Restricted grants and contracts	104,160	97,631	140,062	131,328	138,919	177,522	199,727	245,902	294,365
Local governments	117,448	108,648	151,078	167,801	180,861	185,836	208,091	208,451	216,682
Appropriations	3,951	4,773	4,008	4,535	4,794	2,140	2,160	2,455	2,701
Unrestricted grants and contracts	10,889	15,624	19,283	19,714	24,221	24,559	24,565	28,045	29,123
Restricted grants and contracts	102,806	88,251	127,788	143,552	151,646	159,137	181,366	177,951	186,838
Private gifts, grants, and contracts	1,300,627	1,544,441	1,829,378	2,078,585	2,286,510	2,554,331	2,793,807	3,050,719	3,301,124
Unrestricted	737,319	830,388	978,546	1,100,441	1,219,301	1,371,836	1,470,501	1,708,491	1,832,592
Restricted	563,308	714,056	850,832	978,144	1,067,209	1,182,494	1,323,306	1,342,228	1,468,532
Endowment income	590,473	703,490	985,590	1,149,883	1,352,742	1,446,564	1,558,836	1,753,465	1,877,295
Unrestricted	323,351	395,204	571,912	667,471	792,273	828,969	883,190	1,060,560	1,103,570
Restricted	267,122	308,286	413,678	482,412	560,469	617,595	675,646	672,905	773,725
Sales and services	3,001,211	3,659,894	4,651,289	5,221,917	5,922,784	6,631,620	7,205,708	7,734,412	8,283,595
Educational activities	222,161	317,292	420,285	485,993	511,179	564,890	691,535	702,032	776,548
Auxiliary enterprises	1,658,109	1,934,055	2,392,934	2,872,720	2,999,045	3,267,852	3,506,652	3,804,098	3,969,342
Hospitals	1,120,941	1,408,548	1,838,070	2,083,195	2,412,560	2,798,676	3,005,520	3,228,282	3,517,705
Other sources	390,528	515,878	774,442	932,392	1,127,908	1,102,215	1,277,788	1,478,897	1,531,586

Percentage distribution

Total current-fund revenue	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Tuition and fees from students	38.5	36.9	35.9	36.6	37.6	38.6	38.6	38.7	38.6
Federal Government	19.2	18.9	19.4	18.6	16.9	15.7	15.7	15.9	16.5
Appropriations	1.0	1.0	1.0	1.0	0.8	0.8	0.7	0.7	0.8
Unrestricted grants and contracts	2.3	2.4	2.5	2.7	2.4	2.3	2.3	2.3	2.4
Restricted grants and contracts <sup>1</sup>	10.6	10.3	10.5	9.6	8.9	7.6	7.5	7.5	7.8
Independent operations (FFRDC) <sup>2</sup>	5.2	5.2	5.4	5.4	4.8	5.1	5.1	5.4	5.9
State governments	2.3	2.0	2.1	1.9	1.8	1.9	1.8	1.9	1.9
Appropriations	1.3	1.2	1.1	1.2	1.1	1.0	1.0	0.9	0.9
Unrestricted grants and contracts	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Restricted grants and contracts	0.8	0.8	0.7	0.6	0.6	0.7	0.7	0.8	0.8
Local governments	0.9	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6
Appropriations	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Unrestricted grants and contracts	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Restricted grants and contracts	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5
Private gifts, grants, and contracts	10.1	10.0	9.3	9.3	9.2	9.4	9.4	9.3	9.3
Unrestricted	5.7	5.4	5.0	4.9	4.9	5.0	4.9	5.2	5.2
Restricted	4.4	4.8	4.3	4.4	4.3	4.4	4.4	4.1	4.1
Endowment income	4.6	4.5	5.0	5.1	5.4	5.3	5.2	5.4	5.3
Unrestricted	2.5	2.8	2.9	3.0	3.2	3.0	3.0	3.3	3.1
Restricted	2.1	2.0	2.1	2.2	2.2	2.3	2.3	2.1	2.2
Sales and services	23.3	23.6	23.6	23.3	23.6	24.4	24.1	23.7	23.4
Educational activities	1.7	2.0	2.1	2.1	2.1	2.1	2.3	2.1	2.2
Auxiliary enterprises	12.9	12.5	12.1	11.9	12.0	11.7	11.6	11.6	11.3
Hospitals	6.7	9.1	9.3	9.3	9.7	10.3	10.1	9.9	9.9
Other sources	3.0	3.3	3.9	4.2	4.5	4.1	4.3	4.5	4.3

<sup>1</sup> Excludes Pell Grants. Federally supported student aid that is received through students is included under tuition and auxiliary enterprises.

<sup>2</sup> Generally includes only those revenues associated with major federally funded research and development centers (FFRDC).

<sup>3</sup> Less than 0.05 percent.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared August 1987).

Table 272.—Revenue of Institutions of higher education, by source of funds: 1919–20 to 1985–86

[In thousands]

Item	1919-20	1929-30	1939-40	1949-50	1959-60	1969-70	1971-72	1973-74	1975-76	1977-78	1979-80	1981-82	1983-84	1985-86
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Current-fund revenue .. . . .</b>	<b>\$199,922</b>	<b>\$554,511</b>	<b>\$715,211</b>	<b>\$2,374,645</b>	<b>\$5,785,537</b>	<b>\$21,515,242</b>	<b>\$26,234,259</b>	<b>\$31,712,152</b>	<b>\$39,703,166</b>	<b>\$47,034,032</b>	<b>\$58,519,982</b>	<b>\$72,190,856</b>	<b>\$84,417,287</b>	<b>\$100,437,616</b>
Educational and general	172,929	483,065	571,288	1,833,845	4,688,352	—	—	—	—	—	—	—	—	—
Student tuition and fees <sup>1</sup>	42,255	144,126	200,897	394,610	1,157,482	4,419,845	5,594,095	6,500,101	8,171,942	9,855,270	11,930,340	15,774,038	19,714,884	23,116,605
Federal Government: <sup>2</sup>														
Veterans' tuition and fees <sup>1</sup>	—	—	—	307,325	3,422	—	—	—	—	—	—	—	—	—
Research <sup>3</sup>	—	—	—	—	827,263	4,130,066	4,847,959	5,511,155	6,477,179	6,968,501	8,902,844	9,591,805	10,406,166	12,704,750
Other purposes	12,783	20,858	38,860	218,994	206,305	—	—	—	—	—	—	—	—	—
State governments <sup>4</sup>	* 61,690	* 150,847	151,222	491,636	1,374,776	5,673,626	7,237,248	9,337,167	12,260,886	14,746,166	18,378,299	21,848,791	24,706,990	29,911,500
Local governments	(*)	(*)	24,392	61,700	151,715	778,162	994,620	1,267,783	1,616,975	1,744,230	1,587,552	1,937,669	2,192,275	2,544,506
Endowment earnings	26,482	68,605	71,304	96,341	206,619	516,038	560,948	667,589	687,470	632,286	1,176,827	1,596,813	1,873,945	2,275,898
Private gifts and grants <sup>5</sup>	7,584	26,172	33	118,627	382,569	1,129,438	1,356,082	1,583,704	1,917,036	2,320,368	2,808,075	3,563,558	4,415,275	5,410,905
Sales and services of educational departments	—	—	32,777	111,967	102,525	612,777	739,159	834,060	645,420	882,715	1,239,439	1,582,922	1,970,747	2,373,494
Other educational and general	22,135	72,657	11,383	34,625	88,207	—	—	—	—	—	—	—	—	—
Auxiliary enterprises	26,993	60,419	143,923	511,265	1,004,283	2,900,390	3,308,958	3,734,229	4,547,622	5,327,821	6,481,458	8,121,611	9,456,389	10,674,136
Student-aid income <sup>7</sup>	—	—	—	16,288	92,902	—	—	—	—	—	—	—	—	—
Hospitals <sup>8</sup>	—	—	—	—	187,769	619,576	1,006,865	1,436,481	2,494,340	3,268,956	4,373,384	5,838,565	7,040,662	8,226,835
Other current income	—	11,027	—	13,247	—	535,323	588,322	840,186	884,298	1,087,719	1,841,965	2,335,064	2,639,973	3,199,186
<b>Plant-fund receipts . . . . .</b>	<b>19,194</b>	<b>82,078</b>	<b>66,209</b>	<b>528,747</b>	<b>1,308,506</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>7,286,363</b>	<b>6,761,466</b>	<b>8,853,540</b>	<b>10,247,333</b>	<b>11,727,629</b>	<b>16,213,426</b>
Federal Government	—	—	22,987	12,358	57,599	—	—	—	—	—	—	—	—	—
State governments	11,294	30,621	18,404	263,920	319,513	—	—	—	—	—	—	—	—	—
Local governments	—	—	2,154	19,373	36,304	—	—	—	6,400,819	5,738,021	7,546,010	8,695,342	9,703,180	13,661,547
Private gifts and grants	7,900	51,457	22,663	72,620	196,408	—	—	—	—	—	—	—	—	—
Loans, noninstitutional sources	—	—	—	—	361,112	—	—	—	—	—	—	—	—	—
Loans, institutional sources	—	—	—	—	31,873	—	—	—	—	—	—	—	—	—
Transfers from other funds	—	—	—	60,582	228,576	—	—	—	885,544	1,023,445	1,307,530	1,551,991	2,024,449	2,551,879
Miscellaneous receipts	—	—	—	79,894	77,122	—	—	—	—	—	—	—	—	—
<b>Other fund receipts . . . . .</b>	<b>—</b>	<b>—</b>	<b>44,518</b>	<b>* 116,932</b>	<b>496,950</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>1,312,947</b>	<b>1,438,793</b>	<b>2,612,488</b>	<b>3,351,273</b>	<b>3,646,719</b>	<b>7,794,247</b>
Private gifts and grants	50,907	63,512	36,376	66,850	209,148	—	—	—	—	—	—	—	—	—
Other sources	—	—	8,142	50,082	289,804	—	—	—	—	—	—	—	—	—
<b>Net increase in principal of funds</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>419,310</b>	<b>367,978</b>	<b>—</b>	<b>—</b>	<b>958,687</b>	<b>1,032,164</b>	<b>2,153,706</b>	<b>2,224,189</b>	<b>2,409,715</b>	<b>7,238,660</b>
Endowment funds <sup>10</sup>	—	—	—	—	375,178	367,978	—	—	648,837	757,622	1,674,241	2,030,269	2,147,552	6,792,298
Annuity funds	—	—	—	—	11,854	—	—	—	52,963	45,420	64,466	48,604	69,429	234,611
Student loan funds	—	—	—	—	32,279	—	—	—	257,037	229,122	214,999	145,316	192,734	211,951

<sup>1</sup> Tuition and fees received from veterans under Public Law 550 are reported under student fees and not under income from the Federal Government

<sup>2</sup> Federally supported student aid that is received through students is included under tuition and auxiliary enterprises

<sup>3</sup> Income from the Federal Government for research at agricultural experiment stations administered by land-grant institutions is included under "Federal Government "other purposes," not under "research." Beginning in 1969-70, data include independent operations (Federally Funded Research and Development Centers)

<sup>4</sup> Includes Federal aid received through State channels and regional compacts, through 1959-60

<sup>5</sup> Income from State and local governments tabulated under "State governments"

<sup>6</sup> Beginning in 1969-70, the private grants represent nongovernmental revenue for sponsored research, student aid, and other sponsored programs

<sup>7</sup> Specifically designated or earmarked funds

<sup>8</sup> Prior to 1959-60, data for hospitals are included under sales and services of educational activities

<sup>9</sup> Does not include interfund transfers

<sup>10</sup> Includes funds functioning as endowment, increase calculated on book value

— Data not available

NOTE—Data for years prior to 1969-70 are not entirely comparable with data for later years. Also, some details for 1969-70 through 1973-74 are not directly comparable with data for later years. Details for 1959-60 and 1969-70 have been revised from previously published figures. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared September 1987)



**Table 273.—Voluntary support for institutions of higher education, by source and purpose of support:  
1949-50 to 1986-87**

(In millions)

Source and purpose of support	1949-50	1959-60	1965-66	1970-71	1975-76	1980-81	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10
<b>Total voluntary support</b> <sup>1</sup> .....	<b>\$240</b>	<b>\$815</b>	<b>\$1,440</b>	<b>\$1,860</b>	<b>\$2,410</b>	<b>\$4,230</b>	<b>\$6,320</b>	<b>\$7,400</b>	<b>\$8,500</b>
<b>Sources:</b>									
Alumni.....	60	191	310	458	588	1,049	1,460	1,825	2,346
Nonalumni individuals.....	60	194	350	495	569	1,007	1,416	1,781	2,066
Corporations.....	28	130	230	259	379	778	1,574	1,702	1,819
Foundations.....	60	163	357	418	549	922	1,175	1,363	1,513
Religious organizations.....	16	80	108	104	130	140	208	211	204
Other.....	16	57	85	126	195	334	487	518	552
<b>Purpose:</b>									
Current operations.....	101	385	675	1,050	1,480	2,590	3,800	4,022	4,420
Capital purposes.....	139	430	765	810	930	1,640	2,520	3,378	4,080
<b>Voluntary support as a percent of total expenditures</b> <sup>2</sup> .....	<b>9.0</b>	<b>11.4</b>	<b>9.2</b>	<b>6.8</b>	<b>5.5</b>	<b>6.0</b>	<b>6.4</b>	<b>6.9</b>	<b>7.3</b>

<sup>1</sup> Data are based on a sample survey of institutions of higher education<sup>2</sup> Total expenditures include current-fund expenditures and additions to plant valueSOURCE: Council for Aid to Education, "Voluntary Support of Education, 1966-1987"  
(This table was prepared April 1989)

**Table 274.—Current-fund revenue of institutions of higher education, by control of institution and State: 1984-85 and 1985-86**

[Amounts in thousands]

State or other area	1984-85			1985-1986			Percent change, 1984-85 to 1985-86		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>\$92,472,894</b>	<b>\$59,794,159</b>	<b>\$32,678,536</b>	<b>\$100,437,616</b>	<b>\$65,004,632</b>	<b>\$35,432,985</b>	<b>8.6</b>	<b>8.7</b>	<b>8.4</b>
Alabama	1,423,878	1,242,999	180,877	1,583,996	1,401,693	182,303	11.3	12.8	0.9
Alaska	246,912	235,069	11,842	233,818	221,837	11,981	-5.3	-5.8	1.2
Arizona	993,456	941,789	51,667	1,102,778	1,049,493	53,285	11.0	11.4	3.1
Arkansas	564,892	498,669	70,203	612,584	539,185	73,399	7.7	8.1	4.8
California	11,265,554	7,913,218	3,352,338	12,479,733	8,739,396	3,740,336	10.8	10.4	11.8
Colorado	1,170,756	1,012,873	157,882	1,252,524	1,085,076	187,449	7.0	7.1	8.1
Connecticut	1,308,687	535,142	788,525	1,430,669	578,866	851,803	8.1	8.2	8.0
Delaware	244,026	229,561	14,465	267,472	251,677	15,795	9.8	9.8	9.2
District of Columbia	1,387,817	66,757	1,298,860	1,455,466	91,642	1,363,624	4.9	3.5	5.0
Florida	2,354,785	1,660,841	893,944	2,583,580	1,810,090	773,491	8.9	9.0	8.8
Georgia	1,818,989	1,157,711	659,278	2,001,973	1,267,472	734,501	10.2	9.5	11.4
Hawaii	313,166	295,228	17,958	338,181	318,246	21,915	8.0	7.1	22.0
Idaho	272,851	224,069	48,582	266,690	235,507	51,183	5.1	5.1	5.4
Illinois	4,938,468	2,312,046	2,826,422	5,388,356	2,560,241	2,828,114	9.1	10.7	7.7
Indiana	2,044,873	1,532,377	512,296	2,246,524	1,701,421	545,102	9.9	11.0	8.4
Iowa	1,393,450	1,052,891	340,559	1,473,818	1,109,661	364,138	5.8	5.4	8.9
Kansas	920,111	821,396	98,715	969,800	864,119	105,681	5.4	5.2	7.1
Kentucky	1,055,562	873,077	182,485	1,144,602	943,068	201,535	8.4	8.0	10.4
Louisiana	1,349,261	1,011,370	337,891	1,422,856	1,055,941	366,714	5.4	4.4	8.5
Maine	339,829	213,880	125,949	362,028	222,824	139,405	8.5	4.1	10.7
Maryland	1,883,024	1,061,354	821,671	2,059,525	1,144,230	915,295	9.4	7.8	11.4
Massachusetts	4,256,521	938,898	3,319,822	4,715,127	1,075,348	3,639,779	10.7	14.5	9.8
Michigan	3,229,819	2,785,058	444,561	3,536,657	3,071,172	465,485	9.5	10.3	4.7
Minnesota	1,787,424	1,290,356	497,068	1,904,004	1,373,436	530,568	6.5	6.4	6.7
Mississippi	732,403	687,078	65,325	800,914	734,813	66,100	9.4	10.2	1.2
Missouri	1,806,031	930,851	877,380	1,990,157	1,032,665	957,472	10.1	11.0	9.1
Montana	201,702	181,506	20,198	203,072	181,462	21,610	0.7	(1)	7.0
Nebraska	877,062	525,341	151,721	716,805	554,814	181,991	5.9	5.6	8.8
Nevada	158,184	156,918	1,246	187,331	164,883	2,448	18.4	17.8	96.4
New Hampshire	419,713	173,231	246,482	458,560	190,462	268,098	9.3	9.9	8.8
New Jersey	2,050,009	1,318,623	733,387	2,202,815	1,446,098	756,718	7.5	9.8	3.2
New Mexico	454,858	440,567	14,292	488,858	473,716	15,142	7.5	7.5	5.9
New York	8,946,921	3,847,741	5,299,181	9,614,783	3,830,119	5,784,664	7.5	5.0	9.2
North Carolina	2,453,562	1,679,156	774,406	2,668,758	1,857,124	829,634	9.5	10.8	7.1
North Dakota	289,108	270,401	18,707	305,356	288,550	18,806	5.6	6.0	0.5
Ohio	3,577,174	2,827,717	949,457	3,829,888	2,824,411	1,005,477	1	7.5	5.9
Oklahoma	951,378	776,181	175,195	1,062,554	873,446	189,108	11.7	12.5	7.9
Oregon	998,558	838,596	159,961	1,069,677	899,709	169,967	7.1	7.3	8.3
Pennsylvania	5,240,681	2,241,489	2,999,191	5,766,204	2,473,794	3,314,411	10.4	10.4	10.5
Rhode Island	509,393	200,477	308,916	549,328	213,859	335,469	7.8	6.7	8.6
South Carolina	1,052,203	868,386	183,817	1,154,038	957,771	196,266	9.7	10.3	8.8
South Dakota	185,381	136,859	48,522	199,636	147,699	51,937	7.7	7.9	7.0
Tennessee	1,649,516	976,132	873,384	1,823,669	1,104,118	719,551	10.6	13.1	8.9
Texas	5,313,729	4,327,624	986,105	5,571,190	4,558,275	1,012,915	4.8	5.3	2.7
Utah	798,804	621,338	177,466	871,219	686,817	184,401	9.1	10.5	3.9
Vermont	324,954	179,705	145,249	348,710	191,559	157,152	7.3	6.6	8.2
Virginia	2,064,098	1,702,484	361,634	2,283,382	1,876,151	407,232	10.6	10.2	12.6
Washington	1,570,271	1,348,070	222,201	1,678,839	1,445,849	232,990	6.9	7.3	4.9
West Virginia	433,766	364,577	69,189	457,735	385,170	72,565	5.5	5.8	4.9
Wisconsin	1,984,306	1,821,860	362,446	2,139,909	1,781,927	377,982	7.8	8.8	4.3
Wyoming	189,926	189,926	—	208,595	208,595	—	9.6	9.8	—
U.S. Service Schools	854,918	854,918	—	913,092	913,092	—	8.8	8.8	—
Outlying areas	815,029	420,641	194,387	662,770	451,734	211,036	7.6	7.4	8.6
American Samoa	2,313	2,313	—	2,413	2,413	—	4.3	4.3	—
Guam	26,555	26,555	—	31,139	31,139	—	17.3	17.3	—
Northern Marianas	1,293	1,293	—	1,350	1,350	—	—	—	—
Puerto Rico	559,601	365,213	194,387	603,231	392,194	211,036	7.8	7.4	8.8
Trust Territory of the Pacific	7,208	7,208	—	5,681	5,681	—	-21.2	-21.2	—
Virgin Islands	18,059	18,059	—	18,957	18,957	—	5.0	5.0	—

<sup>1</sup> Less than .05 percent  
—Data not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Higher Education" surveys (This table was prepared July 1987)

NOTE—Because of rounding, details may not add to totals

**Table 275.—Current-fund revenue from State and local governments for institutions of higher education, by State: 1982-83 to 1985-86**

(In thousands)

State	Current-fund revenue from State and local governments			Current-fund revenue from State and local governments, 1985-86					
	1982-83	1983-84	1984-85	Total	State appropriations for public institutions	Local appropriations for public institutions	State and local appropriations for private institutions	State and local grants and contracts for public institutions	State and local grants and contracts for private institutions
	2	3	4	5	6	7	8	9	10
<b>United States<sup>1</sup></b>	<b>\$25,096,989</b>	<b>\$26,899,265</b>	<b>\$29,970,223</b>	<b>\$32,456,006</b>	<b>\$26,071,070</b>	<b>\$2,150,459</b>	<b>\$333,920</b>	<b>\$1,324,901</b>	<b>\$575,656</b>
Alabama	419,892	436,574	568,958	656,823	624,942	5,417	2,933	20,995	2,535
Alaska	155,172	163,355	171,888	159,781	153,321	233	0	5,796	437
Arizona	379,338	427,559	476,993	539,054	417,244	105,342	30	16,197	191
Arkansas	189,631	203,288	254,883	266,898	256,238	0	0	9,854	806
California	3,729,632	3,700,828	4,412,324	4,943,659	4,150,576	482,598	100	295,002	15,383
Colorado	331,247	349,241	369,073	391,468	354,604	14,018	0	21,369	1,476
Connecticut	217,493	238,376	254,872	280,012	259,600	0	1,579	5,831	13,002
Delaware	71,257	74,361	82,250	88,661	85,832	0	0	2,723	106
District of Columbia	61,261	62,980	67,530	71,781	0	67,715	0	2,002	2,044
Florida	906,555	1,005,790	1,088,802	1,172,112	1,070,305	4,236	9,646	54,089	33,836
Georgia	495,967	585,964	640,938	689,379	641,490	12,382	4,042	23,046	8,419
Hawaii	171,244	169,435	173,951	195,375	192,094	0	173	3,139	29
Idaho	100,551	105,590	114,422	125,338	115,659	5,011	0	4,416	252
Illinois	1,064,568	1,137,153	1,236,580	1,405,622	1,081,259	177,681	14,573	93,649	38,460
Indiana	463,197	541,573	584,351	645,880	611,657	748	624	23,036	9,015
Iowa	389,922	403,976	444,893	431,840	400,286	17,370	0	11,078	3,107
Kansas	358,529	369,380	403,293	422,278	344,042	63,277	0	13,632	1,355
Kentucky	396,569	442,320	454,739	483,027	450,831	3,231	0	28,603	363
Louisiana	501,611	519,896	572,680	562,205	532,174	1,773	575	26,097	1,586
Maine	75,010	79,537	92,212	103,724	99,450	428	0	3,619	227
Maryland	479,223	511,811	564,827	631,471	492,948	76,462	12,089	42,022	7,950
Massachusetts	349,706	385,980	534,697	589,876	534,002	377	1,040	26,701	27,757
Michigan	882,903	986,520	1,077,734	1,215,291	1,053,665	102,766	5,652	37,584	15,624
Minnesota	411,248	464,942	494,834	533,573	509,999	123	0	15,214	8,237
Mississippi	292,449	326,887	336,717	362,517	330,527	19,837	0	11,886	268
Missouri	377,295	392,407	433,052	506,246	448,760	34,707	0	20,831	2,149
Montana	89,311	97,172	99,092	97,672	91,805	2,693	17	3,101	56
Nebraska	219,831	231,625	250,531	248,544	209,620	26,210	0	11,325	1,390
Nevada	68,204	71,175	79,789	99,841	95,412	0	0	4,414	15
New Hampshire	37,054	42,624	45,254	52,393	48,958	0	0	2,080	1,355
New Jersey	604,873	656,279	749,962	837,214	662,898	87,548	16,173	49,285	21,309
New Mexico	178,189	184,746	218,286	221,094	190,781	12,293	0	17,731	288
New York	2,223,913	2,369,001	2,517,676	2,726,150	2,026,746	266,277	134,850	53,100	245,177
North Carolina	758,820	845,648	972,913	1,074,960	989,528	39,577	2,919	22,549	20,387
North Dakota	114,271	108,993	122,389	118,691	115,679	1,037	0	1,709	266
Ohio	781,208	919,630	1,030,246	1,132,673	1,019,197	52,416	7,675	40,331	10,059
Oklahoma	380,276	355,840	361,638	437,693	409,613	8,948	0	18,816	296
Oregon	304,287	355,271	363,528	394,899	290,669	82,409	960	19,277	1,584
Pennsylvania	766,530	808,788	888,715	961,089	735,151	51,067	66,119	56,616	52,135
Rhode Island	87,908	93,039	100,031	107,265	101,776	0	1,299	3,769	1,121
South Carolina	351,638	373,496	446,824	491,802	470,757	10,982	0	4,292	1,287
South Dakota	55,462	57,051	56,374	65,151	63,037	0	0	2,041	73
Tennessee	357,171	376,541	457,745	528,933	498,786	37	402	21,180	8,524
Texas	2,205,158	2,464,751	2,609,730	2,521,860	2,266,662	126,120	40,541	81,070	7,468
Utah	202,693	207,585	242,285	256,997	248,250	0	0	8,703	44
Vermont	30,705	32,779	34,006	35,334	32,094	0	0	3,150	91
Virginia	560,821	549,725	708,775	775,474	738,865	565	3,817	26,911	5,297
Washington	462,151	565,268	601,857	620,383	588,655	292	0	31,154	272
West Virginia	173,938	189,501	211,013	222,693	212,551	0	0	9,431	710
Wisconsin	695,149	741,097	778,723	825,610	638,978	172,835	5,611	6,339	1,847
Wyoming	115,962	114,990	115,366	127,714	113,087	13,432	—	1,196	—

<sup>1</sup> Excludes U.S. Service Schools  
—Data not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared August 1987)

NOTE:—Because of rounding, details may not add to totals

**Table 276.—Current-fund revenue received from the Federal Government by the 100 institutions of higher education receiving the largest amounts: 1985-86**

(In thousands)

Institution	Rank order	Current-fund revenue from the Federal Government <sup>1</sup>	Institution	Rank order	Current-fund revenue from the Federal Government <sup>1</sup>
1	2	3	1	2	3
United States (all institutions)	—	\$12,704,750			
100 institutions of higher education receiving the largest amounts		9,373,625			
California Institute of Technology	1	909,701	Northwestern University (Ill.)	51	56,477
Massachusetts Institute of Technology	2	493,671	University of California, Davis	52	55,854
Johns Hopkins University (Md.)	3	437,557	University of Alabama at Birmingham	53	55,608
University of Chicago (Ill.)	4	342,965	University of Texas Medical Branch at Galveston	54	54,307
Stanford University (Calif.)	5	278,639	Carnegie-Mellon University (Pa.)	55	53,444
U.S. Air Force Academy (Colo.)	6	247,887	University of Colorado at Boulder	56	52,607
U.S. Military Academy (N.Y.)	7	231,751	Case Western Reserve University (Ohio)	57	52,178
University of Washington	8	180,503	Iowa State University of Science and Technology	58	51,085
Howard University (D.C.)	9	171,036	University of Hawaii at Manoa	59	50,701
University of Wisconsin, Madison	10	158,397	Baylor College of Medicine (Tex.)	60	50,218
Columbia University, Main Division (N.Y.)	11	155,746	University of Virginia, Main Campus	61	49,117
U.S. Naval Academy (Md.)	12	154,587	University of Georgia	62	49,057
University of California, Los Angeles	13	141,683	Medical College of Wisconsin	63	48,288
Princeton University (N.J.)	14	139,092	Vanderbilt University (Tenn.)	64	47,589
University of Michigan, Ann Arbor	15	138,804	Air Force Institute of Technology (Ohio)	65	45,713
Harvard University (Mass.)	16	135,291	North Carolina State University, Raleigh	66	45,671
University of California, San Diego	17	133,055	University of Tennessee, Knoxville	67	45,154
University of Pennsylvania	18	129,115	University of Texas, Health Science Center at Dallas	68	45,025
University of Minnesota, Minneapolis-St. Paul	19	129,059	Emory University (Ga.)	69	44,546
University of California, San Francisco	20	126,830	Virginia Polytechnic Institute and State University	70	43,975
University of Illinois, Urbana Campus	21	124,879	University of Miami (Fla.)	71	43,725
Yale University (Conn.)	22	124,645	University of California, Irvine	72	43,158
University of California, Berkeley	23	115,641	Uniformed Services University of the Health Sciences (Md.)	73	42,810
Cornell University, Medical Center (N.Y.)	24	113,638	Gallaudet College (D.C.)	74	41,888
University of Southern California	25	111,092	Tufts University (Mass.)	75	41,044
University of North Carolina, Chapel Hill	26	108,965	New Mexico State University, Main Campus	76	40,990
Virginia Commonwealth University	27	99,184	Tulane University of Louisiana	77	40,730
Cornell University Endowed Colleges (N.Y.)	28	90,630	University of Illinois at Chicago	78	40,376
Pennsylvania State University, Main Campus	29	87,729	Cornell University Statutory Colleges (N.Y.)	79	39,821
Georgetown University (D.C.)	30	85,718	Colorado State University	80	39,090
New York University	31	83,380	University of Colorado, Health Sciences Center	81	38,937
Ohio State University, Main Campus	32	82,677	Rockefeller University (N.Y.)	82	36,848
University of Texas at Austin	33	80,488	Mayo Graduate School of Medicine (Minn.)	83	36,273
Rush University (Ill.)	34	79,758	University of Massachusetts, Amherst Campus	84	35,561
University of Rochester (N.Y.)	35	79,447	University of Cincinnati, Main Campus (Ohio)	85	35,279
University of Arizona	36	79,241	Rochester Institute of Technology (N.Y.)	86	34,983
Washington University (Mo.)	37	77,500	University of New Mexico, Main Campus	87	34,959
Michigan State University	38	75,794	University of Missouri, Columbia	88	34,084
University of Florida	39	70,714	Utah State University	89	33,895
University of Pittsburgh, Main Campus (Pa.)	40	70,575	Texas A&M University, Main Campus	90	33,198
Purdue University (Ind.)	41	69,148	University of Kentucky	91	32,814
University of Maryland, College Park Campus	42	66,970	U.S. Coast Guard Academy (Conn.)	92	32,695
University of Iowa	43	66,232	Indiana University, Bloomington	93	32,244
Naval Postgraduate School (Calif.)	44	62,060	Washington State University	94	31,953
Boston University (Mass.)	45	61,781	U.S. Army Command and General Staff College (Kans.)	95	31,168
Yeshiva University (N.Y.)	46	60,433	University of Vermont and State Agricultural College	96	30,362
Georgia Institute of Technology, Main Campus	47	60,119	Florida State University	97	29,876
University of Utah	48	59,885	Brown University (R.I.)	98	29,844
Oregon State University	49	59,512	State University of New York at Stony Brook, Main Campus	99	29,627
Duke University (N.C.)	50	58,671	Mount Sinai School of Medicine of City University of New York	100	29,528

<sup>1</sup> Includes Federal appropriations, unrestricted and restricted Federal contracts and grants, and revenue for independent operations. Independent operations generally include only the revenues associated with major federally funded research and development centers. Excludes Pell Grants. Federally supported student aid that is received through students is excluded.  
—Not applicable

NOTE—Because of rounding, details do not add to total

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Higher Education" survey (This table was prepared August 1987)

**Table 277.—Current-fund expenditures and expenditures per full-time-equivalent student in institutions of higher education, by type and control of institution: 1970-71 to 1985-86**

Control of institution and year	All institutions			4-year institutions			2-year institutions		
	Current-fund expenditures, in millions		Current-fund expenditures per student, in constant 1985-86 dollars	Current-fund expenditures, in millions		Current-fund expenditures per student, in constant 1985-86 dollars	Current-fund expenditures, in millions		Current-fund expenditures per student, in constant 1985-86 dollars
	Current dollars	Constant 1985-86 dollars <sup>1</sup>		Current dollars	Constant 1985-86 dollars <sup>1</sup>		Current dollars	Constant 1985-86 dollars <sup>1</sup>	
1	2	3	4	5	6	7	8	9	10
<b>All institutions</b>									
1970-71	\$23,375	\$65,890	\$9,779	\$21,049	\$59,332	\$11,367	\$2,327	\$6,558	\$4,321
1971-72	25,580	68,228	9,544	22,851	60,997	11,234	2,709	7,231	4,207
1972-73	27,956	70,867	9,770	24,653	62,494	11,558	3,303	8,372	4,533
1973-74	30,714	72,722	9,757	26,912	63,721	11,577	3,802	9,001	4,617
1974-75	35,058	76,464	9,796	30,596	66,734	11,904	4,461	9,730	4,424
1975-76	38,903	79,585	9,385	33,811	69,168	11,723	5,092	10,417	4,039
1976-77	42,600	81,836	9,845	37,052	71,178	12,171	5,548	10,658	4,325
1977-78	45,971	82,784	9,837	39,899	71,849	12,106	6,072	10,935	4,409
1978-79	50,721	84,769	10,154	44,163	73,809	12,441	6,558	10,960	4,537
1979-80	56,914	86,613	10,205	49,661	75,575	12,562	7,253	11,038	4,466
1980-81	64,053	87,985	9,977	55,847	76,704	12,449	8,212	11,281	4,245
1981-82	70,339	87,803	9,740	61,333	76,561	12,250	9,006	11,242	4,066
1982-83	75,936	89,141	9,805	66,238	77,757	12,443	9,697	11,384	4,005
1983-84 <sup>2</sup>	81,993	91,342	9,973	71,680	79,852	12,628	10,314	11,489	4,052
1984-85 <sup>2</sup>	89,951	93,888	10,496	78,744	82,190	13,064	11,207	11,898	4,303
1985-86 <sup>2</sup>	97,536	97,536	10,918	85,560	85,560	13,589	11,976	11,976	4,540
<b>Public institutions</b>									
1970-71	14,996	42,271	8,534	12,899	36,360	10,269	2,097	5,911	4,185
1971-72	16,484	44,003	8,233	14,014	37,408	10,026	2,470	6,594	4,087
1972-73	18,204	46,146	8,463	15,146	38,395	10,359	3,058	7,751	4,438
1973-74	20,336	48,151	8,553	16,802	39,783	10,512	3,534	8,368	4,535
1974-75	23,490	51,234	8,618	19,309	42,115	10,946	4,181	9,119	4,348
1975-76	26,184	53,565	8,213	21,392	43,762	10,788	4,792	9,803	3,978
1976-77	28,635	55,009	8,663	23,411	44,973	11,248	5,224	10,036	4,268
1977-78	30,725	55,330	8,650	25,013	45,043	11,152	5,712	10,266	4,363
1978-79	33,733	56,377	8,978	27,600	46,128	11,543	6,132	10,249	4,489
1979-80	37,768	57,476	8,991	30,979	47,145	11,614	6,789	10,332	4,428
1980-81	42,280	58,077	8,743	34,677	47,634	11,455	7,602	10,443	4,204
1981-82	46,219	57,694	8,508	37,890	47,297	11,238	8,330	10,398	4,041
1982-83	49,573	58,194	8,495	40,616	47,679	11,297	8,957	10,515	3,998
1983-84 <sup>2</sup>	53,087	59,139	8,594	43,588	48,558	11,384	9,419	10,582	4,045
1984-85 <sup>2</sup>	58,314	60,866	9,102	48,017	50,118	11,826	10,277	10,748	4,384
1985-86 <sup>2</sup>	63,194	63,194	9,471	52,184	52,184	12,300	11,010	11,010	4,532
<b>Private institutions</b>									
1970-71	8,379	23,619	13,235	8,150	22,972	13,680	230	647	6,140
1971-72	9,075	24,225	13,427	8,837	23,588	13,886	239	637	6,033
1972-73	9,752	24,721	13,727	9,507	24,100	14,171	245	621	6,191
1973-74	10,377	24,571	13,472	10,110	23,938	13,921	267	633	6,064
1974-75	11,568	25,230	13,560	11,287	24,619	13,998	280	611	5,998
1975-76	12,719	26,020	13,293	12,419	25,406	13,779	300	613	5,406
1976-77	13,965	26,827	13,669	13,641	26,205	14,168	324	623	5,509
1977-78	15,246	27,454	13,599	14,885	26,806	14,138	360	649	5,280
1978-79	16,988	28,392	13,721	16,563	27,681	14,295	425	711	5,353
1979-80	19,146	29,136	13,910	18,682	28,431	14,529	464	706	5,117
1980-81	21,773	29,908	13,740	21,163	29,070	14,513	610	838	4,827
1981-82	24,120	30,109	13,482	23,444	29,265	14,336	676	844	4,400
1982-83	26,363	30,947	13,809	25,623	30,078	14,830	740	669	4,084
1983-84 <sup>2</sup>	28,907	32,202	14,138	28,092	31,295	15,206	815	908	4,133
1984-85 <sup>2</sup>	31,637	33,021	14,620	30,727	32,072	15,618	910	950	4,627
1985-86 <sup>2</sup>	34,342	34,342	15,187	33,376	33,376	16,251	966	966	4,839

<sup>1</sup> Dollars adjusted by the Higher Education Price Index

<sup>2</sup> Expenditure-per-student calculation includes only those institutions for which both finance and enrollment data were available

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" and "Fall Enrollment in Colleges and Universities" surveys (This table was prepared August 1987)

NOTE—Because of rounding, details may not add to totals

**Table 278.—Current-fund expenditures of institutions of higher education, by purpose: 1975–76 to 1985–86**

Purpose	1975-76	1977-78	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund expenditures</b>	<b>638,803,177</b>	<b>645,970,790</b>	<b>656,913,588</b>	<b>664,052,938</b>	<b>670,339,448</b>	<b>675,935,749</b>	<b>681,993,360</b>	<b>689,951,263</b>	<b>697,535,742</b>
<b>Educational and general expenditures</b>	<b>30,508,685</b>	<b>36,256,604</b>	<b>44,542,843</b>	<b>50,073,805</b>	<b>54,848,752</b>	<b>58,929,216</b>	<b>63,741,276</b>	<b>70,061,324</b>	<b>76,127,965</b>
Instruction	13,094,943	15,336,229	18,496,717	20,733,166	22,962,527	24,673,293	26,436,308	28,777,183	31,032,099
Research	3,267,364	3,919,830	5,099,151	5,657,719	5,929,894	6,265,280	6,723,534	7,551,892	8,437,367
Public service	1,238,803	1,425,294	1,816,521	2,057,770	2,203,726	2,320,478	2,499,203	2,861,095	3,119,533
Academic support	2,472,393	3,129,607	3,876,388	4,273,266	4,656,454	5,086,892	5,531,152	6,042,253	6,667,392
Libraries	1,223,723	1,348,747	1,623,811	1,759,784	1,922,416	2,039,671	2,231,149	2,361,783	2,551,331
Student services	1,624,843	2,034,933	2,566,732	2,908,896	3,178,897	3,461,379	3,797,935	4,178,236	4,562,938
Institutional support	3,615,423	4,142,096	5,054,411	5,772,515	6,471,072	6,950,854	7,763,325	8,587,216	9,350,786
Operation and maintenance of plant	3,082,959	3,795,043	4,700,070	5,350,310	5,979,281	6,391,596	6,729,625	7,345,482	7,905,226
Scholarships and fellowships	1,635,858	1,839,298	2,200,468	2,504,525	2,684,945	2,922,897	3,301,673	3,670,355	4,160,174
From unrestricted funds	666,603	618,101	904,876	1,080,614	1,236,081	1,478,762	1,736,188	1,961,597	2,285,118
From restricted funds <sup>1</sup>	949,255	1,021,197	1,295,592	1,423,911	1,448,864	1,444,136	1,563,485	1,708,758	1,875,056
Mandatory transfers	546,496	633,973	732,385	815,516	763,854	856,548	958,321	1,015,813	1,192,449
Auxiliary enterprises	4,476,841	5,261,477	6,485,606	7,268,089	7,997,632	8,614,316	9,250,196	10,012,246	10,526,303
Mandatory transfers	436,928	431,071	468,044	506,377	524,166	543,105	578,066	597,344	617,171
Hospitals	2,695,635	3,597,655	4,757,409	5,433,111	6,234,287	6,966,089	7,379,854	8,010,141	8,692,113
Mandatory transfers	21,475	32,954	50,134	57,963	62,103	103,912	88,447	130,892	128,833
Independent operations (FFRDC) <sup>2</sup>	1,132,016	855,054	1,127,728	1,257,934	1,258,777	1,406,126	1,622,233	1,867,550	2,167,361
Mandatory transfers	2,194	18,093	1,178	643	1,376	1,470	2,110	1,699	3,432
Percentage distribution									
<b>Total current-fund expenditures</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Educational and general expenditures</b>	<b>78.7</b>	<b>78.9</b>	<b>78.3</b>	<b>78.2</b>	<b>78.0</b>	<b>77.6</b>	<b>77.7</b>	<b>77.9</b>	<b>78.1</b>
Instruction	33.7	33.4	32.5	32.4	32.6	32.5	32.2	32.0	31.8
Research	8.5	8.5	9.0	8.8	8.4	8.3	8.2	8.4	8.7
Public service	3.2	3.1	3.2	3.2	3.1	3.1	3.0	3.2	3.2
Academic support	6.4	6.8	6.8	6.7	6.6	6.7	6.7	6.8	6.6
Libraries	3.1	2.9	2.9	2.7	2.7	2.7	2.7	2.6	2.6
Student services	4.2	4.4	4.5	4.5	4.5	4.6	4.6	4.6	4.7
Institutional support	9.3	9.0	8.9	9.0	9.2	9.2	9.5	9.5	9.6
Operation and maintenance of plant	7.9	8.3	8.3	8.4	8.5	8.4	8.2	8.2	7.8
Scholarships and fellowships	4.2	4.0	3.9	3.9	3.8	3.8	4.0	4.1	4.3
From unrestricted funds	1.8	1.8	1.6	1.7	1.8	1.9	2.1	2.2	2.3
From restricted funds <sup>1</sup>	2.4	2.2	2.3	2.2	2.1	1.9	1.9	1.9	1.9
Mandatory transfers	1.4	1.4	1.3	1.3	1.1	1.1	1.2	1.1	1.2
Auxiliary enterprises	11.5	11.4	11.4	11.4	11.4	11.3	11.3	11.1	10.8
Mandatory transfers	1.1	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6
Hospitals	8.9	7.8	8.4	8.5	8.9	9.2	9.0	8.9	8.9
Mandatory transfers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Independent operations (FFRDC) <sup>2</sup>	2.9	1.9	2.0	2.0	1.8	1.9	2.0	2.1	2.2
Mandatory transfers	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Excludes Pell Grants

<sup>2</sup> Generally includes only those expenditures associated with major federally funded research and development centers (FFRDC). Large drop after 1975-78 was caused by a change in administration of one of the centers

<sup>3</sup> Less than 0.05 percent.

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)

Table 279.—Current-fund expenditures of public institutions of higher education, by purpose: 1975-76 to 1985-86

Purpose	1975-76	1977-78	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund expenditures</b>	<b>\$26,183,956</b>	<b>\$30,725,119</b>	<b>\$37,767,970</b>	<b>\$42,279,906</b>	<b>\$46,219,134</b>	<b>\$49,572,919</b>	<b>\$53,096,644</b>	<b>\$58,314,550</b>	<b>\$63,193,953</b>
<b>Educational and general expenditures</b>	<b>21,283,002</b>	<b>24,148,911</b>	<b>30,627,436</b>	<b>34,173,013</b>	<b>37,170,551</b>	<b>39,707,421</b>	<b>42,593,562</b>	<b>46,873,546</b>	<b>50,872,962</b>
Instruction	9,515,985	11,147,758	13,318,733	14,849,822	16,348,109	17,481,536	18,592,391	20,287,410	21,880,782
Research	2,154,441	2,583,478	3,108,633	3,813,350	4,004,955	4,254,947	4,559,531	5,119,191	5,705,144
Public service	1,036,712	1,191,088	1,128,843	1,718,924	1,812,146	1,901,541	2,049,032	2,316,270	2,515,734
Academic support	1,785,066	2,259,126	2,765,726	3,029,284	3,198,322	3,548,064	3,809,572	4,267,698	4,683,543
Libraries	824,671	901,251	1,114,447	1,187,118	1,287,812	1,336,026	1,463,500	1,557,489	1,685,052
Student services	1,115,107	1,398,486	1,754,757	1,950,566	2,085,796	2,252,985	2,460,204	2,684,343	2,921,758
Institutional support	2,364,758	2,825,035	3,135,496	3,563,194	3,957,315	4,185,089	4,679,824	5,191,693	5,667,144
Operation and maintenance of plant	2,158,350	2,664,493	3,267,409	3,681,921	4,104,249	4,390,420	4,577,702	5,040,869	5,177,254
Scholarships and fellowships	796,515	840,666	979,363	1,064,864	1,088,717	1,188,383	1,276,644	1,374,803	1,575,909
From unrestricted funds	276,334	305,563	324,224	367,476	374,632	460,291	518,826	589,058	696,973
From restricted funds <sup>1</sup>	522,181	535,102	646,138	697,388	714,085	728,092	758,018	805,745	878,935
Mandatory transfers	375,038	438,781	473,476	501,087	470,940	524,455	588,662	591,269	735,695
Auxiliary enterprises	21	3,344,067	4,131,944	4,658,140	5,069,948	5,473,341	5,901,869	6,431,577	6,830,235
Mandatory transfers	28	292,208	314,236	344,043	349,871	355,481	367,958	387,585	410,777
Hospitals	1,609,745	2,187,322	2,947,982	3,377,972	3,902,217	4,315,263	4,503,492	4,914,560	5,358,699
Mandatory transfers	9,761	15,928	25,458	26,613	27,736	60,187	37,003	69,072	75,589
Independent operations (FFRDC) <sup>2</sup>	463,094	44,819	60,728	70,881	76,418	76,892	87,720	94,867	131,956
Mandatory transfers	315	12,198	775	322	873	738	656	451	848
Percentage distribution									
<b>Total current-fund expenditures</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Educational and general expenditures</b>	<b>81.3</b>	<b>81.9</b>	<b>81.1</b>	<b>80.8</b>	<b>80.4</b>	<b>80.1</b>	<b>80.2</b>	<b>80.4</b>	<b>80.5</b>
Instruction	36.3	36.3	35.3	35.1	35.4	35.2	35.0	34.8	34.6
Research	8.2	8.4	9.0	9.0	8.7	8.6	8.6	8.8	9.0
Public service	4.0	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.0
Academic support	6.7	7.4	7.4	7.2	7.1	7.2	7.2	7.3	7.4
Libraries	3.1	2.9	3.0	2.8	2.8	2.7	2.6	2.7	2.7
Student services	4.3	4.6	4.6	4.6	4.5	4.5	4.6	4.6	4.6
Institutional support	9.0	8.5	8.3	8.4	8.6	8.4	8.8	8.9	9.0
Operation and maintenance of plant	8.2	8.7	8.7	8.7	8.9	8.9	8.6	8.6	8.2
Scholarships and fellowships	3.0	2.7	2.6	2.5	2.4	2.4	2.4	2.4	2.5
From unrestricted funds	1.1	1.0	0.9	0.9	0.8	0.9	1.0	1.0	1.1
From restricted funds <sup>1</sup>	2.0	1.7	1.7	1.6	1.5	1.5	1.4	1.4	1.4
Mandatory transfers	1.4	1.4	1.3	1.2	1.0	1.1	1.1	1.0	1.2
Auxiliary enterprises	10.8	10.9	10.9	11.0	11.0	11.0	11.1	11.0	10.8
Mandatory transfers	1.1	1.0	0.8	0.8	0.8	0.7	0.7	0.7	0.7
Hospitals	6.1	7.1	7.8	8.0	8.4	8.7	8.5	8.4	8.5
Mandatory transfers	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Independent operations (FFRDC) <sup>2</sup>	1.8	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Mandatory transfers	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Exclude Pell Grants

<sup>2</sup> Generally includes only those expenditures associated with major federally funded research and development centers (FFRDC). Large drop after 1975-76 was caused by a change in administration of one of the centers

<sup>3</sup> Less than 0.05 percent

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)

**Table 280.—Current-fund expenditures of private institutions of higher education, by purpose: 1975-76 to 1985-86**

Purpose	1975-76	1977-78	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
1	2	3	4	5	6	7	8	9	10
In thousands									
<b>Total current-fund expenditures</b>	<b>\$12,719,221</b>	<b>\$15,245,671</b>	<b>\$19,145,616</b>	<b>\$21,773,132</b>	<b>\$24,120,314</b>	<b>\$26,362,831</b>	<b>\$28,906,716</b>	<b>\$31,636,713</b>	<b>\$34,341,889</b>
<b>Educational and general expenditures</b>	<b>9,315,664</b>	<b>11,107,693</b>	<b>13,915,407</b>	<b>15,900,792</b>	<b>17,878,201</b>	<b>19,221,796</b>	<b>21,147,714</b>	<b>23,187,778</b>	<b>25,255,003</b>
Instruction .....	3,578,958	4,168,472	5,177,984	5,883,343	6,614,419	7,211,757	7,843,917	8,489,773	9,151,318
Research .....	1,132,923	1,336,352	1,690,518	1,844,369	1,924,939	2,010,333	2,164,003	2,432,701	2,732,222
Public service .....	202,891	234,208	303,178	338,845	391,578	418,937	450,171	544,825	603,799
Academic support .....	707,297	870,781	1,090,652	1,244,002	1,358,133	1,538,828	1,721,580	1,806,555	1,973,849
Libraries .....	399,052	447,498	509,364	572,667	634,604	701,645	767,549	804,304	866,279
Student services .....	509,536	636,448	311,975	956,432	1,091,201	1,208,394	1,337,731	1,483,893	1,641,180
Institutional support .....	1,250,667	1,517,081	1,918,915	2,209,321	2,513,757	2,765,765	3,083,501	3,395,523	3,683,642
Operation and maintenance of plant .....	924,609	1,130,550	1,432,662	1,668,389	1,875,032	2,001,176	2,152,123	2,304,412	2,427,972
Scholarships and fellowships .....	837,343	998,632	1,230,106	1,439,661	1,596,228	1,734,514	2,025,028	2,295,551	2,584,266
From unrestricted funds .....	410,269	512,537	580,852	713,138	861,449	1,018,470	1,118,562	1,392,539	1,588,143
From restricted funds <sup>1</sup> .....	427,074	486,095	849,454	726,523	734,779	716,044	805,466	903,012	996,123
Mandatory transfers .....	171,480	195,192	258,900	314,429	312,914	332,093	368,659	424,344	456,754
<b>Auxiliary enterprises</b> .....	<b>1,648,725</b>	<b>1,917,409</b>	<b>2,353,844</b>	<b>2,629,948</b>	<b>2,927,684</b>	<b>3,140,975</b>	<b>3,348,327</b>	<b>3,580,671</b>	<b>3,696,067</b>
Mandatory transfers .....	151,246	136,863	153,906	164,335	174,295	187,644	208,110	209,760	206,394
<b>Hospitals</b> .....	<b>1,085,890</b>	<b>1,410,333</b>	<b>1,809,647</b>	<b>2,055,139</b>	<b>2,332,070</b>	<b>2,670,826</b>	<b>2,876,161</b>	<b>3,095,581</b>	<b>3,333,414</b>
Mandatory transfers .....	11,715	17,026	24,878	31,349	34,368	43,732	51,444	61,819	53,284
<b>Independent operations (FFRDC)<sup>2</sup></b> .....	<b>668,922</b>	<b>810,235</b>	<b>1,067,000</b>	<b>1,187,253</b>	<b>1,182,359</b>	<b>1,329,234</b>	<b>1,534,513</b>	<b>1,772,683</b>	<b>2,055,405</b>
Mandatory transfers .....	1,879	3,897	404	321	403	731	1,454	1,449	2,586
Percentage distribution									
<b>Total current-fund expenditures</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Educational and general expenditures</b>	<b>73.2</b>	<b>72.9</b>	<b>72.7</b>	<b>73.0</b>	<b>73.5</b>	<b>72.9</b>	<b>73.2</b>	<b>73.3</b>	<b>73.5</b>
Instruction .....	28.1	5.1	27.0	27.0	27.4	27.4	27.1	26.8	26.6
Research .....	8.9	8.8	8.8	8.5	8.0	7.6	7.5	7.7	8.0
Public service .....	1.6	1.6	1.6	1.8	1.6	1.6	1.6	1.7	1.8
Academic support .....	5.8	5.7	5.7	5.7	5.6	5.8	6.0	5.7	5.7
Libraries .....	3.1	2.9	2.7	2.6	2.6	2.7	2.7	2.5	2.5
Student services .....	4.0	4.2	4.2	4.4	4.5	4.6	4.6	4.7	4.8
Institutional support .....	9.8	10.0	10.0	10.1	10.4	10.5	10.7	10.7	10.7
Operation and maintenance of plant .....	7.3	7.4	7.5	7.7	7.8	7.6	7.4	7.3	7.1
Scholarships and fellowships .....	6.6	6.6	6.4	6.6	6.6	6.6	7.0	7.3	7.5
From unrestricted funds .....	3.2	3.4	3.0	3.3	3.6	3.9	4.2	4.4	4.6
From restricted funds <sup>1</sup> .....	3.4	3.2	3.4	3.3	3.0	2.7	2.8	2.9	2.9
Mandatory transfers .....	1.3	1.3	1.4	1.4	1.3	1.3	1.3	1.3	1.3
<b>Auxiliary enterprises</b> .....	<b>13.0</b>	<b>12.6</b>	<b>12.3</b>	<b>12.1</b>	<b>12.1</b>	<b>11.9</b>	<b>11.6</b>	<b>11.3</b>	<b>10.8</b>
Mandatory transfers .....	1.2	0.9	0.8	0.8	0.7	0.7	0.7	0.7	0.6
<b>Hospitals</b> .....	<b>8.5</b>	<b>9.3</b>	<b>9.5</b>	<b>9.4</b>	<b>9.7</b>	<b>10.1</b>	<b>9.9</b>	<b>9.8</b>	<b>9.7</b>
Mandatory transfers .....	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
<b>Independent operations (FFRDC)<sup>2</sup></b> .....	<b>5.3</b>	<b>5.3</b>	<b>5.6</b>	<b>5.5</b>	<b>4.9</b>	<b>5.0</b>	<b>5.3</b>	<b>5.6</b>	<b>6.0</b>
Mandatory transfers .....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup> Excludes Pell Grants

<sup>2</sup> Generally includes only those expenditures associated with major federally funded research and development centers (FFRDC)

<sup>3</sup> Less than 0.05 percent.

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)



Table 281.—Expenditures of institutions of higher education: 1929-30 to 1973-74<sup>1</sup>

[In thousands]

Item	1929-30	1939-40	1949-50	1959-60	1969-70	1971-72	1973-74
1	2	3	4	5	6	7	8
<b>Current-fund expenditures</b> . . . . .	<b>\$507,142</b>	<b>\$674,688</b>	<b>\$2,245,661</b>	<b>\$5,601,376</b>	<b>\$21,043,112</b>	<b>\$25,559,560</b>	<b>\$30,713,581</b>
Educational and general . . . . .	377,903	521,990	1,706,444	4,513,208	15,788,699	19,200,505	23,257,361
General administration and general expense . . . . .	42,633	62,827	213,070	583,224	2,627,993	3,344,215	4,200,955
Instruction and departmental research . . . . .	221,598	280,248	780,994	1,793,320	<sup>2</sup> 7,653,097	<sup>2</sup> 9,503,250	<sup>2</sup> 11,574,145
Extension and public services . . . . .	24,982	35,325	86,674	205,595	521,148	615,997	730,560
Libraries . . . . .	9,654	19,487	56,147	135,384	652,596	764,481	939,023
Plant operation and maintenance . . . . .	60,919	69,612	225,110	469,943	1,541,698	1,927,553	2,494,057
Separately organized research . . . . .	18,117	27,268	225,341	1,022,353	2,144,076	2,265,282	2,480,451
Related activities . . . . .	<sup>(3)</sup>	27,225	119,108	294,255	<sup>4</sup> 8,089	779,728	838,170
Other educational and general . . . . .	<sup>(3)</sup>	<sup>(3)</sup>	<sup>(3)</sup>	<sup>4</sup> 9,134	<sup>(3)</sup>	<sup>(3)</sup>	<sup>(3)</sup>
Auxiliary enterprises . . . . .	<sup>(5)</sup>	124,184	476,401	916,117	2,769,276	3,178,272	3,613,258
Student-aid expenditures . . . . .	<sup>(5)</sup>	<sup>(5)</sup>	<sup>(5)</sup>	172,050	984,594	1,241,372	1,396,488
Other current expenditures . . . . .	129,239	28,514	62,816	—	<sup>6</sup> 1,500,544	<sup>6</sup> 1,939,411	<sup>6</sup> 2,446,476
Gross additions to plant value <sup>7</sup> . . . . .	125,106	<sup>7</sup> 1,765	416,831	1,314,717	4,232,526	4,162,626	4,312,142

<sup>1</sup> Refer to the preceding table for revised format for educational and general items. Includes scholarships and fellowships under educational and general. Student-aid item previously reported has been dropped.

<sup>2</sup> Includes "other sponsored programs."

<sup>3</sup> Data not collected separately.

<sup>4</sup> Sales and services expenditures.

<sup>5</sup> Data not tabulated separately.

<sup>6</sup> "Major public service programs" previously reported in "separately organized research," "extension and public services," and "related activities."

<sup>7</sup> Includes expenditures from plant and current funds, gifts and grants of plant assets, and increases in value due to reappraisal and other adjustments.

—Data not available

NOTE—Beginning in 1959-60, data are for 50 States and the District of Columbia; data for earlier years are for 48 States and the District of Columbia. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared January 1986).

**Table 282.—Educational and general expenditures of public universities, by purpose: 1976-77 to 1985-86**

Year	Educational and general expenditures									
	Total	Instruction	Admin- tration <sup>1</sup>	Student services	Research	Libraries	Public service	Operation and main- tenance of plant	Scholar- ships and fellowships	Mandatory transfers
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77	\$9,413,626	\$3,670,554	\$1,222,410	\$346,906	\$1,727,807	\$331,614	\$763,809	\$857,677	\$377,749	\$115,099
1977-78	10,220,191	4,009,870	1,344,538	388,262	1,896,578	343,198	803,309	938,952	389,682	105,803
1978-79	11,284,191	4,408,025	1,478,568	419,231	2,136,135	363,875	920,726	1,046,740	396,356	114,533
1979-80	12,540,072	4,860,411	1,572,523	473,460	2,444,471	463,642	1,012,376	1,148,942	439,461	124,786
1980-81	13,951,029	5,374,271	1,795,504	525,891	2,743,145	451,978	1,158,512	1,270,339	492,225	139,164
1981-82	15,077,263	5,852,958	1,974,219	566,366	2,903,178	488,939	1,223,417	1,412,557	525,498	130,131
1982-83	16,089,168	6,247,358	2,107,933	604,657	3,086,346	528,470	1,300,353	1,512,947	562,903	137,702
1983-84	17,234,711	6,646,501	2,263,565	643,614	3,295,053	577,136	1,385,191	1,627,702	624,642	171,306
1984-85	18,960,810	7,257,618	2,598,784	701,451	3,682,755	609,365	1,519,324	1,745,825	677,533	168,155
1985-86	20,716,657	7,807,522	2,882,006	762,324	4,076,258	669,253	1,664,917	1,831,618	780,080	242,679
Percentage distribution										
1976-77	100.0	39.0	13.0	3.7	18.4	3.5	8.1	9.1	4.0	1.2
1977-78	100.0	39.2	13.2	3.8	18.6	3.4	7.9	9.2	3.8	1.0
1978-79	100.0	39.1	13.1	3.7	18.9	3.2	8.2	9.3	3.5	1.0
1979-80	100.0	38.8	12.5	3.8	19.5	3.7	8.1	9.2	3.5	1.0
1980-81	100.0	38.5	12.9	3.8	19.7	3.2	8.3	9.1	3.5	1.0
1981-82	100.0	38.8	13.1	3.8	19.3	3.2	8.1	9.4	3.5	0.9
1982-83	100.0	38.8	13.1	3.8	19.2	3.3	8.1	9.4	3.5	0.9
1983-84	100.0	38.6	13.1	3.7	19.1	3.2	8.0	9.4	3.6	1.0
1984-85	100.0	38.0	13.7	3.7	19.4	3.2	8.0	9.2	3.6	0.9
1985-86	100.0	37.7	13.9	3.7	19.7	3.2	8.0	8.8	3.8	1.2
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77	\$10,503	\$4,017	\$1,338	\$380	\$1,891	\$363	\$836	\$939	\$413	\$128
1977-78	10,409	4,084	1,369	395	1,932	350	818	956	397	108
1978-79	10,743	4,197	1,408	399	2,034	346	877	997	377	109
1979-80	10,639	4,124	1,334	402	2,074	393	859	975	373	106
1980-81	10,467	4,032	1,347	395	2,058	339	869	953	369	104
1981-82	10,262	3,984	1,344	385	1,976	333	833	961	358	89
1982-83	10,255	3,982	1,344	385	1,967	337	829	964	359	88
1983-84	10,446	4,028	1,372	390	1,997	350	840	987	379	104
1984-85	10,635	4,147	1,485	401	2,104	348	868	998	387	96
1985-86	11,320	4,266	1,575	417	2,227	366	910	1,001	426	133

<sup>1</sup> Includes instruction and academic support less libraries.

Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

NOTE: Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared October 1987).

Table 283.—Educational and general expenditures of public 4-year colleges,<sup>1</sup> by purpose: 1976-77 to 1985-86

Year	Educational and general expenditures									
	Total	Instruction	Adminis- tration <sup>2</sup>	Student services	Research	Libraries	Public service	Operation and main- tenance of plant	Scholar- ships and fellowships	Mandatory transfers
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77 ...	\$8,682,531	\$4,027,051	\$1,445,651	\$570,832	\$607,235	\$340,002	\$250,152	\$1,001,848	\$338,432	\$171,335
1977-78 ...	9,568,977	4,423,487	1,598,092	572,193	677,414	369,408	274,314	1,118,314	332,899	202,777
1978-79 ...	10,455,134	4,770,598	1,789,534	651,541	786,072	395,299	301,387	1,214,996	337,588	208,119
1979-80 ...	11,750,398	5,271,621	2,029,327	733,557	937,874	448,190	359,467	1,375,308	383,036	212,019
1980-81 ...	13,139,618	5,890,759	2,258,987	807,249	1,043,614	511,817	407,816	1,503,514	412,972	242,890
1981-82 ...	14,321,586	6,537,888	2,518,182	934,225	1,086,146	536,080	440,736	1,738,210	403,069	227,050
1982-83 ...	15,286,145	6,980,269	2,660,360	1,047,745	1,150,011	559,353	469,841	1,857,151	450,067	254,349
1983-84 ...	16,538,128	7,464,035	3,013,666	1,041,488	1,246,289	622,879	513,732	1,873,628	473,503	288,908
1984-85 ...	18,333,378	8,211,171	3,370,676	1,140,312	1,420,844	669,518	603,018	2,137,225	489,188	291,626
1985-86 ...	19,860,947	8,945,373	3,658,627	1,233,416	1,618,737	712,112	648,176	2,118,522	569,841	354,139
Percentage distribution										
1976-77 ...	100.0	46.4	16.7	5.8	7.0	3.9	2.9	11.5	3.9	2.0
1977-78 ...	100.0	46.2	16.7	6.0	7.1	3.9	2.9	11.7	3.5	2.1
1978-79 ...	100.0	45.6	17.1	6.2	7.5	3.8	2.9	11.6	3.2	2.0
1979-80 ...	100.0	44.9	17.3	6.2	8.0	3.8	3.1	11.7	3.3	1.8
1980-81 ...	100.0	44.8	17.2	6.1	7.9	3.9	3.1	11.9	3.1	1.8
1981-82 ...	100.0	45.7	17.6	5.8	7.6	3.7	3.1	12.1	2.8	1.6
1982-83 ...	100.0	45.7	17.4	5.9	7.5	3.7	3.1	12.1	2.9	1.7
1983-84 ...	100.0	45.1	18.2	6.3	7.5	3.8	3.1	11.3	2.9	1.7
1984-85 ...	100.0	44.8	18.4	6.2	7.7	3.7	3.3	11.7	2.7	1.6
1985-86 ...	100.0	45.0	18.4	6.2	8.2	3.6	3.3	10.7	2.9	1.8
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77 ...	\$7,513	\$3,484	\$1,251	\$433	\$525	\$294	\$216	\$867	\$293	\$140
1977-78 ...	7,588	3,508	1,267	454	537	293	218	887	264	161
1978-79 ...	7,798	3,558	1,335	486	586	295	225	906	252	155
1979-80 ...	7,893	3,541	1,363	493	630	301	241	924	257	142
1980-81 ...	7,809	3,501	1,342	480	620	304	242	929	245	144
1981-82 ...	7,727	3,528	1,359	450	586	289	238	938	217	123
1982-83 ...	7,552	3,448	1,314	447	568	276	232	917	222	126
1983-84 ...	7,589	3,425	1,383	478	572	286	256	860	217	133
1984-85 ...	7,936	3,554	1,459	494	615	290	261	925	212	126
1985-86 ...	8,243	3,713	1,518	513	672	296	269	879	237	147

<sup>1</sup> Excludes universities. See preceding table.<sup>2</sup> Includes institutional and academic support less libraries.

Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

NOTE—Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys. (This table was prepared October 1987.)

Table 284.—Educational and general expenditures of public 2-year colleges, by purpose: 1976-77 to 1985-86

Year	Educational and general expenditures									
	Total	Instruction	Adminis- tration <sup>1</sup>	Student services	Research	Libranes	Public service	Operation and mainte- nance of plant	Scholar- ships and fellowships	Mandatory transfers
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77.....	\$4,875,998	\$2,490,274	\$882,813	\$409,217	\$15,698	\$171,409	\$97,635	\$547,515	\$142,827	\$118,610
1977-78.....	5,336,153	2,700,489	1,035,206	437,060	9,333	188,201	112,944	605,464	117,996	129,458
1978-79.....	5,734,611	2,877,651	1,119,840	482,323	21,289	193,703	110,918	650,447	127,633	150,807
1979-80.....	6,334,777	3,185,815	1,204,082	547,457	26,388	202,583	141,000	743,014	147,865	136,672
1980-81.....	7,063,474	3,575,743	1,347,020	615,869	26,591	222,391	152,597	844,781	159,474	119,008
1981-82.....	7,757,435	3,947,065	1,473,733	684,650	15,632	262,697	147,385	952,691	160,109	113,473
1982-83.....	8,292,446	4,218,388	1,620,644	741,179	18,090	248,882	123,722	1,016,267	175,069	130,403
1983-84.....	8,820,575	4,481,854	1,748,535	775,084	18,189	263,485	150,109	1,076,371	178,500	128,448
1984-85.....	9,560,507	4,806,050	1,929,968	841,101	15,591	278,363	193,903	1,156,074	207,975	131,482
1985-86.....	10,252,955	5,116,684	2,122,060	920,299	10,136	295,691	202,440	1,220,646	225,979	138,820
Percentage distribution										
1976-77.....	100.0	51.1	18.1	8.4	0.3	3.5	2.0	11.2	2.9	2.4
1977-78.....	100.0	50.6	19.4	8.2	0.2	3.5	2.1	11.3	2.2	2.4
1978-79.....	100.0	50.2	19.5	8.4	0.4	3.4	1.9	11.3	2.2	2.6
1979-80.....	100.0	50.3	19.0	8.6	0.4	3.2	2.2	11.7	2.3	2.2
1980-81.....	100.0	50.6	19.1	8.7	0.4	3.1	2.2	12.0	2.3	1.7
1981-82.....	100.0	50.9	19.0	8.8	0.2	3.4	1.9	12.3	2.1	1.5
1982-83.....	100.0	50.9	19.5	8.9	0.2	3.0	1.5	12.3	2.1	1.6
1983-84.....	100.0	50.6	19.8	8.8	0.2	3.0	1.7	12.2	2.0	1.5
1984-85.....	100.0	50.3	20.2	8.8	0.2	2.9	2.0	12.1	2.2	1.4
1985-86.....	100.0	49.9	20.7	9.0	0.1	2.9	2.0	11.9	2.2	1.4
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77.....	\$4,049	\$2,068	\$733	\$340	\$13	\$142	\$81	\$455	\$119	\$98
1977-78.....	4,076	2,063	791	334	7	144	86	463	90	99
1978-79.....	4,198	2,107	820	353	16	142	81	476	93	110
1979-80.....	4,132	2,078	785	357	17	132	92	485	96	89
1980-81.....	3,957	2,003	755	345	15	125	85	473	89	67
1981-82.....	3,931	2,000	747	347	8	133	75	483	81	58
1982-83.....	3,725	1,895	728	333	8		56	456	79	59
1983-84.....	3,757	1,909	745	330	8		64	458	76	55
1984-85.....	4,078	2,050	823	359	7	119	83	493	89	56
1985-86.....	4,223	2,107	874	379	4	122	83	503	93	57

<sup>1</sup> Includes institutional and academic support less libraries

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (this table was prepared October 1987).

NOTE—Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

**Table 285.—Educational and general expenditures of private (nonprofit) universities, by purpose: 1976-77 to 1985-86**

Year	Educational and general expenditures									
	Total	Instruction	Adminis- tration <sup>1</sup>	Student services	Research	Libraries	Public service	Operation and mainte- nance of plant	Scholar- ships and fellowships	Mandatory transfer
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77	\$4,694,593	\$1,784,975	\$621,733	\$156,457	\$988,656	\$195,146	\$105,011	\$411,340	\$380,821	\$50,453
1977-78	5,120,125	1,943,031	683,988	172,261	1,063,906	215,068	108,201	447,743	427,907	58,019
1978-79	5,675,608	2,120,800	796,751	195,238	1,175,657	221,676	119,082	510,819	480,200	75,385
1979-80	6,408,288	2,426,312	908,580	215,646	1,315,469	236,184	148,028	568,806	507,257	82,006
1980-81	7,249,102	2,763,320	1,008,957	254,872	1,433,318	267,142	149,946	660,152	596,241	111,154
1981-82	7,951,934	3,105,731	1,100,088	289,398	1,505,340	294,523	160,496	752,673	650,285	93,401
1982-83	8,198,167	3,227,925	1,214,617	304,617	1,464,809	295,709	169,382	754,480	670,390	96,238
1983-84	9,491,967	3,660,650	1,445,910	350,096	1,683,020	360,238	187,615	859,065	633,108	112,266
1984-85	10,431,950	3,965,165	1,556,854	393,526	1,892,570	366,356	253,010	930,229	931,027	143,212
1985-86	11,407,571	4,308,432	1,711,155	438,678	2,108,731	397,745	271,271	981,131	1,040,677	149,751
Percentage distribution										
1976-77	100.0	38.0	13.2	3.3	21.1	4.2	2.2	8.8	8.1	1.1
1977-78	100.0	37.9	13.4	3.4	20.8	4.2	2.1	8.7	8.4	1.1
1978-79	100.0	37.4	14.0	3.4	20.7	3.9	2.1	9.0	8.1	1.3
1979-80	100.0	37.9	14.2	3.4	20.5	3.7	2.3	8.9	7.9	1.3
1980-81	100.0	38.1	13.9	3.5	19.8	3.7	2.1	9.1	8.2	1.5
1981-82	100.0	39.1	13.8	3.6	18.9	3.7	2.0	9.5	8.2	1.2
1982-83	100.0	39.4	14.8	3.7	17.9	3.6	2.1	9.2	8.2	1.2
1983-84	100.0	38.6	15.2	3.7	17.0	3.8	2.0	9.1	8.6	1.2
1984-85	100.0	38.0	14.9	3.8	18.1	3.5	2.4	8.9	8.9	1.4
1985-86	100.0	37.8	15.0	3.8	18.5	3.5	2.4	8.6	9.1	1.3
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77	\$15,949	\$6,064	\$2,112	\$532	\$3,359	\$663	\$357	\$1,397	\$1,294	\$171
1977-78	15,783	5,990	2,108	531	3,280	663	334	1,380	1,319	179
1978-79	15,917	5,948	2,234	548	3,297	622	334	1,433	1,291	211
1979-80	16,183	6,120	2,292	544	3,318	596	373	1,435	1,279	207
1980-81	16,349	6,232	2,278	575	3,239	602	338	1,489	1,345	251
1981-82	16,196	6,326	2,241	589	3,066	600	327	1,533	1,324	190
1982-83	16,352	6,438	2,423	608	2,922	590	338	1,505	1,337	192
1983-84	17,455	6,731	2,659	644	3,095	662	345	1,580	1,532	206
1984-85	17,994	6,840	2,685	679	3,264	632	436	1,605	1,606	247
1985-86	18,779	7,093	2,817	722	3,471	655	447	1,615	1,713	247

<sup>1</sup> Includes institutional and academic support less libraries

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared October 1987.)

NOTE.—Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

**Table 286.—Educational and general expenditures of private (nonprofit) 4-year colleges,<sup>1</sup> by purpose: 1976-77 to 1985-86**

Year	Educational and general expenditures									
	Total	Instruction	Admini- stration <sup>2</sup>	Student services	Research	Libraries	Public service	Operation and main- tenance of plant	Scholar- ships and fellowships	Mandatory transfers
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77	\$5,139,939	\$1,919,574	\$1,047,932	\$381,428	\$259,530	\$200,844	\$123,717	\$574,910	\$511,907	\$127,097
1977-78	5,637,838	2,114,043	1,160,141	428,285	271,637	221,807	123,214	638,330	550,372	130,026
1978-79	8,263,692	2,328,418	1,299,063	483,031	28,042	240,098	138,861	704,180	598,487	145,513
1979-80	7,083,95C	2,589,908	1,466,558	549,839	374,520	259,969	153,056	807,943	694,791	187,570
1980-81	8,061,774	2,907,255	1,703,307	839,795	407,622	289,944	186,399	930,075	811,836	185,741
1981-82	9,061,667	3,271,255	1,938,727	727,382	419,283	322,702	228,368	1,036,118	913,999	203,834
1982-83	9,805,459	3,552,387	2,124,446	804,943	437,286	358,788	236,142	1,062,836	983,887	216,764
1983-84	10,845,622	3,900,082	2,347,962	890,707	480,459	388,153	259,932	1,184,788	1,149,813	243,726
1984-85	11,835,351	4,213,485	2,564,844	980,418	539,322	418,539	289,124	1,251,490	1,312,673	267,459
1985-86	12,855,040	4,507,505	2,790,504	1,067,717	823,050	446,766	328,827	1,317,062	1,481,954	291,654
Percentage distribution										
1976-77	100.0	37.3	20.4	7.4	5.0	3.9	2.4	11.2	10.0	2.3
1977-78	100.0	37.5	20.8	7.8	4.8	3.9	2.2	11.3	9.8	2.3
1978-79	100.0	37.2	20.7	7.7	5.2	3.8	2.2	11.2	9.8	2.3
1979-80	100.0	36.7	20.8	7.8	5.3	3.7	2.2	11.4	9.8	2.4
1980-81	100.0	38.1	21.1	7.9	5.1	3.6	2.3	11.5	10.1	2.3
1981-82	100.0	36.1	21.4	8.0	4.6	3.8	2.5	11.4	10.1	2.2
1982-83	100.0	36.2	21.7	8.2	4.5	3.8	2.4	11.1	10.0	2.2
1983-84	100.0	36.0	21.8	8.2	4.4	3.6	2.4	10.9	10.8	2.2
1984-85	100.0	35.8	21.7	8.3	4.8	3.5	2.4	10.8	11.1	2.3
1985-86	100.0	35.1	21.7	8.3	4.8	3.5	2.8	10.2	11.5	2.3
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77	\$7,863	\$2,936	\$1,603	\$583	\$397	\$307	\$189	\$879	\$783	\$184
1977-78	7,838	2,939	1,813	595	378	308	171	887	785	181
1978-79	7,902	2,938	1,639	609	414	303	173	888	755	184
1979-80	8,045	2,950	1,870	626	427	296	174	920	791	191
1980-81	8,077	2,913	1,706	641	408	290	187	932	813	186
1981-82	8,135	2,937	1,740	653	378	290	205	930	821	173
1982-83	8,318	3,013	1,802	683	371	303	200	927	835	184
1983-84	8,551	3,075	1,851	702	379	306	205	934	907	192
1984-85	8,777	3,125	1,902	727	400	309	214	928	973	198
1985-86	9,130	3,201	1,982	756	443	317	234	935	1,053	207

<sup>1</sup> Excludes universities. See preceding table.  
<sup>2</sup> Includes institutional and academic support less libraries.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared October 1987).

NOTE—Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

**Table 287.—Educational and general expenditures of private (nonprofit) 2-year colleges, by purpose: 1976-77 to 1985-86**

Year	Educational and general expenditures									
	Total	Instruction	Adminis- tration <sup>1</sup>	Student services	Research	Libraries	Public service	Operation and mainte- nance of plant	Scholar- ships and fellowships	Mandatory transfers
1	2	3	4	5	6	7	8	9	10	11
Expenditures, in thousands of current dollars										
1976-77	\$234,112	\$82,723	\$59,152	\$22,900	\$1,022	\$7,903	\$2,890	\$32,431	\$17,912	\$7,179
1977-78	246,542	86,456	64,390	25,406	266	8,478	2,698	33,606	18,598	6,644
1978-79	269,169	94,875	69,071	29,419	564	8,640	2,766	34,741	21,000	8,092
1979-80	293,743	102,298	77,312	31,182	425	9,237	2,284	37,617	24,644	8,742
1980-81	333,257	114,350	87,803	34,926	211	9,535	2,080	43,936	28,395	12,022
1981-82	365,142	127,315	100,413	39,120	239	10,244	2,030	46,839	28,170	10,973
1982-83	389,876	134,950	103,697	40,934	403	10,566	1,961	50,748	33,128	13,489
1983-84	411,779	138,487	111,931	44,410	102	11,085	2,103	55,014	37,576	11,070
1984-85	447,163	150,202	119,191	52,937	350	12,123	2,054	58,602	41,335	10,370
1985-86	467,445	158,873	124,941	56,471	70	12,413	1,936	60,189	43,167	9,385
Percentage distribution										
1976-77	100.0	35.3	25.3	9.8	0.4	3.4	1.2	13.9	7.7	3.1
1977-78	100.0	35.1	26.1	10.3	0.1	3.4	1.1	13.6	7.5	2.7
1978-79	100.0	35.2	25.7	10.9	0.2	3.2	1.0	12.9	7.8	3.0
1979-80	100.0	34.8	26.3	10.6	0.1	3.1	0.8	12.8	8.4	3.0
1980-81	100.0	34.3	26.3	10.5	0.1	2.9	0.6	13.2	8.5	3.6
1981-82	100.0	34.9	27.5	10.7	0.1	2.8	0.6	12.8	7.7	3.0
1982-83	100.0	34.6	26.6	10.5	0.1	2.7	0.5	13.0	8.5	3.5
1983-84	100.0	33.6	27.2	10.8	0.0	2.7	0.5	13.4	9.1	2.7
1984-85	100.0	33.6	26.7	11.8	0.1	2.7	0.5	13.1	9.2	2.3
1985-86	100.0	34.0	26.7	12.1	0.0	2.7	0.4	12.9	9.2	2.0
Expenditure per full-time-equivalent student in constant 1985-86 dollars										
1976-77	\$4,983	\$1,754	\$1,254	\$485	\$22	\$168	\$61	\$687	\$380	\$152
1977-78	4,684	1,646	1,226	484	5	161	51	640	354	126
1978-79	4,876	1,719	1,251	533	10	157	50	629	390	147
1979-80	4,835	1,684	1,273	513	7	152	38	619	406	144
1980-81	4,827	1,656	1,272	506	3	138	30	636	411	174
1981-82	4,650	1,621	1,279	498	3	130	26	594	359	140
1982-83	4,830	1,672	1,285	507	5	131	24	629	410	167
1983-84	4,784	1,612	1,303	517	1	129	24	640	437	129
1984-85	5,200	1,747	1,386	616	4	141	24	681	481	121
1985-86	5,272	1,792	1,409	637	1	140	22	679	487	106

<sup>1</sup> Includes institutional and academic support less libraries

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared October 1987)

NOTE.—Data in this table may differ slightly from data appearing in other tables. This table includes only institutions which provided enrollment and finance data. The Higher Education Price Index was used to convert the per student figures to constant dollars. Because of rounding, details may not add to totals.

**Table 288.—Current-fund expenditures of institutions of higher education, by control of institution and State: 1984-85 and 1985-86**

[Amounts in thousands]

State or other area	1984-85			1985-86			Percent change, 1984-85 to 1985-86		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
1	2	3	4	5	6	7	8	9	10
<b>United States</b>	<b>\$89,951,283</b>	<b>\$58,314,550</b>	<b>\$31,636,713</b>	<b>\$97,535,742</b>	<b>\$63,193,853</b>	<b>\$34,341,889</b>	<b>8.4</b>	<b>8.4</b>	<b>6.8</b>
Alabama	1,372,650	1,191,478	181,172	1,511,370	1,324,774	186,596	10.1	11.2	3.0
Alaska	245,274	235,158	10,106	234,213	224,342	10,171	-4.5	-4.7	0.6
Arizona	984,024	934,587	49,437	1,070,090	1,017,203	52,887	8.7	8.8	7.0
Arkansas	553,939	485,363	68,576	801,151	528,831	272,321	8.5	9.0	5.5
California	10,956,679	7,705,638	3,251,041	12,157,070	6,515,440	5,641,630	11.0	10.5	12.0
Colorado	1,154,790	993,440	161,350	1,217,751	1,057,558	160,193	5.5	6.5	-0.7
Connecticut	1,294,289	522,006	772,282	1,399,848	582,896	836,949	8.1	7.8	8.4
Delaware	222,216	207,584	14,632	245,232	229,377	15,855	10.4	10.5	8.4
District of Columbia	1,304,544	90,520	1,214,024	1,395,839	88,462	1,307,377	7.0	-2.3	7.7
Florida	2,317,112	1,650,338	666,774	2,505,450	1,782,180	723,270	8.1	8.0	8.5
Georgia	1,767,609	1,142,836	624,773	1,952,698	1,255,964	696,734	10.5	9.9	11.5
Hawaii	305,060	288,217	16,843	333,212	312,246	20,964	9.2	8.3	24.5
Idaho	275,926	228,142	49,784	288,206	238,438	49,768	4.5	5.4	0.0
Illinois	4,889,280	2,320,251	2,569,030	5,293,702	2,571,409	2,722,294	8.3	10.8	6.0
Indiana	1,965,605	1,472,807	492,798	2,132,366	1,802,203	330,163	8.5	6.8	7.6
Iowa	1,358,002	1,027,080	330,922	1,462,295	1,022,542	353,753	6.5	6.4	6.9
Kansas	894,429	784,586	99,841	953,796	846,002	105,193	6.8	6.6	5.4
Kentucky	1,020,785	845,505	175,280	1,093,591	898,718	194,873	7.1	6.3	11.2
Louisiana	1,325,157	1,000,470	324,687	1,392,610	1,039,177	353,433	5.1	3.9	8.9
Maine	333,081	210,749	122,332	350,515	216,737	133,778	5.2	2.8	9.4
Maryland	1,816,960	1,021,140	795,820	1,966,378	1,064,430	901,948	8.2	4.2	13.3
Massachusetts	4,101,519	878,644	3,222,875	4,525,452	980,585	3,544,867	10.3	11.6	10.0
Michigan	3,134,480	2,706,362	428,118	3,393,772	2,948,336	447,436	8.3	6.9	4.5
Minnesota	1,702,952	1,220,404	482,548	1,846,133	1,324,691	521,441	8.4	8.5	8.1
Mississippi	723,918	660,816	63,102	770,434	706,380	64,054	6.4	6.9	1.5
Missouri	1,733,493	809,740	833,723	1,911,820	999,669	911,951	10.3	11.1	9.4
Montana	224,000	185,586	21,369	204,451	182,102	22,349	-1.2	-1.9	4.6
Nebraska	658,049	506,752	151,296	698,923	537,258	161,068	6.2	6.1	6.5
Nevada	157,830	156,584	1,246	162,555	160,107	2,448	15.7	15.0	96.4
New Hampshire	409,905	168,453	241,452	448,399	163,959	284,440	9.4	3.2	9.5
New Jersey	1,966,683	1,265,926	700,757	2,121,223	1,406,490	714,733	6.8	9.4	2.0
New Mexico	438,659	422,740	15,920	473,100	458,600	16,500	7.9	8.0	3.6
New York	6,764,271	3,636,384	5,127,887	9,396,762	3,802,802	5,594,159	7.2	4.6	9.1
North Carolina	2,411,509	1,633,304	778,205	2,636,465	1,799,173	837,291	9.3	10.2	7.6
North Dakota	282,417	263,909	18,509	307,067	288,214	18,853	8.7	9.2	1.9
Ohio	3,461,909	2,536,913	924,996	3,699,210	2,718,408	980,801	6.9	7.2	6.0
Oklahoma	936,861	765,599	171,261	1,023,733	844,629	178,905	9.3	10.3	4.5
Oregon	992,996	832,296	160,702	1,052,299	680,696	371,604	6.0	5.6	6.8
Pennsylvania	5,047,119	2,159,745	2,887,374	5,581,384	2,392,145	3,189,219	10.2	10.6	9.6
Rhode Island	485,248	197,649	287,400	528,903	213,253	315,651	9.0	7.8	9.8
South Carolina	1,040,222	653,452	186,770	1,146,119	951,848	196,271	10.4	11.5	5.1
South Dakota	188,929	140,885	48,044	200,767	149,092	51,675	6.3	5.8	7.6
Tennessee	1,589,299	958,812	630,687	1,766,000	1,081,052	684,948	11.1	12.8	8.6
Texas	5,023,438	4,067,570	935,868	5,368,906	4,375,082	993,824	6.9	7.0	6.2
Utah	783,322	595,755	187,567	864,363	669,714	194,649	10.3	12.4	3.8
Vermont	312,777	174,051	138,726	338,801	188,112	150,689	8.3	8.1	8.6
Virginia	2,029,037	1,681,173	347,864	2,212,611	1,825,156	387,455	9.0	6.6	11.4
Washington	1,552,515	1,331,849	220,666	1,626,991	1,399,780	227,211	4.6	5.1	3.0
West Virginia	430,035	157,335	272,700	450,009	376,293	73,716	4.6	5.3	1.4
Wisconsin	1,983,306	1,405,692	357,616	2,127,928	1,754,395	373,533	8.4	9.3	4.5
Wyoming	186,652	186,652	—	203,307	203,307	—	8.9	8.9	—
<b>U.S. Service Schools</b>	<b>857,612</b>	<b>857,612</b>	<b>—</b>	<b>904,695</b>	<b>904,695</b>	<b>—</b>	<b>5.5</b>	<b>5.5</b>	<b>—</b>
<b>Outlying areas</b>	<b>606,806</b>	<b>418,141</b>	<b>188,667</b>	<b>650,003</b>	<b>451,370</b>	<b>198,653</b>	<b>7.1</b>	<b>7.9</b>	<b>5.3</b>
American Samoa	1,092	1,092	—	1,092	1,092	—	( <sup>1</sup> )	( <sup>1</sup> )	—
Guam	25,576	25,576	—	31,300	31,310	—	22.4	22.4	—
Northern Marianas	1,293	1,293	—	1,350	1,350	—	4.4	4.4	—
Puerto Rico	557,203	368,536	188,667	592,699	394,046	198,653	6.4	6.9	5.3
Trust Territory of the Pacific	5,525	5,525	—	5,992	5,992	—	6.5	6.5	—
Virgin Islands	16,120	16,120	—	17,580	17,580	—	9.1	9.1	—

<sup>1</sup> Less than .05 percent

—Data not available or not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987.)

NOTE—Because of rounding, details may not add to totals



**Table 269.—Current-fund expenditures per full-time-equivalent student in institutions of higher education, by control and type of institution and purpose of expenditure: 1985-86**

Item	Total				Public				Private			
	All institutions	Universities	Other 4-year	2-year	All institutions	Universities	Other 4-year	2-year	All institutions	Universities	Other 4-year	2-year
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total current-fund expenditures</b> <sup>1</sup>	<b>\$10,918</b>	<b>\$17,513</b>	<b>\$11,107</b>	<b>\$4,540</b>	<b>\$9,471</b>	<b>\$14,460</b>	<b>\$10,659</b>	<b>\$4,532</b>	<b>\$15,187</b>	<b>\$26,712</b>	<b>\$11,855</b>	<b>\$4,839</b>
Educational and general expenditures	8,520	13,179	8,518	4,215	7,623	11,320	8,243	4,223	11,167	18,779	8,977	4,122
Instruction	3,474	4,970	3,504	2,046	3,280	4,266	3,713	2,107	4,047	7,093	3,156	1,328
Research	945	2,537	581	4	856	2,227	672	4	1,209	3,471	431	2
Public service	349	794	253	78	377	910	269	83	267	447	227	12
Academic support	745	1,173	742	353	701	1,052	778	361	873	1,538	681	259
Libraries	285	438	301	119	252	366	296	122	383	655	311	90
Student services	510	493	601	394	438	417	513	379	725	722	749	567
Institutional support	1,046	1,149	1,241	667	849	888	1,036	634	1,626	1,934	1,582	1,054
Operation and maintenance of plant	851	1,154	894	507	775	1,001	879	503	1,073	1,615	920	556
Scholarships and fellowships	466	747	533	107	236	426	237	93	1,443	1,713	1,028	274
From unrestricted funds <sup>2</sup>	256	425	305	27	105	203	114	21	703	1,094	624	102
From restricted funds <sup>2</sup>	210	322	228	80	132	223	122	73	441	620	404	172
Mandatory transfers	134	161	168	58	110	133	147	57	202	247	202	71

<sup>1</sup> Includes expenditures for auxiliary enterprises, hospitals, and independent operations which are not shown separately.

<sup>2</sup> Excludes Pell Grants.

NOTE—Tabulation includes only those institutions for which finance and enrollment data are available. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education, Fiscal Year 1986," and "Fall Enrollment in Colleges and Universities, 1985" surveys (This table was prepared August 1987).

**Table 290.—Additions to physical plant value of institutions of higher education,  
by type of addition and control of institution: 1969-70 to 1985-86**

[In millions]

Year	Total, all institutions	Public institutions				Private institutions			
		Total	Land	Buildings	Equipment	Total	Land	Buildings	Equipment
1	2	3	4	5	6	7	8	9	10
1969-70 .....	\$4,233	\$2,985	\$152	\$2,185	\$648	\$1,248	\$59	\$967	\$221
1970-71 .....	4,165	3,032	128	2,241	663	1,134	41	895	198
1971-72 .....	4,163	3,054	112	2,277	665	1,109	53	860	195
1972-73 .....	3,967	2,940	126	2,077	737	1,028	53	750	225
1973-74 .....	4,312	3,206	205	2,188	813	1,106	55	816	235
1974-75 .....	4,761	3,476	263	2,246	967	1,284	67	860	357
1975-76 .....	4,702	3,552	168	2,365	1,019	1,150	58	768	325
1976-77 .....	4,623	3,362	128	2,208	1,026	1,261	58	838	366
1977-78 .....	4,527	3,308	102	2,117	1,087	1,221	45	777	400
1978-79 .....	4,576	3,377	154	1,944	1,279	1,189	52	763	383
1979-80 .....	5,551	3,666	164	2,149	1,354	1,886	98	1,220	568
1980-81 .....	6,471	4,279	146	2,555	1,579	2,192	104	1,398	690
1981-82 .....	6,975	4,594	170	2,679	1,744	2,382	83	1,488	811
1982-83 .....	7,421	4,765	374	2,396	1,994	2,656	106	1,666	884
1983-84 .....	7,604	5,038	196	2,427	2,415	2,566	110	1,507	950
1984-85 .....	8,306	5,390	202	2,455	2,733	2,916	135	1,671	1,110
1985-86 .....	10,149	6,875	237	3,318	3,320	3,274	128	1,922	1,225

NOTE—Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared July 1987)

**Table 291.—Capital expenditures<sup>1</sup> for science and engineering programs in institutions of higher education, by field of study and source of funds: United States and outlying areas, 1976-77 to 1986-87**

(In thousands)

Field of study and source of funds	1976-77	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11
<b>Total from all sources</b>	<b>\$960,014</b>	<b>\$996,218</b>	<b>\$794,512</b>	<b>\$958,588</b>	<b>\$969,147</b>	<b>\$1,096,594</b>	<b>\$1,211,821</b>	<b>\$1,249,941</b>	<b>\$1,516,807</b>	<b>\$1,779,796</b>
Engineering	87,718	87,128	89,297	103,329	144,457	134,539	111,969	182,386	309,938	389,188
Sciences, total	872,296	609,090	705,215	855,259	824,690	962,055	1,069,852	1,067,555	1,206,869	1,390,609
Physical sciences	65,216	64,685	77,154	87,813	82,100	96,752	114,698	119,551	142,396	156,052
Environmental sciences	28,351	25,153	36,208	35,025	42,365	40,965	36,662	53,822	46,793	51,526
Mathematical and computer sciences	25,136	27,282	32,318	30,517	34,328	52,897	49,563	76,772	89,579	81,422
Life sciences	642,493	428,293	459,057	603,551	590,353	678,378	740,785	712,304	797,493	944,562
Psychological sciences	12,702	7,060	17,902	10,911	12,798	16,667	35,190	13,909	18,765	10,703
Social sciences	31,798	21,358	35,073	45,138	30,797	40,718	51,933	61,785	50,390	55,381
Other sciences	66,600	35,259	47,423	42,224	31,949	35,678	41,022	29,413	61,453	90,964
<b>Total from Federal sources</b>	<b>195,519</b>	<b>164,460</b>	<b>149,563</b>	<b>153,800</b>	<b>116,651</b>	<b>129,294</b>	<b>138,383</b>	<b>103,758</b>	<b>148,647</b>	<b>167,478</b>
Engineering	17,219	20,927	20,438	17,601	18,136	15,831	23,267	12,623	29,558	39,101
Sciences, total	178,300	143,533	129,125	136,199	98,515	113,463	115,116	91,136	119,089	128,377
Physical sciences	21,894	32,186	22,483	25,529	20,154	17,952	17,619	30,489	34,059	35,171
Environmental sciences	9,307	8,220	8,033	6,866	4,404	3,488	3,269	3,075	5,642	12,010
Mathematical and computer sciences	1,882	2,983	5,653	4,944	3,798	4,276	4,821	6,657	13,892	9,399
Life sciences	137,369	90,796	86,105	89,410	66,004	80,565	84,855	46,281	55,654	54,661
Psychological sciences	2,398	1,740	2,002	1,580	1,023	1,004	981	761	1,346	796
Social sciences	2,109	2,076	1,528	6,376	1,374	4,845	2,924	2,099	2,430	3,431
Other sciences	3,341	5,532	3,341	1,494	1,758	1,333	646	1,774	6,065	12,909
<b>Total from other sources</b>	<b>764,495</b>	<b>531,758</b>	<b>644,949</b>	<b>804,788</b>	<b>852,496</b>	<b>967,300</b>	<b>1,073,438</b>	<b>1,146,183</b>	<b>1,368,160</b>	<b>1,612,319</b>
Engineering	70,499	66,201	68,859	85,728	126,321	118,708	118,702	169,763	280,380	350,087
Sciences, total	693,996	465,557	576,090	719,060	726,175	848,592	954,736	976,419	1,087,780	1,262,232
Physical sciences	43,322	32,499	54,691	62,284	61,346	78,800	97,078	89,062	108,337	120,881
Environmental sciences	19,044	16,933	28,175	28,159	37,961	37,477	33,393	50,747	41,151	39,516
Mathematical and computer sciences	23,254	24,299	26,665	25,573	30,530	48,621	44,742	70,115	75,687	72,023
Life sciences	505,124	337,497	372,952	514,141	524,349	597,813	655,930	666,023	741,839	889,901
Psychological sciences	10,304	5,320	15,980	9,411	11,775	15,663	34,209	13,148	17,419	9,906
Social sciences	29,689	19,282	33,545	38,762	29,423	35,873	49,009	59,686	47,960	51,950
Other sciences	63,259	29,727	44,082	40,730	30,91	34,345	40,376	27,639	55,388	78,055

<sup>1</sup> Includes expenditure for facilities and equipment for research, development, and instruction

SOURCE: National Science Foundation, Division of Science Resources Studies, "Early Release of Summary Statistics on Academic Science/Engineering Resources," October 1988, and unpublished tabulations (This table was prepared October 1988)

**Table 292.—Value of property and liabilities of institutions of higher education: 1899–1900 to 1985–86**

[In thousands]

Academic year	Property value at end of year						Endowment (end of year market value) <sup>1</sup>	Liabilities of plant funds
	Total	Physical plant value			Endowment (book value) <sup>1</sup>			
		Total	Land	Buildings		Equipment		
1	2	3	4	5	6	7	8	9
1899–1900	\$448,597	\$253,599	—	—	—	<sup>2</sup> \$194,998	—	—
1909–10	781,255	457,594	\$92,359	\$297,153	\$68,082	<sup>2</sup> 323,661	—	—
1919–20	1,316,404	747,333	128,922	495,920	122,491	<sup>2</sup> 569,071	—	—
1929–30	3,437,117	2,065,049	304,114	1,490,014	270,921	<sup>2</sup> 1,372,068	—	—
1935–36	3,913,028	2,359,418	334,085	1,636,722	388,611	<sup>2</sup> 1,553,610	—	—
1937–38	4,208,695	2,556,075	313,665	1,811,309	431,101	1,652,620	—	—
1939–40	4,440,063	2,753,780	—	—	—	1,686,263	—	—
1941–42	4,525,925	2,759,261	—	—	—	<sup>2</sup> 1,766,664	—	—
1947–48	6,076,212	3,691,725	—	—	—	2,384,487	—	—
1949–50	7,401,187	4,799,964	—	—	—	<sup>2</sup> 2,601,223	—	—
1951–52	9,241,725	6,373,195	—	—	—	2,868,530	—	—
1953–54	10,717,082	7,523,193	—	—	—	3,193,889	—	—
1955–56	12,561,046	8,858,907	624,467	<sup>3</sup> 6,697,648	1,536,792	3,702,139	—	\$894,363
1957–58	15,770,197	11,124,489	733,182	<sup>3</sup> 8,540,429	1,850,878	4,645,708	—	1,444,602
1959–60	18,870,628	13,548,548	842,664	<sup>3</sup> 10,472,478	2,233,407	5,322,080	—	1,964,306
1961–62	22,761,193	16,601,844	1,009,294	<sup>3</sup> 12,900,093	2,772,457	6,079,449	—	2,806,868
1963–64	28,232,362	21,279,346	1,292,691	<sup>3</sup> 16,460,867	3,525,788	6,953,016	—	4,190,189
1965–66	35,274,597	26,851,273	1,756,901	<sup>3</sup> 20,653,028	4,439,344	8,423,324	\$11,126,631	6,071,750
1967–68	—	34,506,348	2,062,545	<sup>3</sup> 26,673,826	5,769,977	—	—	—
1969–70	52,930,923	42,093,580	3,076,751	31,865,179	7,151,649	10,637,343	11,206,632	9,384,731
1970–71	57,394,951	46,053,565	3,117,895	35,042,590	7,893,100	11,341,366	13,714,330	9,786,240
1971–72	62,136,459	50,153,251	3,287,326	38,131,339	8,734,586	11,963,208	15,180,934	10,291,095
1972–73	66,814,103	53,814,596	3,492,611	40,808,481	9,513,503	12,999,507	15,099,840	10,823,595
1973–74	71,305,817	56,002,777	3,888,372	43,701,491	10,412,914	13,303,040	13,168,076	11,400,916
1974–75	75,565,674	62,163,078	4,210,901	46,453,642	11,518,536	13,402,596	14,364,545	12,413,420
1975–76	80,300,595	66,348,304	4,345,232	49,349,224	12,853,847	13,952,291	15,488,265	12,887,015
1976–77	85,486,550	70,739,427	4,444,927	52,384,393	13,910,107	14,747,123	16,304,553	13,068,341
1977–78	90,337,044	74,770,804	4,621,071	55,188,603	14,961,131	15,566,240	16,840,129	13,437,861
1978–79	95,442,468	78,637,991	4,824,250	57,563,005	16,250,737	16,804,477	18,158,634	13,712,648
1979–80	102,294,859	83,733,387	5,037,172	60,847,097	17,849,119	18,561,472	20,743,045	14,181,991
1980–81	109,701,242	88,760,567	5,212,453	64,156,017	19,390,097	20,940,675	23,465,001	14,794,669
1981–82	117,601,954	94,516,512	5,402,339	67,794,877	21,319,297	23,085,442	24,415,245	15,487,618
1982–83	127,345,302	100,992,841	5,889,080	71,519,718	23,584,042	26,352,461	32,691,133	16,749,900
1983–84	137,141,741	107,640,113	6,109,746	75,220,765	26,309,602	29,501,629	32,975,610	18,277,315
1984–85	148,163,096	114,763,986	6,236,159	79,133,998	29,393,829	33,399,110	39,916,361	22,105,712
1985–86	160,959,517	122,261,355	6,573,923	82,886,012	32,801,419	38,698,162	50,280,775	25,699,408

<sup>1</sup> Includes funds functioning as endowment

<sup>2</sup> Includes annuity funds

<sup>3</sup> Includes improvements to land and equipment. These funds are included under appropriate categories after 1967–68

— Data not available

NOTE —Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" surveys (This table was prepared August 1987)

**Table 293.—Physical plant value and endowment funds per student in institutions of higher education, by type and control of institution: 1975-76 to 1985-86**

Control and level of institution	Institutions		Plant value (end of year)		Market value of endowment funds (end of year)	
	Number <sup>1</sup>	Full-time-equivalent enrollment, in thousands	Total, in thousands of dollars	Per full-time-equivalent student	Total, in thousands of dollars	Per full-time-equivalent student
1	2	3	4	5	6	7
<b>1975-76</b>						
All institutions .....	3,026	8,480	\$66,348,304	\$7,824	\$15,488,266	\$1,827
4-year institutions .....	1,898	5,900	57,333,509	9,717	15,337,285	2,599
2-year institutions .....	1,128	2,579	9,014,795	3,495	150,981	59
Publicly controlled institutions .....	1,442	6,522	44,795,168	6,888	2,932,737	450
4-year institutions .....	545	4,057	36,440,349	8,983	2,886,157	711
2-year institutions .....	897	2,466	8,354,819	3,388	46,580	19
Privately controlled institutions .....	1,584	1,957	21,553,136	11,011	12,555,529	6,414
4-year institutions .....	1,353	1,844	20,893,160	11,331	12,451,128	6,753
2-year institutions .....	231	113	659,976	5,816	104,401	920
<b>1979-80</b>						
All institutions .....	3,152	8,487	83,733,337	9,866	20,743,045	2,444
4-year institutions .....	1,957	6,016	71,524,828	11,889	20,541,897	3,415
2-year institutions .....	1,195	2,471	12,208,559	4,940	201,148	81
Publicly controlled institutions .....	1,475	6,393	56,970,126	8,912	3,708,329	580
4-year institutions .....	549	4,059	45,523,288	11,215	3,628,794	894
2-year institutions .....	926	2,333	11,446,838	4,906	79,535	34
Privately controlled institutions .....	1,677	2,095	26,763,261	12,777	17,034,716	8,132
4-year institutions .....	1,408	1,957	26,001,540	13,288	16,913,103	8,643
2-year institutions .....	269	138	761,721	5,522	121,613	882
<b>1983-84</b>						
All institutions .....	3,284	9,166	107,640,113	11,743	32,975,610	3,597
4-year institutions .....	2,013	6,324	92,237,794	14,585	32,644,125	5,162
2-year institutions .....	1,271	2,842	15,402,318	5,419	331,486	117
Publicly controlled institutions .....	1,481	6,881	72,605,169	10,551	6,038,051	877
4-year institutions .....	565	4,266	58,108,916	13,623	5,887,180	1,380
2-year institutions .....	916	2,616	14,496,252	5,542	150,871	58
Privately controlled institutions .....	1,803	2,285	35,034,944	15,333	26,937,560	11,789
4-year institutions .....	1,448	2,059	34,128,878	16,577	26,756,944	12,957
2-year institutions .....	355	226	906,066	4,006	180,615	799
<b>1984-85</b>						
All institutions .....	3,331	8,952	114,763,986	12,820	39,916,361	4,459
4-year institutions .....	2,025	6,293	98,417,404	15,640	39,524,453	6,281
2-year institutions .....	1,306	2,659	16,346,582	6,148	391,908	147
Publicly controlled institutions .....	1,501	6,685	77,314,401	11,566	7,344,312	1,099
4-year institutions .....	566	4,238	61,924,903	14,612	7,172,486	1,692
2-year institutions .....	935	2,447	15,389,498	6,290	171,826	70
Privately controlled institutions .....	1,830	2,267	37,449,585	16,519	32,572,049	14,388
4-year institutions .....	1,459	2,055	36,492,501	17,759	32,351,967	15,744
2-year institutions .....	371	212	957,084	4,510	220,082	1,037
<b>1985-86</b>						
All institutions .....	3,340	8,943	122,261,355	13,671	50,280,775	5,622
4-year institutions .....	2,029	6,294	105,074,835	16,694	49,806,974	7,913
2-year institutions .....	1,311	2,649	17,186,520	6,488	473,801	179
Publicly controlled institutions .....	1,498	6,668	82,553,486	12,381	9,087,997	1,363
4-year institutions .....	566	4,240	66,339,329	15,647	8,881,733	2,095
2-year institutions .....	932	2,428	16,214,157	6,678	206,265	85
Privately controlled institutions .....	1,842	2,276	39,707,869	17,449	41,192,778	18,102
4-year institutions .....	1,463	2,055	38,735,506	18,852	40,925,241	19,918
2-year institutions .....	379	221	972,363	4,401	267,536	1,211

<sup>1</sup> Includes main and branch campuses

NOTE —Because of rounding, details may not add to totals

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education" and "Fall Enrollment in Colleges and Universities" surveys (This table was prepared August 1987)

**Table 294.—Endowment funds of the 100 institutions of higher education with the largest amounts:  
Fiscal year 1986**

Institution	Rank order <sup>1</sup>	Market value of endowment, in thousands of dollars (end of fiscal year)	Institution	Rank order <sup>1</sup>	Market value of endowment, in thousands of dollars (end of fiscal year)
1	2	3	1	2	3
<b>United States (all institutions)</b>	—	<b>\$50,260,775</b>			
<b>100 institutions with the largest amounts</b>	—	<b>\$6,360,835</b>			
Harvard University (Mass.)	1	3,435,006	Oral Roberts University (Oklahoma)	51	203,853
University of Texas at Austin	2	3,359,063	Baylor College of Medicine (Tex.)	52	202,969
Yale University (Conn.)	3	1,750,663	University of California at Berkeley	53	199,592
Princeton University (N.J.)	4	1,814,321	Pomona College (Calif.)	54	199,320
Columbia University, Main Division (N.Y.)	5	1,290,143	Oberlin College (Ohio)	55	197,338
Stanford University (Calif.)	8	1,260,691	University of Pittsburgh, Main Campus (Penn.)	58	194,334
Washington University (Missouri)	7	972,458	Berea College (Ky.)	57	193,716
Massachusetts Institute of Technology	8	971,348	Luke University (N.C.)	58	191,399
University of Chicago (Ill.)	9	803,345	Wake Forest University (N.C.)	59	186,794
Rice University (Tex.)	10	795,840	Rensselaer Polytechnic Institute (N.Y.)	60	185,775
Northwestern University (Ill.)	11	734,569	Texas Christian University	81	183,350
Emory University (Ga.)	12	732,345	Tulane University of Louisiana	62	178,477
University of Rochester (N.Y.)	13	587,002	Georgetown University (D.C.)	83	173,836
University of Pennsylvania	14	540,084	Middlebury College (Vt.)	64	167,822
Dartmouth College (N.H.)	15	520,823	University of Cincinnati, Main Campus (Ohio)	65	166,306
New York University	18	520,007	Lehigh University (Penn.)	66	158,477
Cornell University, Endowed Colleges (N.Y.)	17	500,855	Thomas Jefferson University (Penn.)	67	152,445
Johns Hopkins University (Md.)	18	491,534	Lafayette College (Penn.)	68	149,291
Rockefeller University (N.Y.)	19	478,204	Boston University (Mass.)	69	131,525
Vanderbilt University (Tenn.)	20	450,231	Mount Holyoke College (Mass.)	70	130,214
University of Notre Dame (Ind.)	21	388,104	Bowdoin College (Maine)	71	126,936
University of Southern California	22	361,784	Cornell University Medical Center (N.Y.)	72	124,367
California Institute of Technology	23	347,870	Carleton College (Minn.)	73	123,856
University of Virginia, Main Campus	24	339,398	University of California at Davis	74	123,557
Mayo Graduate School of Medicine (Minn.)	25	315,224	University of Wisconsin at Madison	75	121,044
Brown University (R.I.)	26	302,759	Brandeis University (Mass.)	78	120,576
Case Western Reserve University (Ohio)	27	290,343	St. Louis University, Main Campus (Missouri)	77	120,493
Carnegie-Mellon University (Penn.)	28	288,768	University of California at Santa Barbara	76	114,052
Princeton Theological Seminary (N.J.)	29	284,176	Rochester Institute of Technology (N.Y.)	79	113,776
University of Michigan at Ann Arbor	30	282,725	Syracuse University, Main Campus (N.Y.)	80	112,625
Southern Methodist University (Tex.)	31	262,121	Wabash College (Ind.)	81	110,300
Smith College (Mass.)	32	272,662	Occidental College (Calif.)	82	109,455
Wellesley College (Mass.)	33	264,981	Northeastern University (Mass.)	83	105,964
Williams College (Mass.)	34	247,830	University of North Carolina at Chapel Hill	84	104,949
Wesleyan University (Conn.)	35	244,889	Purdue University (Ind.)	85	103,839
Loyola University of Chicago (Ill.)	36	240,041	Boston College (Mass.)	88	102,194
Loyola University in New Orleans (La.)	37	238,000	University of Miami (Fla.)	87	102,142
University of California at Los Angeles	36	237,609	Trinity College (Conn.)	88	102,091
Swarthmore College (Penn.)	39	233,765	State University of New York at Buffalo, Main Campus	89	100,954
University of Washington	40	232,420	Rush University (Ill.)	90	99,695
University of Delaware	41	232,228	New Mexico Military Institute	91	97,517
Amherst College (Mass.)	42	224,428	Tufts University (Mass.)	92	97,232
Baylor University (Tex.)	43	222,619	Earlham College (Ind.)	93	96,832
University of Minnesota, Minneapolis-St. Paul	44	220,370	Byrn Mawr College (Penn.)	94	95,587
Trinity University (Tex.)	45	218,190	University of California at San Diego	95	95,044
Grinnell College (Iowa)	48	208,175	The Juilliard School (N.Y.)	96	95,030
George Washington University (D.C.)	47	208,083	Hamilton College (N.Y.)	97	94,453
Ohio State University, Main Campus	48	204,826	Colgate University (N.Y.)	98	94,144
University of Richmond (Va.)	49	204,803	Pennsylvania State University, Main Campus	99	88,829
Vassar College (N.Y.)	50	204,084	Colorado College	100	87,500

<sup>1</sup> Institutions ranked by size of endowment  
—Not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, "Financial Statistics of Institutions of Higher Education, 1985-86" survey (This table was prepared July 1987)

NOTE —Because of rounding, details do not add to total

**Table 295.—Participants in postsecondary academic, vocational, and continuing education, by sex, race, age group, and labor force status: October 1982**

[Numbers in thousands]

Sex, race, age group, and labor force status	Type of postsecondary education					
	Academic <sup>1</sup>		Vocational <sup>2</sup>		Continuing <sup>3</sup>	
	Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7
<b>Total</b> .....	<b>9,243</b>	<b>100.0</b>	<b>3,787</b>	<b>100.0</b>	<b>5,177</b>	<b>100.0</b>
Male.....	4,629	50.1	1,712	45.2	1,808	34.9
Female.....	4,614	49.9	2,074	54.8	3,368	65.1
White.....	7,933	85.8	3,199	84.5	4,731	91.4
Black.....	918	9.9	449	11.9	255	4.9
Other races.....	392	4.2	138	3.6	190	3.7
16 to 24 years old.....	6,208	67.2	1,833	48.4	848	16.4
25 to 34 years old.....	2,145	23.2	1,078	28.5	1,667	32.2
35 to 44 years old.....	624	6.8	522	13.8	1,121	21.7
45 to 54 years old.....	198	2.1	240	6.3	717	13.8
55 to 64 years old.....	58	0.6	95	2.5	514	9.9
65 years old and over.....	12	0.1	19	0.5	309	6.0
Not in labor force.....	3,893	42.1	955	25.2	1,271	24.6
Employed full-time.....	2,236	24.2	1,676	44.3	2,944	56.9
Employed part-time.....	2,697	29.2	834	22.0	728	14.1
Unemployed.....	416	4.5	321	8.5	234	4.5

<sup>1</sup> Academic students pursued coursework, either full- or part-time, for the purpose of obtaining an undergraduate, graduate, or professional degree

<sup>2</sup> Vocational students took coursework, either full- or part-time, in an occupational or technical field for the purpose of obtaining a vocational credential, such as a vocational certificate, occupational license, or other vocational diploma or degree

<sup>3</sup> Continuing education students were postsecondary education participants not otherwise classified as academic or vocational students who were taking college credit courses but not seeking a degree or who were taking noncredit courses for job improve-

ment, personal development, or social/recreational purposes (excluding adult basic education courses to improve basic skills in reading, writing, or arithmetic)

NOTE—Data are based upon a sample survey of the civilian noninstitutional population. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Participants in Postsecondary Education October 1982* (This table was prepared May 1986)

**Table 296.—Selected characteristics of participants in adult education: 1984**

[Numbers in thousands]

Characteristics of participants	Number of adults in population <sup>1</sup>	Participants in adult education <sup>2</sup>					
		Total		Full-time students in high school or college degree programs		Not full-time students in high school or college degree programs <sup>3</sup>	
		Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7	8
<b>Total</b> . . . . .	<b>172,583</b>	<b>23,303</b>	<b>13.5</b>	<b>1,118</b>	<b>0.6</b>	<b>22,184</b>	<b>12.9</b>
<b>Age</b>							
17 to 34 years . . . . .	71,891	11,704	16.3	948	1.3	10,756	15.0
35 to 54 years . . . . .	52,303	8,834	16.9	152	0.3	8,712	16.7
55 years and over . . . . .	48,388	2,735	5.7	18	(*)	2,717	5.6
<b>Sex</b>							
Men . . . . .	81,700	10,446	12.8	485	0.6	9,961	12.2
Women . . . . .	90,883	12,857	14.1	634	0.7	12,224	13.5
<b>Racial/ethnic group</b>							
White, non-Hispanic . . . . .	139,777	20,429	14.6	939	0.7	19,491	13.9
Black, non-Hispanic . . . . .	18,628	1,506	8.1	88	0.5	1,418	7.6
Hispanic . . . . .	9,706	796	8.2	63	0.6	733	7.6
Other . . . . .	4,472	571	12.8	28	0.6	543	12.1
<b>Highest level of education completed</b>							
Less than 4 years of high school . . . . .	47,297	1,890	4.0	315	0.7	1,574	3.3
4 years of high school . . . . .	66,224	6,991	10.6	193	0.3	6,799	10.3
1 to 3 years of college . . . . .	30,287	6,022	19.9	394	1.3	5,628	18.6
4 or more years of college . . . . .	28,775	8,400	29.2	217	0.8	8,184	28.4
<b>Labor force status</b>							
In labor force . . . . .	112,441	19,788	17.6	740	0.7	19,047	16.9
Employed . . . . .	104,464	18,929	18.1	654	0.6	18,275	17.5
Unemployed . . . . .	7,977	859	10.8	86	1.1	772	9.7
Not in labor force . . . . .	60,141	3,515	5.8	378	0.6	3,137	5.2
Keeping house . . . . .	31,131	2,178	7.0	22	0.1	2,156	6.9
Going to school . . . . .	6,866	524	7.6	330	4.8	195	2.8
Other . . . . .	22,144	813	3.7	26	0.1	786	3.5
<b>Annual family income</b>							
Under \$5,000 . . . . .	13,016	797	6.1	85	0.7	712	5.5
\$5,000 to \$7,499 . . . . .	11,562	712	6.2	69	0.6	643	5.6
\$7,500 to \$9,999 . . . . .	10,308	742	7.2	44	0.4	698	6.8
\$10,000 to \$12,499 . . . . .	12,079	1,089	9.0	54	0.4	1,035	8.6
\$12,500 to \$14,999 . . . . .	10,509	1,028	9.8	39	0.4	988	9.4
\$15,000 to \$17,499 . . . . .	10,353	1,253	12.1	61	0.6	1,197	11.5
\$17,500 to \$19,999 . . . . .	9,422	1,255	13.3	53	0.6	1,202	12.8
\$20,000 to \$24,999 . . . . .	17,431	2,625	15.1	116	0.7	2,509	14.4
\$25,000 to \$29,999 . . . . .	15,090	2,503	16.6	106	0.7	2,397	15.9
\$30,000 to \$34,999 . . . . .	13,839	2,505	18.1	110	0.8	2,395	17.3
\$35,000 to \$39,999 . . . . .	10,287	1,919	18.7	76	0.7	1,843	17.9
\$40,000 to \$49,999 . . . . .	12,643	2,626	20.8	103	0.8	2,522	19.9
\$50,000 to \$74,999 . . . . .	11,981	2,543	21.2	123	1.0	2,420	20.2
\$75,000 or more . . . . .	5,112	1,011	19.8	48	0.9	963	18.8
Not reported . . . . .	8,951	695	7.8	32	0.4	664	7.4

<sup>1</sup> Persons 17 years of age and over on the date of the survey

<sup>2</sup> Data are for the year ending in May 1984

<sup>3</sup> On the date of the survey includes part-time undergraduate and graduate students who indicated that they were also adult education participants

\* Less than .05 percent

NOTE—Data are based upon a sample survey of the civilian noninstitutional population. Because of rounding, data's may not add to totals

SOURCE US Department of Education, National Center for Education Statistics, *Participation in Adult Education, May 1984*. (This table was prepared June 1986)



Table 297.—Courses<sup>1</sup> taken by participants in adult education,<sup>2</sup> by sex, age, and field of study: Year ending May 1984

[In thousands]

Field of study	Total	Courses taken by men							Courses taken by women						
		Total	17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over	Total	17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Total courses.....	40,752	17,770	2,574	6,509	4,622	2,324	1,328	413	22,981	3,563	7,907	5,900	2,994	1,796	822
Agriculture and renewable natural resources.....	430	321	28	118	91	40	35	7	109	20	28	36	15	8	2
Arts, visual and performing.....	2,149	509	122	177	76	45	46	43	1,640	232	534	354	194	194	132
Business.....	8,981	4,329	507	1,601	1,175	643	352	52	4,652	772	1,616	1,360	631	238	33
Education.....	2,975	863	146	282	246	126	38	25	2,011	298	742	540	293	106	31
Engineering and engineering technology.....	5,899	4,030	552	1,513	1,059	547	227	32	1,669	243	572	567	324	138	25
Health care and health sciences.....	5,101	1,648	103	543	543	227	194	38	3,453	461	1,277	859	453	349	55
Health education.....	1,204	346	32	161	99	32	16	6	858	101	319	238	125	45	30
Home economics.....	947	66	5	26	17	7	11	0	882	60	285	228	128	99	82
Personal services occupations.....	842	302	59	123	73	22	20	6	540	97	204	165	36	33	5
Language, linguistics, and literature.....	2,167	828	198	327	167	52	54	30	1,338	292	468	239	157	107	76
Life sciences, physical sciences, and mathematical sciences.....	1,331	609	183	246	89	42	33	16	722	169	275	198	42	27	12
Philosophy, religion, and psychology.....	2,703	1,028	125	292	254	188	105	64	1,674	234	481	407	230	162	160
Physical education and leisure.....	2,324	684	148	241	126	75	45	48	1,640	293	600	329	162	158	97
Social sciences and social studies.....	2,080	1,230	180	448	336	152	91	23	850	142	278	199	121	58	41
Interdisciplinary studies.....	357	143	37	33	43	22	6	2	214	49	53	68	30	11	4
Unable to classify.....	1,362	833	148	278	228	105	54	20	529	98	174	113	45	62	37

<sup>1</sup> The total number of adult education courses taken between May 1983 and May 1984 was 43,192,000. However, only 40,752,000 course descriptions were obtained through the survey, which asked for information on up to 4 courses (the most recent courses if more than 4 courses were taken during the year). Five percent of participants took more than 4 courses during the year.

<sup>2</sup> Includes part-time undergraduate and graduate students who indicated they were also adult education participants.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Current Population Survey, May 1984, Survey of Adult Education," conducted by the Bureau of the Census, unpublished tabulations (This table was prepared June 1986).

**Table 298.—Courses<sup>1</sup> taken by participants in adult education,<sup>2</sup> by sex, age, and reason for taking course: Year ending May 1984**

[In thousands]

Main reason for taking course	Total	Courses taken by men							Courses taken by women						
		Total	17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over	Total	17 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Total courses.....</b>	<b>40,752</b>	<b>17,770</b>	<b>2,574</b>	<b>6,509</b>	<b>4,622</b>	<b>2,324</b>	<b>1,328</b>	<b>413</b>	<b>22,981</b>	<b>3,563</b>	<b>7,907</b>	<b>5,900</b>	<b>2,994</b>	<b>1,796</b>	<b>822</b>
<b>Job-related reason.....</b>	<b>26,159</b>	<b>12,607</b>	<b>1,394</b>	<b>4,774</b>	<b>3,565</b>	<b>1,820</b>	<b>908</b>	<b>126</b>	<b>13,552</b>	<b>1,854</b>	<b>4,880</b>	<b>3,889</b>	<b>1,930</b>	<b>861</b>	<b>138</b>
To get new job.....	4,802	1,824	502	790	307	154	56	15	2,978	866	1,033	748	264	59	9
In current occupation ..	984	395	40	218	77	37	19	4	589	128	196	185	54	24	1
In new occupation.....	3,818	1,428	462	571	230	117	37	11	2,390	738	836	563	210	34	8
To advance in job.....	19,703	10,004	835	3,665	3,035	1,567	797	105	9,699	880	3,495	2,934	1,537	727	125
Other job-related reason.....	1,654	779	58	319	244	99	55	5	875	108	352	207	128	76	5
<b>Non-job-related reason.....</b>	<b>14,447</b>	<b>5,117</b>	<b>1,170</b>	<b>1,720</b>	<b>1,024</b>	<b>495</b>	<b>420</b>	<b>287</b>	<b>9,330</b>	<b>1,676</b>	<b>3,014</b>	<b>1,987</b>	<b>1,050</b>	<b>919</b>	<b>684</b>
American citizenship.....	34	19	10	7	0	0	2	0	15	2	5	2	4	0	2
General education.....	3,358	1,447	595	503	206	74	43	27	1,911	673	633	317	150	85	52
Volunteer work.....	520	208	30	60	61	21	25	11	312	21	98	65	53	46	29
Personal or social.....	10,230	3,298	492	1,093	734	392	342	246	6,932	949	2,202	1,579	832	780	590
Other non-job-related.....	306	146	44	59	23	9	8	3	160	31	76	24	10	9	10
<b>Not reported.....</b>	<b>145</b>	<b>46</b>	<b>9</b>	<b>15</b>	<b>13</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>99</b>	<b>32</b>	<b>13</b>	<b>24</b>	<b>15</b>	<b>15</b>	<b>0</b>

<sup>1</sup> The total number of adult education courses taken between May 1983 and May 1984 was 43,192,000. However, only 40,752,000 course descriptions were obtained through the survey, which asked for information on up to 4 courses (the most recent courses if more than 4 courses were taken during the year). Five percent of participants took more than 4 courses during the year.

<sup>2</sup> Includes part-time undergraduate and graduate students who indicated they were adult education participants.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Trends in Adult Education, 1969-1984* (This table was prepared June 1986).

**Table 299.—Participants in adult basic and secondary education programs, by sex, level of enrollment, and State: Fiscal years 1980 and 1984**

State or other area	1980						1984		
	Total	Sex		Level of enrollment			Total	Level of enrollment	
		Men	Women	Adult basic education	Adult secondary education	Ungraded		Adult basic education	Adult secondary education
1	2	3	4	5	6	7	8	9	10
<b>United States.....</b>	<b>2,018,906</b>	<b>885,481</b>	<b>1,133,425</b>	<b>915,936</b>	<b>531,663</b>	<b>571,307</b>	<b>2,559,550</b>	<b>1,910,003</b>	<b>649,547</b>
Alabama.....	51,599	18,218	33,381	36,726	12,372	2,501	44,126	28,034	16,092
Alaska.....	5,667	2,632	3,035	2,200	2,188	1,279	11,855	6,649	5,206
Arizona.....	9,996	4,404	5,592	9,968	22	6	15,836	11,480	4,356
Arkansas.....	8,583	4,143	4,440	7,308	1,275	—	9,000	7,603	1,397
California.....	267,625	145,236	122,389	60,385	—	207,240	632,938	632,938	—
Colorado.....	9,381	4,287	5,094	4,295	2,644	2,442	9,300	7,910	1,390
Connecticut.....	21,889	10,253	11,636	8,882	4,805	8,202	41,064	21,078	19,986
Delaware.....	1,797	836	1,161	1,110	503	184	1,858	1,263	595
District of Columbia.....	25,214	9,679	15,585	4,928	6,502	13,784	16,192	9,981	6,211
Florida.....	467,162	192,631	274,531	100,953	184,568	181,636	585,053	351,032	234,021
Georgia.....	50,820	21,670	29,150	26,734	17,008	7,078	54,257	36,996	17,261
Hawaii.....	16,457	4,868	11,589	16,457	—	—	22,219	22,219	—
Idaho.....	12,851	5,966	6,885	8,915	3,010	926	11,086	8,179	2,907
Illinois.....	76,456	35,160	41,296	59,314	17,142	—	58,726	50,080	8,646
Indiana.....	20,882	8,434	12,448	18,127	2,660	95	62,619	24,011	38,608
Iowa.....	25,851	11,643	14,208	16,928	5,153	3,770	23,319	18,118	5,201
Kansas.....	14,405	6,708	7,697	3,687	7,436	3,262	10,845	6,666	4,179
Kentucky.....	27,800	9,813	17,987	6,147	4,735	16,918	23,192	17,459	5,733
Louisiana.....	16,046	6,224	9,822	12,608	2,485	953	45,896	15,357	30,539
Maine.....	5,327	1,941	3,386	3,029	942	1,356	5,369	2,198	3,171
Maryland.....	34,572	14,401	20,171	23,421	6,043	5,108	29,732	26,555	3,177
Massachusetts.....	20,420	8,946	11,474	10,241	5,044	5,135	29,262	20,369	8,893
Michigan.....	40,973	19,258	21,715	29,945	—	11,022	60,561	60,561	—
Minnesota.....	10,826	5,509	5,326	8,627	877	1,322	23,912	12,610	11,302
Mississippi.....	14,317	4,817	9,500	10,340	2,918	1,079	13,533	9,279	4,254
Missouri.....	33,292	13,867	19,425	27,206	3,732	2,354	26,245	21,521	4,724
Montana.....	3,525	1,574	1,951	1,795	978	752	3,262	2,037	1,225
Nebraska.....	7,514	3,275	4,239	5,152	2,562	—	9,135	7,845	1,290
Nevada.....	3,063	1,464	1,599	845	82	2,136	2,381	2,381	—
New Hampshire.....	4,844	2,098	2,746	2,657	1,625	562	5,349	3,546	1,803
New Jersey.....	35,770	16,386	19,384	17,152	6,790	11,828	42,641	35,101	7,540
New Mexico.....	13,102	5,661	7,441	3,590	5,147	4,365	16,157	7,145	9,012
New York.....	94,574	38,966	55,608	57,217	20,002	17,355	78,195	59,238	18,957
North Carolina.....	84,252	38,977	45,275	33,854	46,679	3,719	49,600	49,600	—
North Dakota.....	2,810	1,111	1,699	1,963	538	309	1,741	1,221	520
Ohio.....	50,056	19,757	30,299	42,421	7,635	—	51,617	43,388	8,229
Oklahoma.....	14,701	5,182	9,519	6,983	5,697	2,021	14,801	12,951	1,850
Oregon.....	27,645	12,826	14,819	10,690	12,594	4,361	18,381	10,903	7,478
Pennsylvania.....	29,477	14,399	15,078	19,246	6,436	3,795	27,987	21,527	6,460
Rhode Island.....	5,844	2,555	3,289	2,266	1,357	2,221	6,315	4,508	1,807
South Carolina.....	69,659	25,368	44,291	27,959	35,165	6,535	71,436	32,846	38,590
South Dakota.....	4,067	1,964	2,103	2,080	1,109	878	5,279	4,070	1,209
Tennessee.....	26,268	9,616	16,652	17,079	3,244	5,945	26,199	24,452	1,747
Texas.....	157,349	72,789	84,560	94,245	51,126	11,978	155,932	84,271	71,661
Utah.....	18,541	8,189	10,352	3,756	14,785	—	21,695	6,325	15,370
Vermont.....	4,583	1,533	3,050	3,990	—	593	5,172	4,646	526
Virginia.....	21,525	8,082	13,443	10,480	3,804	7,241	23,388	21,767	1,621
Washington.....	16,286	7,392	8,894	7,245	3,894	5,147	18,450	15,299	3,151
West Virginia.....	14,628	5,710	8,918	9,743	3,672	1,213	15,618	10,706	4,912
Wisconsin.....	16,158	8,227	7,931	14,185	1,973	—	17,578	12,124	5,454
Wyoming.....	2,457	1,095	1,362	857	905	695	3,246	1,960	1,286
<b>Outlying areas</b>									
American Samoa.....	313	115	198	252	61	—	—	—	—
Northern Mariana's.....	—	—	—	—	—	—	309	1,247	1,62
Guam.....	1,346	657	689	812	471	263	1,712	1,702	1,010
Puerto Rico.....	30,164	16,082	14,082	17,844	9,010	3,310	31,014	26,342	4,672
Trust Territory of the Pacific	3,753	2,169	1,584	2,138	699	916	—	—	—
Virgin Islands.....	3,500	1,405	2,095	1,002	859	1,639	3,959	1,883	2,076

<sup>1</sup> Estimated

—Data not available or not applicable

SOURCE U.S. Department of Education, National Center for Education Statistics, "Women and Minority Groups Make Up Largest Segment of Adult Basic and Secondary Education Programs", and Office of Vocational and Adult Education, unpublished data (This table was prepared August 1986)

**Table 300.—Enrollment, mean charges, and mean number of hours required to complete selected programs in noncollegiate noncorrespondence postsecondary schools offering occupational programs, by control of school: United States and outlying areas, 1980-81**

Selected program offerings	Enrollment <sup>1</sup>			Mean charges			Mean number of hours to complete program		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
1	2	3	4	5	6	7	8	9	10
All programs <sup>2</sup>	1,687,097	451,430	1,235,667	\$1,608	\$593	\$2,200	1,107	1,324	981
<b>Agri-business</b>									
Agri-mechanics	513	513	—	778	778	—	1,719	1,719	—
Agri-production	1,166	1,166	—	722	722	—	1,548	1,548	—
Agri-products	874	874	—	924	924	—	2,103	2,103	—
Agri-supplies/services	2,297	373	1,924	1,778	379	3,832	880	974	742
Horticulture	2,039	1,802	237	704	617	4,758	1,361	1,352	1,780
<b>Business/office</b>									
Accounting	40,746	13,887	26,859	2,254	488	2,893	1,077	1,238	1,019
Business administration	22,889	4,690	18,199	3,307	395	3,913	1,189	1,148	1,198
Clerical	24,378	11,358	13,020	1,284	507	1,870	843	924	783
Computer programmer	34,789	2,450	32,319	3,113	551	3,473	775	1,278	704
Data processing, not elsewhere classified	32,905	11,493	21,412	2,499	895	4,119	1,061	1,139	991
Office occupations, not elsewhere classified	23,025	14,506	8,519	1,284	413	2,222	1,022	1,281	742
Secretary	106,478	23,387	83,089	2,463	541	2,903	1,034	998	1,043
Typing	10,539	2,292	8,247	564	94	719	398	408	394
<b>Health</b>									
Dental assistant	9,047	2,110	8,937	1,914	747	2,590	767	1,112	568
Medical assistant (office)	20,950	1,762	19,188	2,326	820	2,787	766	1,046	680
Nurse (practical)	36,181	26,418	9,765	892	756	1,998	1,416	1,449	1,149
Radiology technician	6,018	886	5,032	758	813	705	3,244	2,779	3,397
<b>Home economics</b>									
Child care	2,244	2,194	50	256	247	325	1,108	1,003	1,900
Clothing management, product, and services	3,378	1,824	1,554	1,365	292	1,974	717	1,038	535
Dietician	1,240	906	334	522	454	665	1,342	1,253	1,529
Tailoring	2,048	567	1,479	2,099	321	2,512	866	1,269	773
<b>Marketing/distribution</b>									
Apparel	45,778	1,048	44,728	3,087	402	3,456	943	1,355	887
Banking	11,028	1,055	9,973	967	788	1,103	475	854	185
Entertainment services	35,122	308	34,814	714	808	709	232	1,834	134
Insurance sales	11,149	92	11,057	202	352	188	95	576	51
Merchandising	5,533	2,108	3,545	1,566	849	2,216	1,061	1,490	672
Real estate	100,745	891	99,854	202	238	201	58	419	53
Recreation/tourism	26,320	233	26,087	1,787	381	1,846	401	451	399
<b>Technical</b>									
Automotive technologies	9,571	1,430	8,141	2,756	993	4,541	1,436	1,503	1,369
Civil technologies	6,878	3,154	3,724	2,791	709	3,823	1,369	1,936	1,088
Communications technologies	15,924	1,951	13,973	2,460	1,199	2,848	937	1,848	657
Electronics technologies	45,152	8,996	36,156	2,600	697	4,870	1,610	1,706	1,497
Performing arts (music, dance, and drama)	20,969	113	20,856	2,144	88	2,412	752	275	815
Pilot	48,732	202	48,530	7,898	7,900	7,898	—	—	—
<b>Trades/industry</b>									
Auto mechanic	28,866	18,914	9,752	1,070	607	2,841	1,466	1,561	1,101
Commercial art occupations	19,856	3,155	18,901	3,166	943	4,082	1,259	1,640	1,102
Cosmetology	153,381	8,822	144,559	1,457	483	1,525	1,342	1,297	1,346
Drafting	15,937	9,215	6,722	1,489	518	3,102	1,510	1,652	1,275
Maritime occupations	15,664	3,051	12,813	1,099	662	971	458	979	328
Truck driver	34,800	1,345	32,955	1,357	489	1,497	187	516	134
Welding	48,804	23,052	23,752	925	455	1,527	756	1,078	347

<sup>1</sup> Includes proprietary (operated for profit) schools, independent (nonprofit) schools, and schools operated by religious groups

<sup>2</sup> Includes programs not shown separately below  
—Data not available

NOTE—Includes students enrolled at any time during the 12-month period ending June 30, 1981

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Postsecondary Schools with Occupational Programs" survey (This table was prepared June 1986)

Table 301.—Number of noncollegiate institutions offering postsecondary education, by control and State: 1987-88

State or other area	Total	Public	Private		
			Total	Nonprofit	Proprietary
1	2	3	4	5	6
<b>United States.....</b>	<b>8,469</b>	<b>659</b>	<b>7,810</b>	<b>1,581</b>	<b>8,229</b>
Alabama.....	78	6	72	15	57
Alaska.....	60	7	53	13	40
Arizona.....	211	5	206	16	190
Arkansas.....	130	25	105	13	92
California.....	1,179	51	1,128	243	885
Colorado.....	134	7	127	18	109
Connecticut.....	144	4	140	32	108
Delaware.....	23	1	22	4	18
District of Columbia.....	38	1	37	12	25
Florida.....	373	52	321	62	259
Georgia.....	153	23	130	23	107
Hawaii.....	40	2	38	6	32
Idaho.....	42	1	41	4	37
Illinois.....	443	18	425	102	323
Indiana.....	168	14	154	25	129
Iowa.....	96	6	90	21	69
Kansas.....	91	16	75	19	56
Kentucky.....	138	18	120	16	104
Louisiana.....	216	57	159	13	146
Maine.....	32	2	30	13	17
Maryland.....	210	1	209	28	181
Massachusetts.....	223	20	203	64	139
Michigan.....	356	9	347	68	279
Minnesota.....	138	39	99	22	77
Mississippi.....	58	1	57	4	53
Missouri.....	239	29	210	39	171
Montana.....	48	5	43	8	35
Nebraska.....	58	1	57	12	45
Nevada.....	72	—	72	3	69
New Hampshire.....	35	—	35	5	30
New Jersey.....	259	11	248	51	197
New Mexico.....	42	4	38	7	31
New York.....	461	14	447	149	298
North Carolina.....	73	7	66	11	55
North Dakota.....	28	1	27	12	15
Ohio.....	345	41	304	79	225
Oklahoma.....	89	14	75	5	70
Oregon.....	151	4	147	7	140
Pennsylvania.....	451	13	438	125	313
Rhode Island.....	34	—	34	4	30
South Carolina.....	66	6	60	7	53
South Dakota.....	24	4	20	10	10
Tennessee.....	142	44	98	21	77
Texas.....	447	11	436	52	384
Utah.....	59	8	51	4	47
Vermont.....	13	4	9	3	6
Virginia.....	191	19	172	36	136
Washington.....	166	6	160	28	132
West Virginia.....	59	19	40	12	28
Wisconsin.....	129	6	123	34	89
Wyoming.....	14	2	12	1	11
<b>Outlying areas.....</b>	<b>171</b>	<b>12</b>	<b>159</b>	<b>27</b>	<b>132</b>
American Samoa.....	—	—	—	—	—
Northern Marianas.....	—	—	—	—	—
Guam.....	2	—	2	—	2
Puerto Rico.....	169	12	157	27	130
Trust Territory of the Pacific.....	—	—	—	—	—
Virgin Islands.....	—	—	—	—	—

—Data not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, "Institutional Characteristics" survey (This table was prepared January 1989)

## CHAPTER 4

# Federal Programs for Education and Related Activities

This chapter provides a summary of the Federal funds for education programs to help describe the magnitude of the Federal fiscal effort and give some indication of the scope and variety of the programs. Data in this chapter reflect outlays and obligations of Federal agencies. These tabulations differ from Federal receipts reported in other chapters because of numerous variations in the data collection systems. Federal appropriations are not necessarily spent by recipient institutions in the same year they are appropriated. In some cases, institutions cannot identify the source of Federal revenues because the revenues flow through State agencies. Some types of revenues, such as tuition and fees, are reported as revenues from students even though they may be supported by Federal student loan programs. Some institutions that receive Federal education funds are not included in regular surveys conducted by the National Center for Education Statistics. Thus, the revenue data tabulated in this chapter are not comparable to figures reported in other chapters.

A capsule view of the history of Federal education activities is provided in the following list of selected legislation:

- 1877 **Northwest Ordinance** authorized land grants for the establishment of educational institutions.
- 1802 **An act fixing the military peace establishment of the United States** established the U.S. Military Academy. (The U.S. Naval Academy was established in 1845 by the Secretary of the Navy.)
- 1862 **First Morrill Act** authorized public land grants to the States for the establishment and maintenance of agricultural and mechanical colleges.
- 1867 **Department of Education Act** authorized the establishment of the Department of Education.\*
- 1876 **Appropriation Act, Department of the Treasury** established the U.S. Coast Guard Academy.
- 1890 **Second Morrill Act** provided for money grants for support of instruction in the agricultural and mechanical colleges.
- 1911 **State Marine School Act** authorized Federal funds to be used for the benefit of any nautical school in any of 11 specified State seaport cities.
- 1917 **Smith-Hughes Act** provided for grants to States for support of vocational education.
- 1918 **Vocational Rehabilitation Act** provided for grants for rehabilitation through training of World War I veterans.
- 1919 **An act to provide for further educational facilities** authorized the sale by the Federal Government of surplus machine tools to educational institutions at 15 percent of acquisition cost.
- 1920 **Smith-Bankhead Act** authorized grants to States for vocational rehabilitation programs.
- 1935 **Bankhead-Jones Act** (Public Law 74-182) authorized grants to States for agricultural experiment stations.
- Agricultural Adjustment Act** (Public Law 74-320) authorized 30 percent of the annual customs receipts to be used to encourage the exportation and domestic consumption of agricultural commodities. Commodities purchased under this authorization began to be used in school lunch programs in 1936. The National School Lunch Act of 1946 continued and expanded this assistance.
- 1936 **An act to further the development and maintenance of an adequate and well-balanced American Merchant Marine** (Public Law 84-415) established the U.S. Merchant Marine Academy.
- 1937 **National Cancer Institute Act** established the Public Health Service fellowship program.

\*The Department of Education as established in 1867 was later to be known as the Office of Education until 1980, when, under P.L. 96-88, it was again designated as a "department." Therefore, for purposes of consistency, it is referred to as the "Department of Education" even in those tables covering years when it was officially the Office of Education.

- 1941 Amendment to Lanham Act of 1940** authorized Federal aid for construction, maintenance, and operation of schools in federally impacted areas. Such assistance was continued under Public Law 815 and Public Law 874, 81st Congress, in 1950.
- 1943 Vocational Rehabilitation Act** (Public Law 78-16) provided assistance to disabled veterans.
- School Lunch Indemnity Plan** (Public Law 78-129) provided funds for local lunch food purchases.
- 1944 Servicemen's Readjustment Act** (Public Law 78-346) provided assistance for education veterans.
- Surplus Property Act** (Public Law 78-457) authorized transfer of surplus property to educational institutions.
- 1946 National School Lunch Act** (Public Law 79-396) authorized assistance through grants-in-aid and other means to States to assist in providing adequate foods and facilities for the establishment, maintenance, operation, and expansion of nonprofit school lunch programs.
- George-Barden Act** (Public Law 80-402) expanded Federal support of vocational education.
- 1948 United States Information and Educational Exchange Act** (Public Law 80-402) provided for the interchange of persons, knowledge, and skills between the United States and other countries.
- 1949 Federal Property and Administrative Services Act** (Public Law 81-152) provided for donation of surplus property to educational institutions and for other public purposes.
- 1950 Financial assistance for local educational agencies affected by Federal activities** (Public Law 81-815 and P.L. 81-874) provided assistance for construction (Public Law 815) and operation (Public Law 874) of schools in federally affected areas.
- Housing Act** (Public Law 81-475) authorized loans for construction of college housing facilities.
- 1954 An act for the establishment of the United States Air Force Academy and other purposes** (Public Law 83-325) established the U.S. Air Force Academy.
- Cooperative Research Act** (Public Law 83-531) authorized cooperative arrangements with universities, colleges, and State educational agencies for educational research.
- National Advisory Committee on Education Act** (Public Law 83-532) established a National Advisory Committee on Education to recommend needed studies of national concern in the field of education and to propose appropriate action indicated by such studies.
- School Milk Program Act** (Public Law 83-597) provided funds for purchase of milk for school lunch programs.
- 1956 Library Services Act** (Public Law 84-911) provided grants to States for extension and improvement of rural public library services.
- 1957 Practical Nurse Training Act** (Public Law 84-911) provided grants to States for practical nurse training.
- 1958 National Defense Education Act** (Public Law 85-865) provided assistance to State and local school systems for strengthening instruction in science, mathematics, modern foreign languages, and other critical subjects; improvement of State statistical services; guidance, counseling, and testing services and training institutes; higher education student loans and fellowships; foreign language study and training provided by colleges and universities; experimentation and dissemination of information on more effective utilization of television, motion pictures, and related media for educational purposes; and vocational education for technical occupations necessary to the national defense.
- Education of Mentally Retarded Children Act** (Public Law 85-926) authorized Federal assistance for training teachers of the handicapped.
- Captioned films for the Deaf Act** (Public Law 85-905) authorized a loan service of captioned films for the deaf.
- 1961 Area Redevelopment Act** (Public Law 87-27) included provisions for training or retraining of persons in redevelopment areas.
- 1962 Manpower Development and Training Act** (Public Law 87-415) provided training in new and improved skills for the unemployed and underemployed.
- Communications Act of 1934, Amendment**, (Public Law 87-447) provided grants for the

construction of educational television broadcasting facilities.

**Migration and Refugee Assistance Act of 1962** (Public Law 87-510) authorized loans, advances, and grants for education and training of refugees.

**1963 Health Professions Educational Assistance Act** (Public Law 88-129) provided funds to expand teaching facilities and for loans to students in the health professions.

**Vocational Education Act of 1963** (Public Law 88-210) increased Federal support of vocational education schools; vocational work-study programs; and research, training, and demonstrations in vocational education.

**Higher Education Facilities Act of 1963** (Public Law 88-204) authorized grants and loans for classrooms, libraries, and laboratories in public community colleges and technical institutes, as well as undergraduate and graduate facilities in other institutions of higher education.

**1964 Civil Rights Act of 1964** (Public Law 88-352) authorized the Commissioner of Education to arrange for support for institutions of higher education and school districts to provide in-service programs for assisting instructional staff in dealing with problems caused by desegregation.

**Economic Opportunity Act of 1964** (Public Law 88-452) authorized grants for college work-study programs for students from low-income families; established a Job Corps program and authorized support for work-training programs to provide education and vocational training and work experience opportunities in welfare programs; authorized support of education and training activities and of community action programs, including Head Start, Follow Through, and Upward Bound; and authorized the establishment of Volunteers in Service to America (VISTA).

**1965 Elementary and Secondary Education Act** (Public Law 89-10) authorized grants for elementary and secondary school programs for children of low-income families; school library resources, textbooks, and other instructional materials for school children; supplementary educational centers and services; strengthening State education agencies; and educational research and research training.

**Health Professions Educational Assistance Amendments** (Public Law 89-290) author-

ized scholarships to aid needy students in the health professions.

**Higher Education Act of 1965** (Public Law 89-329) provided grants for university community service programs, college library assistance, library training and research, strengthening developing institutions, teacher training programs, and undergraduate instructional equipment. Authorized insured student loans, established a National Teacher Corps, and provided for graduate teacher training fellowships.

**Medical Library Assistance Act** (Public Law 89-291) provided assistance for construction and improvement of health sciences libraries.

**National Foundation on the Arts and the Humanities Act** (Public Law 89-209) authorized grants and loans for projects in the creative and performing arts, and for research, training, and scholarly publications in the humanities.

**National Technical Institute for the Deaf Act** (Public Law 89-36) provided for the establishment, construction, equipping, and operation of a residential school for postsecondary education and technical training of the deaf.

**National Vocational Student Loan Insurance Act** (P.L. 89-287) encouraged State and nonprofit private institutions and organizations to establish adequate loan insurance programs to assist students to attend postsecondary business, trade, technical, and other vocational schools.

**Disaster Relief Act** (Public Law 89-313) provided for assistance to local education agencies to help meet exceptional costs resulting from a major disaster.

**1966 International Education Act** (Public Law 89-698) provided grants to institutions of higher education for the establishment, strengthening, and operation of centers for research and training in international studies and the international aspects of other fields of study.

**National Sea Grant College and Program Act** (Public Law 89-688) authorized the establishment and operation of sea grant colleges and programs by initiating and supporting programs of education and research in the various fields relating to the development of marine resources.



**Adult Education Act** (Public Law 89-750) authorized grants to States for the encouragement and expansion of educational programs for adults, including training of teachers of adults and demonstrations in adult education (previously part of Economic Opportunity Act of 1964).

**Model Secondary School for the Deaf Act** (Public Law 89-694) authorized the establishment and operation, by Gallaudet College, of a model secondary school for the deaf.

**Elementary and Secondary Education Amendments of 1966** (Public Law 89-750) in addition to modifying existing programs, authorized grants to assist States in the initiation, expansion, and improvement of programs and projects for the education of handicapped children.

**1967 Education Professions Development Act** (Public Law 90-35) amended the Higher Education Act of 1965 for the purpose of improving the quality of teaching and to help meet critical shortages of adequately trained educational personnel.

**Public Broadcasting Act of 1967** (Public Law 90-129) established a Corporation for Public Broadcasting to: assume major responsibility in channeling Federal funds to noncommercial radio and television stations, program production groups, and ETV networks; conduct research, demonstration, or training in matters related to noncommercial broadcasting; and award grants for construction of educational radio and television facilities.

**1968 Elementary and Secondary Education Amendments of 1967** (Public Law 90-247) modified existing programs, authorized support of regional centers for education of handicapped children, model centers and services for deaf-blind children, recruitment of personnel and dissemination of information on education of the handicapped; technical assistance in education to rural areas; support of dropout prevention projects; and support of bilingual education programs.

**Handicapped Children's Early Education Assistance Act** (Public Law 90-538) authorized preschool and early education programs for handicapped children.

**Vocational Education Amendments of 1968** (Public Law 90-576) modified existing programs and provided for a National Advisory Council on Vocational Education, collection

and dissemination of information for programs administered by the Commissioner of Education.

**Higher Education Amendments of 1968** (Public Law 90-575) authorized new programs to assist disadvantaged college students through special counseling and summer tutorial programs, and programs to assist colleges to combine resources of cooperative programs and to expand programs which provide clinical experiences to law students.

**1970 Elementary and Secondary Education Assistance Programs, Extension** (Public Law 91-230) authorized comprehensive planning and evaluation grants to State and local education agencies; provided for the establishment of a National Commission on School Finance.

**National Commission on Libraries and Information Services Act** (Public Law 91-345) established a National Commission on Libraries and Information Science to effectively utilize the Nation's educational resources.

**Office of Education Appropriation Act** (Public Law 91-380) provided emergency school assistance to desegregating local education agencies.

**Environmental Education Act** (Public Law 91-516) established an Office of Environmental Education to: develop curriculum and initiate and maintain environmental education programs at the elementary-secondary levels; disseminate information; provide training programs for teachers and other educational, public, community, labor, and industrial leaders and employees; provide community education programs; and distribute material dealing with environment and ecology.

**Drug Abuse Education Act of 1970** (Public Law 91-527) provided for development, demonstration, and evaluation of curriculums on the problems of drug abuse.

**1971 Comprehensive Health Manpower Training Act of 1971** (Public Law 92-257) amended Title VII of the Public Health Service Act, increasing and expanding provisions for health manpower training and training facilities.

**Nurse Training Act of 1971** (Public Law 92-158) amended Title VIII, Nurse Training, of

the Public Health Service Act, increasing and expanding provisions for nurse training facilities.

**1972 Drug Abuse Office and Treatment Act of 1972** (Public Law 92-255) established a Special Action Office for Drug Abuse Prevention to provide overall planning and policy for all Federal drug-abuse prevention functions; a National Advisory Council for Drug Abuse Prevention; community assistance grants for community mental health center for treatment and rehabilitation of persons with drug-abuse problems, and, in December 1974, a National Institute on Drug Abuse.

**Education Amendments of 1972** (Public Law 92-318) established the Education Division and the National Institute of Education; general aid for institutions of higher education; Federal matching grants for State student incentive grants; a National Commission on Financing Postsecondary Education; State Advisory Councils on Community Colleges; a Bureau of Occupational and Adult Education and State grants for the design, establishment, and conduct of postsecondary occupational education; and a bureau-level Office of Indian Education. Amended current Office of Education programs to increase their effectiveness and better meet special needs. Prohibited sex bias in admission to vocational, professional, and graduate schools, and public institutions of undergraduate higher education.

**1973 Older Americans Comprehensive Services Amendment of 1973** (Public Law 93-29) made available to older citizens comprehensive programs of health, education, and social services.

**Comprehensive Employment and Training Act of 1973** (Public Law 93-203) provided for opportunities for employment and training to unemployed and underemployed persons. Extended and expanded provisions in the Manpower Development and Training Act of 1962, Title I of the Economic Opportunity Act of 1962, Title I of the Economic Opportunity Act of 1964, and the Emergency Employment Act of 1971 as in effect prior to June 30, 1973.

**1974 Educational Amendments of 1974** (Public Law 93-380) provided for the consolidation of certain programs; established a National Center for Education Statistics.

**Juvenile Justice and Delinquency Prevention Act of 1974** (Public Law 93-415) provided for technical assistance, staff training, centralized research, and resources to develop and implement programs to keep students in elementary and secondary schools; established, in the Department of Justice, a National Institute for Juvenile Justice and Delinquency Prevention.

**1975 Indian Self-Determination and Education Assistance Act** (Public Law 93-638) provided for increased participation of Indians in the establishment and conduct of their education programs and services.

**Harry S Truman Memorial Scholarship Act** (Public Law 93-642) established the Harry S Truman Scholarship Foundation and created a perpetual education scholarship fund for young Americans to prepare and pursue careers in public service.

**Indochina Migration and Refugee Assistance Act of 1975** (Public Law 94-23) authorized funds to be used for education and training of aliens who have fled from Cambodia or Vietnam.

**Education of the Handicapped Act** (Public Law 94-142) provided that all handicapped children (5 to 18 years old) have available to them a free appropriate education designed to meet their unique needs.

**1976 Educational Broadcasting Facilities and Telecommunications Demonstration Act of 1976** (Public Law 94-309) established a telecommunications demonstration program to promote the development of nonbroadcast telecommunications facilities and services for the transmission, distribution, and delivery of health, education, and public or social service information.

**Education Amendments of 1976** (Public Law 94-482) extended and revised Federal programs for education assistance for higher education, vocational education, and a variety of other programs.

**1977 Youth Employment and Demonstration Projects Act of 1977** (Public Law 95-93) established a youth employment training program that includes, among other activities, promoting education-to-work transition, literacy training and bilingual training, and attainment of certificates of high school equivalency.

**1978 Career Education Incentive Act** (Public Law 95-207) authorized the establishment of a career education program for elementary and secondary schools.

**Tribally Controlled Community College Assistance Act** (Public Law 95-471) provided Federal funds for the operation and improvement of tribally controlled community colleges for Indian students.

**Education Amendments of 1978** (Public Law 95-561) established a comprehensive basic skills program aimed at improving pupil achievement (replaced the existing National Reading Improvement program); established a community schools program to provide for the use of public buildings.

**Middle Income Student Assistance Act** (Public Law 95-566) modified the provisions for student financial assistance programs to allow middle income as well as low income students attending college or other postsecondary institutions to qualify for Federal education assistance.

**1979 Department of Education Organization Act** (Public Law 96-88) established a Department of Education containing functions from the Education Division of the Department of Health, Education, and Welfare along with other selected education programs from H.E.W., the Department of Justice, Department of Labor, and the National Science Foundation.

**1980 Asbestos School Hazard Protection and Control Act of 1980** (Public Law 96-270) established a program for inspection of schools for detection of hazardous asbestos materials and provided loans to assist educational agencies to contain or remove and replace such materials.

**Amendments to the Higher Education Act** (Public Law 96-374) provided for a new Commission on National Development in Postsecondary Education and a new Urban Grant University Program.

**1981 Education Consolidation and Improvement Act of 1981** (Public Law 97-35) consolidated 42 programs into 7 programs to be funded under the elementary and secondary block grant authority.

**1983 Student Loan Consolidation and Technical Amendments Act of 1983** (Public Law 98-79) established 8 percent rate for

Guaranteed Student Loans and extended Family Contribution Schedule.

**Challenge Grant Amendments of 1983** (Public Law 98-95) amended Title III, Higher Education Act, and added authorization of Challenge Grant program. The Challenge Grant program provides funds to eligible institutions on a matching basis as incentive to seek alternative sources of funding.

**Education of Handicapped Act Amendments** (Public Law 98-199) added Architectural Barrier amendment and clarified participation of Handicapped Children in private schools.

**Education Consolidation and Improvement Act of 1981 Amendments** (Public Law 98-211) added technical amendments for Chapter 1, and provided for parental involvement and minor changes in other programs.

**1984 Rehabilitation Amendments of 1984** (Public Law 98-221) revised and extended the Rehabilitation Act of 1973. Provides for the Helen Keller National Center for Deaf-Blind.

**Education for Economic Security Act** (Public Law 98-377) added new science and mathematics programs for elementary, secondary, and postsecondary education. The new programs include: magnet schools, excellence in education, and equal access.

**Higher Education Act of 1965 Amendments** (Public Law 98-312) this act amended Title III of the Higher Education Act of 1965 by creating a new method of funding the Challenge Grant program. The act also increased the level of authorization for the Office of the Inspector General and extended the Allen J. Ellender Fellowship program through fiscal year 1989.

**Carl D. Perkins Vocational Education Act** (Public Law 98-524) continues Federal assistance for vocational education through fiscal year 1989. The act replaces the Vocational Education Act of 1963. It provides aid to the States to make vocational education programs accessible to all persons, including handicapped and disadvantaged, single parents and homemakers, and the incarcerated.

**Human Services Reauthorization Act** (Public Law 98-558) reauthorized the Head Start and Follow Through programs through fiscal year 1986. It also created a Carl D. Perkins schol-

arship program, a National Talented Teachers Fellowship program, a Federal Merit Scholarships program, and a Leadership in Educational Administration program.

**1985 Montgomery GI Bill—Active Duty** (Public Law 98-525), signed on October 19, 1984, brought about a new GI Bill for individuals who initially entered active military duty on or after July 1, 1985.

**Montgomery GI Bill—Selected Reserve** (Public Law 98-525), signed on October 19, 1984, is an education program for members of the Selected Reserve (which includes the National Guard) who enlist, reenlist, or extend an enlistment after June 30, 1985, for a 6-year period.

**1986 Education of the Deaf Act** (Public Law 99-371) places Gallaudet College and the National Technical Institute for the Deaf on a 5-year reauthorization cycle. Establishes an 18-month Commission to Study Deaf Education.

**Handicapped Children's Protection Act** (Public Law 99-372) allows parents of handicapped children to collect attorney's fees in cases brought under the Education of the Handicapped Act and provides that the Education of the Handicapped Act does not preempt other laws, such as Section 504 of the Rehabilitation Act.

**Reauthorization of the Education of the Handicapped Act Amendments** (Public Law 99-457) reauthorizes for 3 years the discretionary programs under the Education of the Handicapped Act and requires education services for all handicapped 3- to 5-year-olds. Included are programs to provide demonstration projects for severely disabled individuals, research and technology activities, early childhood education, and a new State grant program to provide early intervention services for handicapped children from birth through age 2.

**Reauthorization of the Higher Education Act of 1965** (Public Law 99-498) reauthorizes for 5 years the Higher Education Act of 1965, as amended. Provides increases in maximum Pell Grant and student loan amounts, institutes a new agency to provide college construction funding, cuts incentives to lenders involved in the student aid programs and extends the authorization for the Office of Educational Research and Improvement.

**Reauthorization of the Rehabilitation Act** (Public Law 99-506) authorizes for 5 years programs to provide vocational rehabilitation for disabled persons. Includes increasing the State/Federal match requirements, establishes a new State grant program for supported employment, and sets higher education levels.

**The Drug-Free Schools and Communities Act of 1986** (Public Law 99-570), part of the Anti-Drug Abuse Act of 1986, authorizes funding for fiscal years 1987-89. Establishes programs for drug abuse education and prevention, coordinated with related community efforts and resources, through the use of Federal financial assistance.

**1987 Higher Education Act Amendments of 1987** (Public Law 100-50) makes technical corrections, clarifications, or conforming amendments related to the enactment of the Higher Education Amendments of 1986.

**1988 The Augustus F. Hawkins-Robert T. Stafford Elementary and Secondary School Improvement Amendments of 1988** (Public Law 100-297) reauthorizes through 1993 major elementary and secondary education programs including: Chapter 1, Chapter 2, Bilingual Education, Math-Science Education, Magnet Schools, Impact Aid, Indian Education, Adult Education, and other smaller education programs.

**White House Conference on Libraries** (Public Law 100-381) authorizes a White House Conference on Library and Information Services.

**Library Services and Construction Act** (Public Law 100-569) extends the authorization of Title V and Title VI of the Library Services and Construction Act for 1 year.

**The Handicapped Programs Technical Amendments Act of 1988** (Public Law 100-360) makes certain technical and conforming amendments to the Education of the Handicapped Act and the Rehabilitation Act of 1973.

**Technology-Related Assistance for Individuals with Disabilities Act of 1988** (Public Law 100-407) provides financial assistance to States to develop and implement consumer-responsive Statewide programs of technology-related assistance for persons of all ages with disabilities.

**The Omnibus Trade and Competitiveness Act of 1988** (Public Law 100-418) authorizes new and expanded education programs. Title VI of the Act, Education and Training for American Competitiveness, authorizes new programs in literacy, math-science, foreign language, vocational training, international education, technology training, and technology transfer.

**The Omnibus Drug Abuse Prevention Act of 1988** (Public Law 100-690) authorizes a new teacher training program under the Drug-Free Schools and Communities Act, an early childhood education program to be administered jointly by the Departments of Health and Human Services and Education, and a pilot program for the children of alcoholics.

**Stewart B. McKinney Homeless Assistance Act** (Public Law 100-628) extends for 2 additional years programs providing assistance to the homeless, including literacy training for homeless adults and education for homeless youths.

**Tax Reform Technical Amendments** (Public Law 100-647) authorizes an Education Savings Bond for the purpose of post-secondary educational expenses. The bill grants tax exclusion for interest earned on regular series EE savings bonds.

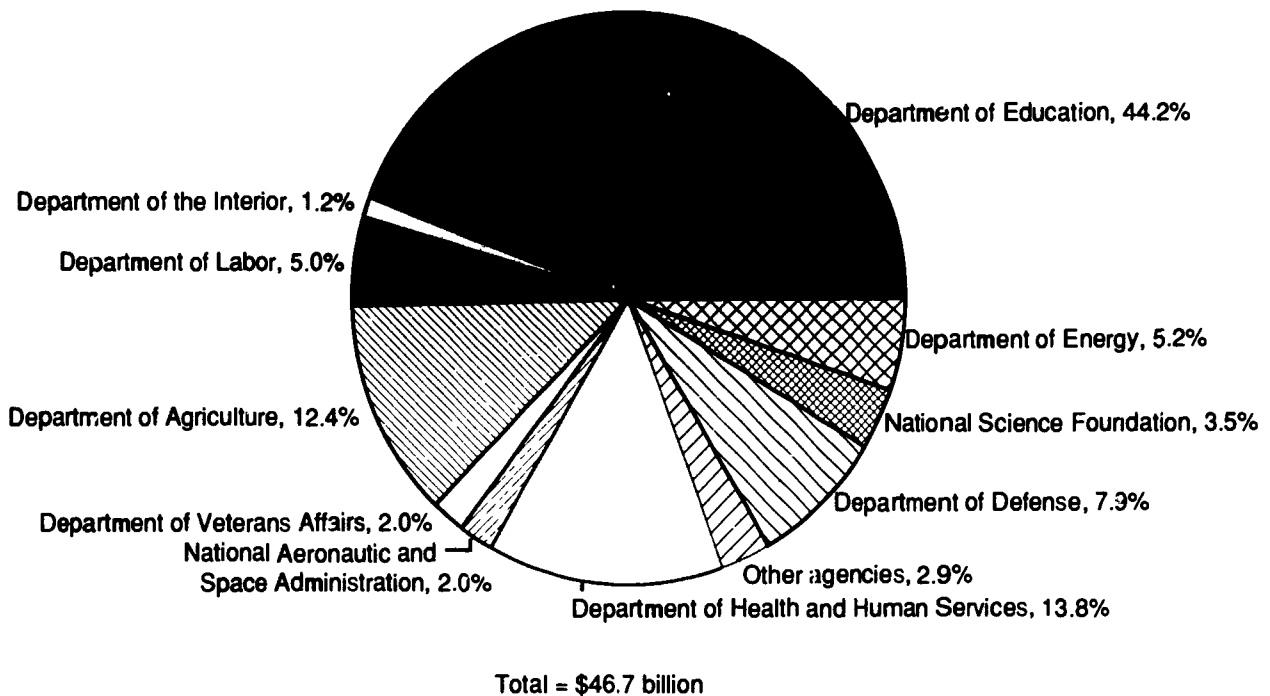
## Highlights

- Trends in Federal funding for education show sizable growth between 1965 and 1989, after adjustment for inflation. The period of particularly strong growth was between 1965 and 1975. During this period, Federal funds for elementary and secondary education rose by 189 percent and Federal funds for higher education rose by 230 percent, but research funding fell by about 1 percent. Between 1975 and 1980, Federal funding remained relatively stable, with some increase in research funding. From fiscal year 1980 to 1989, funds for elementary and secondary education declined by 17 percent and higher education fell by 27 percent. In contrast, research funding grew by 36 per-

cent, and funds for other programs increased by nearly 38 percent. (Table 302)

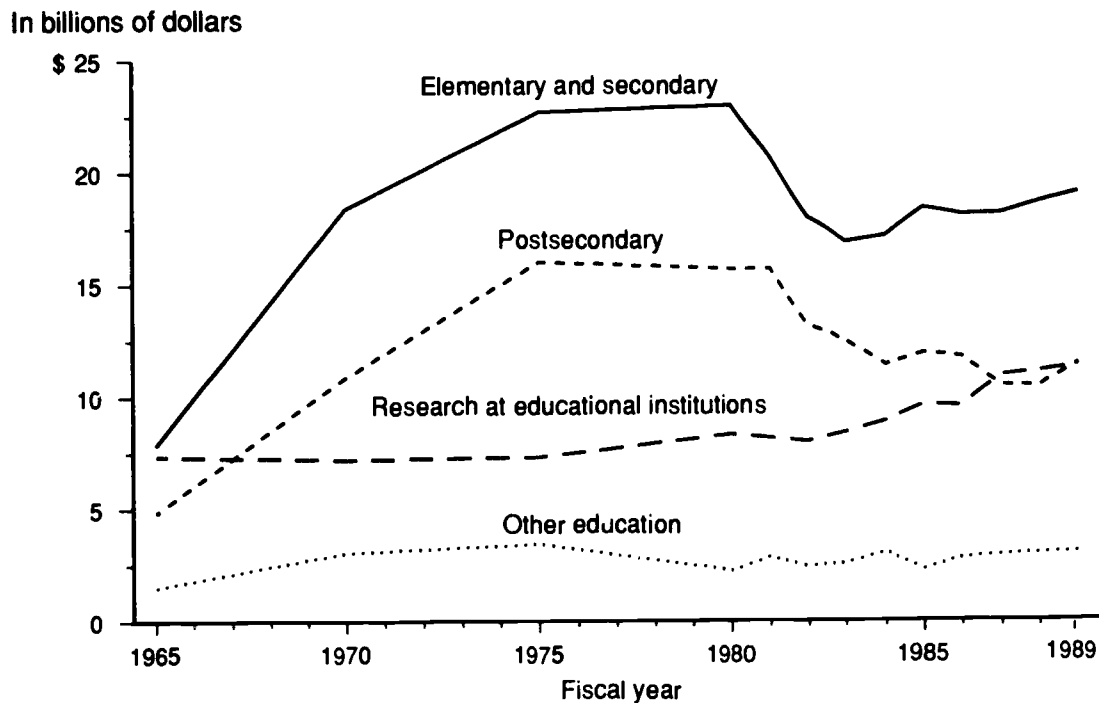
- According to fiscal year 1989 estimates, about 44 percent of the \$46.7 billion dollars spent by the Federal Government on education came from the Department of Education. Large amounts of money also came from the Department of Health and Human Services (\$6.4 billion), the Department of Agriculture (\$5.8 billion), the Department of Defense (\$3.7 billion), and the Department of Energy (\$2.4 billion). (Table 303)
- In fiscal year 1989, Federal program funds for elementary/secondary education amounted to \$19.8 billion; for higher education, \$11.9 billion; for research at universities and related institutions, \$11.8 billion; and for other programs, \$3.2 billion. (Table 304)
- Between fiscal years 1980 and 1989, Department of Education obligations rose by about 14 percent, after adjustment for inflation. Funds for student financial assistance increased to \$10.5 billion in 1989, a rise of 37 percent. Funds for elementary and secondary education stood at an estimated \$6.1 billion in 1989, a decline of about 3 percent since 1980. Funds for the handicapped increased by about 80 percent, to \$4.2 billion, while funds for vocational education declined nearly 35 percent, after adjustment for inflation. (Table 305)
- Of the \$20.6 billion spent by the Department of Education in 1989, about \$7.2 billion went to school districts, \$3.5 billion went to institutions of higher education, \$3.4 billion went to college students, and \$2.5 billion to State education agencies. A large portion of the remaining \$4.1 billion went to banks to subsidize student loans. (Table 306)
- Total Federal support for education was \$68.4 billion in fiscal year 1988, down 11 percent from fiscal year 1980, after adjustment for inflation. From fiscal year 1980 to fiscal year 1988, Federal program funds fell by 12 percent; federally supported student aid funds rose 23 percent; and estimated Federal tax expenditures for education declined by 19 percent. (Table 302)

**Figure 19.—Federal funds for education, by agency:  
Fiscal year 1989**



SOURCE: U.S. Office of Management and Budget, Budget of the U.S. Government, Appendix, Fiscal year 1990; and National Science Foundation, Federal Funds for Research and Development, Fiscal years 1987, 1988, and 1989.

**Figure 20.—Federal funds for education, by level:  
1965 to 1989  
[In constant FY 1989 dollars]**



SOURCE: U.S. Office of Management and Budget, Budget of the U.S. Government, Appendix, fiscal years 1967 to 1990, and Historical Tables, FY 1990; and National Science Foundation, Federal Funds for Research and Development, fiscal years 1965 to 1989; and unpublished data.

Table 302.—Education funds generated by Federal and federally supported programs, by category: Fiscal years 1965 to 1989

[In millions of dollars]

Fiscal Year	Total education funds	Federal education funds <sup>1</sup>					Nonfederal funds generated by Federal program <sup>2</sup>					Estimated Federal tax expenditures for education <sup>7</sup>
		Total	Elementary and secondary	Post-secondary	Other education	Research at educational institutions	Total	Guaranteed student loans <sup>3</sup>	Direct loans <sup>4</sup>	State student incentive grants <sup>5</sup>	Work-study programs <sup>6</sup>	
1	2	3	4	5	6	7	8	9	10	11	12	13
Current dollars												
1965	—	\$5,331.0	\$1,942.6	\$1,187.5	\$374.7	\$1,816.3	(\$2.5)	—	\$19.8	—	(\$22.3)	—
1970	—	12,526.5	5,830.4	3,447.7	984.7	2,263.6	903.8	\$811.0	45.0	—	47.8	—
1975	—	23,133.2	10,617.2	7,489.2	1,608.5	3,418.4	1,323.6	1,298.0	130.6	\$20.0	(125.0)	—
1980	\$53,406.5	34,317.1	16,027.7	10,939.5	1,548.7	5,801.2	5,419.4	4,840.0	392.7	76.5	110.2	\$13,670.0
1981	61,080.1	36,446.2	15,903.7	12,084.8	2,182.2	6,275.5	6,253.9	7,824.0	279.4	76.5	74.0	16,380.0
1982	57,298.8	34,304.7	14,839.2	10,872.8	1,995.1	6,597.4	6,814.1	6,238.0	401.8	72.0	102.3	16,180.0
1983	59,068.9	34,719.2	14,527.8	10,753.4	2,204.1	7,233.8	7,624.7	6,928.0	536.2	60.0	100.5	16,725.0
1984	61,845.5	36,104.5	15,292.4	10,163.2	2,710.4	7,938.6	8,651.0	7,916.0	563.0	78.0	96.0	17,090.0
1985	66,544.7	38,809.4	16,900.8	10,956.5	2,107.6	8,844.6	9,705.3	8,913.0	613.8	76.0	102.5	18,030.0
1986	68,611.2	39,745.0	17,049.9	11,065.6	2,620.0	9,009.4	9,396.2	8,570.0	655.4	72.7	98.1	19,470.0
1987	70,294.1	40,969.0	17,533.3	10,077.7	2,819.4	10,538.6	10,145.1	9,266.0	700.6	76.0	102.5	19,180.0
1988	68,407.6	43,080.6	18,604.6	10,419.1	2,980.2	11,076.7	9,547.0	8,708.0	648.0	73.0	118.0	15,780.0
1989 <sup>a</sup>	—	46,709.9	19,843.1	11,904.2	3,179.3	11,763.4	8,395.0	7,461.0	692.0	72.0	170.0	—
Constant fiscal year 1989 dollars <sup>a</sup>												
1965	—	22,420.2	8,169.7	5,036.3	1,575.6	7,638.5	(10.5)	—	83.3	—	(93.8)	—
1970	—	41,091.9	19,126.2	11,309.8	3,164.7	7,491.2	2,964.8	2,660.4	147.6	—	156.8	—
1975	—	51,398.1	23,589.6	16,639.6	3,573.8	7,595.0	2,940.8	2,883.9	290.2	44.4	(277.7)	—
1980	79,607.5	51,152.9	23,890.8	16,306.4	2,308.5	8,647.2	8,078.1	7,214.5	585.4	114.0	164.3	20,376.4
1981	82,443.4	49,193.6	21,466.2	16,311.6	2,945.4	8,470.4	11,140.8	10,560.5	377.1	103.3	99.9	22,109.1
1982	72,196.5	43,223.9	18,697.4	13,699.7	2,513.8	8,312.7	8,585.8	7,859.9	506.3	90.7	128.9	20,386.8
1983	71,358.4	41,942.7	17,550.4	12,990.7	2,662.7	8,738.8	9,211.0	8,369.4	647.8	72.5	121.4	20,204.7
1984	72,099.7	42,090.7	17,827.9	11,848.3	3,159.8	9,254.8	10,085.4	9,228.5	656.3	88.6	111.9	19,923.6
1985	75,279.5	43,903.6	19,119.2	12,394.6	2,384.2	10,005.5	10,979.2	10,082.9	694.4	86.0	116.0	20,396.7
1986	75,733.7	43,870.9	18,819.9	12,214.4	2,892.0	9,944.6	10,371.6	9,459.7	723.4	80.2	108.3	21,491.2
1987	75,681.9	44,109.1	18,877.1	10,850.1	3,035.5	11,346.4	10,922.7	9,976.2	754.3	81.8	110.4	20,650.1
1988	71,216.7	44,849.6	19,268.8	10,847.0	3,102.5	11,531.6	9,939.0	9,065.6	674.6	76.0	122.8	16,428.0
1989 <sup>a</sup>	—	46,709.9	19,843.1	11,904.2	3,179.3	11,763.4	8,395.0	7,461.0	692.0	72.0	170.0	—

<sup>1</sup> On-budget support includes Federal funds for education programs tied to appropriations<sup>2</sup> The primary program in off-budget spending is the federally sponsored Student Loan Marketing Association, whose outlays are excluded from on-budget totals by law even though they add to the Federal Government deficit that has to be financed by taxes, borrowing, or other means. Additional off-budget support comes from college-loan revolving funds and from capital supplied by financial institutions for college student loans covered by Federal guarantees, which create a contingent liability<sup>3</sup> New student loans guaranteed by the Federal Government<sup>4</sup> Student loans created with revolving funds derived from repayments of outstanding loans<sup>5</sup> State matching grants<sup>6</sup> Estimated employer contributions to student earnings (amount of aid for students less appropriations)<sup>7</sup> Tax expenditures are the difference between current Federal tax receipts and what these receipts would be without existing education deductions to income allowed by Federal tax provisions<sup>a</sup> Estimated<sup>a</sup> Data adjusted by the Composite Deflator prepared by the Office of Management and Budget  
—Data not available

NOTE—To the extent possible, Federal education funds data represent outlays rather than obligations. Negative numbers are indicated in parentheses. Because of rounding, details may not add to totals. Data have been revised from previously published figures.

SOURCE: U.S. Department of Education, National Center for Education Statistics, compiled from data appearing in U.S. Office of Management and Budget, *Budget of the U.S. Government, Appendix*, fiscal years 1967 to 1990 and *Historical Tables, Budget of the United States Government*, National Science Foundation, *Federal Funds for Research and Development*, fiscal years 1965 to 1989, "Federal Tax Expenditures, FY 1980 to FY 1984" and "Federal Tax Expenditures, FY 1984 to FY 1988," by Stephen M. Barro, prepared for the National Center for Education Statistics, and unpublished data. (This table was prepared May 1989.)

Table 303.—Federal funds for education and related programs, by agency: Fiscal years 1965 to 1989

[in thousands of dollars]

Agency	1965	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Total</b> .....	<b>\$6,331,016</b>	<b>\$12,526,499</b>	<b>\$23,133,209</b>	<b>\$34,317,114</b>	<b>\$36,446,320</b>	<b>\$34,304,980</b>	<b>\$24,719,162</b>	<b>\$36,104,529</b>	<b>\$36,906,409</b>	<b>\$36,744,958</b>	<b>\$40,988,970</b>	<b>\$43,080,553</b>	<b>\$46,708,928</b>
Department of Education.....	1,000,567	4,625,224	7,350,355	13,137,785	15,061,802	14,109,272	14,585,825	15,534,737	16,701,065	17,740,051	16,879,827	18,326,916	20,833,914
Department of Agriculture.....	786,627	960,910	2,219,352	4,562,467	4,552,071	4,107,473	4,340,669	4,616,372	4,782,274	5,041,317	5,189,779	5,482,414	5,811,289
Department of Commerce.....	9,347	13,990	36,967	135,561	61,699	60,150	55,990	55,190	55,114	64,613	38,896	38,743	15,480
Department of Defense.....	587,412	821,368	1,009,229	1,560,301	1,795,042	2,027,256	2,487,597	2,625,148	3,119,213	3,354,586	3,695,617	3,366,810	3,677,512
Department of Energy.....	442,434	551,527	764,676	1,605,558	1,798,314	1,751,903	1,833,068	2,042,661	2,247,822	2,181,391	2,256,799	2,366,037	2,443,244
Department of Health and Human Services.....	1,027,537	1,796,854	3,520,350	5,437,542	5,979,973	5,453,996	4,804,004	4,735,554	5,104,429	5,098,910	5,682,270	6,233,620	6,424,735
Department of Housing and Urban Development.....	221,256	114,709	(52,766)	5,314	4,806	969	2,158	2,000	436	342	463	455	556
Department of the Interior.....	170,088	190,975	300,191	440,547	424,588	476,030	484,314	576,779	549,479	454,273	485,022	527,657	547,013
Department of Justice.....	10,252	15,728	61,542	60,721	59,310	57,890	68,700	62,282	66,602	72,191	79,815	83,477	86,091
Department of Labor.....	230,041	424,494	1,103,935	1,662,738	2,129,664	1,799,315	1,833,392	1,755,839	1,946,685	1,978,980	2,258,631	2,313,773	2,322,761
Department of State.....	64,200	58,742	89,433	25,188	27,239	21,181	23,813	23,066	23,401	24,268	23,820	36,599	43,231
Department of Transportation.....	—	27,534	52,290	54,712	80,926	75,404	82,139	83,931	62,035	66,214	74,360	78,031	98,089
Department of the Treasury.....	8,240	16	1,118,840	1,247,463	267,466	266,960	287,300	287,905	290,276	41,257	19,279	32,958	45,974
Department of Veterans Affairs.....	97,237	1,032,916	4,402,212	2,351,233	2,306,695	1,976,672	1,672,348	1,445,049	1,269,649	1,055,948	1,002,109	966,549	927,362
<b>Other agencies and programs:</b>													
ACTIV programs.....	—	—	7,061	2,833	2,752	1,720	1,830	4,975	1,781	1,368	3,368	4,110	4,190
Agency for International Development.....	63,329	68,034	78,896	178,770	155,542	205,177	173,629	236,963	198,907	198,929	240,827	234,466	220,995
Appalachian Regional Commission.....	—	37,838	45,766	19,032	16,250	7,436	2,855	4,919	4,205	6,582	3,240	3,490	3,600
Estimated education share of Federal aid to the District of Columbia.....	11,350	33,019	55,467	81,847	81,473	91,765	97,526	97,395	107,340	101,844	126,942	122,366	119,891
Environmental Protection Agency.....	—	19,446	33,675	41,083	52,210	67,798	43,557	43,700	60,521	69,716	67,465	60,688	62,898
Federal Emergency Management Agency.....	—	290	290	1,946	2,201	2,695	1,145	321	1,828	290	290	290	290
General Services Administration.....	4,013	14,775	22,532	34,800	38,400	37,300	44,200	50,894	—	—	—	—	—
Harry S Truman scholarship fund.....	—	—	—	(1,895)	699	1,627	1,795	1,929	1,332	2,441	2,717	2,815	2,999
James Madison Memorial Fellowship Foundation.....	—	—	—	—	—	—	—	—	—	—	—	13,200	10,125
Japanese-United States Friendship Commission.....	—	—	—	2,294	(44)	1,807	2,364	1,611	2,236	235	3,225	2,274	3,015
Library of Congress.....	15,111	29,478	63,766	151,871	144,131	144,911	154,198	164,080	169,310	166,130	160,835	160,505	189,101
National Aeronautics and Space Administration.....	206,786	258,366	197,901	255,511	251,184	369,105	367,763	354,526	487,624	490,948	487,391	682,229	930,395
National Archives and Records Administration.....	—	—	—	—	—	—	—	—	52,118	55,252	59,521	65,153	75,687
National Commission on Libraries and Information Science.....	—	—	449	2,090	741	638	661	733	723	781	512	522	1,018
National Endowment for the Arts.....	—	340	4,754	5,220	5,302	323	4,701	5,197	5,536	5,188	5,394	5,550	5,750
National Endowment for the Humanities.....	—	8,459	63,955	142,586	144,366	115,816	123,315	127,571	125,671	121,125	124,407	125,230	136,980
National Science Foundation.....	181,216	295,628	535,294	808,392	839,554	654,665	907,917	1,035,746	1,147,115	1,147,273	1,270,415	1,310,630	1,616,421
Nuclear Regulatory Commission.....	—	0	7,093	32,590	41,309	36,150	37,987	36,400	30,261	27,472	29,176	25,680	29,603
Office of Economic Opportunity.....	189,871	1,092,410	16,619	—	—	—	—	—	—	—	—	—	—
Smithsonian Institution.....	2,233	2,461	5,509	5,150	4,853	5,215	6,773	5,758	7,886	6,191	6,545	5,393	7,266
United States Arms Control Agency.....	—	100	—	661	367	184	157	—	395	276	3,244	2,815	2,315
United States Information Agency.....	7,512	6,423	9,405	66,210	73,596	77,165	86,556	83,766	143,007	170,514	179,852	189,464	200,279
United States Institute of Peace.....	—	—	—	—	—	—	—	—	—	230	4,033	3,476	7,730
Other agencies.....	10,055	1,421	5,913	990	1,163	40	296	1,300	432	715	1,666	2,168	2,109

<sup>1</sup> Estimated.

—Data not available or not applicable

NOTE.—To the extent possible, amounts reported represent outlays, rather than obligations. Negative numbers are indicated in parentheses. Data have been revised from previously published figures

SOURCE: U.S. Department of Education, National Center for Education Statistics, compiled from data appearing in U.S. Office of Management and Budget, *Budget of the U.S. Government, Appendix*, fiscal years 1967 to 1980, National Science Foundation, *Federal Funds for Research and Development*, fiscal years 1965 to 1989, and unpublished data obtained from various Federal agencies. (This table was prepared May 1989.)



Table 304.—Federal funds for education and related programs, by level of education or activity, agency, and program: Fiscal years 1965 to 1989

[In thousands of dollars]

Level, agency, and program	1965	1970	1975	1980	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
<b>Total, all programs</b> .....	<b>\$5,331,016</b>	<b>\$12,526,489</b>	<b>\$23,133,299</b>	<b>\$34,317,114</b>	<b>\$38,909,409</b>	<b>\$39,744,959</b>	<b>\$40,968,670</b>	<b>\$43,080,553</b>	<b>\$46,709,926</b>
<b>Elementary/secondary education programs</b> .....	<b>\$1,842,577</b>	<b>\$5,830,442</b>	<b>\$10,617,195</b>	<b>\$16,027,686</b>	<b>\$18,900,794</b>	<b>\$17,049,940</b>	<b>\$17,533,254</b>	<b>\$18,604,902</b>	<b>\$19,843,080</b>
Department of Education <sup>2</sup> .....	567,343	2,719,204	4,132,742	6,629,065	7,296,702	7,551,973	7,554,487	8,096,436	8,853,527
Grants for the disadvantaged .....	—	1,739,014	1,874,353	3,204,664	4,206,754	3,404,667	3,209,923	4,027,559	4,226,379
Impact aid program .....	349,671	656,372	818,711	690,170	647,402	664,311	704,197	707,539	721,432
Special programs .....	72,298	268,304	700,470	788,918	526,401	618,850	689,478	443,468	982,758
Indian education .....	—	—	40,036	93,365	62,328	62,067	39,638	18,339	63,774
Bilingual education .....	—	21,250	92,693	169,540	157,539	119,601	141,483	159,748	159,392
Education for the handicapped .....	13,849	79,090	151,244	621,777	1,017,964	1,627,994	1,339,241	1,465,965	1,871,745
Vocational and adult education .....	131,525	335,174	655,235	860,981	658,314	1,034,563	1,230,527	1,275,800	628,047
Department of Agriculture .....	623,014	760,477	1,884,345	4,064,497	4,134,906	4,426,143	4,552,083	4,806,766	5,171,618
Child nutrition programs .....	178,580	299,131	1,452,267	3,377,058	3,664,561	3,619,734	4,044,830	4,266,242	4,628,715
Agricultural Marketing Service—commodities <sup>3</sup> .....	340,073	341,597	248,839	388,000	336,502	344,350	350,118	349,870	350,900
Special milk program .....	86,609	83,800	122,858	159,293	15,993	15,767	15,446	16,342	20,043
Estimated education share of Forest Service permanent appropriations .....	17,752	35,949	60,381	140,148	117,850	248,792	151,699	152,512	171,960
Department of Commerce .....	—	—	—	54,818	—	—	—	—	—
Local public works program—school facilities <sup>4</sup> .....	—	—	—	54,818	—	—	—	—	—
Department of Defense .....	73,000	143,100	264,500	370,846	831,625	903,493	861,393	988,265	1,063,810
Junior ROTC .....	—	12,100	12,500	32,000	55,800	58,600	57,440	45,300	47,200
Overseas dependents schools .....	73,000	131,000	252,000	338,846	613,437	691,437	664,941	773,810	835,842
Section VI schools <sup>5</sup> .....	—	—	—	—	162,588	153,456	139,012	169,155	160,766
Department of Energy <sup>6</sup> .....	100	200	300	77,633	23,031	21,385	12,061	12,931	13,050
Energy conservation for school buildings <sup>7</sup> .....	—	—	—	77,240	22,731	21,000	11,781	12,811	12,700
Pre-engineering program .....	100	200	300	393	300	385	300	320	350
Department of Health and Human Services <sup>8</sup> .....	79,999	167,333	683,885	1,077,000	1,531,059	1,455,315	1,555,542	1,651,324	1,675,000
Head Start <sup>9</sup> .....	—	—	403,900	735,000	1,075,059	1,040,315	1,130,542	1,206,324	1,235,000
Social security student benefits <sup>10</sup> .....	79,999	167,333	279,985	342,000	456,000	415,000	425,000	445,000	440,000
Department of the Interior .....	130,096	140,705	220,392	318,170	389,810	308,089	344,183	379,645	409,009
Mineral Leasing Act and other funds: .....	—	—	—	—	—	—	—	—	—
Payments to States—estimated education share .....	11,075	12,294	27,389	62,636	127,369	98,606	87,437	92,227	104,420
Payments to counties—estimated education share .....	10,731	18,359	29,494	48,953	59,016	5,615	36,455	34,922	42,891
Indian Education: .....	—	—	—	—	—	—	—	—	—
Bureau of Indian Affairs schools .....	92,603	95,850	141,056	178,112	177,265	181,235	195,994	231,512	238,106
Johnson-O'Malley assistance <sup>11</sup> .....	15,534	18,080	22,251	26,081	25,675	22,053	22,624	20,400	23,000
Education expenses for children of employees, Yellowstone National Park .....	153	122	202	388	485	580	1,473	584	590
Department of Justice .....	6,402	8,237	9,822	23,890	36,117	39,684	44,531	50,679	55,734
Vocational training expenses for prisoners in Federal prison .....	1,466	2,720	3,039	4,966	8,292	8,744	8,744	8,679	7,051
Inmate programs <sup>12</sup> .....	4,936	5,517	6,783	18,924	27,825	30,940	35,787	42,000	48,683
Department of Labor .....	230,041	420,927	1,097,811	1,849,800	1,945,268	1,976,619	2,258,199	2,309,330	2,318,330
Job Corps <sup>13</sup> .....	—	—	175,000	469,800	604,748	832,619	678,599	689,000	698,000
Training programs—estimated funds for education programs <sup>14</sup> .....	230,041	420,927	922,811	1,380,000	1,340,520	1,344,000	1,579,600	1,620,330	1,620,330
Department of Transportation <sup>15</sup> .....	—	45	50	60	60	60	55	50	60
Tuition assistance for educational accreditation—Coast Guard personnel <sup>16</sup> .....	—	45	50	60	60	60	55	50	60
Department of the Treasury .....	32	—	847,139	935,903	273,728	25,085	—	—	—
Estimated education share of general revenue sharing— <sup>17</sup> .....	—	—	—	—	—	—	—	—	—
State <sup>18</sup> .....	—	—	475,224	525,019	—	—	—	—	—
Local .....	—	—	371,915	410,884	273,728	25,085	—	—	—
Tuition assistance for educational accreditation—Coast Guard personnel <sup>18</sup> .....	32	—	—	—	—	—	—	—	—
Department of Veterans Affairs <sup>19</sup> .....	41,250	338,910	1,371,500	545,766	344,756	251,782	235,297	196,159	174,702
Noncollegiate and job training programs <sup>20</sup> .....	14,550	281,640	1,249,410	439,993	224,035	137,805	119,702	76,387	61,148
Vocational rehabilitation for disabled veterans <sup>21</sup> .....	17,400	41,700	73,100	87,980	107,480	103,159	105,947	112,058	107,010
Dependents' education <sup>22</sup> .....	9,300	15,570	48,990	17,813	13,243	10,818	9,648	7,734	8,548
Other agencies: .....	—	—	—	—	—	—	—	—	—
Appalachian Regional Commission <sup>23</sup> .....	—	33,181	41,687	9,157	4,092	4,832	2,870	2,440	2,600
National Endowment for the Arts <sup>24</sup> .....	—	—	3,686	4,989	4,399	4,060	4,099	4,350	4,660

**Table 304.—Federal funds for education and related programs, by level of education or activity, agency, and program: Fiscal years 1965 to 1989—Continued**

[In thousands of dollars]

Level, agency, and program	1965	1970	1975	1980	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
Arts in education . . . . .	—	—	3,686	4,989	4,399	4,060	4,099	4,350	4,650
National Endowment for the Humanities <sup>26</sup> . . . . .	—	20	149	330	321	460	352	826	830
Office of Economic Opportunity <sup>26</sup>	182,793	1,072,375	18,819	—	—	—	—	—	—
Head Start <sup>27</sup> . . . . .	95,400	325,700	—	—	—	—	—	—	—
Other elementary and secondary programs <sup>28</sup> . . . . .	20,000	42,809	16,812	—	—	—	—	—	—
Job Corps <sup>28</sup> . . . . .	34,000	141,000	—	—	—	—	—	—	—
Youth Corps—and other training programs <sup>29</sup> . . . . .	31,000	553,368	7	—	—	—	—	—	—
Volunteers in Service to America (VISTA) <sup>31</sup> . . . . .	1,393	6,498	—	—	—	—	—	—	—
Other programs:									
Estimated education share of Federal aid to the District of Columbia . . . . .	8,507	25,748	42,588	65,714	84,918	79,160	98,092	103,400	100,160
<b>Higher education programs . . . . .</b>	<b>1,187,511</b>	<b>3,447,897</b>	<b>7,488,192</b>	<b>10,939,484</b>	<b>10,856,452</b>	<b>11,065,648</b>	<b>13,077,703</b>	<b>10,419,100</b>	<b>11,904,175</b>
Department of Education <sup>2</sup> . . . . .	237,955	1,187,962	2,089,184	5,682,242	8,202,499	8,444,924	7,438,674	8,247,103	9,622,943
Student financial assistance <sup>32</sup> . . . . .	—	—	—	3,682,789	4,162,695	4,585,210	4,779,817	5,219,916	5,791,993
Guaranteed student loans <sup>32</sup> . . . . .	—	2,323	111,087	1,407,977	3,534,795	3,322,734	2,548,179	2,779,304	2,936,314
Higher education . . . . .	218,264	1,029,131	1,838,066	399,787	404,511	402,035	419,105	411,775	604,654
Facilities—loans and insurance <sup>33</sup> . . . . .	3,588	114,199	16,292	(19,031)	5,307	1,920	(84,866)	(43,282)	(47,905)
College housing loans <sup>34</sup> . . . . .	—	—	—	14,082	(164,061)	(73,992)	(556,178)	(372,778)	26,971
Educational activities overseas . . . . .	129	774	1,881	3,581	1,838	(1,413)	(8)	233	506
Gallaudet College and Howard University . . . . .	15,974	38,559	111,971	178,829	229,938	171,729	299,085	224,781	270,118
National Technical Institute for the Deaf <sup>35</sup> . . . . .	—	2,976	9,887	16,248	27,476	38,701	35,540	27,154	38,292
Department of Agriculture . . . . .	—	—	6,450	10,453	17,741	16,877	18,877	27,799	27,799
Agriculture Extension Service, Second Morrill Act payments to agricultural and mechanical colleges and Tuskegee Institute <sup>36</sup> . . . . .	—	—	8,450	10,453	17,741	16,877	16,877	27,799	27,799
Department of Commerce . . . . .	5,081	8,277	14,973	29,971	2,163	2,207	2,061	2,420	2,420
See Grant Program <sup>37</sup> . . . . .	—	—	1,886	3,123	2,163	2,207	2,061	2,420	2,420
Merchant Marine Academy <sup>38</sup> . . . . .	3,570	6,160	10,152	14,809	—	—	—	—	—
State marine schools <sup>38</sup> . . . . .	1,511	2,117	2,935	12,039	—	—	—	—	—
Department of Defense <sup>38</sup> . . . . .	77,500	322,100	379,800	545,000	1,041,700	1,068,300	1,079,768	573,400	607,800
Tuition assistance for military personnel . . . . .	—	57,500	86,800	( <sup>40</sup> )	77,100	89,700	111,368	134,500	144,400
Service academies <sup>41</sup> . . . . .	77,500	78,700	86,200	106,100	196,400	214,500	223,700	109,100	114,500
Senior ROTC . . . . .	—	108,100	116,500	( <sup>40</sup> )	354,000	362,900	382,400	179,200	197,200
Professional development education <sup>42</sup> . . . . .	—	77,800	90,300	( <sup>40</sup> )	414,200	402,100	362,260	150,600	151,700
Department of Energy <sup>9</sup> . . . . .	3,000	3,000	3,000	57,701	19,475	18,051	19,225	22,609	23,955
University laboratory cooperative program . . . . .	3,000	3,000	3,000	2,800	6,500	5,714	9,859	13,571	5,443
Teacher development projects <sup>43</sup> . . . . .	—	—	—	1,400	—	—	—	—	—
Graduate traineeship programs <sup>44</sup> . . . . .	—	—	—	—	—	52	(4)	(26)	(26)
Energy conservation for buildings—higher education <sup>7</sup> . . . . .	—	—	—	53,501	12,705	11,815	8,500	7,746	7,100
Minority honors vocational training <sup>45</sup> . . . . .	—	—	—	—	150	230	390	598	598
Honors research program <sup>46</sup> . . . . .	—	—	—	—	120	240	480	720	840
Department of Health and Human Services <sup>6</sup> . . . . .	469,223	981,483	1,531,775	2,235,670	298,161	274,581	283,551	271,497	280,311
Health professions training programs . . . . .	139,795	353,029	599,350	480,736	212,200	198,004	202,710	210,404	210,957
Indian health manpower <sup>48</sup> . . . . .	—	—	—	7,187	5,577	4,750	7,018	5,998	5,977
National Health Service Corps scholarships . . . . .	—	—	1,206	70,667	2,268	2,130	2,277	4,100	7,900
National Institute of Occupational Safety and Health training grants . . . . .	4,327	8,088	7,182	12,899	8,760	8,383	9,900	9,718	10,095
Alcohol, drug abuse, and mental health training programs . . . . .	85,101	118,366	83,727	122,103	43,617	46,216	61,075	40,726	44,854
Health teaching facilities <sup>47</sup> . . . . .	—	—	353	3,078	739	15,098	571	551	528
Social security postsecondary students' benefits <sup>48</sup> . . . . .	240,000	502,000	839,957	1,559,000	25,000	—	—	—	—
U.S. Department of Housing and Urban Development . . . . .	220,744	114,199	(55,418)	—	—	—	—	—	—
College housing loans <sup>34</sup> . . . . .	220,744	114,199	(55,418)	—	—	—	—	—	—
Department of the Interior . . . . .	30,153	31,749	50,844	80,202	125,247	109,744	108,386	113,661	117,990
Shared revenues, Mineral Leasing Act and other receipts—estimated education share . . . . .	8,260	8,949	15,480	35,403	71,991	55,733	49,421	52,117	59,020
Indian programs:									
Continuing education <sup>49</sup> . . . . .	8,993	9,380	13,311	18,909	24,338	24,167	25,986	30,822	28,594
Higher education scholarships . . . . .	14,900	15,420	22,053	27,890	28,918	29,844	32,979	30,722	30,378
Department of State . . . . .	53,420	30,850	50,347	—	—	—	—	4,120	7,350

**Table 304.—Federal funds for education and related programs, by level of education or activity, agency, and program: Fiscal years 1965 to 1989—Continued**

[In thousands of dollars]

Level, agency, and program	1965	1970	1975	1980	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
Educational Exchange <sup>80</sup> .....	53,420	30,850	50,347	—	—	—	—	—	—
Mutual educational and cultural exchange activities.....	47,025	30,454	50,300	—	—	—	—	—	—
International educational exchange activities.....	6,395	396	47	—	—	—	—	—	—
Soviet-East European Research and Training <sup>81</sup> .....	—	—	—	—	—	—	—	4,120	7,350
Department of Transportation <sup>15</sup> .....	—	11,197	11,885	12,530	55,589	44,074	47,226	44,998	64,761
Merchant Marine Academy <sup>82</sup> .....	—	—	—	—	18,898	18,505	20,476	20,579	20,567
State marine schools <sup>82</sup> .....	—	—	—	—	19,777	8,363	12,073	7,961	27,576
Coast Guard Academy <sup>18</sup> .....	—	9,342	9,780	10,000	11,857	11,645	10,086	10,810	10,675
Postgraduate training for Coast Guard officers <sup>83</sup> .....	—	1,655	1,855	2,230	3,499	3,607	3,978	5,084	5,477
Tuition assistance to Coast Guard military personnel <sup>18</sup> .....	—	200	250	300	538	554	613	564	466
Department of the Treasury.....	8,208	—	268,305	296,750	—	—	—	—	—
General revenue sharing—estimated State share to higher education <sup>17,16</sup> .....	—	—	268,805	296,750	—	—	—	—	—
Coast Guard Academy <sup>18</sup> .....	6,615	—	—	—	—	—	—	—	—
Postgraduate training for Coast Guard officers <sup>83</sup> .....	1,293	—	—	—	—	—	—	—	—
Tuition assistance to Coast Guard military personnel <sup>18</sup> .....	100	—	—	—	—	—	—	—	—
Department of Veterans Affairs <sup>19</sup> .....	55,650	693,490	3,029,600	1,803,847	944,091	803,166	764,561	768,080	750,360
Vietnam-era veterans <sup>84</sup> .....	33,950	636,260	2,640,600	1,579,974	694,217	514,476	411,967	345,242	253,330
College student support.....	—	—	—	1,580,081	679,953	504,290	403,527	337,568	246,583
Work-study.....	—	—	—	19,893	14,264	10,186	8,440	7,674	6,747
Service persons college support <sup>85</sup> .....	—	18,900	74,690	46,617	35,630	30,707	28,410	33,412	30,799
Post-Vietnam veterans <sup>85</sup> .....	—	—	—	922	82,554	121,929	171,752	203,262	210,277
All-volunteer-forces educational assistance <sup>87</sup> .....	—	—	—	—	196	24,171	45,688	73,731	151,091
Veterans <sup>88</sup> .....	—	—	—	—	—	2	107	2,398	46,091
Reservists <sup>89</sup> .....	—	—	—	—	196	24,169	45,581	65,345	105,000
Veteran dependents' education <sup>89</sup> .....	21,700	36,330	114,310	176,334	131,494	111,883	106,744	100,813	92,870
Payments to State education agencies <sup>91</sup> .....	—	—	—	—	—	—	—	11,500	12,000
Other agencies:									
Appalachian Regional Commission <sup>22</sup> .....	—	4,105	2,545	1,751	0	—	278	1,050	1,000
National Endowment for the Humanities <sup>23</sup> .....	—	3,349	25,320	56,451	49,098	42,346	48,679	47,601	53,270
National Science Foundation.....	27,170	42,000	60,283	64,583	80,069	74,151	85,494	97,466	135,393
Science and engineering education programs.....	27,170	37,000	60,283	64,583	80,069	74,151	85,494	97,466	135,393
See Grant Program <sup>27</sup> .....	—	5,000	—	—	—	—	—	—	—
United States Information Agency <sup>24</sup> .....	7,512	8,423	9,405	51,095	124,041	148,483	162,896	166,705	180,279
Educational and cultural affairs.....	—	—	—	49,546	21,079	23,008	24,312	29,724	29,937
Educational and cultural exchange programs <sup>83</sup> .....	—	—	—	—	101,529	125,246	138,039	136,646	149,838
Educational exchange activities, international.....	—	—	—	1,549	1,433	229	545	335	504
Information center and library activities <sup>84</sup> .....	7,512	8,423	9,405	—	—	—	—	—	—
Other programs:									
Estimated education share of Federal aid to the District of Columbia.....	1,895	5,513	10,564	13,143	15,266	14,351	17,310	14,566	15,400
Harry S Truman scholarship fund <sup>86</sup> .....	—	—	—	(1,895)	1,332	2,441	2,717	2,815	2,999
James Madison Memorial Fellowship Foundation <sup>86</sup> .....	—	—	—	—	—	—	—	13,200	10,125
<b>Other education programs.....</b>	<b>374,662</b>	<b>964,718</b>	<b>1,608,478</b>	<b>1,548,730</b>	<b>2,107,588</b>	<b>2,620,021</b>	<b>2,819,407</b>	<b>2,960,155</b>	<b>3,179,264</b>
Department of Education <sup>2</sup> .....	162,021	630,235	1,045,659	747,706	1,173,055	1,674,171	1,825,754	1,938,998	2,076,965
Administration.....	17,732	47,456	108,372	187,317	264,900	263,216	285,296	295,615	328,231
Libraries.....	26,111	108,284	225,810	129,127	85,650	96,406	129,062	101,202	121,265
Rehabilitative services and handicapped research.....	137,313	473,091	709,483	426,866	798,298	1,311,485	1,405,357	1,536,905	1,618,193
American Printing House for the Blind.....	865	1,404	1,994	4,349	4,230	3,031	5,989	5,234	9,126
Trust funds.....	—	—	—	27	(23)	33	50	42	150
Department of Agriculture.....	87,551	135,637	220,395	271,112	336,375	322,599	330,866	342,523	347,090
Extension Service.....	85,924	131,734	215,523	263,584	325,966	311,132	322,095	330,164	333,571
National Agricultural Library.....	1,627	3,903	4,872	7,528	10,389	11,467	8,771	12,359	13,519
Department of Commerce.....	251	1,226	2,317	2,479	—	—	—	—	—
Maritime Administration.....	—	—	—	—	—	—	—	—	—
Training for private sector employees <sup>80</sup> .....	251	1,226	2,317	2,479	—	—	—	—	—
Department of Health and Human Services <sup>3</sup> .....	3,953	24,273	31,653	37,819	47,195	59,306	59,770	82,060	72,425

**Table 304.—Federal funds for education and related programs, by level of education or activity, agency, and program: Fiscal years 1965 to 1989—Continued**

[In thousands of dollars]

Level, agency, and program	1965	1970	1975	1980	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
National Library of Medicine.....	3,953	24,273	31,853	37,819	47,195	59,306	59,770	62,060	72,425
Department of Housing and Urban Development .....	512	—	—	—	—	—	—	—	—
Urban mass transportation—managerial training grants <sup>67</sup> ..	512	—	—	—	—	—	—	—	—
Department of Justice.....	3,850	5,546	42,818	27,642	25,517	27,412	26,293	26,361	26,324
FBI National Academy.....	1,850	2,066	5,100	7,234	4,189	3,946	4,408	5,385	9,127
FBI—Field Police Academy.....	1,450	2,500	5,254	7,715	10,220	9,756	8,984	9,995	10,812
Narcotics and dangerous drug training .....	550	980	1,152	2,418	89	68	0	142	1
National Institute of Corrections <sup>68</sup> ..	—	—	31,312	10,277	11,025	13,642	12,901	10,839	6,584
Department of State.....	*0,780	20,872	28,113	25,000	23,791	23,371	23,856	33,308	34,695
Foreign Service Institute.....	6,395	15,877	20,750	25,000	23,791	23,371	23,856	33,308	34,695
Center for Cultural and Technical Interchange <sup>69</sup> .....	4,385	4,815	7,363	—	—	—	—	—	—
Department of Transportation <sup>18</sup> ..	—	3,964	11,877	10,212	3,785	1,865	1,895	1,737	1,390
Highways training and education grants <sup>69</sup> .....	—	2,418	3,250	3,412	1,500	—	—	—	—
Maritime Administration. Training for private sector employees <sup>70</sup> .....	—	—	—	—	1,135	1,143	1,291	1,517	1,197
Urban mass transportation—managerial training grants <sup>67</sup> ..	—	1,546	2,627	500	1,150	722	604	220	193
Federal Aviation Administration <sup>70</sup> Air traffic controllers second career program <sup>71</sup> ..	—	—	6,000	8,300	—	—	—	—	—
Department of the Treasury .....	—	18	3,096	14,584	16,160	15,982	19,110	32,768	45,541
Federal Law Enforcement Training Center <sup>72</sup> .....	—	18	3,096	14,584	16,160	15,982	19,110	32,768	45,541
Other agencies.									
ACTION <sup>73</sup> .....	—	—	7,045	2,833	1,781	1,368	3,368	4,110	4,190
Estimated education funds <sup>74</sup> ..	—	—	7,045	2,833	1,781	1,368	3,368	4,110	4,190
Agency for International Development .....	63,329	68,034	78,896	99,707	141,847	154,627	196,175	193,115	175,726
Education and human resources .....	53,968	81,570	58,349	60,518	115,104	126,132	152,332	160,051	135,306
American schools and hospitals abroad ..	9,381	26,464	20,547	19,189	26,743	28,495	33,843	33,064	40,418
Appalachian Regional Commission <sup>75</sup> ..	—	572	1,574	8,124	113	0	92	0	—
Federal Emergency Management Agency <sup>76</sup> ..	—	290	290	281	405	290	290	290	290
Estimated architect/engineer student development program <sup>76</sup> .....	—	40	40	31	155	40	40	40	40
Estimated other training programs <sup>77</sup> .....	—	250	250	250	250	250	250	250	250
General Services Administration <sup>78</sup> Libraries and other archival activities ..	4,013	14,775	22,532	34,800	—	—	—	—	—
Japanese-United States Friendship Commission <sup>79</sup> ..	—	—	—	2,294	2,238	235	3,225	2,274	3,015
Library of Congress	15,111	29,478	63,788	151,871	169,310	169,130	160,835	160,505	169,101
Salaries and expenses	11,421	20,700	48,798	102,384	130,354	126,747	124,878	122,356	147,485
Books for the blind and the physically handicapped ..	2,317	6,195	11,908	31,438	32,954	35,480	33,813	38,245	35,944
Special foreign currency program .....	1,187	2,273	2,333	3,492	4,821	2,372	809	405	159
Furniture and furnishings ..	186	310	727	14,579	1,381	1,551	1,335	1,499	5,513
National Aeronautics and Space Administration Aerospace education services project ..	100	350	600	882	1,800	1,900	2,250	2,400	2,500
National Archives and Records Administration: <sup>80</sup> Libraries and other archival activities ..	—	—	—	—	52,118	55,252	59,521	65,153	75,687
National Endowment for the Arts <sup>81</sup> .....	—	340	1,068	231	1,137	1,128	1,625	1,200	1,100
National Endowment for the Humanities <sup>82</sup> .....	—	5,090	38,486	65,605	76,252	78,319	75,378	76,622	82,680
National Commission on Libraries and Information Science <sup>81</sup> .....	—	—	449	2,090	723	781	512	522	1,018
Smithsonian Institution .....	2,233	2,461	5,509	5,153	7,886	8,191	6,545	5,393	7,286
Museum programs and related research .....	2,133	2,261	4,203	3,254	4,665	2,341	2,506	1,223	2,000
National Gallery of Art extension service .....	100	200	300	426	676	682	731	656	698

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**Table 304.—Federal funds for education and related programs, by level of education or activity, agency, and program: Fiscal years 1965 to 1989—Continued**

(In thousands of dollars)

Level, agency, and program	1965	1970	1975	1980	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
Woodrow Wilson International Center for Scholars .....	—	—	1,706	1,473	2,546	3,188	3,308	3,514	4,568
United States Information Agency—Center for Cultural and Technical Interchange <sup>20</sup> .....	—	—	—	15,115	18,966	20,531	16,756	22,759	20,000
United States Institute of Peace <sup>22</sup> .....	—	—	—	—	—	230	4,083	3,476	7,730
Other programs:									
Estimated education share of Federal aid for the District of Columbia .....	948	1,758	2,335	2,990	7,156	8,330	11,540	4,400	4,331
<b>Research programs at universities and related institutions<sup>23</sup> .....</b>	<b>1,218,276</b>	<b>2,283,641</b>	<b>3,418,374</b>	<b>5,801,204</b>	<b>8,844,575</b>	<b>9,009,351</b>	<b>10,538,608</b>	<b>11,076,897</b>	<b>11,783,410</b>
Department of Education <sup>24</sup> .....	13,248	87,823	82,770	78,742	28,809	88,983	60,912	42,379	80,479
Department of Agriculture .....	58,132	64,796	108,162	216,405	293,252	273,698	279,943	295,226	264,782
Department of Commerce .....	4,015	4,487	21,677	48,295	52,951	62,406	36,835	36,323	13,060
Department of Defense .....	436,912	358,188	364,929	644,455	1,245,888	1,382,795	1,754,456	1,605,145	2,005,902
Department of Energy .....	439,334	548,327	761,376	1,470,224	2,205,316	2,141,955	2,225,513	2,332,497	2,406,239
Department of Health and Human Services .....	474,362	623,765	1,273,037	2,087,053	3,228,014	3,309,708	3,983,407	4,248,739	4,396,999
Department of Housing and Urban Development .....	—	510	2,650	5,314	438	342	463	456	558
Department of the Interior .....	9,839	18,521	28,955	42,175	34,422	36,440	33,353	34,351	20,015
Department of Justice .....	—	1,945	8,902	9,189	5,188	5,095	8,991	6,427	4,033
Department of Labor .....	—	3,567	6,124	12,936	3,417	341	432	4,443	4,451
Department of State .....	—	8,220	10,973	188	29	30	432	1,171	1,186
Department of Transportation .....	—	12,328	28,478	31,910	22,621	20,215	25,184	31,246	31,858
Department of the Treasury .....	—	—	—	226	388	190	169	190	433
Department of Veterans Affairs .....	337	518	1,112	1,600	1,000	1,000	2,251	2,300	2,300
ACTION .....	—	—	—	—	—	—	—	—	—
Agency for International Development .....	—	—	—	77,063	56,960	44,302	54,652	41,351	45,269
Environmental Protection Agency .....	—	19,446	33,875	41,083	60,521	69,718	67,465	60,688	62,898
Federal Emergency Management Agency .....	—	—	—	1,665	1,423	—	—	—	—
National Aeronautics and Space Administration .....	208,688	258,016	197,301	254,629	485,824	489,048	785,141	879,829	927,895
National Science Foundation .....	154,046	253,628	475,011	743,809	1,087,046	1,073,122	1,184,921	1,213,164	1,481,028
Nuclear Regulatory Commission .....	—	—	7,093	32,590	30,261	27,472	29,176	25,880	29,603
Office of Economic Opportunity .....	7,078	20,035	—	—	—	—	—	—	—
U.S. Arms Control and Disarmament Agency .....	—	100	—	661	395	276	3,244	2,615	2,315
U.S. Information Agency .....	—	—	—	—	—	1,500	—	—	—
Other agencies .....	10,055	1,421	5,913	990	432	715	1,666	2,188	2,109

<sup>1</sup> Estimated

<sup>2</sup> The U.S. Department of Education became a department May 1980. It formerly was the Office of Education in the U.S. Department of Health, Education, and Welfare.

<sup>3</sup> These commodities are purchased under Section 32 of the Act of August 24, 1935, for use in the child nutrition programs.

<sup>4</sup> This program assisted in the construction of public facilities, such as vocational schools, through grants or loans. No funds have been appropriated for this account since fiscal year 1977, and it was completely phased out in fiscal year 1984 after the monitoring of closeouts of projects was completed. Data are not available for previous years.

<sup>5</sup> This program was funded by the Department of Education in fiscal years 1965 through 1981 in the "Impact Aid" program. This program provides for education of dependents of Federal employees residing on Federal property in cases where free public education is unavailable in the nearby community.

<sup>6</sup> The U.S. Department of Energy became a department in 1977. It formerly was the Energy Research and Development Administration and before that the Atomic Energy Commission.

<sup>7</sup> This program was established in 1979. Funds were appropriated for this program in fiscal year 1980.

<sup>8</sup> The U.S. Department of Health and Human Services was part of the U.S. Department of Health, Education, and Welfare until May 1980.

<sup>9</sup> The Head Start program was in the Office of Economic Opportunity Agency, and funds were appropriated to the U.S. Department of Health, Education, and Welfare, Office of Child Development, in 1972.

<sup>10</sup> After age 18, benefits terminate at the end of the school term or in 3 months, whichever is less.

<sup>11</sup> This program provides funding for supplemental programs for eligible Indian students in public schools.

<sup>12</sup> This program finances the cost of academic, social, and occupational education courses for inmates in Federal prisons.

<sup>13</sup> The Job Corps program was formerly in the Office of Economic Opportunity, and funds were appropriated to the U.S. Department of Labor in 1971 and 1972.

<sup>14</sup> Some of the work and training programs included in this program were in the Office of Economic Opportunity and were transferred to the U.S. Department of Labor in 1971 and 1972.

<sup>15</sup> The U.S. Department of Transportation became a department in 1967.

<sup>16</sup> This program was transferred from the U.S. Department of the Treasury to the U.S. Department of Transportation in 1967.

<sup>17</sup> This program was established in fiscal year 1972 and closed in fiscal year 1986.

<sup>18</sup> The States' share of revenue-sharing funds was not spent on education in fiscal years 1981 through 1986.

<sup>19</sup> The U.S. Department of Veterans Affairs, formerly the Veterans Administration, became a department March 1989.

<sup>20</sup> This program provides educational assistance allowances in order to restore lost educational opportunities to those individuals whose careers were interrupted or impeded by reason of active military service between January 31, 1955, and January 1, 1977. It includes "Readjustment Benefits," Chapter 34, for education other than college and also includes the "Veterans Job Training Program" for service persons and veterans.

<sup>21</sup> This program is in the "Readjustment Benefits" program, Chapter 31, and covers the costs of subsistence, tuition, books, supplies, and equipment for disabled veterans requiring vocational rehabilitation.

<sup>22</sup> This program is in the "Readjustment Benefits" program, Chapter 35, and provides benefits to children and spouses of veterans.

<sup>23</sup> This agency was established March 9, 1965. First year of appropriations was 1966. The outlays were larger in the years 1970 and 1975 for elementary and secondary education because of the construction of facilities for vocational schools.

<sup>24</sup> This agency was established in 1965. In 1970, \$900,000 were appropriated through the Office of Education, U.S. Department of Health, Education, and Welfare, for the National Endowment for the Arts, Arts in Education program.

<sup>25</sup> This agency was established in 1965. First year of appropriations was 1966.

<sup>26</sup> The Economic Opportunity Act of 1964 authorized 10 major action programs, including Job Corps, Neighborhood Youth Corps, Adult Literacy, Work Experience, College Work-Study, and Community Action programs, including Head Start, Follow Through, and Upward Bound, and authorized the establishment of Volunteers in Service to America (VISTA). These programs were transferred to the U.S. Department of Health, Education, and Welfare, U.S. Department of Labor, and the Action Agency in the 1970's. An act on January 4, 1975 established the Community Services Administration as the successor agency to the Office of Economic Opportunity.

<sup>27</sup> Head Start program funds were transferred to the U.S. Department of Health, Education, and Welfare, Office of Child Development, in 1972.

<sup>28</sup> Most of these program funds were transferred to the U.S. Department of Health, Education, and Welfare, Office of Education, in 1972.

<sup>29</sup> The Job Corps program funds were appropriated to the U.S. Department of Labor in 1971 and 1972.

<sup>30</sup> These program funds were appropriated to the U.S. Department of Labor in 1971 and 1972.

<sup>31</sup> These funds were appropriated to the Action Agency in 1972.

<sup>32</sup> Similar programs were included in the "higher education" program in 1965 through 1975.

<sup>33</sup> Negative amounts occur when program receipts exceed outlays.



<sup>34</sup> This program was formerly in the U.S. Department of Housing and Urban Development and was transferred to the U.S. Department of Health, Education, and Welfare, Office of Education, in fiscal year 1979.

<sup>35</sup> First year of appropriations for this program was 1967.

<sup>36</sup> The first year program funds were appropriated for Tuskegee Institute was 1972.

<sup>37</sup> The Sea Grant College Program Act of 1966 established a matching fund grant program that provides for the establishment of a network of programs in fields related to development and preservation of the coastal and marine resources of the Nation. One of the objectives is to provide trained personnel to utilize and manage these resources. This program was in the National Science Foundation and transferred to the U.S. Department of Commerce October 1970. Appropriations began in 1968.

<sup>38</sup> This program was transferred to the Department of Transportation in fiscal year 1981 by Public Law 97-31, from the U.S. Department of Commerce.

<sup>39</sup> The Department of Defense funds for fiscal years 1968 and 1969 are lower than previous years because they exclude military pay and reserve accounts which were included in previous years. Fiscal Year 1965 data are not available except for service academies.

<sup>40</sup> Included in total above.

<sup>41</sup> Instructional costs only are included. These include academics, audiovisual, academic computing center, faculty training, military training, physical education, and libraries.

<sup>42</sup> Includes special education programs (military and civilian), legal education program, flight training; advanced degree program, college degree program (officers); and "Armed Forces Health Professions Scholarship" program.

<sup>43</sup> No funds have been appropriated for this program since fiscal year 1982.

<sup>44</sup> This program receives funds periodically.

<sup>45</sup> The first year of appropriations for this program was fiscal year 1964.

<sup>46</sup> This program did not exist until fiscal year 1976. Money was first awarded in 1978.

<sup>47</sup> The amount reported in fiscal year 1983 was large because of a loan default.

<sup>48</sup> Postsecondary student benefits were ended by the Omnibus Budget Reconciliation Act of 1981 (Public Law 97-35) and were completely phased out by August 1985.

<sup>49</sup> Includes adult education, tribally controlled community colleges, and other postsecondary schools.

<sup>50</sup> This program was transferred to the International Communication Agency (ICA) in the Reorganization Plan No. 2 of 1977, which consolidated the functions of the United States Information Agency (U.S.I.A.) and the Department of State's Bureau of Educational and Cultural Affairs. In fiscal year 1982 the ICA became the U.S.I.A.

<sup>51</sup> This program provides funds for advanced study and research projects of the Soviet Union and Eastern European countries by American institutions of higher education and private research firms. Appropriations began in fiscal year 1968.

<sup>52</sup> This program was transferred to the U.S. Department of Transportation in fiscal year 1981 by Public Law 97-31, from the U.S. Department of Commerce. The estimated 1989 outlays are much higher because of the replacement of one of the training ships.

<sup>53</sup> Includes flight training. This program was in the U.S. Department of the Treasury in 1965 and was transferred to the U.S. Department of Transportation in 1967.

<sup>54</sup> Includes Vietnam-era veterans under Chapter 34 (GI Bill) of the "Readjustment Benefits" education and training program. This program provides educational assistance allowances, primarily on a monthly basis, in order to restore lost educational opportunities to those individuals whose careers were interrupted or impeded by reason of active military service between January 31, 1955, and January 1, 1977.

<sup>55</sup> Includes service persons under Chapter 34 (GI Bill) of the "Readjustment Benefits" education and training program. Service persons with over 180 days of active duty, any part of which was before January 1, 1977, are eligible to participate in this program.

<sup>56</sup> Includes post-Vietnam-era veterans, under Chapter 32, of the post-Vietnam-era "Veterans Education Account." Provides education and training assistance payments to veterans and service persons with no active duty time before January 1, 1977. Funding is provided through participants' contributions while on active duty and through transfers from the Department of Defense (DOD). Participants' contributions, up to a maximum of \$2,700, are deposited to the fund prior to discharge. When the participant enters training, the monthly disbursement from his or her account is matched two for one from funds provided by DOD. Additional amounts in the form of incentive bonuses may also be provided by DOD funds. As Veterans Administration funds are not appropriated for this program, these data represent obligations.

<sup>57</sup> Public Law 96-525, enacted October 19, 1984 (New GI Bill), established two new peacetime educational programs: An assistance program for veterans who enter active duty during the period beginning July 1, 1965, and ending on June 30, 1988, and an assistance program for certain members of the Selected Reserve.

<sup>58</sup> Chapter 30, also called the Montgomery Bill, and the new GI Bill are for eligible veterans who have agreed to have their military pay reduced \$100 per month for their first 12 months of active duty in order to participate in this program. The "Readjustment Benefits" account under the Veterans Administration pays only the basic allowance, up to a maximum of \$300 per month, for full-time training. "Supplemental Benefits" are paid by the Department of Defense (DOD). Legislation is being proposed to fund the "basic benefit" allowance through the DOD rather than through the "readjustment benefits" appropriation. The Veterans Administration would continue to administer the program.

<sup>59</sup> Chapter 106 is for members of the Selected Reserve. The reserve components include the Army, Navy, Air Force, Marine Corps Reserve, Army National Guard and Air National Guard under the Department of Defense (DOD), and the Coast Guard Reserve, which is under the Department of Transportation (DOT), when it is not operating as a service in the Navy. Eligible persons can receive up to \$140 per month for full-time train-

ing. The DOD and DOT pay for this program, and the Veterans Administration administers it.

<sup>60</sup> Includes dependents of veterans under Chapter 35, the "Readjustment Benefits" education and training program. Provides education and training benefits to dependents of veterans who died of a service-connected disability or who had a service-connected disability is rated permanent and total.

<sup>61</sup> These payments have been made to State education agencies for years but they were not available as a separate budget item until fiscal year 1988.

<sup>62</sup> The U.S.I.A. was called the "International Communication Agency" in fiscal years 1980 and 1981.

<sup>63</sup> This program was in the "Educational and Cultural Affairs" program in fiscal years 1980 through 1983, and became an independent program in fiscal year 1984.

<sup>64</sup> This program was combined with the "educational and cultural affairs" program in fiscal year 1977.

<sup>65</sup> Appropriations for the program began in fiscal year 1976.

<sup>66</sup> Public Laws 99-500 and 99-591 established the James Madison Memorial Fellowship Foundation to operate a fellowship program to encourage graduate study of the American Constitution. First year of appropriations for this program was fiscal year 1988.

<sup>67</sup> This program was transferred to the Department of Transportation in fiscal year 1988 from the Department of Housing and Urban Development, under Reorganization Plan No. 2 of 1968.

<sup>68</sup> This program was established by the Juvenile Justice and Delinquency Prevention Act of 1974 to provide education and training and to provide leadership in improving correctional programs and practices in prisons. Fiscal year 1975 had large outlays because of the construction of buildings and facilities.

<sup>69</sup> Appropriations for this program began in fiscal year 1970 and closed in fiscal year 1985. This program is part of the Federal-Aid Highway Act of 1970, Public Law 91-605.

<sup>70</sup> The Federal Aviation Administration was an independent agency, and was transferred to the Department of Transportation in fiscal year 1967.

<sup>71</sup> Appropriations for this program began in fiscal year 1972. No funds have been appropriated for this program since fiscal year 1982.

<sup>72</sup> First year of appropriations for this program was fiscal year 1970.

<sup>73</sup> This agency was established on July 1, 1971. This agency brings together a number of volunteer programs. Some of these funds were formerly in the Office of Economic Opportunity.

<sup>74</sup> These programs included the Service Learning Programs, University Year for Action, Youth Challenge Program, and the National Student Volunteer Program in fiscal year 1975. In fiscal years 1980 to 1984, programs included were the University Year for Action, Young Volunteers for Action, and National Service Learning programs. In fiscal years 1985 and 1986, the program included was the Service Learning Programs, and in fiscal years 1987 to 1989, programs included were the Literacy Corps and the Student Community Services program.

<sup>75</sup> The Federal Emergency Management Agency became an agency March 25, 1979, representing a combination of about five existing agencies. The two largest were the Defense Civil Preparedness Agency in the Department of Defense and the Federal Preparedness Agency in the General Services Administration.

<sup>76</sup> First year of appropriations for this program was fiscal year 1968.

<sup>77</sup> First appropriations for the "other training programs" were in the late 1960s. These programs include the Fall-Out Shelter Analysis, Blast Protection Design, and Multi-Protection Design Summer Institute. These numbers have stayed consistent because the number of participants in these programs has gone down.

<sup>78</sup> This program was transferred from the General Services Administration to the National Archives and Records Administration in April 1985.

<sup>79</sup> This program makes grants for the promotion of scholarly, cultural, and artistic exchanges between Japan and the United States. Appropriations for this program began in fiscal year 1976.

<sup>80</sup> The National Archives and Records Administration became an independent agency in April 1985.

<sup>81</sup> This program was established by the act of July 20, 1970, Public Law 91-345.

<sup>82</sup> This program was established by Congress to conduct and support research and scholarships in the fields of peace, arms control, and conflict resolution. This program began operation in February 1986.

<sup>83</sup> Includes Federal funds for research and development centers administered by colleges and universities. Obligation amounts are reported. Fiscal Years 1986 and 1989 are estimated.

<sup>84</sup> Total outlays for fiscal years 1965 and 1970 include the "Research and Training" program. Fiscal Year 1975 includes the "National Institute of Education" program. Fiscal Years 1980 to 1989 include outlays of the National Institute of Education and the National Center for Education Statistics.

—Data not available or not applicable

NOTE.—Some data have been revised from previously published figures. To the extent possible, amounts reported represent outlays rather than obligations. Negative numbers are indicated in parentheses.

SOURCE: U.S. Department of Education, National Center for Education Statistics, compiled from data appearing in U.S. Office of Management and Budget, *Budget of the U.S. Government, Appendix*, fiscal years 1967 to 1990, National Science Foundation, *Federal Funds for Research and Development*, fiscal years 1965 to 1989, and unpublished data obtained from Federal agencies. (This table was prepared April 1989.)

**Table 305.—Federal funds obligated for programs administered by the Department of Education:  
Fiscal years 1980 to 1989**

(In thousands of dollars)

Program	1980	1982	1983	1984	1985	1986	1987	1988	1989 <sup>1</sup>
1	2	3	4	5	6	7	8	9	10
<b>Total</b>	<b>\$14,102,165</b>	<b>\$15,069,598</b>	<b>\$15,633,430</b>	<b>\$17,072,698</b>	<b>\$18,818,201</b>	<b>\$18,940,681</b>	<b>\$19,977,378</b>	<b>\$20,697,311</b>	<b>\$24,058,528</b>
Elementary and secondary education	4,239,022	3,802,234	3,973,989	4,294,269	4,732,864	4,447,153	5,174,744	5,982,997	8,112,813
Grants for the disadvantaged	2,204,684	3,063,651	3,200,520	3,501,383	3,745,855	3,557,026	3,994,266	4,357,970	4,591,299
Special programs	788,918	524,730	568,165	549,117	748,000	858,878	929,488	1,067,213	1,252,548
Bilingual education	169,540	136,282	138,057	173,051	171,605	167,534	166,312	191,470	197,394
Indian education	75,900	77,561	87,247	70,718	87,404	63,917	84,258	66,344	71,572
School assistance in federally affected areas	812,873	457,227	544,350	608,791	895,748	877,055	705,953	731,241	770,028
Maintenance and operations	690,000	438,498	450,200	555,300	665,000	636,405	665,000	685,498	708,336
Construction	110,873	15,951	77,128	28,491	23,037	21,267	7,263	35,840	39,302
Disaster assistance	12,000	2,778	17,022	25,000	7,709	19,383	13,690	10,103	22,330
Other	—	—	—	—	—	—	—	—	—
Education for the handicapped	1,555,253	2,023,536	2,087,825	2,416,799	2,666,056	2,573,399	3,207,874	3,075,456	4,165,970
State grant programs	815,805	933,657	908,674	1,082,180	1,245,219	1,087,249	1,305,643	1,115,333	1,905,951
Early childhood education <sup>2</sup>	38,745	40,873	35,102	53,184	27,625	15,991	227,532	210,752	439,718
Special centers, projects, and research	55,075	35,057	38,402	54,871	53,430	54,629	96,385	78,600	80,526
Captioned films and media services	17,778	11,438	12,000	14,000	35,870	38,105	18,393	13,026	13,403
Personal training	55,375	48,911	49,300	55,540	68,025	68,339	73,724	66,153	87,095
Handicapped rehabilitation service and research	572,475	953,800	1,044,347	1,157,044	1,236,087	1,311,088	1,486,017	1,591,592	1,659,277
Vocational education and adult programs	1,153,743	751,118	735,732	854,320	856,271	1,018,302	997,988	1,000,055	1,125,433
Basic programs <sup>3</sup>	744,653	530,669	512,955	689,324	725,824	862,979	840,350	823,299	903,309
Consumer and homemaking	63,169	29,383	27,644	36,792	33,138	30,311	31,737	32,752	33,157
Program improvement and supportive services	162,512	91,650	86,411	117,249	5,202	—	—	—	—
State planning and advisory councils	13,423	8,900	11,153	11,200	7,584	6,761	7,845	7,681	8,271
Adult education, grants to States	153,724	90,636	95,569	99,755	84,723	109,791	111,254	129,163	184,389
Other	18,262	—	—	—	—	6,460	7,000	7,140	16,307
Postsecondary student financial assistance	5,108,534	8,584,012	7,024,110	7,478,401	8,534,205	8,932,803	8,473,766	8,807,929	10,451,431
Educational opportunity grants <sup>4</sup>	2,534,378	2,546,187	3,272,000	3,565,209	3,558,440	4,460,266	4,403,354	4,820,133	5,091,899
Work-study	596,065	523,910	586,179	561,322	599,487	576,145	803,160	804,445	612,142
Direct student loans	322,749	193,686	203,979	191,962	219,650	212,896	230,463	218,963	217,262
Guaranteed student loans	1,587,877	3,297,778	2,942,072	3,130,939	4,130,920	3,658,502	3,179,160	3,297,305	4,455,902
Other student assistance programs	57,465	22,473	19,980	28,969	25,528	25,194	57,829	89,063	74,226
Direct aid to postsecondary institutions	277,068	284,467	326,422	311,221	329,714	294,681	325,232	341,063	415,218
Aid to minority and developing institutions	114,880	119,829	157,282	132,081	140,374	125,895	149,028	135,222	165,959
Special programs for the disadvantaged	147,389	150,238	154,740	164,740	174,940	168,766	178,204	205,841	219,257
Cooperative education	14,999	14,400	14,400	14,400	14,400	—	—	—	—
Higher education facilities	268,493	449,191	199,927	218,893	194,556	206,017	212,938	152,528	90,204
Construction loans and insurance	35,382	38,890	39,109	54,105	33,188	26,800	11,553	89,820	39,546
Interest subsidy grants	24,628	23,759	24,164	23,925	24,968	23,981	58,408	24,466	30,735
College housing loans	208,505	386,742	136,654	138,863	136,400	155,236	142,975	46,242	19,923
Other higher education programs	34,927	38,226	40,510	82,410	74,340	64,057	92,561	79,305	75,142
International education and foreign languages	19,877	23,923	26,000	30,800	32,050	—	—	—	—
Fund for Improvement of Postsecondary Education	12,000	11,503	11,710	11,710	12,710	82,835	67,823	65,813	72,189
Other	2,950	2,800	2,800	39,900	29,580	1,187	24,938	13,492	2,953
Public library services	101,216	80,074	108,819	107,895	118,027	117,998	132,303	135,731	150,871
Public library services	66,451	80,000	60,000	65,000	75,000	71,774	80,000	78,922	81,009
Interlibrary cooperation	—	11,520	11,520	15,000	18,000	17,228	17,749	19,395	19,102
Public library construction	—	—	28,499	21,015	16,027	17,514	21,334	23,577	35,995
Research libraries	5,992	5,780	6,000	8,000	8,000	5,742	6,000	5,744	5,875
Other	28,775	2,794	2,800	880	1,000	5,742	7,220	9,093	9,090
Payments to special institutions	273,860	251,570	235,072	249,810	253,622	255,297	268,830	271,658	284,063
American Printing House for the Blind	4,349	5,000	5,000	5,000	5,500	5,263	5,500	5,268	5,335
National Technical Institute for the Deaf	19,799	26,300	26,300	28,000	31,400	30,624	32,000	31,594	33,326
Galeaudet College	49,409	64,815	53,840	59,288	59,092	59,334	82,000	62,195	85,998
Howard University	200,303	155,455	150,132	160,322	157,830	160,078	189,330	172,600	178,404
Departmental accounts	277,174	347,943	356,874	352,069	364,800	355,944	385,793	409,348	417,357
Educational research and improvement	51,415	81,550	84,203	57,185	60,558	57,514	83,894	68,147	78,201
Departmental management account	223,857	283,908	291,598	293,351	300,885	298,397	321,847	341,171	338,964
Other	1,875	2,290	843	1,401	3,349	—	—	—	—
Trust funds	27	197	30	172	10	33	52	30	172

<sup>1</sup> Estimated.<sup>2</sup> Includes preschool incentive grants<sup>3</sup> Includes programs of national significance and special programs for the disadvantaged.<sup>4</sup> Includes Pell Grants, Supplemental Educational Opportunity Grants and State Student Incentive Grants, and Income Contingent Loans

—Data are not available or not applicable.

NOTE—Because of rounding, details may not add to totals. Data presented in this tabulation are obligations which differ from outlay figures reported in other tables in this chapter. Some data have been revised from previously published figures.

SOURCE: U.S. Office of Management and Budget, *Budget of the United States Government, Appendix*, fiscal years 1983 to 1990. (This table was prepared March 1989.)

Table 306.—Department of Education outlays, by level of education and type of recipient: <sup>1</sup> Fiscal years 1980 to 1989

[In millions of dollars]

Year and area of education	Total	Local education agencies	State education agencies	College students	Institutions of higher education	Federal	Mixed	Other
1	2	3	4	5	6	7	8	9
<b>1980 total</b> .....	<b>\$13,137.8</b>	<b>\$5,313.7</b>	<b>\$1,103.2</b>	<b>\$2,137.4</b>	<b>\$2,267.2</b>	<b>\$249.8</b>	<b>\$693.8</b>	<b>\$1,372.7</b>
Elementary/secondary.....	6,629.1	5,309.4	662.2	34.2	22.0	62.5	513.4	25.5
Postsecondary education.....	5,682.2	—	99.5	2,103.2	2,165.5	—	—	1,313.0
Other programs.....	747.7	4.3	341.5	—	—	187.3	180.4	34.2
Education research and statistics.....	78.7	—	—	—	78.7	—	—	—
<b>1981 total</b> .....	<b>15,081.8</b>	<b>5,545.6</b>	<b>1,854.0</b>	<b>2,274.2</b>	<b>2,427.7</b>	<b>305.6</b>	<b>661.6</b>	<b>2,213.1</b>
Elementary/secondary.....	6,835.0	5,540.9	678.5	43.4	28.8	58.4	457.5	27.5
Postsecondary education.....	6,824.9	—	152.3	2,230.8	2,338.4	—	—	2,103.4
Other programs.....	1,361.4	4.7	823.2	—	—	247.2	204.1	82.2
Education research and statistics.....	60.5	—	—	—	60.5	—	—	—
<b>1982 total</b> .....	<b>14,109.3</b>	<b>5,425.8</b>	<b>1,414.2</b>	<b>1,610.2</b>	<b>1,951.8</b>	<b>268.3</b>	<b>535.4</b>	<b>2,903.6</b>
Elementary/secondary.....	6,456.3	5,420.8	593.8	48.9	21.9	2.6	340.3	27.9
Postsecondary education.....	6,418.8	—	196.6	1,561.3	1,847.7	—	—	2,813.2
Other programs.....	1,152.0	5.0	823.8	—	—	265.7	195.1	62.5
Education research and statistics.....	82.2	—	—	—	82.2	—	—	—
<b>1983 total</b> .....	<b>14,585.8</b>	<b>5,091.9</b>	<b>1,392.0</b>	<b>2,357.0</b>	<b>2,442.0</b>	<b>250.6</b>	<b>569.0</b>	<b>2,482.5</b>
Elementary/secondary.....	5,966.6	5,086.7	465.2	49.3	23.3	2.6	330.8	28.8
Postsecondary education.....	7,213.3	—	167.9	2,308.5	2,359.1	—	—	2,377.8
Other programs.....	1,326.3	5.2	758.9	—	—	248.0	238.2	75.9
Education research and statistics.....	59.6	—	—	—	59.6	—	—	—
<b>1984 total</b> .....	<b>15,534.7</b>	<b>5,256.5</b>	<b>1,879.0</b>	<b>2,193.4</b>	<b>2,167.4</b>	<b>330.2</b>	<b>516.7</b>	<b>3,191.4</b>
Elementary/secondary.....	6,220.8	5,252.4	536.0	55.5	35.3	22.9	259.9	58.8
Postsecondary education.....	7,341.2	—	211.5	2,137.9	1,975	—	—	3,019.3
Other programs.....	1,813.1	4.1	1,131.5	—	—	307.3	256.8	113.3
Education research and statistics.....	159.6	—	—	—	159.6	—	—	—
<b>1985 total</b> .....	<b>16,701.1</b>	<b>6,225.0</b>	<b>1,502.9</b>	<b>2,434.7</b>	<b>2,362.3</b>	<b>287.3</b>	<b>503.9</b>	<b>3,385.0</b>
Elementary/secondary.....	7,296.7	6,220.8	636.0	58.0	25.2	2.4	322.4	31.9
Postsecondary education.....	8,202.5	—	228.3	2,376.7	2,308.3	—	—	3,289.2
Other programs.....	1,173.1	4.2	638.6	—	—	284.9	181.5	63.9
Education research and statistics.....	28.8	—	—	—	28.8	—	—	—
<b>1986 total</b> .....	<b>17,740.1</b>	<b>6,435.1</b>	<b>1,823.3</b>	<b>2,685.9</b>	<b>2,837.2</b>	<b>265.4</b>	<b>625.8</b>	<b>3,267.5</b>
Elementary/secondary.....	7,552.0	6,432.1	558.5	68.3	45.2	2.2	372.0	73.8
Postsecondary education.....	8,444.9	—	215.6	2,617.6	2,523.0	—	—	3,088.7
Other programs.....	1,674.2	3.0	1,049.2	—	—	263.2	253.8	105.0
Education research and statistics.....	69.0	—	—	—	69.0	—	—	—
<b>1987 total</b> .....	<b>16,879.8</b>	<b>6,341.0</b>	<b>1,849.0</b>	<b>2,794.5</b>	<b>2,271.9</b>	<b>309.4</b>	<b>788.3</b>	<b>2,545.8</b>
Elementary/secondary.....	7,554.5	6,335.0	555.0	65.8	40.6	24.1	470.6	63.3
Postsecondary education.....	7,438.7	—	169.7	2,728.7	2,170.4	—	—	2,369.8
Other programs.....	1,825.8	6.0	1,124.3	—	—	285.3	297.7	112.6
Education research and statistics.....	60.9	—	—	—	60.9	—	—	—
<b>1988 total</b> .....	<b>18,326.9</b>	<b>6,637.0</b>	<b>2,234.6</b>	<b>3,103.4</b>	<b>2,519.5</b>	<b>319.4</b>	<b>836.6</b>	<b>2,676.3</b>
Elementary/secondary.....	8,098.4	6,606.3	717.9	66.2	39.5	23.8	616.7	28.0
Postsecondary education.....	8,247.1	—	184.60	3,037.2	2,437.6	—	—	2,587.7
Other programs.....	1,939.0	30.7	1,332.1	—	—	295.6	219.9	60.6
Education research and statistics.....	42.4	—	—	—	42.4	—	—	—
<b>1989 total</b> .....	<b>20,633.9</b>	<b>7,189.3</b>	<b>2,472.8</b>	<b>3,435.2</b>	<b>3,450.2</b>	<b>266.0</b>	<b>960.7</b>	<b>2,879.8</b>
Elementary/secondary.....	8,853.5	7,136.9	862.8	67.1	54.4	23.5	632.5	76.3
Postsecondary education.....	9,622.9	—	203.6	3,368.1	3,315.3	—	—	2,736.0
Other programs.....	2,077.0	32.4	1,406.4	—	—	242.5	328.2	67.5
Education research and statistics.....	80.5	—	—	—	80.5	—	—	—

<sup>1</sup> Outlays by type of recipient are estimated based on obligation data  
—Data are not available or not applicable

SOURCE: U.S. Department of Education, National Center for Education Statistics, unpublished data (This table was prepared April 1989)

NOTE—Some data have been revised from previously published figures. Because of rounding, details may not add to totals.



**Table 307.—Department of Education obligations for major programs, by State or other area:  
Fiscal year 1988**

(In thousands)

State or other area	Total	Grants for the disadvantaged <sup>1</sup>	Block grant to States for school improvement <sup>2</sup>	School assistance in federally affected areas <sup>3</sup>	Vocational and adult education <sup>4</sup>	Education of the handicapped <sup>5</sup>	Bilingual education	Indian education	Higher and continuing education <sup>6</sup>	Student financial assistance <sup>7</sup>	Public library program	Rehabilitation services <sup>8</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>\$17,262,360</b>	<b>\$4,325,473</b>	<b>\$785,961</b>	<b>\$670,180</b>	<b>\$673,793</b>	<b>\$1,302,684</b>	<b>\$133,353</b>	<b>\$60,090</b>	<b>\$547,801</b>	<b>\$6,921,930</b>	<b>\$120,894</b>	<b>\$1,420,361</b>
Alabama.....	298,218	80,577	13,427	5,431	19,106	47,057	94	972	26,125	70,849	2,093	32,484
Alaska.....	126,665	14,510	3,903	79,365	4,101	3,547	1,331	6,814	4,107	3,293	554	5,121
Arizona.....	269,107	45,386	9,959	52,710	12,890	20,757	5,605	5,101	7,403	89,613	1,658	18,223
Arkansas.....	198,622	57,336	7,781	2,174	11,087	17,213	144	75	7,506	44,898	1,389	19,039
California.....	1,281,911	467,828	78,250	61,841	81,920	829	36,454	3,862	33,977	394,445	11,193	111,213
Colorado.....	189,916	36,971	9,779	7,851	11,362	16,803	2,495	522	6,797	77,779	1,531	16,026
Connecticut.....	183,283	47,713	9,123	8,912	10,413	23,159	408	19	4,225	67,143	1,845	12,523
Delaware.....	67,397	14,509	3,903	65	4,905	4,511	50	0	1,811	32,064	452	5,127
District of Columbia.....	83,748	20,498	3,903	1,263	5,011	1,785	880	110	8,236	42,691	454	8,917
Florida.....	657,131	193,405	29,677	11,111	39,388	64,686	3,453	94	12,108	236,994	5,714	60,501
Georgia.....	333,939	107,568	20,150	7,067	26,353	37,313	193	0	23,467	69,712	2,570	39,547
Hawaii.....	65,215	13,534	3,903	20,246	5,059	339	1,104	0	2,736	11,942	940	5,412
I Idaho.....	71,316	14,710	3,903	4,613	5,030	7,219	564	179	1,792	25,576	840	7,134
Illinois.....	737,366	203,724	38,063	11,862	41,903	77,999	3,770	115	18,095	282,141	5,998	55,876
Indiana.....	351,044	65,025	17,961	1,897	23,840	68,677	876	12	7,062	126,971	2,406	36,016
Iowa.....	207,952	33,092	9,091	219	11,853	21,780	246	240	8,029	104,285	1,557	17,530
Kansas.....	225,406	31,987	7,437	10,711	9,061	30,123	50	621	7,653	112,858	1,348	13,727
Kentucky.....	259,791	72,831	12,353	1,317	17,894	25,339	195	0	10,755	87,924	2,236	29,147
Louisiana.....	341,102	101,364	15,491	8,302	21,406	7,349	1,785	410	14,046	136,249	2,170	32,530
Maine.....	82,235	22,157	3,903	3,196	5,564	9,902	641	55	3,687	23,356	639	9,135
Maryland.....	281,215	72,001	13,022	8,206	16,098	64,336	642	145	13,985	69,781	1,744	21,258
Massachusetts.....	366,843	107,587	16,107	11,432	21,010	19,586	2,801	335	15,139	139,650	2,758	30,439
Michigan.....	522,186	168,575	30,059	6,800	37,581	2,453	4,225	2,094	17,930	198,633	4,082	49,753
Minnesota.....	296,148	46,909	12,956	5,270	16,115	28,519	1,731	3,901	8,478	145,141	2,856	24,471
Mississippi.....	246,365	75,073	9,604	3,653	12,910	26,306	872	835	12,440	77,392	1,370	23,931
Missouri.....	280,598	64,905	15,458	6,314	20,728	3,038	479	2	5,610	129,911	2,136	32,018
Montana.....	92,457	12,909	3,903	22,940	4,977	5,579	1,560	3,325	3,602	27,022	682	5,957
Nebraska.....	141,235	19,717	5,042	8,990	6,444	11,320	364	374	2,470	75,683	1,072	9,759
Nevada.....	49,833	8,840	3,903	3,047	4,971	5,968	688	487	1,289	14,720	725	5,194
New Hampshire.....	46,571	10,020	3,903	2,575	5,045	6,014	113	0	2,153	11,644	751	6,153
New Jersey.....	437,633	131,269	22,062	12,328	24,351	57,329	2,028	70	11,702	140,472	3,453	32,569
New Mexico.....	149,776	30,206	5,028	37,834	6,945	11,368	6,328	4,336	3,087	32,867	9	10,825
New York.....	1,529,260	440,869	55,817	14,546	83,120	1,486	22,069	1,168	37,339	800,693	6,314	85,840
North Carolina.....	395,006	98,705	19,814	9,006	29,005	71,341	124	1,843	23,257	95,639	2,919	45,554
North Dakota.....	77,013	9,827	3,903	9,998	4,952	4,710	1,352	1,319	2,530	32,915	611	5,097
Ohio.....	656,544	145,829	34,436	4,852	43,809	69,529	1,388	43	20,251	266,563	4,783	65,382
Oklahoma.....	236,722	42,431	10,335	22,828	13,919	25,540	3,788	10,213	7,757	78,661	4,763	21,530
Oregon.....	157,392	44,594	8,174	3,021	10,520	82	1,284	847	5,156	65,985	1,446	16,303
Pennsylvania.....	835,569	213,158	34,674	3,940	48,983	74,880	1,338	125	23,242	359,095	5,229	72,907
Rhode Island.....	70,637	15,630	3,903	2,811	5,173	7,885	714	36	5,912	21,676	735	6,162
South Carolina.....	220,011	62,059	11,148	5,809	16,299	25,606	0	0	12,561	58,210	2,060	26,260
South Dakota.....	108,011	11,448	3,903	14,790	4,978	5,776	962	1,728	1,733	56,557	486	5,650
Tennessee.....	274,414	83,517	15,183	3,579	22,034	4,030	236	3	13,950	94,472	2,142	35,288
Texas.....	1,029,020	310,755	55,295	26,784	65,774	116,773	10,529	84	27,434	315,346	8,310	62,636
Utah.....	131,605	14,886	6,929	8,937	7,366	15,973	684	864	6,896	56,070	1,017	11,783
Vermont.....	44,228	11,365	3,903	11	4,414	805	50	142	3,548	14,228	587	5,175
Virginia.....	332,177	78,250	16,928	34,221	22,367	38,627	481	15	11,795	94,707	2,884	32,103
Washington.....	275,722	60,700	13,365	26,849	15,882	28,990	2,094	4,144	9,367	89,550	2,192	22,770
West Virginia.....	140,235	37,118	6,404	87	9,215	16,764	0	0	3,512	50,152	1,059	15,912
Wisconsin.....	286,091	61,524	15,078	5,557	19,642	1,308	435	1,758	8,261	139,926	2,129	30,472
Wyoming.....	49,705	6,422	3,903	7,231	4,760	6,856	410	644	998	12,819	550	5,112
Indian tribe setaside.....	46,769	27,247	598	0	0	16,519	0	0	0	0	2,405	0
Undistributed.....	918,307	0	0	35,918	0	0	50	14	0	880,325	0	0
<b>Outlying areas</b>												
American Samoa.....	7,062	3,491	764	0	390	1,439	182	0	149	94	84	466
Guam.....	15,440	3,901	2,031	0	345	4,202	568	0	1,719	1,233	91	1,350
Northern Marianas.....	5,031	1,737	360	0	360	714	569	0	784	129	77	301
Puerto Rico.....	487,051	130,201	14,545	1,029	17,408	30,564	1,068	0	10,937	232,544	1,697	27,059
Trust Territory of the Pacific.....	13,783	8,976	1,567	0	97	1,580	752	0	93	0	13	686
Virgin Islands.....	13,440	6,480	2,197	804	714	207	156	0	896	643	87	1,248

<sup>1</sup> Chapter 1, Education Consolidation and Improvement Act of 1981<sup>2</sup> Includes Chapter 2, Education Consolidation and Improvement Act of 1981, Science and Mathematics Education, Drug-Free Schools and Communities, and Education of Homeless Children and Youth<sup>3</sup> Includes Maintenance and Operations.<sup>4</sup> Includes Vocational Education—Basic State Grants, Community Based Organizations, Consumer and Homemaking Education, State Councils, Adult Education—State Administered Program, and Adult Education for the Homeless.<sup>5</sup> Includes State Grants, Preschool Incentive Grants to States, and Grants for Infants and Families.<sup>6</sup> Includes Institutional Aid to Strengthen Higher Education Institutions serving significant numbers of low-income students, Other Special Programs for the Disadvantaged, Cooperative Education, Fund for the Improvement of Postsecondary Education, Fellowships and Scholarships, and annual interest subsidy grants for facilities construction<sup>7</sup> Includes Basic Educational Opportunity Grants (Pell Grants), State Student Incentive Grants, and National Guaranteed Student Loan Interest Subsidies<sup>8</sup> Includes Rehabilitation Services Basic State Grants, Client Assistance for Handicapped Individuals, Independent Living, and Supported Employment Services

NOTE—To the extent possible, data represent obligations rather than outlays. Because of the exclusion of certain programs, totals in this table are lower than those reported in other tables. Because of rounding, details may not add to totals.

SOURCE—U.S. Department of Education, National Center for Education Statistics, based on unpublished tabulations from the Office of Management and Budget; and U.S. Department of Commerce, Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1988* (This table was prepared March 1989).

**Table 308.—Department of Education obligations for major programs, by State or other area: Fiscal year 1987**

(In thousands)

State or other area	Total	Grants for the disadvantaged <sup>1</sup>	Block grant to States for school improvement <sup>2</sup>	School assistance in federally affected areas <sup>3</sup>	Vocational and adult education <sup>4</sup>	Education for the handicapped <sup>5</sup>	Bilingual education	Indian education	Higher and continuing education <sup>6</sup>	Student financial assistance <sup>7</sup>	Public library program	Rehabilitation services <sup>8</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b>	<b>\$17,174,853</b>	<b>\$3,793,628</b>	<b>\$734,214</b>	<b>\$963,000</b>	<b>\$969,131</b>	<b>\$1,501,303</b>	<b>\$125,077</b>	<b>\$59,528</b>	<b>\$429,563</b>	<b>\$7,458,598</b>	<b>\$119,083</b>	<b>\$1,321,728</b>
Alabama	321,251	72,841	12,809	8,089	19,022	38,497	0	871	22,828	115,976	1,988	30,532
Alaska	111,325	10,865	3,830	70,523	2,826	4,120	1,658	6,969	4,989	4,889	418	4,783
Arizona	298,238	41,405	9,106	55,980	12,292	18,851	4,036	4,875	5,126	127,910	2,096	18,561
Arkansas	181,446	51,016	7,277	2,230	10,910	15,770	145	41	6,757	87,945	1,251	18,104
California	1,504,597	418,731	71,276	62,243	81,461	159,323	33,682	3,748	28,432	531,424	11,087	103,187
Colorado	185,076	36,348	9,169	7,283	11,312	18,066	2,230	250	8,051	77,774	1,656	14,937
Connecticut	186,978	41,398	8,647	6,525	10,360	21,303	447	35	3,889	80,517	1,761	12,084
Delaware	53,002	11,091	3,630	60	4,588	4,133	50	0	1,156	23,047	453	4,784
District of Columbia	87,969	18,342	3,630	1,026	8,863	1,966	1,032	125	7,484	40,387	456	8,858
Florida	648,517	170,990	27,436	10,710	38,734	64,665	3,371	88	10,651	291,056	4,867	55,929
Georgia	319,101	95,608	18,390	7,043	29,116	32,836	192	19	15,326	79,890	2,987	37,395
Hawaii	69,498	10,873	3,630	20,926	4,864	4,030	1,017	12	2,234	18,451	600	4,861
Idaho	70,886	14,213	3,630	4,497	4,882	8,834	519	319	1,610	27,188	757	8,539
Illinois	739,557	185,262	34,203	11,035	41,996	82,542	3,449	130	15,578	329,264	5,096	51,004
Indiana	282,304	55,938	17,097	1,726	23,789	1,644	779	22	6,664	138,510	2,628	33,528
Iowa	218,903	30,683	8,672	205	11,942	19,642	386	112	6,418	123,555	1,549	15,739
Kansas	186,874	27,855	7,057	8,513	9,227	829	50	603	8,899	80,517	1,357	12,343
Kentucky	265,780	84,334	11,643	1,182	17,867	33,379	207	0	8,186	101,733	2,278	26,951
Louisiana	355,018	91,378	14,654	8,256	21,135	24,632	1,798	353	11,971	148,952	1,787	30,102
Maine	84,348	18,588	3,630	3,102	5,427	539	540	50	3,780	38,990	1,054	8,648
Maryland	215,952	62,488	12,243	8,038	15,722	892	466	145	8,689	84,870	2,152	20,247
Massachusetts	424,272	85,590	15,541	5,091	22,552	48,855	2,987	490	12,899	200,017	2,734	29,616
Michigan	577,182	145,084	28,336	8,537	36,937	58,720	5,209	1,891	3,845	230,209	4,114	48,279
Minnesota	310,825	44,144	12,357	4,592	15,970	30,076	1,470	4,213	5,032	167,332	2,037	22,865
Mississippi	235,840	67,906	8,813	3,602	12,776	23,023	1,304	569	11,068	82,958	1,324	22,494
Missouri	307,768	57,267	14,579	6,007	20,261	34,598	344	35	5,115	136,235	2,406	30,921
Montana	84,542	11,776	3,630	21,989	4,839	5,544	1,342	3,281	3,780	32,733	680	4,966
Nebraska	133,133	18,524	4,819	8,306	8,540	10,813	502	435	2,482	71,190	823	8,899
Nevada	48,827	8,834	3,630	3,241	4,793	5,207	344	513	1,188	15,469	750	4,860
New Hampshire	57,345	8,542	3,630	2,854	4,916	5,682	111	7	1,953	22,981	911	5,956
New Jersey	449,024	118,644	21,324	12,222	23,868	59,132	2,074	78	8,139	167,888	4,068	31,589
New Mexico	156,523	29,737	4,700	36,193	6,687	10,989	6,024	4,369	3,222	43,488	741	10,154
New York	1,552,458	372,358	49,509	12,663	81,433	84,659	21,125	1,188	26,850	830,270	9,008	83,391
North Carolina	374,827	86,501	18,192	8,347	29,282	44,501	186	1,854	17,792	122,437	2,909	42,643
North Dakota	83,503	8,904	3,630	9,022	4,776	7,481	1,203	1,510	2,343	39,096	897	4,840
Ohio	655,434	128,962	32,430	4,601	43,557	64,782	1,521	44	12,794	300,440	4,780	61,543
Oklahoma	232,902	35,955	8,944	22,624	13,555	21,560	2,993	9,584	7,277	87,115	1,688	19,607
Oregon	187,873	37,653	7,809	3,041	10,384	15,585	1,381	853	4,824	90,816	1,455	14,072
Pennsylvania	813,440	191,955	32,979	3,391	48,564	86,723	17	15,091	15,177	391,055	4,364	68,124
Rhode Island	73,162	13,782	3,630	2,701	5,001	7,009	934	36	1,407	32,781	574	5,507
South Carolina	224,517	54,895	10,317	6,745	16,350	28,834	33	0	11,211	70,220	1,632	24,380
South Dakota	115,363	10,453	3,630	14,010	5,103	5,286	1,043	2,354	2,020	65,334	927	5,223
Tennessee	300,176	75,702	14,077	3,237	22,017	31,648	340	0	12,326	106,598	1,979	32,252
Texas	970,816	292,253	57,822	24,990	83,259	102,304	7,426	101	20,817	319,498	5,819	83,767
Utah	125,475	12,823	6,303	8,517	7,475	14,119	980	806	3,451	59,214	1,018	10,772
Vermont	54,797	8,599	3,630	8	5,040	5,780	50	128	2,455	23,642	869	4,796
Virginia	320,544	87,124	18,065	33,064	22,311	33,263	453	23	10,188	105,040	2,684	30,349
Washington	288,104	55,824	12,660	26,270	15,771	26,104	2,643	3,947	7,477	114,854	2,116	20,638
West Virginia	143,283	32,454	6,078	75	9,105	15,857	0	0	3,225	60,928	917	14,644
Wisconsin	356,725	54,663	14,303	5,512	19,624	48,788	367	1,799	7,094	174,015	2,336	28,226
Wyoming	38,236	4,969	3,630	6,802	3,239	299	455	620	532	12,240	688	4,772
Indian tribe setaside	39,774	24,835	400	0	0	12,129	0	0	0	0	2,410	0
Undistributed	500,181	0	0	56,551	0	0	0	0	0	443,630	0	0
<b>Outlying areas</b>												
American Samoa	5,246	1,892	790	0	390	944	152	0	311	253	64	430
Guam	14,398	1,996	1,511	1,523	838	2,820	423	0	1,748	2,414	92	1,035
Northern Mariana Islands	4,063	862	268	0	359	861	473	0	545	320	77	278
Puerto Rico	512,846	115,486	13,598	872	17,424	11,047	1,013	0	8,992	320,533	1,123	22,758
Trust Territory of the Pacific Islands	13,865	5,759	3,168	0	902	1,544	793	0	289	276	139	1,015
Virgin Islands	11,441	3,851	2,269	799	719	275	136	0	688	1,431	141	1,152

<sup>1</sup> Chapter 1, Education Consolidation and Improvement Act of 1981  
<sup>2</sup> Includes Chapter 2, Education Consolidation and Improvement Act of 1981, Science and Mathematics Education, and Drug-Free Schools and Communities  
<sup>3</sup> Includes Maintenance and Operations  
<sup>4</sup> Includes Vocational Education—Basic State Grants, Community Based Organizations, Consumer and Homemaker Education, State Councils, and Adult Education—State Administered Program  
<sup>5</sup> Includes State Grants, Preschool Incentive Grants to States, and Grants to Infants and Families  
<sup>6</sup> Includes Institutional Aid to Strengthen Higher Education Institutions serving significant numbers of low-income students, other Special Programs for the Disadvantaged, Cooperative Education, Fund for the Improvement of Postsecondary Education, Fellowships and Scholarships, and annual interest subsidy grants for facilities construction

<sup>7</sup> Includes Basic Educational Opportunity Grants (Pell Grants), College Work-Study Program, Supplemental Opportunity Grants, State Student Incentive Grants, Direct Student Loans, and National Guaranteed Student Loan interest subsidies  
<sup>8</sup> Includes Rehabilitation Services Basic State Grants, Client Assistance for Handicapped Individuals, Independent Living, and Supported Employment Services

NOTE—To the extent possible, data represent obligations rather than outlays. Because of the exclusion of certain programs, totals in this table are lower than those reported in other tables. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, based on unpublished tabulations from the Office of Management and Budget, and U.S. Department of Commerce, Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1987* (This table was prepared April 1988)

**Table 309.—Appropriations for Chapter 1 and Chapter 2, Education Consolidation and Improvement Act of 1981, by State or other area: 1987-88 and 1988-89**

[In thousands]

State or other area	Chapter 1 total, <sup>1</sup> school year 1987-88	Chapter 1						Chapter 2	
		Total <sup>2</sup> school year 1988-89	Local education agencies, basic grants	State schools, handicapped children	State schools, neglected and delinquent children	Migratory children	State administration	Fiscal year 1987	Fiscal year 1988
1	2	3	4	5	6	7	8	9	10
<b>Total</b>	<b>\$3,937,917</b>	<b>\$4,320,746</b>	<b>\$3,829,600</b>	<b>\$151,269</b>	<b>\$32,552</b>	<b>\$269,029</b>	<b>\$38,296</b>	<b>\$500,000</b>	<b>\$478,700</b>
Alabama	73,203	80,567	77,113	593	374	1,801	685	8,597	8,205
Alaska	12,940	14,483	6,194	2,110	193	5,760	225	2,474	2,368
Arizona	41,975	45,373	37,845	585	495	6,061	366	6,187	6,091
Arkansas	47,544	52,035	45,614	1,482	238	4,259	443	4,946	4,752
California	419,389	468,898	370,760	1,214	3,225	89,710	3,989	48,605	47,871
Colorado	38,340	41,518	35,946	2,593	326	2,310	353	6,251	5,980
Connecticut	43,646	47,679	41,833	2,274	518	2,648	406	5,914	5,577
Delaware	13,666	14,477	10,955	2,403	162	732	225	2,474	2,368
District of Columbia	19,406	20,461	17,054	2,904	224	55	225	2,474	2,368
Florida	175,077	193,005	163,825	4,241	1,263	22,034	1,642	18,647	18,141
Georgia	96,926	107,541	102,251	1,284	812	2,279	915	12,533	12,323
Hawaii	11,147	12,415	11,839	258	93	0	225	2,474	2,368
Idaho	13,761	14,707	10,961	121	83	3,317	225	2,474	2,368
Illinois	186,710	203,471	176,378	22,242	1,169	1,951	1,731	23,329	22,068
Indiana	60,171	64,974	58,867	4,274	659	621	553	11,659	11,003
Iowa	30,945	33,084	32,154	223	347	79	281	5,903	5,557
Kansas	29,022	31,874	26,246	1,201	653	3,602	272	4,820	4,540
Kentucky	65,830	72,607	68,014	1,471	443	2,062	618	7,934	7,551
Louisiana	93,430	101,331	93,358	2,328	649	4,133	862	9,976	9,463
Maine	18,968	22,147	18,059	569	207	3,087	225	2,474	2,368
Maryland	62,624	69,157	65,845	1,196	1,231	297	588	8,366	7,963
Massachusetts	95,689	107,463	90,200	10,732	643	4,974	914	10,597	9,846
Michigan	152,542	168,489	150,007	7,513	1,389	8,127	1,433	18,341	18,383
Minnesota	44,394	48,904	48,586	285	265	1,352	416	8,439	7,933
Mississippi	88,052	75,063	71,766	420	309	1,929	639	5,988	5,659
Missouri	58,447	64,893	62,004	1,148	340	849	552	9,944	9,423
Montana	12,160	13,178	12,143	360	174	276	225	2,474	2,368
Nebraska	18,677	20,016	19,243	130	115	302	225	3,283	3,050
Nevada	7,161	8,833	7,485	304	228	591	225	2,474	2,368
New Hampshire	9,054	10,096	9,144	565	79	83	225	2,474	2,368
New Jersey	122,533	135,201	126,721	4,047	1,413	1,870	1,150	14,564	13,561
New Mexico	29,440	30,199	28,176	221	278	1,267	257	3,209	3,060
New York	400,858	439,730	399,178	29,012	3,327	4,473	3,741	33,726	32,055
North Carolina	87,957	96,672	90,893	1,256	1,128	2,573	822	12,375	12,000
North Dakota	9,234	9,622	8,555	330	47	465	225	2,474	2,368
Ohio	133,065	145,756	137,668	3,809	1,775	1,265	1,240	22,119	21,081
Oklahoma	37,550	42,421	40,144	537	177	1,203	361	6,787	6,322
Oregon	40,933	43,906	32,178	3,784	701	6,871	374	5,325	4,993
Pennsylvania	196,315	212,973	193,786	14,166	1,139	2,070	1,812	22,477	21,111
Rhode Island	14,131	15,624	14,679	580	14	126	225	2,474	2,368
South Carolina	55,323	62,042	60,017	383	817	297	528	7,008	6,816
South Dakota	10,684	11,444	10,858	223	95	42	225	2,474	2,368
Tennessee	75,069	83,497	81,175	545	856	211	710	9,576	9,282
Texas	298,084	309,968	252,976	5,425	1,484	47,446	2,637	34,631	33,826
Utah	13,792	14,872	13,005	966	154	523	225	4,262	4,228
Vermont	10,128	11,346	8,750	1,604	131	636	225	2,474	2,368
Virginia	69,205	79,150	76,491	893	746	348	673	10,954	10,359
Washington	57,742	60,672	47,346	2,284	63	10,464	16	8,639	8,185
West Virginia	33,339	37,105	35,568	919	259	43	316	4,138	3,906
Wisconsin	56,001	61,495	57,844	1,739	642	747	523	9,765	9,232
Wyoming	5,857	6,410	4,914	813	193	266	225	2,474	2,368
Other activities									
Bureau of Indian Affairs	24,835	27,247	27,247	—	—	—	—	—	—
Migrant coordination activities	7,066	8,173	—	—	—	8,173	—	—	—
Outlying areas									
American Samoa	1,921	2,100	2,021	29	0	0	50	481	462
Guam	2,169	2,388	2,135	183	0	0	50	1,362	1,308
Northern Marianas	1,060	1,135	854	185	0	46	50	242	232
Puerto Rico	115,084	130,194	126,300	252	210	2,325	1,108	9,264	8,863
Trust Territory of the Pacific	5,759	6,314	6,264	0	0	0	50	1,824	1,752
Virgin Islands	3,906	4,292	4,170	72	0	0	50	1,384	1,329

<sup>1</sup> Data are based on fiscal year 1987 budget appropriations. Excludes \$6,248,000 for evaluation and studies.

<sup>2</sup> Data are based on fiscal year 1988 budget authorizations. Excludes \$7,181,000 for evaluation and studies.

—Data not applicable

NOTE —Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, Office of Planning, Budget, and Evaluation, special tabulations. (This table was prepared January 1989.)

Table 310.—Federal obligations to colleges and universities, by agency and State: Fiscal year 1987<sup>1</sup>

(In thous. \$)

State or other area	Total	Department of Agriculture	Department of Defense	Department of Education	Department of Energy	Environmental Protection Agency	Department of Health and Human Services	National Aeronautics and Space Administration	National Science Foundation	Other <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11
<b>United States</b> .....	<b>\$10,928,519</b>	<b>\$661,932</b>	<b>\$1,677,729</b>	<b>\$4,624,701</b>	<b>\$2,748,542</b>	<b>\$74,341</b>	<b>\$4,437,776</b>	<b>\$1,319,712</b>	<b>\$1,162,874</b>	<b>\$220,912</b>
Alabama.....	251,515	24,549	12,107	106,120	14,162	891	77,230	11,112	3,356	1,988
Alaska.....	22,524	2,280	1,142	5,033	598	6	698	3,267	5,989	3,491
Arizona.....	178,097	8,220	16,288	54,425	6,990	1,325	39,042	11,186	38,722	1,899
Arkansas.....	74,854	12,722	750	49,300	390	278	7,925	272	1,504	1,813
California.....	3,483,060	22,931	181,238	321,779	1,045,739	4,927	638,835	1,081,822	188,910	16,879
Colorado.....	249,145	7,772	15,170	59,364	5,733	1,318	64,729	13,164	68,148	13,747
Connecticut.....	231,719	4,020	12,326	38,830	8,858	350	146,635	656	14,820	5,224
Delaware.....	23,802	3,569	4,341	8,206	454	45	3,005	391	3,475	318
District of Columbia.....	307,818	1,755	8,515	233,426	1,004	777	49,583	4,520	5,132	2,906
Florida.....	311,472	13,990	18,418	138,373	15,405	2,281	89,592	4,676	22,178	5,559
Georgia.....	278,109	18,893	55,714	80,070	18,112	955	80,649	3,516	12,501	4,899
Hawaii.....	58,671	5,194	1,742	13,827	1,378	25	10,248	5,342	75	11,740
Idaho.....	31,917	8,346	140	21,968	131	59	786	275	73	1,493
Illinois.....	951,712	44,888	30,364	212,473	403,835	2,253	170,755	9,844	71,251	5,331
Indiana.....	230,012	14,981	12,831	101,172	14,210	1,205	53,416	2,481	26,621	3,087
Iowa.....	205,412	18,350	4,136	82,136	25,301	1,108	60,317	6,879	8,077	1,108
Kansas.....	115,017	10,192	2,237	70,671	2,861	718	20,620	1,738	4,663	1,319
Kentucky.....	118,942	18,179	1,299	73,712	1,128	188	21,463	782	2,720	461
Louisiana.....	172,732	13,109	3,267	98,109	1,642	882	45,292	1,222	4,388	4,821
Maine.....	42,833	4,784	2,059	30,779	315	781	2,145	25	1,159	486
Maryland.....	891,090	8,723	373,701	68,989	8,495	1,475	185,818	12,859	23,591	7,439
Massachusetts.....	1,103,941	18,065	473,538	132,953	61,569	4,510	282,681	18,889	102,744	8,992
Michigan.....	408,866	18,347	18,533	163,375	8,874	1,641	141,984	10,170	40,983	6,959
Minnesota.....	237,634	15,116	4,159	99,059	4,778	1,301	92,181	1,993	17,524	1,523
Mississippi.....	144,632	37,024	8,965	80,195	3,128	467	12,052	516	1,596	683
Missouri.....	244,417	18,583	3,915	88,348	2,094	361	113,892	2,612	9,728	4,906
Montana.....	37,488	5,111	408	21,891	143	800	2,918	215	2,713	3,189
Nebraska.....	78,139	8,454	829	41,543	493	145	15,083	762	4,497	6,333
Nevada.....	25,893	2,791	260	7,718	2,189	4,305	3,550	305	2,031	2,744
New Hampshire.....	55,356	3,463	1,912	17,048	984	346	18,897	5,640	4,363	2,703
New Jersey.....	284,283	7,065	12,299	74,197	104,526	879	51,799	3,483	26,460	3,575
New Mexico.....	665,075	5,190	38,644	37,097	557,849	232	14,020	6,772	4,855	416
New York.....	1,497,384	21,020	59,255	457,958	243,976	6,664	547,266	14,445	131,990	14,810
North Carolina.....	395,400	26,188	14,348	126,347	5,720	6,103	189,138	3,519	18,864	5,173
North Dakota.....	44,558	6,666	400	29,021	135	68	3,830	8	561	3,814
Ohio.....	409,132	17,943	37,986	174,505	4,386	6,386	124,490	13,861	19,299	10,276
Oklahoma.....	117,243	11,726	4,876	71,447	4,563	1,216	13,469	3,009	4,608	2,329
Oregon.....	195,602	13,230	9,865	81,516	25,754	2,592	37,844	1,565	16,191	7,045
Pennsylvania.....	643,985	20,226	100,940	185,555	15,838	2,098	245,654	6,854	59,140	7,680
Rhode Island.....	72,131	2,298	7,435	22,847	7,668	819	13,923	1,763	12,230	3,148

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Table 310.—Federal obligations to colleges and universities, by agency and State: Fiscal year 1987<sup>1</sup>—Continued

[In thousands]

State or other area	Total	Department of Agriculture	Department of Defense	Department of Education	Department of Energy	Environmental Protection Agency	Department of Health and Human Services	National Aeronautics and Space Administration	National Science Foundation	Other <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11
South Carolina	137,818	13,365	2,392	74,607	17,182	514	23,955	489	4,937	377
South Dakota	44,585	5,541	0	33,150	100	158	1,642	357	947	2,690
Tennessee	240,301	17,409	7,927	89,421	26,685	490	85,457	2,945	8,844	1,123
Texas	663,461	35,999	62,935	231,484	16,280	4,004	253,008	18,022	37,306	4,423
Utah	142,459	5,295	23,906	48,357	5,300	1,202	44,044	1,877	10,897	1,581
Vermont	48,513	4,770	230	20,981	208	60	20,764	44	1,255	201
Virginia	245,614	16,596	12,345	79,819	28,227	1,508	75,758	10,599	13,759	7,003
Washington	302,009	13,623	24,649	94,369	6,997	1,344	122,495	4,380	29,021	5,131
West Virginia	85,794	6,956	724	35,633	747	355	11,524	236	28,933	786
Wisconsin	309,946	17,225	6,177	127,008	13,787	1,734	104,529	7,760	27,326	4,400
Wyoming	19,809	3,220	1,092	8,392	620	192	1,146	512	3,547	1,088
Outlying areas	305,153	16,423	316	262,779	419	5	15,246	217	8,607	1,141
American Samoa	1,169	662	0	507	0	0	0	0	0	0
Guam	11,105	1,654	0	8,930	0	0	382	0	34	105
Puerto Rico	234,982	11,254	316	248,662	419	5	14,720	217	8,458	931
Trust Territory of the Pacific	2,955	1,290	0	1,665	0	0	0	0	0	0
Virgin Islands	4,942	1,563	0	3,015	0	0	144	0	115	105

<sup>1</sup> Dollars reflect actual obligations during the fiscal year regardless of when the funds were actually spent by a recipient institution. Data include obligations to federally funded research and development centers administered by colleges and universities.

<sup>2</sup> Includes Department of Commerce, Department of Housing and Urban Development, Department of the Interior, Agency for International Development, Department of Labor, Department of Transportation, and Nuclear Regulatory Commission.

NOTE—Totals exclude loans to individuals such as the Federal Guaranteed Student Loan program sponsored by the Department of Education, and Federal training and development activities, as well as funds allocated to State agencies, even though the final recipient of such funds is known to be an academic institution. Tuition support programs such as Pell Grants are included in these figures.

SOURCE: National Science Foundation, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1987* (This table was prepared December 1988).

Table 311.—Federal obligations to colleges and universities, by agency and State: Fiscal year 1986<sup>1</sup>

[In thousands]

State or other area	Total	Department of Agriculture	Department of Defense	Department of Education	Department of Energy	Environmental Protection Agency	Department of Health and Human Services	National Aeronautics and Space Administration	National Science Foundation	Other <sup>2</sup>
1	2		4	5	6	7	8	9	10	11
<b>United States.....</b>	<b>\$14,823,797</b>	<b>\$595,304</b>	<b>\$1,519,955</b>	<b>\$3,756,216</b>	<b>\$2,621,623</b>	<b>\$70,704</b>	<b>\$3,758,607</b>	<b>\$1,164,945</b>	<b>\$1,146,538</b>	<b>\$189,905</b>
Alabama.....	221,824	19,876	7,756	106,873	10,021	589	61,522	9,959	3,528	1,900
Alaska.....	24,498	2,554	716	7,863	1,429	0	364	2,182	6,228	3,182
Arizona.....	136,479	6,013	11,881	33,492	1,048	1,217	30,835	8,299	38,226	5,468
Arkansas.....	66,562	12,575	444	42,939	695	332	5,932	245	1,697	1,703
California.....	3,107,404	23,907	149,783	223,645	1,024,922	4,892	538,715	951,518	176,986	13,036
Colorado.....	215,693	7,564	9,858	48,815	5,379	2,495	56,875	11,863	65,110	7,734
Connecticut.....	196,993	3,617	7,844	31,820	8,211	316	128,880	1,016	13,159	2,130
Delaware.....	21,826	3,602	1,437	6,271	260	176	2,542	126	6,020	1,392
District of Columbia.....	292,741	1,748	6,307	234,942	1,039	501	38,811	3,853	4,226	1,516
Florida.....	238,470	16,566	15,725	95,180	13,023	1,852	66,127	4,131	21,249	4,617
Georgia.....	243,321	18,674	49,810	75,697	14,208	2,354	58,644	2,879	13,711	7,344
Hawaii.....	47,676	4,911	1,643	12,612	1,410	60	9,087	5,298	7,809	4,846
Idaho.....	23,242	5,512	132	14,880	122	356	719	209	484	828
Illinois.....	835,303	18,836	27,020	162,415	397,878	2,576	143,145	8,993	69,839	4,601
Indiana.....	208,759	14,624	9,419	92,801	9,427	856	45,020	2,800	32,622	1,190
Iowa.....	167,987	16,726	10,664	59,022	17,436	1,146	50,614	4,375	7,408	596
Kansas.....	86,960	10,175	2,677	43,475	3,466	325	18,368	1,371	4,652	2,351
Kentucky.....	115,629	17,963	1,134	73,180	803	234	17,854	685	3,349	427
Louisiana.....	151,017	13,622	3,790	82,133	7,292	963	34,822	579	4,004	3,812
Maine.....	37,829	4,455	195	28,569	250	730	1,594	88	1,427	521
Maryland.....	602,952	9,896	334,203	48,886	8,397	816	158,493	12,178	24,968	5,115
Massachusetts.....	1,008,134	6,843	421,880	132,096	65,791	4,980	249,135	16,920	101,683	8,806
Michigan.....	329,652	17,869	12,878	120,276	8,498	1,722	109,418	12,227	39,129	7,635
Minnesota.....	215,114	14,636	3,525	95,821	4,722	1,841	76,063	1,638	15,646	1,222
Mississippi.....	99,653	16,966	2,784	63,344	3,638	396	10,218	439	1,268	600
Missouri.....	209,222	18,826	2,860	73,958	2,650	280	95,604	2,556	8,368	4,120
Montana.....	28,517	4,901	259	15,010	0	1,493	2,151	126	1,879	2,698
Nebraska.....	65,148	8,908	592	32,820	567	166	11,171	339	4,191	6,394
Nevada.....	19,692	2,494	387	6,821	293	2,654	2,769	335	1,404	2,535
New Hampshire.....	44,557	3,329	2,765	10,389	814	213	16,069	3,834	4,136	3,008
New Jersey.....	265,240	6,805	14,189	73,219	99,439	442	41,054	3,262	24,244	2,786
New Mexico.....	670,026	6,114	57,213	29,082	552,842	531	13,922	5,726	4,008	588
New York.....	1,250,787	19,688	51,364	290,640	239,311	6,651	475,018	11,662	142,537	13,916
North Carolina.....	330,537	25,865	12,301	95,651	4,876	5,154	156,745	2,804	20,900	6,241
North Dakota.....	42,168	6,351	378	25,951	429	0	2,822	0	389	6,048
Ohio.....	372,105	18,478	43,078	161,457	4,120	3,667	100,474	13,050	21,424	6,357
Oklahoma.....	98,137	17,281	4,128	54,925	1,480	1,005	10,144	4,461	3,790	923
Oregon.....	158,692	12,042	6,533	55,526	10,193	1,831	47,530	1,752	15,346	7,839
Pennsylvania.....	587,017	19,013	92,700	171,727	15,779	1,739	215,765	5,284	55,277	5,733
Rhode Island.....	73,428	2,865	9,274	20,970	7,678	1,009	12,882	1,603	14,763	2,78

Table 311.—Federal obligations to colleges and universities, by agency and State: Fiscal year 1986<sup>1</sup>—Continued

[In thousands]

State or other area	Total	Department of Agriculture	Department of Defense	Department of Education	Department of Energy	Environmental Protection Agency	Department of Health and Human Services	National Aeronautics and Space Administration	National Science Foundation	Other <sup>2</sup>
1	2		4	5	6	7	8	9	10	11
South Carolina .....	107,369	13,463	2,159	60,669	711	485	22,752	289	6,328	513
South Dakota .....	39,843	5,731	60	28,732	99	77	1,298	443	769	2,634
Tennessee .....	213,869	17,497	3,547	85,798	23,741	827	71,786	3,217	6,381	1,075
Texas .....	543,795	31,339	61,649	155,708	14,430	4,194	216,113	16,462	40,075	3,825
Utah .....	124,664	4,814	18,673	35,268	6,583	1,219	42,225	1,939	11,745	2,198
Vermont .....	43,617	3,710	538	19,171	169	162	18,534	57	1,145	131
Virginia .....	205,171	16,478	10,288	84,102	5,752	999	62,802	8,297	11,935	4,518
Washington .....	272,155	12,945	22,584	86,394	5,970	1,748	106,358	3,740	27,537	4,879
West Virginia .....	78,928	7,247	458	33,542	546	305	9,762	234	26,032	802
Wisconsin .....	270,456	16,738	7,667	103,505	13,478	1,900	88,888	9,156	25,663	3,481
Wyoming .....	13,039	3,254	806	4,134	308	128	792	446	1,844	1,327
Outlying areas .....	280,887	15,912	219	240,314	219	50	15,035	132	7,905	1,101
American Samoa .....	810	563	0	247	0	0	0	0	0	0
Guam .....	5,711	1,669	0	3,504	0	0	289	0	135	114
Puerto Rico .....	265,998	11,144	219	231,204	219	50	14,484	132	7,673	873
Trust Territory of the Pacific .....	6,359	997	0	5,277	0	0	85	0	0	0
Virgin Islands .....	2,009	1,539	0	82	0	0	177	0	97	114

<sup>1</sup> Dollars reflect actual obligations during the fiscal year regardless of when the funds were actually spent by a recipient institution. Data include obligations to federally funded research and development centers administered by colleges and universities.

<sup>2</sup> Includes Department of Commerce, Department of Housing and Urban Development, Department of the Interior, Agency for International Development, Department of Labor, Department of Transportation, and Nuclear Regulatory Commission.

NOTE—Totals exclude loans to individuals, such as the Federal Guaranteed Student Loan program sponsored by the Department of Education, and Federal training and development activities, as well as funds allocated to State agencies, even though the final recipient of such funds is known to be an academic institution. Tuition support programs such as Pell Grants are included in these figures.

SOURCE: National Science Foundation, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1986* (This table was prepared August 1988).

Table 312.—Summary of Federal funds for research, development, and R & D plant: Fiscal years 1982 to 1989

[In millions of dollars]

Item	Actual						Estimated		Percent change, 1988 to 1989
	1982	1983	1984	1985	1986	1987	1988	1989	
1	2	3	4	5	6	7	8	9	10
<b>Total outlays for research, development, and R &amp; D plant</b>	<b>\$35,766.8</b>	<b>\$37,958.4</b>	<b>\$41,330.1</b>	<b>\$45,860.3</b>	<b>\$52,090.3</b>	<b>\$53,214.2</b>	<b>\$54,833.1</b>	<b>\$59,960.4</b>	<b>9.4</b>
Research and development	34,390.7	36,659.4	39,891.0	44,171.4	50,609.1	51,811.7	52,650.4	57,785.2	9.3
R & D plant	1,376.1	1,299.9	1,839.2	1,688.9	1,481.2	1,602.4	1,982.7	2,175.2	9.7
<b>Total obligations for research, development, and R &amp; D plant</b>	<b>37,822.4</b>	<b>40,008.6</b>	<b>44,012.2</b>	<b>50,190.4</b>	<b>52,951.2</b>	<b>57,101.4</b>	<b>60,751.9</b>	<b>62,706.8</b>	<b>3.2</b>
<b>Research and development</b>	<b>36,432.6</b>	<b>38,711.5</b>	<b>42,224.9</b>	<b>48,359.6</b>	<b>51,412.4</b>	<b>55,255.4</b>	<b>58,512.0</b>	<b>60,323.2</b>	<b>3.1</b>
<b>Performers:</b>									
Federal intramural <sup>1</sup>	9,141.0	10,581.9	11,572.3	12,945.4	13,534.9	13,413.1	14,514.2	14,745.3	1.6
Industrial firms	17,192.2	17,147.6	18,753.2	21,968.7	24,508.6	26,752.0	28,233.4	29,163.6	3.4
FFRDCS <sup>2</sup> administered by industrial firms	1,506.4	1,501.2	1,808.4	1,790.8	1,897.0	1,860.0	1,887.7	1,922.6	1.9
Universities and colleges	4,605.5	4,966.4	5,565.1	6,357.5	6,579.3	7,353.6	7,771.1	8,187.2	5.1
FFRDCS <sup>2</sup> administered by universities and colleges	1,978.7	2,265.8	2,324.9	2,534.9	2,439.6	3,209.5	3,371.3	3,837.7	7.9
Other nonprofit institutions	1,091.7	1,241.6	1,497.3	1,899.2	1,875.5	1,710.6	1,800.5	1,705.9	-5.3
FFRDCS <sup>2</sup> administered by nonprofit institutions	520.6	581.3	597.1	689.2	552.6	510.6	514.0	528.2	2.8
State and local governments	184.3	186.0	130.9	129.4	128.4	148.3	148.1	142.1	-4.0
Foreign	214.3	239.5	175.6	244.5	296.3	297.6	271.6	290.3	6.9
<b>Research</b>	<b>13,022.2</b>	<b>14,253.5</b>	<b>14,978.8</b>	<b>16,133.4</b>	<b>16,502.2</b>	<b>17,942.7</b>	<b>18,963.9</b>	<b>19,712.0</b>	<b>4.5</b>
<b>Performers:</b>									
Federal intramural <sup>1</sup>	4,194.2	4,710.3	4,764.7	5,056.1	5,160.4	5,437.7	5,625.8	5,774.1	2.8
Industrial firms	2,156.6	2,152.6	2,185.9	2,159.1	2,379.3	2,448.6	2,557.6	2,809.5	9.9
FFRDCS <sup>2</sup> administered by industrial firms	487.3	522.7	496.5	485.9	482.1	433.5	448.9	458.1	2.0
Universities and colleges	4,045.4	4,468.0	5,029.7	5,726.3	5,883.5	6,640.3	7,051.3	7,426.6	5.3
FFRDCS <sup>2</sup> administered by universities and colleges	1,056.7	1,211.6	1,267.5	1,336.5	1,192.9	1,470.9	1,601.3	1,985.9	5.3
Other nonprofit institutions	743.5	836.9	922.6	1,045.1	1,061.6	1,207.3	1,288.9	1,261.0	-2.2
FFRDCS <sup>2</sup> administered by nonprofit institutions	104.2	85.2	87.3	97.0	89.2	89.6	84.4	87.7	3.9
State and local governments	125.9	136.7	88.2	89.5	91.0	90.2	93.1	89.9	-3.4
Foreign	108.3	129.6	116.5	137.9	162.4	124.3	112.6	119.2	5.8
<b>Fields of science</b>									
Life sciences	4,745.5	5,177.9	5,636.0	6,362.5	6,464.3	7,343.8	7,809.3	7,954.1	1.9
Psychology	218.4	240.9	266.7	327.1	334.0	389.5	378.0	397.8	5.2
Physical sciences	2,500.4	2,891.4	2,969.0	3,046.0	3,066.9	3,252.7	3,386.6	3,707.2	9.5
Environmental sciences	1,148.3	1,251.2	1,275.9	1,403.7	1,481.7	1,511.6	1,630.7	1,690.6	3.7
Mathematics and computer sciences	350.1	419.4	440.3	574.9	815.4	640.6	682.1	788.7	15.3
Engineering	3,386.6	3,517.0	3,824.1	3,817.6	3,739.0	3,906.2	4,082.1	4,252.5	4.2
Social sciences	385.9	435.3	438.3	460.0	415.5	480.1	486.3	495.3	1.9
Other sciences	267.0	320.4	330.5	341.6	383.3	438.3	408.7	427.9	4.7
<b>Basic research</b>	<b>5,481.8</b>	<b>6,260.1</b>	<b>7,067.4</b>	<b>7,818.7</b>	<b>8,153.1</b>	<b>8,944.1</b>	<b>9,822.7</b>	<b>10,296.5</b>	<b>7.0</b>
<b>Performers</b>									
Federal intramural <sup>1</sup>	1,465.5	1,689.8	1,881.1	1,923.4	2,018.9	2,048.2	2,173.2	2,269.0	4.4
Industrial firms	270.9	305.7	384.1	408.4	544.6	466.9	582.8	659.0	13.1
FFRDCS <sup>2</sup> administered by industrial firms	87.4	63.0	91.1	122.8	117.8	119.9	134.7	142.2	5.6
Universities and colleges	2,727.1	3,112.3	3,530.6	4,038.7	4,132.1	4,665.6	4,927.1	5,308.3	7.7
FFRDCS <sup>2</sup> administered by universities and colleges	518.7	591.2	652.7	695.9	691.1	906.8	1,008.7	1,101.0	9.1
Other nonprofit institutions	355.8	409.8	473.8	555.8	572.0	657.7	712.5	733.6	3.0
FFRDCS <sup>2</sup> administered by nonprofit institutions	9.0	8.0	8.2	12.4	13.1	13.3	13.8	15.1	10.0
State and local governments	24.5	32.1	28.1	30.5	31.0	37.5	40.1	41.0	2.3
Foreign	24.9	28.5	27.7	30.9	32.7	30.2	30.0	30.3	1.3
<b>Fields of science</b>									
Life sciences	2,526.0	2,891.3	3,267.6	3,786.6	3,858.6	4,363.6	4,674.2	4,859.7	4.0
Psychology	89.9	92.9	107.9	132.6	133.0	147.2	151.1	162.2	7.3
Physical sciences	1,393.6	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,284.9	2,547.7	11.5
Environmental sciences	520.1	580.1	656.7	699.7	749.1	781.0	862.5	945.6	9.7
Mathematics and computer sciences	185.1	208.1	240.8	260.0	293.4	306.4	330.7	396.2	19.8
Engineering	810.5	689.5	845.0	884.2	968.5	989.5	1,057.8	1,114.6	5.4
Social sciences	120.2	137.7	132.6	140.7	113.5	129.5	133.5	138.1	1.9
Other sciences	56.1	73.3	68.6	99.4	122.5	130.9	128.0	137.3	7.3
<b>Applied research</b>	<b>7,540.6</b>	<b>7,993.4</b>	<b>7,911.4</b>	<b>8,314.7</b>	<b>8,349.1</b>	<b>8,998.6</b>	<b>9,241.2</b>	<b>9,412.5</b>	<b>1.9</b>
<b>Performers</b>									
Federal intramural <sup>1</sup>	2,728.7	3,020.4	2,903.6	3,132.7	3,141.5	3,391.5	3,452.4	3,505.2	1.5
Industrial firms	1,885.7	1,846.9	1,791.8	1,750.7	1,834.7	1,981.7	1,975.0	2,150.5	8.9
FFRDCS <sup>2</sup> administered by industrial firms	400.0	439.7	405.4	363.3	364.5	313.6	314.2	315.9	0.5
Universities and colleges	1,318.3	1,355.8	1,498.9	1,687.8	1,751.4	1,974.5	2,124.2	2,118.3	-0.3
FFRDCS <sup>2</sup> administered by universities and colleges	540.0	620.5	634.8	840.8	501.8	564.3	582.6	584.9	-1.3
Other nonprofit institutions	387.9	427.3	449.1	489.3	489.8	549.7	576.4	527.5	-8.5
FFRDCS <sup>2</sup> administered by nonprofit institutions	95.2	77.1	79.1	84.8	76.1	76.5	70.8	77.5	2.7
State and local governments	101.4	104.7	60.0	58.9	60.0	52.7	53.0	39.9	-7.7
Foreign	83.4	101.1	88.6	107.0	129.7	94.1	82.9	88.6	7.2



Table 312.—Summary of Federal funds for research, development, and R &amp; D plant: Fiscal years 1982 to 1989—Continued

[In millions of dollars]

Item	Actual						Estimated		Percent change, 1988 to 1989
	1982	1983	1984	1985	1986	1987	1988	1989	
1	2	3	4	5	6	7	8	9	10
<b>Fields of science.</b>									
Life sciences .....	2,219.5	2,266.6	2,348.3	2,575.9	2,605.5	2,960.2	3,135.1	3,094.5	-1.3
Psychology .....	128.5	147.9	158.8	194.3	201.0	222.4	226.8	235.4	3.6
Physical sciences .....	1,106.5	1,304.3	1,241.0	1,230.8	1,154.6	1,156.6	1,101.9	1,159.5	5.2
Environmental sciences .....	628.3	671.2	619.2	704.0	732.6	730.6	766.2	744.9	-3.0
Mathematics and computer sciences .....	185.0	211.3	199.5	314.9	322.0	334.3	351.4	390.5	11.1
Engineering .....	2,776.1	2,627.5	2,779.1	2,733.4	2,770.5	2,916.7	3,024.3	3,137.9	3.6
Social sciences .....	265.8	297.6	303.8	319.3	302.1	350.5	352.6	359.2	1.6
Other sciences .....	231.0	247.1	261.7	242.2	260.9	307.4	280.7	290.6	3.5
<b>Development</b> .....	<b>23,410.4</b>	<b>24,458.0</b>	<b>27,246.1</b>	<b>32,226.1</b>	<b>34,910.2</b>	<b>37,312.7</b>	<b>39,648.1</b>	<b>40,611.2</b>	<b>2.4</b>
<b>Performers.</b>									
Federal intramural <sup>1</sup> .....	4,946.6	5,671.7	6,807.8	7,689.3	8,374.6	7,975.4	8,688.6	8,971.2	0.9
Industrial firms .....	15,035.7	14,995.2	16,567.3	19,809.5	22,129.3	24,303.4	25,675.9	26,374.2	2.7
FFRDCS <sup>2</sup> administered by industrial firms .....	1,019.1	978.5	1,112.0	1,304.9	1,215.0	1,426.4	1,438.8	1,464.7	1.6
Universities and colleges .....	560.0	496.5	535.4	631.2	695.6	713.2	719.8	740.6	2.9
FFRDCS <sup>2</sup> administered by universities and colleges .....	920.0	1,054.2	1,037.4	1,198.3	1,246.9	1,738.6	1,770.0	1,951.6	10.3
Other nonprofit institutions .....	348.1	404.7	574.6	654.1	813.9	503.4	511.6	444.9	-13.0
FFRDCS <sup>2</sup> administered by nonprofit institutions .....	416.4	496.1	509.8	592.2	463.4	420.6	429.6	440.5	2.5
State and local governments .....	58.4	49.3	42.8	39.9	37.4	58.0	55.0	52.2	-5.1
Foreign .....	106.0	109.9	59.2	106.7	133.6	173.4	158.6	171.1	7.6
<b>R &amp; D plant</b> .....	<b>1,369.8</b>	<b>1,296.1</b>	<b>1,787.3</b>	<b>1,820.8</b>	<b>1,538.8</b>	<b>1,848.0</b>	<b>2,239.9</b>	<b>2,383.6</b>	<b>6.4</b>
<b>Performers supported.</b>									
Federal intramural <sup>1</sup> .....	426.0	393.9	632.8	630.2	317.1	301.6	459.7	388.1	-15.6
Industrial firms .....	110.4	260.8	451.7	296.5	409.7	668.7	827.9	1,162.1	40.4
FFRDCS <sup>2</sup> administered by industrial firms .....	362.2	166.4	196.6	187.8	215.9	212.9	231.5	255.5	10.4
Universities and colleges .....	30.3	32.1	78.3	136.2	132.7	30.5	228.9	65.7	-71.3
FFRDCS <sup>2</sup> administered by universities and colleges .....	441.7	353.0	363.2	454.2	420.9	400.5	466.6	495.7	6.2
Other nonprofit institutions .....	6.6	82.1	55.6	69.4	11.8	20.6	17.5	2.7	-84.3
FFRDCS <sup>2</sup> administered by nonprofit institutions .....	9.4	7.9	4.2	9.1	9.6	5.4	5.3	10.9	104.6
State and local governments .....	—	—	—	0.1	—	—	—	0.4	—
Foreign .....	3.2	1.6	4.9	35.5	21.0	5.6	2.2	2.4	9.4

<sup>1</sup> Costs associated with the administration of intramural and extramural programs are covered as well as actual intramural performance

<sup>2</sup> Federally funded research and development centers

—Data not available or not applicable

NOTE —Because of rounding, details may not add to totals

SOURCE: National Science Foundation, *Federal Funds for Research and Development*, various years (This table was prepared February 1989)

**Table 313.—Federal obligations to colleges and universities for research and development, by field: United States and outlying areas, 1976-77 to 1986-87**

Field of science or engineering	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87
1	2	3	4	5	6	7	8	9	10	11	12
<b>Total, all fields</b> .....	<b>\$2,803,017</b>	<b>\$3,385,770</b>	<b>\$3,873,514</b>	<b>\$4,160,543</b>	<b>\$4,410,931</b>	<b>\$4,554,475</b>	<b>\$5,024,330</b>	<b>\$5,448,821</b>	<b>\$6,246,181</b>	<b>\$6,456,646</b>	<b>\$7,240,090</b>
<b>Engineering, total</b> .....	<b>265,840</b>	<b>503,686</b>	<b>574,747</b>	<b>612,456</b>	<b>792,223</b>	<b>804,054</b>	<b>913,604</b>	<b>847,674</b>	<b>944,413</b>	<b>998,312</b>	<b>986,870</b>
Aeronautical.....	13,053	20,840	24,883	28,044	31,056	35,530	39,765	40,678	39,903	42,257	40,019
Astronautical.....	1,674	849	3,720	4,634	4,875	8,569	16,373	12,405	14,765	24,147	23,474
Chemical.....	31,065	41,624	20,866	22,210	27,667	30,274	37,685	50,677	68,602	50,379	52,273
Civil.....	25,018	37,227	37,521	48,130	58,300	38,745	52,231	55,843	45,368	35,402	30,218
Electrical.....	45,449	76,337	82,158	86,916	115,011	139,442	170,381	161,336	231,457	212,175	195,645
Mechanical.....	22,109	25,156	26,013	42,593	37,954	37,636	42,577	45,952	53,214	56,416	60,037
Metallurgy and materials.....	35,577	40,681	36,899	63,057	52,815	63,998	66,146	75,341	80,416	101,457	98,233
Other engineering.....	91,895	260,972	342,687	316,872	464,545	449,660	488,446	405,442	410,688	476,079	486,971
<b>All sciences, total</b> .....	<b>2,537,177</b>	<b>2,882,084</b>	<b>3,298,767</b>	<b>3,548,087</b>	<b>3,618,708</b>	<b>3,750,421</b>	<b>4,110,726</b>	<b>4,601,147</b>	<b>5,301,768</b>	<b>5,458,334</b>	<b>6,253,220</b>
Physical sciences, total.....	401,211	445,482	462,887	507,884	500,657	563,440	621,410	715,948	789,184	770,254	824,135
Astronomy.....	32,427	37,864	45,036	52,736	54,835	54,001	62,278	78,124	78,654	78,435	84,587
Chemistry.....	123,744	139,507	155,806	170,048	165,189	183,231	192,171	230,689	256,156	255,593	271,146
Physics.....	198,591	231,405	224,197	249,661	250,342	284,711	325,998	359,757	397,061	379,289	405,756
Other physical sciences.....	46,449	36,706	37,823	35,439	30,291	41,497	40,963	47,378	57,313	56,937	62,646
Mathematical sciences.....	48,872	42,781	42,518	53,987	53,668	57,687	64,813	76,436	94,680	96,405	116,039
Computer sciences.....	26,671	34,856	29,091	37,585	37,493	44,844	52,727	58,667	78,634	82,594	79,723
Environmental sciences, total.....	302,645	304,116	339,821	379,453	330,079	344,313	372,236	398,538	453,789	468,882	496,444
Atmospheric sciences.....	88,304	85,496	91,222	86,486	95,112	94,463	103,851	114,183	135,562	124,657	151,294
Geological sciences.....	107,031	116,077	118,176	109,523	101,207	101,005	101,570	116,850	100,901	118,401	119,682
Oceanography.....	55,908	57,279	74,789	92,079	91,863	102,340	120,448	136,426	138,732	121,855	150,225
Other environmental sciences.....	51,402	45,264	55,634	81,365	41,897	46,505	46,367	47,028	62,645	103,969	76,263
Life sciences, total.....	—	—	2,016,524	2,137,751	2,290,587	2,380,991	2,617,274	2,932,582	3,362,712	3,463,114	4,034,476
Biological sciences.....	—	—	1,054,787	1,085,602	1,192,756	1,201,934	1,339,982	1,548,809	1,775,397	1,849,516	2,179,502
Environmental biology.....	—	—	15,564	13,137	14,636	6,448	8,073	80,595	78,601	86,088	87,628
Agricultural sciences.....	231,926	—	102,251	111,739	134,660	162,192	170,180	158,369	168,927	143,249	149,484
Medical sciences.....	779,667	711,002	801,172	885,898	904,963	969,253	1,050,458	1,120,032	1,294,571	1,325,157	1,546,711
Other life sciences.....	32,398	30,934	42,750	41,375	43,572	41,164	48,581	24,777	44,216	59,104	71,151
Psychological sciences, total.....	57,235	71,891	91,357	86,459	87,734	84,406	93,849	109,787	132,746	138,338	176,474
Biological aspects.....	19,715	22,816	25,164	28,269	26,273	24,735	24,760	33,515	39,700	39,049	46,194
Social aspects.....	21,318	27,457	30,600	31,129	28,846	25,166	27,787	30,261	36,205	38,589	51,507
Other psychological sciences.....	16,202	21,618	35,593	27,061	32,615	34,505	41,302	46,011	56,841	60,700	78,773
Social sciences, total.....	134,020	184,729	207,258	203,948	197,695	134,323	175,127	162,492	175,909	172,148	173,654
Anthropology.....	5,882	7,432	7,115	7,757	5,543	11,994	12,678	5,529	6,053	6,455	6,998
Economics.....	21,581	52,748	52,239	51,414	56,704	52,382	52,756	37,675	45,292	37,764	56,013
History.....	1,017	1,426	1,451	1,688	1,069	3,200	4,623	1,038	1,494	1,508	1,634
Linguistics.....	2,300	2,261	2,462	2,997	2,745	3,629	3,419	2,967	3,196	2,481	2,843
Political science.....	3,837	4,861	5,063	5,890	5,122	10,681	17,149	7,965	6,216	5,003	5,492
Sociology.....	27,457	39,951	32,217	34,903	36,136	21,142	29,890	33,232	34,887	34,580	41,796
Other social sciences.....	71,946	76,050	103,711	99,299	88,376	31,295	54,612	74,086	78,771	78,357	58,878
Other sciences.....	78,368	79,126	109,331	141,020	120,795	140,417	113,290	146,697	214,114	266,599	352,275

—Data not available

SOURCE: National Science Foundation, Science Resources Studies Division, unpublished data. (This table was prepared December 1988.)

**Table 314.—Department of Agriculture obligations for child nutrition programs, by State or other area:  
Fiscal years 1987 and 1988**

[In thousands]

State or other area	Total, fiscal year 1987	Fiscal year 1988								
		Total	Soecial milk	School lunch <sup>1</sup>	School breakfast	State adminis- trative expense	Commodities and cash in lieu of commodities	Child care	Summer food service	Nutrition education and training
1	2	3	4	5	6	7	8	9	10	11
<b>Total.....</b>	<b>\$5,153,751</b>	<b>\$5,150,884</b>	<b>\$22,119</b>	<b>\$2,934,996</b>	<b>\$473,190</b>	<b>\$55,443</b>	<b><sup>2</sup> \$910,748</b>	<b>\$613,078</b>	<b>\$136,312</b>	<b>\$5,000</b>
Alabama.....	117,293	119,123	34	71,031	12,278	1,294	19,161	11,832	3,620	73
Alaska.....	11,338	12,085	27	6,698	885	326	1,383	2,929	7	50
Arizona.....	60,103	66,254	206	37,752	6,705	760	9,881	9,896	998	56
Arkansas.....	60,269	59,473	27	35,894	6,260	719	11,503	4,970	250	50
California.....	499,168	509,128	715	290,801	55,821	5,534	83,527	61,044	11,230	456
Colorado.....	57,079	57,933	133	28,532	2,588	1,057	10,159	14,628	781	55
Connecticut.....	36,997	37,343	494	18,462	1,616	522	8,948	6,338	902	51
Delaware.....	11,618	12,038	32	5,328	981	288	1,911	2,664	784	50
District of Columbia.....	14,651	16,702	16	10,020	1,781	326	2,017	1,972	520	50
Florida.....	214,837	224,555	119	131,289	26,498	2,134	35,168	21,273	7,902	172
Georgia.....	156,509	184,847	69	94,402	16,030	1,795	31,032	17,050	4,359	110
Hawaii.....	23,493	24,267	10	14,821	2,333	349	4,505	1,847	352	50
Idaho.....	19,090	18,466	122	11,228	532	305	4,433	1,731	65	50
Illinois.....	191,695	205,529	2,524	126,071	12,923	2,068	36,461	21,260	4,022	200
Indiana.....	71,552	79,748	333	43,828	3,058	828	22,096	8,293	1,213	97
Iowa.....	54,928	50,133	242	29,612	1,717	619	10,742	6,327	824	50
Kansas.....	46,599	49,940	393	25,239	1,096	536	9,723	12,412	491	50
Kentucky.....	98,902	101,133	276	58,350	14,250	1,021	19,848	6,098	1,225	65
Louisiana.....	156,114	159,380	84	98,180	16,765	1,830	22,210	16,652	3,772	87
Maine.....	21,417	20,868	161	10,946	840	372	4,407	3,804	288	50
Maryland.....	66,085	67,909	340	35,701	5,094	814	14,645	9,615	1,628	72
Massachusetts.....	88,875	94,544	517	41,421	7,859	1,187	18,030	23,300	2,141	89
Michigan.....	130,255	140,778	1,410	78,300	4,900	1,468	30,414	20,210	3,911	165
Minnesota.....	74,346	85,022	750	37,200	1,900	1,070	16,018	26,775	1,236	73
Mississippi.....	117,416	120,426	17	69,595	15,843	1,296	14,447	14,672	4,504	52
Missouri.....	83,838	86,055	494	47,778	5,778	865	18,887	11,057	1,312	84
Montana.....	15,522	18,393	67	8,743	779	354	3,293	2,876	231	50
Nebraska.....	28,712	31,068	220	16,453	900	447	7,273	5,429	316	50
Nevada.....	9,873	11,317	32	6,133	1,335	254	2,432	997	84	50
New Hampshire.....	10,881	11,165	200	5,679	509	278	2,920	1,328	201	50
New Jersey.....	100,705	99,388	974	57,063	5,404	1,444	19,017	12,020	3,345	121
New Mexico.....	45,399	46,946	27	28,053	3,807	663	5,967	8,246	2,133	50
New York.....	374,309	383,221	1,750	207,405	37,773	2,703	59,364	40,646	33,289	291
North Carolina.....	146,582	146,485	107	84,409	19,779	1,505	25,646	11,930	3,002	107
North Dakota.....	16,526	17,449	78	7,531	445	368	3,578	5,180	219	50
Ohio.....	174,954	191,426	1,248	112,593	15,984	1,711	39,427	17,823	2,453	187
Oklahoma.....	70,762	72,743	146	41,330	7,009	616	14,929	7,946	511	56
Oregon.....	39,178	41,817	212	23,243	2,344	538	9,035	5,824	571	50
Pennsylvania.....	177,079	174,195	707	98,411	7,600	1,669	38,070	19,309	8,151	188
Rhode Island.....	13,092	12,885	105	6,936	795	421	2,269	1,500	809	50
South Carolina.....	92,153	93,265	27	57,877	8,841	1,018	15,284	6,165	4,192	61
South Dakota.....	18,925	19,749	58	11,222	1,544	341	3,840	2,146	548	50
Tennessee.....	109,457	111,041	36	64,509	15,885	1,220	20,642	7,120	1,547	82
Texas.....	412,666	439,546	106	256,782	66,791	3,811	69,420	38,907	3,417	312
Utah.....	38,862	37,544	44	20,561	556	490	6,462	7,200	181	50
Vermont.....	7,223	8,098	187	3,966	196	271	1,668	1,721	39	50
Virginia.....	92,182	97,060	265	55,775	7,408	724	22,065	9,300	1,427	96
Washington.....	70,862	74,047	241	38,296	3,610	586	13,839	16,781	648	76
West Virginia.....	47,573	48,455	32	27,311	8,708	686	7,709	3,345	614	50
Wisconsin.....	89,062	65,022	1,562	35,523	2,208	770	17,237	7,007	831	84
Wyoming.....	8,978	9,636	22	4,551	227	279	2,173	2,239	95	50
Department of Defense Dependents schools.....	4,735	5,980	0	1,874	0	0	3,806	0	0	0
Outlying areas										
American Samoa.....	3,821	3,937	0	2,162	958	174	593	0	0	50
Guam.....	3,623	3,432	0	2,012	636	211	516	7	0	50
North American Marianas.....	2,005	2,142	0	1,254	517	173	148	0	0	50
Puerto Rico.....	134,503	136,521	0	97,010	16,692	1,306	18,117	0	3,328	88
Trust Territory of the Pacific <sup>3</sup> .....	5,514	1,047	0	235	8	92	697	0	0	15
Virgin Islands.....	5,658	5,005	4	3,100	114	238	601	380	431	50
Undistributed <sup>4</sup> .....	318,911	1,746,8	4,026	88,946	7,700	690	9,289	31,255	5,562	0

<sup>1</sup> Special Meal Assistance program is combined with "School Lunch" program<sup>2</sup> Includes commodities purchased for future distribution.<sup>3</sup> Includes the Marshall Islands, Federated States of Micronesia, and Palau.<sup>4</sup> Undistributed amount reflects the difference between preliminary State earnings reports and Federal obligations as of September 30, 1988.

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Agriculture, Food and Nutrition Service, Budget Division, unpublished data. (This table was prepared January 1989)

**Table 315.—Department of Agriculture obligations for child nutrition programs, by State or other area: Fiscal years 1986 and 1987**

[In thousands]

State or other area	Total, fiscal year 1986	Fiscal year 1987								
		Total	Special milk	School lunch <sup>1</sup>	School breakfast	State administrative expense	Commodities and cash in lieu of commodities	Child care	Summer food service	Nutrition education and training
1	2	3	4	5	6	7	8	9	10	11
<b>Total</b> .....	<b>\$4,671,336</b>	<b>\$5,153,751</b>	<b><sup>2</sup>\$17,451</b>	<b><sup>2</sup>\$3,000,839</b>	<b><sup>2</sup>\$468,272</b>	<b>\$49,800</b>	<b><sup>3</sup>\$933,118</b>	<b><sup>2</sup>\$551,308</b>	<b><sup>2</sup>\$127,973</b>	<b>\$4,000</b>
Alabama .....	115,957	117,293	45	69,749	11,919	1,233	13,004	11,244	4,026	73
Alaska .....	11,301	11,339	29	6,255	587	283	1,228	2,900	8	50
Arizona .....	57,113	60,103	400	34,382	5,960	699	8,770	8,967	873	52
Arkansas .....	55,734	60,269	35	36,129	5,693	870	13,037	4,342	114	50
California .....	494,254	499,168	1,180	260,434	54,219	4,909	86,746	60,050	11,193	437
Colorado .....	51,607	57,079	336	27,137	2,450	692	12,330	13,285	795	54
Connecticut .....	36,765	36,997	604	18,525	1,075	503	9,210	5,754	1,274	52
Delaware .....	11,508	11,818	46	4,954	929	270	2,389	2,183	797	50
District of Columbia .....	15,353	14,851	18	9,005	1,468	314	1,817	1,755	425	50
Florida .....	199,727	214,837	120	124,262	22,167	1,969	39,390	19,180	7,569	161
Georgia .....	151,799	156,509	77	90,203	18,041	1,568	30,077	14,467	3,967	108
Hawaii .....	23,109	23,493	12	14,727	2,290	331	4,090	1,625	370	50
Idaho .....	17,538	19,080	99	12,008	500	279	4,252	1,826	66	50
Illinois .....	187,106	191,695	2,682	114,126	11,323	1,931	35,594	20,694	5,129	207
Indiana .....	77,958	71,552	231	39,036	2,966	762	19,274	7,525	1,638	100
Iowa .....	49,557	54,928	194	30,153	1,518	557	18,045	5,790	621	50
Kansas .....	40,540	46,599	117	23,911	913	479	10,967	9,626	537	50
Kentucky .....	96,014	98,902	107	57,220	13,820	928	19,914	5,538	1,311	65
Louisiana .....	141,337	156,114	81	98,828	15,836	1,554	21,320	15,668	2,930	88
Maine .....	20,019	21,417	104	11,360	872	346	4,954	3,428	283	50
Maryland .....	80,731	66,065	374	34,877	5,017	732	14,680	9,017	1,319	73
Massachusetts .....	82,966	88,875	437	40,454	7,189	1,113	19,778	17,847	1,962	95
Michigan .....	126,811	130,255	1,109	77,396	4,529	1,388	22,984	18,608	4,064	178
Minnesota .....	74,065	74,346	441	31,595	1,525	987	15,573	22,903	1,249	73
Mississippi .....	107,332	117,416	19	67,897	14,699	1,185	14,827	14,112	4,827	50
Missouri .....	85,343	83,838	319	46,466	5,441	660	20,574	8,989	1,303	86
Montana .....	14,896	15,522	52	8,341	733	338	3,323	2,432	254	50
Nebraska .....	27,795	28,712	109	15,647	767	396	5,811	5,661	269	50
Nevada .....	9,079	8,873	29	5,578	1,174	240	2,111	638	53	50
New Hampshire .....	11,005	10,981	238	5,641	518	265	2,711	1,281	177	50
New Jersey .....	97,384	100,705	823	58,224	5,462	1,074	19,921	10,847	4,228	127
New Mexico .....	40,956	45,399	33	26,127	3,367	545	8,795	8,974	1,487	50
New York .....	381,845	374,309	1,924	204,819	35,978	2,457	81,588	38,191	29,250	303
North Carolina .....	144,835	148,592	118	83,426	19,912	1,636	29,875	10,805	2,710	110
North Dakota .....	15,773	16,526	23	7,249	405	341	3,272	4,978	208	50
Ohio .....	181,133	174,954	1,223	102,159	15,502	1,811	38,969	14,803	2,495	193
Oklahoma .....	63,645	70,762	42	39,818	6,446	738	15,927	7,387	549	56
Oregon .....	40,347	39,178	160	21,299	2,101	499	9,190	5,257	621	50
Pennsylvania .....	164,177	177,079	605	96,405	8,785	1,563	45,841	17,287	8,401	192
Rhode Island .....	12,557	13,092	86	7,182	603	260	2,339	1,450	922	50
South Carolina .....	93,317	92,153	40	57,352	8,753	913	15,156	5,643	4,234	61
South Dakota .....	18,012	18,925	39	10,683	1,527	289	3,871	1,852	814	50
Tennessee .....	104,566	109,457	42	62,563	15,187	1,025	22,005	7,026	1,528	82
Texas .....	372,578	412,666	108	242,082	62,592	3,353	70,243	30,494	3,493	302
Utah .....	34,624	38,862	28	19,780	551	441	8,445	8,442	126	50
Vermont .....	7,169	7,223	178	3,858	120	252	1,405	1,313	49	50
Virginia .....	90,538	92,182	148	53,184	8,526	691	21,911	8,045	1,582	95
Washington .....	86,568	70,862	384	37,215	3,419	424	13,574	15,210	564	73
West Virginia .....	46,728	47,573	31	27,153	8,825	543	7,687	2,889	596	50
Wisconsin .....	83,794	88,062	1,528	40,035	2,365	711	15,840	6,639	839	84
Wyoming .....	8,153	8,976	27	4,399	179	259	2,073	1,915	75	50
Department of Defense Dependents schools .....	4,849	4,735	0	1,812	0	0	3,123	0	0	0
<b>Outlying areas</b>										
American Samoa .....	3,948	3,821	0	1,957	1,004	163	647	0	0	50
Guam .....	3,796	3,923	0	2,082	679	200	657	5	0	0
Northern Marianas .....	1,959	2,005	0	1,147	429	163	216	0	0	50
Puerto Rico .....	142,045	134,503	0	97,032	18,443	1,216	16,139	0	3,601	72
Trust Territory of the Pacific <sup>4</sup> .....	12,772	5,514	0	3,233	964	131	1,136	0	0	50
Virgin Islands .....	5,738	5,658	5	3,509	138	222	907	425	402	50
Undistributed <sup>2</sup> .....	31,092	318,911	<sup>2</sup> 195	<sup>2</sup> 249,722	<sup>2</sup> 27,413	503	<sup>3</sup> 12,790	<sup>2</sup> 28,095	<sup>2</sup> 202	-10

<sup>1</sup> Special Meal Assistance program is combined with "School Lunch" program.  
<sup>2</sup> Undistributed amount reflects the difference between preliminary State earnings reports and Federal obligations as of September 30, 1987 and includes payments for September 1986 claims.  
<sup>3</sup> Includes commodities purchased for future distribution.  
<sup>4</sup> Includes the Marshall Islands, Federated States of Micronesia, and Palau.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Agriculture, Food and Nutrition Service, Budget Division, unpublished data. (This table was prepared April 1988.)

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Table 316.—Department of Health and Human Services allocations for Head Start and enrollment in Head Start, by State or other area: Fiscal years 1987 and 1988

State and other area	1987		1988	
	Head Start allocations (in thousands)	Head Start enrollment <sup>1</sup>	Head Start allocations (in thousands)	Head Start enrollment <sup>2</sup>
1	2	3	4	5
<b>Total</b>	<b>\$1,102,442</b>	<b>446,523</b>	<b>\$1,176,224</b>	<b>448,484</b>
Alabama	22,376	10,690	23,853	10,835
Alaska	2,320	800	2,446	800
Arizona	9,627	3,582	10,349	3,683
Arkansas	11,566	6,061	12,343	6,061
California	105,850	35,163	113,657	35,361
Colorado	10,174	4,730	10,752	4,456
Connecticut	10,406	4,220	11,021	4,220
Delaware	2,350	936	2,545	936
District of Columbia	6,380	2,063	6,687	2,285
Florida	30,510	12,991	32,674	13,031
Georgia	26,034	10,876	27,892	10,956
Hawaii	4,104	1,371	4,402	1,405
Idaho	3,107	1,166	3,332	1,166
Illinois	55,153	22,500	58,809	22,500
Indiana	15,343	6,954	16,536	7,036
Iowa	8,117	3,674	8,786	3,676
Kansas	6,676	3,319	7,405	3,390
Kentucky	21,281	10,188	22,708	10,188
Louisiana	23,151	10,523	24,896	10,465
Maine	4,575	1,661	4,988	2,365
Maryland	14,524	5,305	15,473	5,305
Massachusetts	24,099	7,721	25,383	8,147
Michigan	45,412	20,197	48,370	20,257
Minnesota	11,631	4,903	12,698	5,039
Mississippi	53,802	22,524	53,802	19,899
Missouri	19,072	8,770	20,297	8,777
Montana	2,744	1,177	2,955	1,177
Nebraska	4,513	2,044	4,782	2,044
Nevada	1,558	585	1,703	605
New Hampshire	2,069	777	2,213	748
New Jersey	32,476	9,709	34,365	9,645
New Mexico	6,499	3,643	6,996	3,658
New York	81,481	24,259	87,416	24,611
North Carolina	23,064	10,553	24,589	10,553
North Dakota	1,629	705	1,776	710
Ohio	45,221	22,175	48,356	22,117
Oklahoma	13,265	7,202	14,279	7,292
Oregon	8,756	2,916	9,353	2,952
Pennsylvania	46,482	16,833	49,439	17,062
Rhode Island	3,527	1,358	3,761	1,858
South Carolina	14,309	6,608	15,340	6,543
South Dakota	2,552	1,097	2,763	1,099
Tennessee	13,559	6,747	20,915	8,807
Texas	50,124	22,587	53,999	23,12
Utah	4,716	2,033	5,120	2,033
Vermont	2,219	871	2,422	871
Virginia	15,608	5,575	16,792	5,591
Washington	12,480	4,379	13,494	4,373
West Virginia	9,334	4,006	10,036	4,008
Wisconsin	11,416	7,137	17,651	7,205
Wyoming	1,494	698	1,590	698
American Indian programs	39,044	13,946	41,640	13,996
Migrant programs	40,674	16,525	44,345	19,042
Special projects	2,636	—	2,653	—
<b>Outlying areas</b>				
Puerto Rico	45,230	19,001	46,714	19,290
Pacific territories	2,626	3,405	2,112	3,405
Virgin Islands	2,287	1,089	2,452	1,089

<sup>1</sup> The distribution of enrollment by age was 11% were 5 years old and older; 63% were 4 years old; 23% were 3 years old; and 3% were under 3 years of age. Handicapped children accounted for almost 13% of all children in Head Start programs. The racial/ethnic composition was as follows: American Indian, 4%; Hispanic, 22%; black, 39%; white, 32%; and Asian, 3%.

<sup>2</sup> The distribution of enrollment by age was 10% were 5 years old and older; 62% were 4 years old; 25% were 3 years old; and 3% were under 3 years of age. Handicapped children accounted for more than 13% of all children in Head Start programs.

The racial/ethnic composition was as follows: American Indian, 4%; Hispanic, 22%; black, 38%; white, 33%; and Asian, 3%.

—Data not applicable

NOTE—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Health and Human Services, Office of Human Development Services. (This table was prepared March 1989.)

## CHAPTER 5

# Outcomes of Education

This chapter consists primarily of tables comparing educational attainment and work force characteristics. The data show labor force participation and income levels of high school dropouts, high school graduates, and bachelor's degree recipients. Population characteristics are provided for many of the measures to help evaluate disparities among various demographic groups. The first set of tables contains data from the Bureau of the Census on educational attainment of the labor force and income of the labor force and data from the Bureau of Labor Statistics on employment and unemployment. These tables provide information on the educational attainment of the labor force, by occupation, sex, and race; money income, by level of education attained; and unemployment rates, by years of school completed, sex, and race.

The second group of tables was compiled from data available from the Bureau of Labor Statistics on high school dropouts and graduates. These data show the labor force participation and college enrollment of high school students within the year after they leave school. The tabulations also provide comparative labor force participation and unemployment rates for graduates and dropouts. Additional information on college enrollment rates by race and sex have been included to help form a more complete picture of high school outcomes.

The third set of tables has been prepared from the National Center for Education Statistics' survey, Recent College Graduates, and from a Bureau of the Census survey on earnings and education. These tables provide data on employment outcomes for high school and college graduates. A new table for this edition of the *Digest* provides a salary comparison by field of college degree for the entire population. Trends in salaries received by college graduates are also featured in this section.

Statistics on educational attainment of the entire population may be found in chapter 1. More detailed data on the number of degree recipients are contained in chapters 2 and 3. Additional data on the income of persons by educational attainment may be obtained from the Bureau of the Census in the *Current Population Reports*, Series P-60. The Bureau of Labor Statistics has a selection of publications dealing with the educational characteristics of the

labor force. Further information on survey methodologies can be found in the Guide to Sources in the appendix to this publication and in the cited source documents.

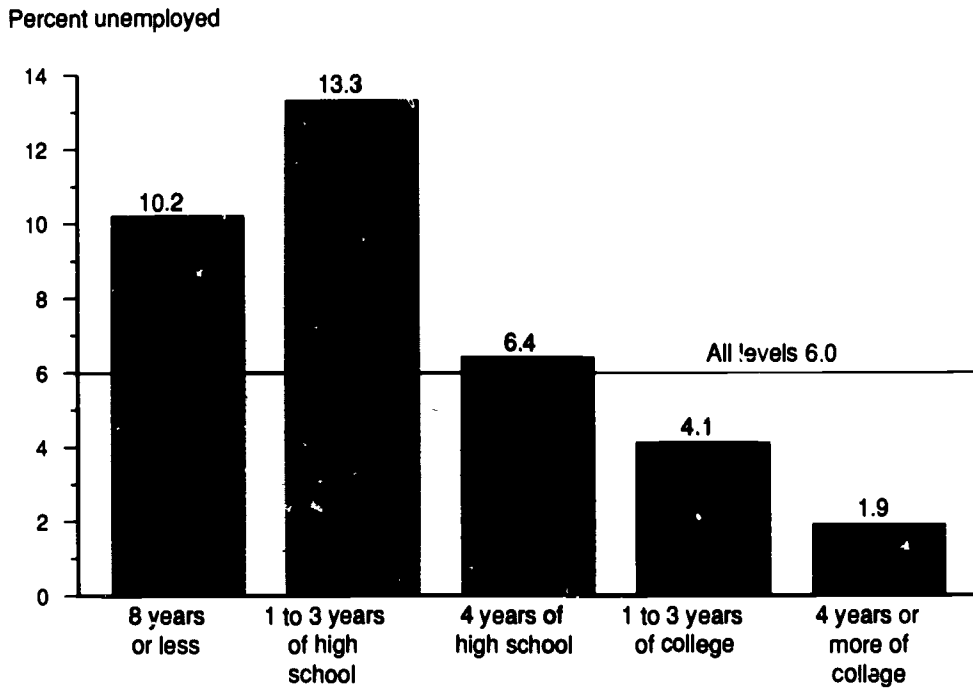
## Highlights

- Persons with lower levels of educational attainment were more likely to be unemployed than those who had higher levels of educational attainment. The 1988 unemployment rate for those with 1 to 3 years of high school was 13.3 percent compared to 6.4 percent for those with 4 years of high school and 1.9 percent for those with 4 or more years of college.\* Minorities and young people tended to have higher unemployment rates, even after allowing for level of educational attainment. (Table 319)
- Between 1977 and 1987, annual income generally rose more rapidly for men with higher levels of educational attainment than for those with lower levels. For example, the income of men who were year-round full-time workers with 4 years of college rose by 80 percent compared to 62 percent for men with 1 to 3 years of high school. Income for men who had completed 4 years of high school increased 65 percent. (Table 322)
- In general, women's incomes rose faster than men's incomes (increased 100 percent compared to 80 percent) between 1977 and 1987. (Table 322)
- The problems of dropouts are highlighted by comparing the labor force and unemployment status of 1986-87 dropouts and graduates. Only 66 percent of the dropouts were in the labor force (employed or looking for work) and of those in the labor force, 38 percent were unemployed. Of the 1987 high school graduates who were not in college, 84 percent were in the labor force and 18 percent were unemployed. (Tables 323 and 326)

\* Unemployment rates for all persons with 8 years or less of school was lower than the rate for those who completed 1 to 3 years of high school. The people with 8 years or less were generally older workers who tended to have low unemployment rates because of their greater experience in the work force.

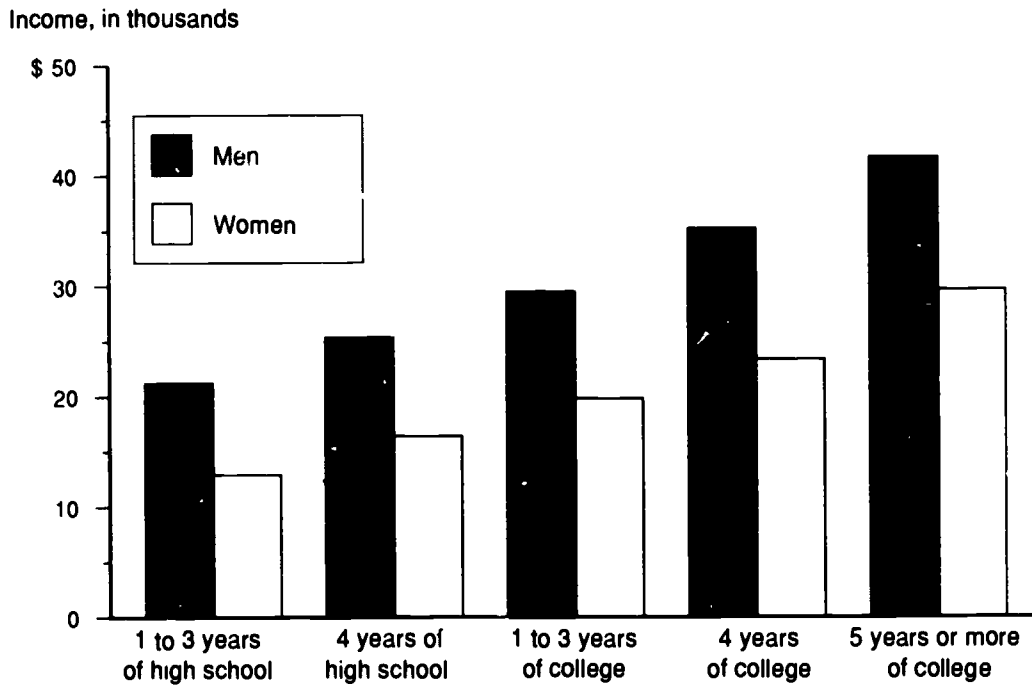
- About 53 percent of the college graduates of the class of 1985-86 had jobs in professional, managerial, and technical areas in 1987. Thirty-one percent were employed in nonprofessional and non-technical areas and 4 percent were unemployed. Many of the 11 percent who were not in the labor force were enrolled in graduate school. (Table 328)
- A large number of young adults participate in voluntary organizations. The most common organizations are sports groups (36 percent), church groups (32 percent), and social or hobby clubs (22 percent). (Table 333)
- A 1985 survey of young adults found that the vast majority (more than 95 percent) had basic literacy skills. On the other hand, only about one-fifth had high proficiency in several types of literary skills. (Table 334)
- The life goal most consistently rated "very important" by young men and women was "having a happy family life." Two of the other most highly rated goals in the 1986 survey were "being successful in work" and "finding steady work." (Table 335)

**Figure 21.—Unemployment rates for persons 16 years old and over, by years of school completed: March 1988**



SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Office of Employment and Unemployment Statistics, "Educational Attainment of Workers, March 1987."

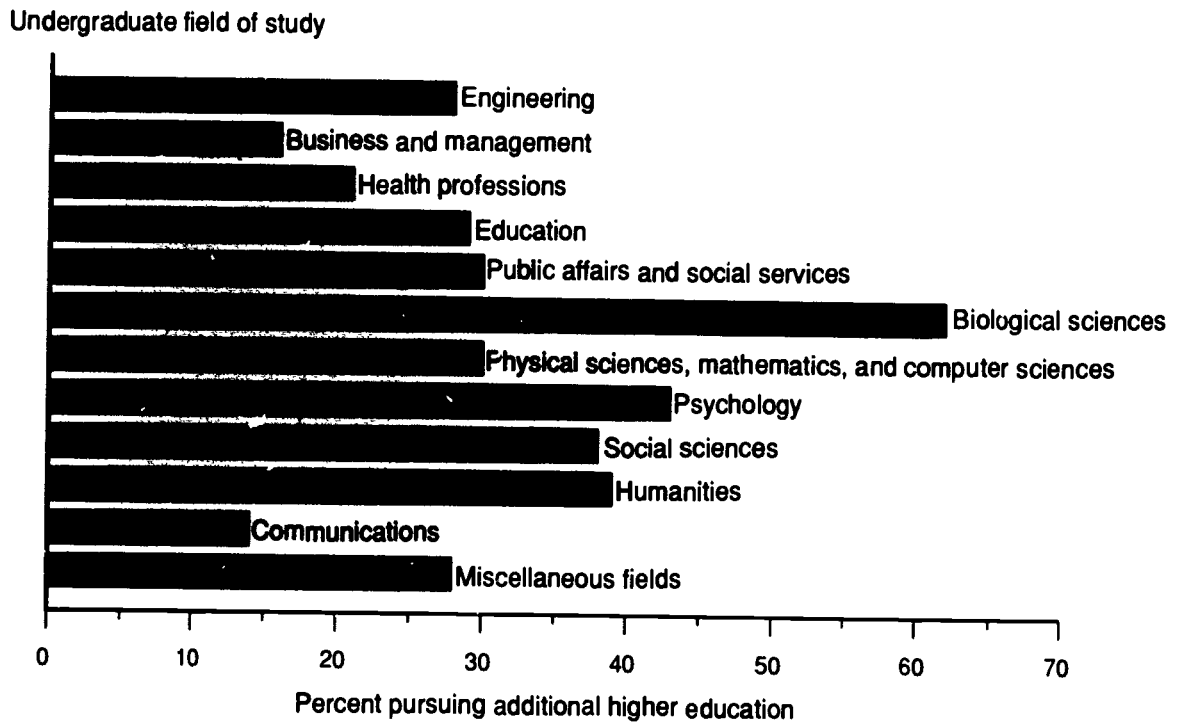
**Figure 22.—Median annual income of full-time workers 25 years old and over, by years of school completed and sex: 1987**



SOURCE: U.S. Department of Commerce, Bureau of the Census, *Money Income and Poverty Status of Families and Persons in the United States*, Series P-60, No. 161.



**Figure 23.—Percent of 1985-86 bachelor's degree recipients who have pursued additional higher education, by undergraduate major field of study: 1987**



SOURCE: U.S. Department of Education, National Center for Education Statistics, "Recent College Graduates" survey, 1987.

**Table 317.—Labor force participation of persons 16 years old and over, by years of school completed and age, sex, and race/ethnicity: March 1988**

Age, sex, and race/ethnicity	Labor force participation rate <sup>1</sup>						Employment/population ratio <sup>2</sup>					
	Total	8 years or less <sup>3</sup>	High school		College		Total	8 years or less <sup>3</sup>	High school		College	
			1 to 3 years	4 years	1 to 3 years	4 years or more			1 to 3 years	4 years	1 to 3 years	4 years or more
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total, 16 years old and over</b> .....	<b>65.0</b>	<b>32.7</b>	<b>50.1</b>	<b>68.3</b>	<b>73.7</b>	<b>82.2</b>	<b>61.1</b>	<b>29.4</b>	<b>43.5</b>	<b>64.0</b>	<b>70.7</b>	<b>80.6</b>
Men.....	75.0	45.5	60.1	80.5	81.0	88.2	70.2	40.5	51.9	74.9	77.3	86.6
Women.....	55.9	20.8	40.7	58.8	67.5	74.9	52.9	19.0	35.6	55.4	65.0	73.3
White <sup>4</sup> .....	65.4	33.5	51.1	67.8	73.2	82.1	62.1	30.3	45.2	64.2	70.6	80.7
Black <sup>4</sup> .....	62.2	29.1	46.3	73.2	79.6	85.9	53.9	24.9	35.7	62.8	72.8	82.8
Hispanic <sup>5</sup> .....	65.8	52.5	55.3	74.9	79.7	87.6	60.2	46.6	47.0	69.5	76.0	85.5
<b>25 to 34 years old</b> .....	<b>82.9</b>	<b>60.3</b>	<b>73.3</b>	<b>82.2</b>	<b>85.4</b>	<b>89.8</b>	<b>78.0</b>	<b>53.5</b>	<b>62.4</b>	<b>78.5</b>	<b>81.8</b>	<b>87.7</b>
Men.....	93.4	80.9	88.4	94.4	93.7	95.9	87.4	71.4	75.5	87.2	89.8	93.7
Women.....	72.7	38.3	55.4	71.1	78.3	83.2	68.8	34.5	46.9	66.8	74.8	81.2
White <sup>4</sup> .....	83.8	63.9	75.9	82.5	85.6	90.7	79.7	57.8	66.9	77.8	82.4	88.9
Black <sup>4</sup> .....	79.5	45.2	64.6	80.9	87.6	89.2	69.1	33.7	46.6	70.1	80.4	85.4
Hispanic <sup>5</sup> .....	77.5	68.5	71.5	78.6	84.3	89.8	72.1	61.8	61.8	73.8	81.0	87.7

<sup>1</sup> Percent of the civilian population who are employed or seeking employment.

<sup>2</sup> Number of persons employed as a percent of civilian population

<sup>3</sup> Includes persons reporting no school years completed

<sup>4</sup> Includes persons of Hispanic origin.

<sup>5</sup> Persons of Hispanic origin may be of any race

SOURCE. U.S. Department of Labor, Bureau of Labor Statistics, Office of Employment and Unemployment Statistics. "Educational Attainment of Workers, March 1988" (This table was prepared December 1988)

**Table 318.—Occupation of employed persons 16 years old and over, by years of school completed and sex:  
March 1988**

Sex and occupation	Total employed, in thousands	Percentage distribution, by years of school completed								Median school years completed
		Total	Elementary school		High school		College			
			Less than 8 years <sup>1</sup>	8 years	1 to 3 years	4 years	1 to 3 years	4 years	5 years or more	
1	2	3	4	5	6	7	8	9	10	11
<b>All persons</b>										
All occupational groups.....	112,565	100.0	2.9	2.3	11.2	39.7	20.5	13.8	9.6	12.8
Managerial and professional specialty.....	29,007	100.0	0.5	0.4	11.2	39.7	20.5	13.8	9.6	12.8
Executive, administrative, and managerial.....	13,928	100.0	0.7	0.7	3.7	27.1	23.6	27.5	16.7	14.9
Professional specialty occupations.....	15,079	100.0	0.2	0.1	1.4	8.0	15.4	31.2	42.7	16.8
Teachers, except college and university.....	3,981	100.0	0.1	( <sup>2</sup> )	1.2	8.8	7.8	38.5	45.6	18.9
Teachers, college and university.....	772	100.0	0.4	( <sup>2</sup> )	( <sup>2</sup> )	3.8	3.6	14.0	72.4	18+ <sup>3</sup>
Technical, sales, and administrative support.....	35,267	100.0	0.7	0.7	7.4	44.8	28.2	14.2	4.3	12.9
Technicians and related support.....	3,506	100.0	0.3	0.1	2.3	29.5	35.8	22.5	9.7	14.4
Sales occupations.....	13,509	100.0	1.0	1.1	11.1	39.4	24.4	17.8	5.2	12.9
Administrative support, including clerical.....	18,252	100.0	0.5	0.5	5.7	51.3	29.7	9.9	2.5	12.8
Service occupations.....	14,909	100.0	5.4	4.4	21.0	45.2	18.0	4.7	1.2	12.4
Precision production, craft, and repair.....	13,178	100.0	4.4	3.8	14.8	53.4	18.3	4.3	1.2	12.5
Operators, fabricators, and laborers.....	17,338	100.0	8.7	5.0	21.5	50.9	12.1	3.1	0.7	12.3
Farming, forestry, and fishing.....	2,966	100.0	13.8	8.8	18.1	43.7	12.4	5.6	1.9	12.3
<b>Men</b>										
All occupational groups.....	81,538	100.0	3.7	2.7	11.8	37.4	19.1	14.2	11.1	12.9
Managerial and professional specialty.....	18,120	100.0	0.8	0.5	2.8	15.8	17.2	29.1	34.3	18.5
Technical, sales, and administrative support.....	17,273	100.0	1.0	0.8	8.9	33.7	28.7	21.4	7.4	13.8
Service occupations.....	5,800	100.0	8.2	4.1	19.2	41.6	20.8	6.3	2.0	12.5
Precision production, craft, and repair.....	12,012	100.0	4.3	3.8	14.9	53.8	18.4	4.2	1.1	12.5
Operators, fabricators, and laborers.....	12,640	100.0	8.2	4.7	21.1	50.2	13.5	3.5	0.7	12.4
Farming, forestry, and fishing.....	2,493	100.0	14.5	7.1	18.0	43.3	12.0	5.1	1.9	12.3
<b>Women</b>										
All occupational groups.....	51,027	100.0	2.1	1.8	10.5	42.5	22.3	13.2	7.8	12.8
Managerial and professional specialty.....	12,887	100.0	0.3	0.2	2.3	20.2	21.9	29.8	25.2	16.2
Technical, sales, and administrative support.....	22,994	100.0	0.4	0.8	7.7	50.4	28.0	10.3	2.8	12.8
Service occupations.....	9,009	100.0	4.9	4.8	22.2	47.8	16.4	3.6	0.8	12.4
Precision production, craft, and repair.....	1,166	100.0	5.3	4.5	14.4	51.2	17.3	5.3	2.0	12.5
Operators, fabricators, and laborers.....	4,499	100.0	8.1	5.8	22.5	52.8	8.1	2.1	0.5	12.3
Farming, forestry, and fishing.....	473	100.0	8.9	3.8	18.7	46.1	14.6	8.5	1.5	12.4

<sup>1</sup> Includes persons reporting no school years completed.

<sup>2</sup> Less than .05 percent.

NOTE—Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Office of Employment and Unemployment Statistics, "Educational Attainment of Workers, March 1988" (This table was prepared December 1988)

**Table 319.—Unemployment rate of persons 16 years old and over, by age, sex, race/ethnicity, and years of school completed: March 1988**

Sex, race/ethnicity, and years of school completed	Percent unemployed <sup>1</sup>								
	Total, 16 years and over	16 and 17 years	18 and 19 years	20 to 24 years	25 to 34 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
1	2	3	4	5	6	7	8	9	10
<b>All persons</b>									
All education levels.....	6.0	18.9	15.8	9.6	6.0	4.5	3.4	3.6	2.3
8 years or less.....	10.2	34.7	32.1	18.9	11.2	10.6	7.9	7.2	2.8
1 to 3 years of high school.....	13.3	17.9	22.2	20.5	14.8	10.0	5.1	5.2	5.4
4 years of high school.....	6.4	16.2	13.0	10.7	6.9	5.6	3.8	3.1	1.5
1 to 3 years of college.....	4.1	—	7.0	5.6	4.3	3.7	2.8	2.4	1.6
4 or more years of college.....	1.9	—	—	4.8	2.3	1.4	1.1	1.9	1.8
<b>Men</b>									
All education levels.....	6.4	20.7	17.6	10.2	6.4	4.7	3.8	4.5	2.1
8 years or less.....	10.9	37.3	29.8	20.0	11.8	10.5	6.3	7.9	2.8
1 to 3 years of high school.....	13.7	19.4	24.2	18.8	14.6	10.8	4.6	6.5	5.7
4 years of high school.....	7.0	17.3	13.1	10.4	7.6	6.2	4.5	4.3	0.9
1 to 3 years of college.....	4.5	—	11.7	6.6	4.2	4.0	3.3	3.6	1.7
4 or more years of college.....	1.8	—	—	5.5	2.3	1.3	1.2	1.7	1.4
<b>Women</b>									
All education levels.....	5.5	16.9	13.9	8.9	5.4	4.3	2.9	2.4	2.5
8 years or less.....	8.8	29.2	36.4	16.3	10.0	10.7	5.1	5.7	2.8
1 to 3 years of high school.....	12.6	16.5	19.4	23.8	15.2	9.0	5.7	3.5	4.9
4 years of high school.....	5.8	15.6	13.0	11.1	6.1	5.1	3.1	1.8	2.0
1 to 3 years of college.....	3.6	—	3.9	4.7	4.4	3.4	2.2	0.9	1.4
4 or more years of college.....	2.1	—	—	4.2	2.4	1.6	1.1	2.3	2.8
<b>White<sup>2</sup></b>									
All education levels.....	5.0	17.3	12.7	7.8	4.9	3.9	3.0	3.3	2.0
8 years or less.....	9.4	32.3	32.4	14.5	9.5	10.2	7.6	6.5	2.5
1 to 3 years of high school.....	11.5	16.5	17.5	16.7	11.9	8.5	5.2	5.5	3.6
4 years of high school.....	5.3	15.0	10.4	8.6	5.7	4.9	3.1	2.8	1.5
1 to 3 years of college.....	3.5	—	6.0	4.7	3.7	3.4	2.3	2.4	1.7
4 or more years of college.....	1.7	—	—	4.2	2.0	1.3	0.9	1.4	2.0
<b>Black<sup>2</sup></b>									
All education levels.....	13.3	34.5	40.6	22.4	13.1	9.0	7.4	5.3	5.6
8 years or less.....	14.5	57.6	36.8	59.3	25.5	15.7	9.8	8.0	4.1
1 to 3 years of high school.....	23.0	32.5	57.4	38.3	27.9	15.3	4.6	4.1	17.0
4 years of high school.....	14.2	25.5	32.6	24.0	13.4	10.3	9.5	5.0	—
1 to 3 years of college.....	8.6	—	23.3	12.3	8.2	6.5	8.2	3.6	—
4 or more years of college.....	3.7	—	—	9.4	4.3	2.5	2.0	3.7	—
<b>Hispanic origin<sup>3</sup></b>									
All education levels.....	8.5	27.0	20.1	10.6	7.0	7.2	5.7	6.9	3.8
8 years or less.....	11.2	34.5	29.9	12.5	9.7	11.5	8.3	10.2	7.9
1 to 3 years of high school.....	14.9	25.6	29.3	14.1	13.6	9.7	6.5	6.9	—
4 years of high school.....	7.2	12.9	9.8	10.6	6.1	6.8	4.9	4.0	—
1 to 3 years of college.....	4.6	—	11.4	7.6	4.0	3.7	2.0	1.6	4.2
4 or more years of college.....	2.3	—	—	3.4	2.4	1.1	2.5	5.3	—

<sup>1</sup> The unemployment rate is the percentage of individuals in the labor force who are not working and who made specific efforts to find employment sometime during the prior 4 weeks. The labor force includes employed and unemployed persons.

<sup>2</sup> Includes persons of Hispanic origin.

<sup>3</sup> Persons of Hispanic origin may be of any race.

—Data not available

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, Office of Employment and Unemployment Statistics, "Educational Attainment of Workers, March 1988" (This table was prepared December 1988).

**Table 320.—Employment status and hourly wages of 1972 high school graduates in Spring 1986, by race/ethnicity and socioeconomic status**

Race/ethnicity, socioeconomic status, and level of education	Percent with specified level of education	Employment status				Average hourly wages of those employed	
		Continuous full-time	Intermittent full-time	Part-time	Not in labor force	Continuous full-time	Intermittent full-time
1	2	3	4	5	6	7	8
<b>Total, all persons</b> .....	100	39	34	6	20	—	—
High school diploma.....	32	33	30	8	29	\$7.01	\$6.60
Some postsecondary education.....	30	42	33	6	19	7.17	7.18
1- or 2-year degree.....	12	40	37	9	14	7.59	7.65
Bachelor's degree.....	19	44	35	6	15	8.71	8.91
Advanced degree.....	7	40	46	5	9	10.80	10.70
<b>Race/ethnicity</b>							
<b>White</b>							
Total.....	100	40	34	7	19	—	—
High school diploma.....	32	34	31	8	28	7.11	6.76
Some postsecondary education.....	29	42	33	7	18	7.32	7.36
1- or 2-year degree.....	12	41	37	9	13	7.70	7.84
Bachelor's degree.....	20	45	35	6	14	8.76	9.03
Advanced degree.....	8	41	47	5	8	10.86	10.55
<b>Black</b>							
Total.....	100	38	35	7	20	—	—
High school diploma.....	31	36	35	10	18	5.89	5.38
Some postsecondary education.....	38	43	32	5	20	5.85	6.29
1- or 2-year degree.....	12	32	44	10	14	6.58	6.33
Bachelor's degree.....	16	36	34	4	26	7.97	7.30
Advanced degree.....	4	37	32	7	24	10.66	( <sup>1</sup> )
<b>Hispanic</b>							
Total.....	100	41	27	5	26	—	—
High school diploma.....	42	30	23	6	41	7.26	5.90
Some postsecondary education.....	35	52	28	4	15	7.28	6.24
1- or 2-year degree.....	12	46	34	4	16	6.87	7.93
Bachelor's degree.....	8	54	27	8	11	8.94	( <sup>1</sup> )
Advanced degree.....	4	27	47	9	17	( <sup>1</sup> )	( <sup>1</sup> )
<b>Socioeconomic status quartile <sup>2</sup> (SES)</b>							
<b>Lower 25 percent</b> .....							
Total.....	100	36	33	8	23	—	—
High school diploma.....	50	31	30	9	30	6.48	5.96
Some postsecondary education.....	27	43	32	7	18	6.67	6.25
1- or 2-year degree.....	11	37	38	9	15	6.71	7.03
Bachelor's degree.....	9	43	37	6	14	7.97	7.79
Advanced degree.....	3	37	40	8	16	9.74	10.24
<b>Middle 50 percent</b> .....							
Total.....	100	39	33	6	22	—	—
High school diploma.....	34	33	31	7	29	7.16	7.08
Some postsecondary education.....	31	41	32	6	21	7.21	7.45
1- or 2-year degree.....	13	41	37	9	13	7.53	7.79
Bachelor's degree.....	17	44	33	5	18	8.39	8.79
Advanced degree.....	5	43	44	3	11	10.46	9.89
<b>Upper 25 percent</b> .....							
Total.....	100	42	36	6	15	—	—
High school diploma.....	9	44	26	7	24	8.02	6.54
Some postsecondary education.....	31	32	33	6	17	7.54	7.45
1- or 2-year degree.....	10	39	35	9	17	8.62	7.96
Bachelor's degree.....	35	44	36	6	14	9.16	9.34
Advanced degree.....	15	38	48	6	7	11.19	11.29

<sup>1</sup> Too few respondents to produce reliable estimates

<sup>2</sup> The SES index is a composite of five equally-weighted measures: father's education, mother's education, family income, father's occupation, and presence of certain items in the respondent's house hold

—Data not available

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Longitudinal Study, 1972," unpublished tabulations (This table was prepared January 1989)

Table 321.—Total annual money income of persons 25 years old and over,<sup>1</sup> by years of school completed, sex, and age: 1986

Sex, income, and age	Total	Years of school completed											Median school years completed
		Elementary school			High school			College					
		Total	Less than 8	8	Total	1 to 3	4	Total	1 to 3	4 or more			
										Total	4	5 or more	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Number, in thousands													
<b>Men</b>													
Total.....	70,677	9,053	5,055	3,998	32,907	7,909	24,998	28,716	12,062	16,655	9,043	7,611	12.7
With income.....	69,473	8,805	4,889	3,916	32,216	7,715	24,501	28,452	11,911	16,540	8,965	7,575	12.7
Percentage distribution of men with income													
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	12.7
\$1 to \$1,999 or less.....	3.0	5.1	5.6	4.4	3.2	4.4	2.8	2.0	2.4	1.7	2.0	1.4	12.3
\$2,000 to \$2,999.....	1.4	3.4	3.5	3.2	1.6	2.9	1.2	0.8	1.0	0.4	0.4	0.4	11.7
\$3,000 to \$3,999.....	1.8	5.1	6.5	3.4	1.8	3.0	1.4	0.8	1.2	0.5	0.5	0.5	11.2
\$4,000 to \$4,999.....	2.4	8.9	11.7	5.4	2.1	3.0	1.8	0.8	1.2	0.6	0.4	0.7	9.8
\$5,000 to \$5,999.....	2.4	6.7	7.1	6.1	2.4	4.3	1.9	1.1	1.5	0.8	0.8	0.8	11.3
\$6,000 to \$6,999.....	2.7	7.4	8.2	6.4	2.7	3.8	2.4	1.4	2.0	0.9	0.9	0.9	12.0
\$7,000 to \$8,499.....	4.5	10.0	10.3	9.7	4.9	7.1	4.2	2.3	2.9	1.8	2.0	1.6	12.1
\$8,500 to \$9,999.....	3.5	7.0	7.8	6.0	4.2	6.4	3.5	1.7	2.3	1.3	1.4	1.1	12.1
\$10,000 to \$12,499.....	7.8	11.8	11.4	12.4	9.4	12.1	8.6	4.8	6.4	3.6	4.4	2.7	12.4
\$12,500 to \$14,999.....	6.1	8.3	7.2	9.8	7.3	8.4	6.9	4.0	5.4	2.9	3.4	2.4	12.4
\$15,000 to \$17,499.....	7.1	6.9	5.5	8.5	8.8	8.5	8.9	5.2	7.1	3.9	4.8	2.8	12.6
\$17,500 to \$19,999.....	5.7	4.1	3.5	4.9	7.0	6.7	7.2	4.8	5.9	4.0	4.6	3.3	12.6
\$20,000 to \$24,999.....	11.5	6.2	5.3	7.4	13.0	9.7	14.0	11.4	13.6	9.8	10.9	8.5	12.8
\$25,000 to \$29,999.....	10.0	3.6	2.5	5.0	10.5	7.1	11.6	11.4	13.0	10.3	10.9	9.7	12.9
\$30,000 to \$34,999.....	8.3	2.3	1.8	2.9	8.0	5.1	8.9	10.6	10.3	10.7	11.3	10.1	13.3
\$35,000 to \$49,999.....	13.0	2.6	1.8	3.5	9.9	6.2	11.1	19.7	16.2	22.3	20.9	23.9	14.7
\$50,000 to \$74,999.....	5.7	0.3	0.3	0.3	2.6	1.1	3.0	10.9	5.6	14.8	13.8	16.0	16.4
\$75,000 and over.....	3.0	0.4	(2)	0.7	0.7	0.4	0.8	6.5	2.1	8.8	6.9	13.2	16.9
Median income													
All ages, 25 and over <sup>3</sup> .....	\$20,538	\$9,240	\$8,077	\$11,084	\$18,000	\$13,401	\$19,772	\$28,844	\$23,738	\$33,304	\$31,062	\$36,241	—
25 to 34 years.....	19,162	8,469	8,434	8,714	16,612	11,904	17,551	23,836	20,475	27,141	26,253	29,233	—
35 to 44 years.....	26,172	10,061	8,441	12,760	21,645	16,079	22,987	32,150	26,891	36,225	34,345	38,056	—
45 to 54 years.....	27,756	12,869	11,065	16,694	24,750	19,279	26,099	37,112	31,220	41,793	39,589	44,157	—
55 to 64 years.....	21,034	11,612	9,510	14,151	19,432	15,959	20,964	34,156	26,342	39,540	39,081	39,979	—
65 years and over.....	11,544	7,938	6,883	9,269	12,135	10,057	13,579	19,822	16,116	23,647	20,997	26,140	—
Number, in thousands													
<b>Women</b>													
Total.....	78,467	9,888	5,298	4,590	42,179	9,508	32,671	26,400	13,417	12,983	8,125	4,858	12.6
With income.....	73,080	8,748	4,590	4,159	38,845	8,466	30,379	25,487	12,845	12,641	7,877	4,764	12.6
Percentage distribution of women with income													
Total.....	100.0	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	12.6
\$1 to \$1,999 or less.....	14.8	12.2	11.9	12.4	16.5	16.3	16.6	13.0	14.6	11.3	13.6	7.3	12.6
\$2,000 to \$2,999.....	5.1	9.9	11.3	8.5	5.5	7.5	4.9	2.9	3.6	2.1	2.3	1.7	12.2
\$3,000 to \$3,999.....	5.9	13.0	13.6	12.2	6.1	8.7	5.3	3.1	4.0	2.3	2.6	1.7	12.2
\$4,000 to \$4,999.....	6.6	16.9	19.0	14.5	6.6	10.2	5.6	3.1	3.8	2.3	2.2	2.5	12.0
\$5,000 to \$5,999.....	5.6	10.1	10.7	9.4	6.3	8.7	5.6	3.0	4.0	2.0	2.2	1.7	12.3

Table 321.—Total annual money income of persons 25 years old and over,<sup>1</sup> by years of school completed, sex, and age: 1986—Continued

Sex, income, and age	Total	Years of school completed											Median school years completed
		Elementary school			High school			College					
		Total	Less than 8	8	Total	1 to 3	4	Total	1 to 3	4 or more			
										Total	4	5 or more	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
\$6,000 to \$6,999	5.2	8.5	8.2	8.8	5.8	7.2	5.4	3.3	4.1	2.5	2.9	1.9	12.3
\$7,000 to \$8,499	6.6	8.5	8.0	9.2	7.4	8.3	7.2	4.6	5.4	3.7	3.7	3.7	12.4
\$8,500 to \$9,999	4.9	5.2	4.8	5.7	5.5	6.4	5.2	3.9	4.8	3.0	3.1	2.7	12.5
\$10,000 to \$12,499	8.9	6.5	4.8	8.3	10.3	9.6	10.5	7.7	9.1	6.3	7.4	4.5	12.6
\$12,500 to \$14,999	6.6	3.4	2.9	3.9	7.1	5.8	7.5	7.0	8.4	5.6	5.9	5.0	12.7
\$15,000 to \$17,499	6.5	2.4	1.8	3.1	6.4	4.1	7.1	8.1	8.6	7.5	8.7	5.6	12.8
\$17,500 to \$19,999	4.5	1.1	1.1	1.1	4.1	2.1	4.7	6.2	6.1	6.4	6.7	5.9	13.0
\$20,000 to \$24,999	7.9	1.2	1.0	1.5	6.3	2.8	7.3	12.5	10.3	14.6	14.2	15.2	13.7
\$25,000 to \$29,999	4.5	0.4	0.2	0.6	3.0	1.1	3.6	8.3	6.2	10.4	8.9	13.0	14.7
\$30,000 to \$34,999	2.7	0.3	0.3	0.3	1.4	0.5	1.7	5.4	3.3	7.5	6.4	9.3	15.8
\$35,000 to \$49,999	2.6	0.3	0.2	0.4	1.1	0.4	1.3	5.7	2.7	8.7	6.2	12.7	16.3
\$50,000 to \$74,999	0.8	0.1	( <sup>2</sup> )	( <sup>2</sup> )	0.3	0.1	0.4	1.7	0.7	2.7	1.8	4.2	16.4
\$75,000 and over	0.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	0.1	0.1	0.2	0.7	0.3	1.2	1.0	1.4	16.3
Median income													
All ages, 25 and over <sup>3</sup>	\$8,582	\$4,886	\$4,691	\$5,258	\$7,651	\$5,631	\$8,366	\$14,471	\$11,574	\$18,065	\$16,126	\$21,599	—
25 to 34 years	10,310	4,702	4,825	4,488	7,689	5,305	8,378	14,541	11,324	17,519	16,667	20,344	—
35 to 44 years	11,064	5,454	5,731	4,981	8,813	6,665	9,556	16,217	13,293	20,033	16,384	23,366	—
45 to 54 years	10,380	4,837	4,436	6,763	8,967	6,659	9,780	16,593	13,545	21,464	18,637	25,227	—
55 to 64 years	7,377	4,403	4,261	4,604	6,873	5,032	7,705	12,612	10,100	17,152	15,488	21,322	—
65 years and over	6,425	4,943	4,709	5,399	6,742	5,885	7,347	10,974	9,037	13,927	12,382	16,787	—

<sup>1</sup> Includes full-time and part-time workers<sup>2</sup> Less than 0.1 percent<sup>3</sup> Age as of March 1987

—Data not available

NOTE —Because of rounding, details may not add to totals

SOURCE U.S. Department of Commerce, Bureau of the Census, Current Population Reports, Series P-60, No. 159, *Money Income of Households, Families, and Persons in the United States 1986* (This table was prepared January 1989)

**Table 322.—Median annual income<sup>1</sup> of year-round full-time workers 25 years old and over, by years of school completed and sex: 1970 to 1987**

Sex and year	Total	Elementary school		High school		College		
		Less than 8 years	8 years	1 to 3 years	4 years	1 to 3 years	4 years	5 years or more
1	2	3	4	5	6	7	8	9
<b>Men</b>								
1970..	\$9,521	\$6,043	\$7,535	\$8,514	\$9,567	\$11,183	\$13,284	\$14,747
1971.....	10,038	6,310	7,838	8,945	9,996	11,701	13,730	15,300
1972.....	11,148	7,042	8,636	9,462	11,073	12,428	14,879	18,877
1973.....	12,088	7,521	9,406	10,401	12,017	13,090	15,503	17,726
1974.....	12,786	7,912	9,891	11,225	12,642	13,718	18,240	18,214
1975.....	13,821	8,647	10,600	11,511	13,542	14,989	17,477	19,658
1976.....	14,732	8,991	11,312	12,301	14,295	15,514	18,236	20,597
1977.....	15,720	9,419	12,083	13,120	15,434	16,235	19,603	21,941
1978.....	16,882	10,474	12,965	14,199	16,396	17,411	20,941	23,578
1979.....	18,711	10,993	14,454	15,198	18,100	19,387	22,406	25,860
1980.....	20,297	11,753	14,674	16,101	19,469	20,909	24,311	27,690
1981.....	21,689	12,866	16,084	16,938	20,598	22,565	26,394	30,434
1982.....	22,857	12,386	16,376	17,496	21,344	23,633	28,030	32,325
1983.....	23,891	14,093	16,438	17,685	21,823	24,813	29,692	34,643
1984.....	25,497	14,624	16,812	19,120	23,269	25,831	31,487	36,836
1985.....	26,365	14,766	18,645	18,881	23,853	26,960	32,822	39,335
1986.....	27,337	14,485	18,541	20,003	24,701	28,025	34,331	39,592
1987.....	28,313	14,903	18,939	21,269	25,394	29,536	35,244	41,691
<b>Women</b>								
1970.....	5,816	3,798	4,181	4,655	5,580	6,604	8,156	9,581
1971.....	5,872	3,946	4,400	4,869	5,608	6,815	8,451	10,581
1972.....	6,331	4,221	4,784	5,253	6,186	7,020	8,736	11,036
1973.....	6,791	4,369	5,135	5,513	6,623	7,593	9,057	11,340
1974.....	7,370	5,022	5,606	5,919	7,150	8,072	9,523	11,790
1975.....	8,117	5,109	5,691	6,355	7,777	9,126	10,349	13,138
1976.....	8,728	5,644	6,433	6,800	8,377	9,475	11,010	13,569
1977.....	9,257	6,074	6,564	7,387	8,894	10,157	11,605	14,338
1978.....	10,121	6,648	7,489	7,996	9,769	10,634	12,347	15,310
1979.....	11,071	7,414	7,788	8,555	10,513	11,854	13,441	18,693
1980.....	12,156	7,742	8,857	9,676	11,537	12,954	15,143	18,100
1981.....	13,259	8,419	9,723	10,043	12,332	14,343	16,322	20,148
1982.....	14,477	8,424	10,112	10,661	13,240	15,594	17,405	21,449
1983.....	15,292	9,385	10,337	11,131	13,787	16,536	18,452	22,677
1984.....	16,169	9,828	10,848	11,843	14,569	17,007	20,257	25,076
1985.....	17,124	9,736	11,377	11,836	15,481	17,989	21,389	25,926
1986.....	17,675	10,153	11,183	12,267	15,947	18,516	22,412	27,279
1987.....	18,531	9,927	12,174	12,940	16,481	19,843	23,406	29,694

<sup>1</sup> Data have not been adjusted for changes in the purchasing power of the dollar

SOURCE: U.S. Department of Commerce, Bureau of the Census, *Current Population*

Reports, Series P-60, *Money Income of Families and Persons in the United States*, various years, and *Money Income and Poverty Status of Families and Persons in the United States 1987*, Series P-60, No. 161 (This table was prepared January 1989)



**Table 323.—College enrollment and labor force status of 1986 and 1987 high school graduates 16 to 24 years old, by sex and race/ethnicity: October 1986 and October 1987**

[Numbers in thousands]

Item	Civilian noninstitutional population			Civilian labor force <sup>1</sup>				
	Number	Percent	Percent of high school graduates	Number	Labor force participation rate	Employed	Unemployed	
							Number	Unemployment rate
1	2	3	4	5	6	7	8	9
<b>1986 high school graduates<sup>2</sup></b>								
Total.....	2,786	100.0	100.0	1,764	63.3	1,462	302	17.1
Men.....	1,331	17.8	47.8	887	66.6	748	139	15.7
Women.....	1,455	32.2	52.2	877	60.3	714	163	18.6
White <sup>3</sup> .....	2,307	82.8	82.8	1,512	65.5	1,288	224	14.8
Black <sup>3</sup> .....	386	13.9	13.9	208	53.9	136	72	34.6
Hispanic origin <sup>4</sup> .....	169	6.1	6.1	109	64.5	91	18	16.5
Enrolled in college, October 1986	1,499	100.0	53.8	717	47.8	623	94	13.1
Men.....	744	49.6	26.7	381	51.2	340	41	10.8
Women.....	755	50.4	27.1	336	44.5	283	53	15.8
Full-time students.....	1,365	91.1	49.0	599	43.9	522	77	12.9
Part-time students.....	134	8.9	4.8	118	88.1	101	17	14.4
White <sup>3</sup> .....	1,292	86.2	46.4	651	50.4	569	82	12.6
Black <sup>3</sup> .....	141	9.4	5.1	41	29.1	33	8	( <sup>5</sup> )
Hispanic origin <sup>4</sup> .....	75	5.0	2.7	33	44.0	30	3	( <sup>5</sup> )
Not enrolled in college, October 1986	1,287	100.0	46.2	1,047	81.4	839	208	19.9
Men.....	587	45.6	21.1	506	86.2	408	98	19.4
Women.....	700	54.4	25.1	541	77.3	431	110	20.3
White <sup>3</sup> .....	1,015	78.9	36.4	861	84.8	719	142	16.5
Black <sup>3</sup> .....	245	19.0	8.8	167	68.2	103	64	38.3
Hispanic origin <sup>4</sup> .....	94	7.3	3.4	76	80.9	61	15	19.7
<b>1987 high school graduates<sup>2</sup></b>								
Total.....	2,647	100.0	100.0	1,657	62.6	1,400	257	15.5
Men.....	1,278	48.3	48.3	813	63.6	717	95	11.7
Women.....	1,369	51.7	51.7	844	61.7	682	162	19.2
White <sup>3</sup> .....	2,207	83.4	83.4	1,405	63.7	1,226	179	12.8
Black <sup>3</sup> .....	337	12.7	12.7	198	58.6	132	66	33.4
Hispanic origin <sup>4</sup> .....	176	6.6	6.6	102	58.0	84	18	17.7
Enrolled in college, October 1987	1,503	100.0	56.8	698	46.5	612	86	12.3
Men.....	746	49.6	28.2	339	45.4	308	31	9.0
Women.....	757	50.4	28.6	360	47.5	304	55	15.4
Full-time students.....	1,357	90.3	51.3	578	42.6	507	71	12.3
Part-time students.....	146	9.7	5.5	120	82.4	105	15	12.4
White <sup>3</sup> .....	1,249	83.1	47.2	584	46.8	528	57	9.7
Black <sup>3</sup> .....	175	11.6	6.6	79	45.0	56	23	29.4
Hispanic origin <sup>4</sup> .....	59	3.9	2.2	21	( <sup>5</sup> )	21	—	( <sup>5</sup> )
Not enrolled in college, October 1987	1,144	100.0	43.2	959	83.8	788	171	17.8
Men.....	532	46.5	20.1	474	89.0	409	65	13.7
Women.....	612	53.5	23.1	485	79.2	378	106	21.9
White <sup>3</sup> .....	959	83.8	36.2	821	85.6	698	123	15.0
Black <sup>3</sup> .....	162	14.2	6.1	119	73.4	76	43	36.1
Hispanic origin <sup>4</sup> .....	117	10.2	4.4	81	69.5	63	18	22.2

<sup>1</sup> The labor force includes all employed persons plus those seeking employment. The labor force participation rate is the percentage of persons either employed or seeking employment.

<sup>2</sup> Includes persons who graduated from high school between 1985 and October 1986.

<sup>3</sup> Includes persons of Hispanic origin.

<sup>4</sup> Persons of Hispanic origin may be of any race.

<sup>5</sup> Data not shown where base is less than 75,000.

<sup>6</sup> Includes persons who graduated from high school between October 1986 and October 1987.

NOTE: Data are based upon sample surveys of the civilian noninstitutional population. Percentages are only shown when the base is 75,000 or greater. Even though the six standard errors are large, smaller estimates are shown to permit users to combine categories in various ways. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, *Employment of School-Age Youth, High School Graduates, and Dropouts, October 1987, October 1988* (This table was prepared December 1988).

**Table 324.—College enrollment rates of high school graduates, by race/ethnicity: 1960 to 1987**

[Numbers in thousands]

Year	High school graduates				Enrolled in college <sup>1</sup>							
	Total	White <sup>2</sup>	Black <sup>2,3</sup>	Hispanic <sup>3</sup>	Total		White <sup>2</sup>		Black <sup>2,3</sup>		Hispanic <sup>3</sup>	
					Number	Percent	Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7	8	9	10	11	12	13
1960.....	1,679	1,565	—	—	758	45.1	717	45.8	—	—	—	—
1961.....	1,763	1,612	—	—	847	48.0	798	49.5	—	—	—	—
1962.....	1,838	1,660	—	—	900	49.0	840	50.6	—	—	—	—
1963.....	1,741	1,615	—	—	784	45.0	736	45.6	—	—	—	—
1964.....	2,145	1,964	—	—	1,037	48.3	967	49.2	—	—	—	—
1965.....	2,659	2,417	—	—	1,354	50.9	1,249	51.7	—	—	—	—
1966.....	2,612	2,403	—	—	1,309	50.1	1,243	51.7	—	—	—	—
1967.....	2,525	2,267	—	—	1,311	51.9	1,202	53.0	—	—	—	—
1968.....	2,606	2,303	—	—	1,444	55.4	1,304	56.6	—	—	—	—
1969.....	2,842	2,538	—	—	1,516	53.3	1,402	55.2	—	—	—	—
1970.....	2,757	2,461	—	—	1,427	51.8	1,280	52.0	—	—	—	—
1971.....	2,872	2,596	—	—	1,535	53.4	1,402	54.0	—	—	—	—
1972.....	2,961	2,614	—	—	1,457	49.2	1,292	49.4	—	—	—	—
1973.....	3,059	2,707	—	—	1,425	46.6	1,302	48.1	—	—	—	—
1974.....	3,101	2,736	—	—	1,474	47.5	1,288	47.1	—	—	—	—
1975.....	3,186	2,825	—	—	1,615	50.7	1,446	51.2	—	—	—	—
1976.....	2,987	2,640	320	152	1,458	48.8	1,291	48.9	134	41.9	80	52.6
1977.....	3,140	2,768	335	156	1,590	50.6	1,403	50.7	166	49.6	80	51.3
1978.....	3,161	2,750	352	133	1,584	50.1	1,378	50.1	161	45.7	57	42.9
1979.....	3,160	2,776	324	154	1,559	49.3	1,376	49.6	147	45.4	69	44.8
1980.....	3,089	2,682	361	129	1,524	49.3	1,339	49.9	151	41.8	68	52.7
1981.....	3,053	2,626	359	146	1,646	53.9	1,434	54.6	154	42.9	76	52.1
1982.....	3,100	2,644	384	174	1,568	50.6	1,376	52.0	140	36.5	75	43.1
1983.....	2,964	2,496	392	138	1,562	52.7	1,372	55.0	151	38.5	75	54.3
1984.....	3,012	2,514	438	185	1,662	55.2	1,455	57.9	176	40.2	82	44.3
1985.....	2,666	2,241	333	141	1,539	57.7	1,332	59.4	141	42.3	72	51.1
1986.....	2,786	2,307	386	169	1,499	53.8	1,292	56.0	141	36.5	75	44.4
1987.....	2,647	2,207	337	176	1,503	56.8	1,249	56.6	175	51.9	59	33.5

<sup>1</sup> Enrollment in college as of October of each year for individuals age 18 to 24 who graduated from high school during the preceding 12 months

<sup>2</sup> Includes persons of Hispanic origin

<sup>3</sup> Due to the small sample size, data are subject to relatively large amounts of sampling error

—Data not available

NOTE—Data are based upon sample surveys of the civilian population. High school graduate data in this table differ from figures appearing in other tables because of varying survey procedures and coverage

SOURCE: American College Testing Program, unpublished tabulations. 1987, derived from statistics collected by the U.S. Department of Labor, and U.S. Department of Labor, unpublished tabulations. (This table was prepared December 1988)

Table 325.—College enrollment rates of high school graduates, by sex: 1960 to 1987

[Numbers in thousands]

Year	Total high school graduates			Enrolled in college <sup>1</sup>					
	Total	Males	Females	Total		Males		Females	
				Number	Percent	Number	Percent	Number	Percent
1	2	3	4	5	6	7	8	9	10
1960	1,679	756	923	758	45.1	408	54.0	350	37.9
1961	1,763	790	973	847	48.0	445	56.3	402	41.3
1962	1,838	872	966	900	49.0	480	55.0	420	43.5
1963	1,741	794	947	784	45.0	415	52.3	369	39.0
1964	2,145	997	1,148	1,037	48.3	570	57.2	467	40.7
1965	2,659	1,254	1,405	1,354	50.9	718	57.3	636	45.3
1966	2,612	1,207	1,405	1,309	50.1	709	58.7	600	42.7
1967	2,525	1,142	1,383	1,311	51.9	658	57.6	653	47.2
1968	2,606	1,184	1,422	1,444	55.4	748	63.2	696	48.9
1969	2,842	1,352	1,490	1,516	53.3	812	60.1	704	47.2
1970	2,757	1,343	1,414	1,427	51.8	741	55.2	686	48.5
1971	2,872	1,369	1,503	1,535	53.4	788	57.6	747	49.7
1972	2,961	1,420	1,541	1,457	49.2	749	52.7	708	45.9
1973	3,059	1,458	1,601	1,425	46.6	730	50.1	695	43.4
1974	3,101	1,491	1,610	1,474	47.5	736	49.4	738	45.8
1975	3,186	1,513	1,673	1,615	50.7	796	52.6	819	49.0
1976	2,987	1,450	1,537	1,458	48.8	685	47.2	773	50.3
1977	3,140	1,482	1,658	1,590	50.6	773	52.2	817	49.3
1978	3,161	1,485	1,676	1,584	50.1	758	51.0	826	49.3
1979	3,160	1,474	1,686	1,559	49.3	743	50.4	816	48.4
1980	3,089	1,500	1,589	1,524	49.3	701	46.7	823	51.8
1981	3,053	1,490	1,563	1,646	53.9	816	54.8	830	53.1
1982	3,100	1,508	1,592	1,568	50.6	739	49.0	829	52.1
1983	2,964	1,390	1,574	1,562	52.7	721	51.9	841	53.4
1984	3,012	1,429	1,583	1,662	55.2	800	56.0	862	54.5
1985	2,666	1,286	1,380	1,539	57.7	754	58.6	785	56.9
1986	2,786	1,331	1,455	1,499	53.8	744	55.9	755	51.9
1987	2,647	1,270	1,369	1,503	56.8	746	58.4	757	55.3

<sup>1</sup> Enrollment in college as of October of each year for individuals age 16 to 24 who graduated from high school during the preceding 12 months

NOTE—Data are based upon sample surveys of the civilian population. High school graduate data in this table differ from figures appearing in other tables because of varying survey procedures and coverage

SOURCE American College Testing Program, unpublished tabulations. \*1987, derived from statistics collected by the U.S. Department of Labor, and U.S. Department of Labor, unpublished data. (This table was prepared December 1988.)

**Table 326.—Labor force status of 1979–80 to 1986–87 high school dropouts 16 to 24 years old, by sex and race/ethnicity: October 1980 to October 1987**

[Numbers in thousands]

Year, sex, and race	Civilian noninstitutional population		Civilian labor force <sup>1</sup>				
	Number	Percent	Number	Labor force participation rate	Employed	Unemployed	
						Number	Unemployment rate
1	2	3	4	5	6	7	8
<b>1979–80 high school dropouts <sup>2</sup></b>							
<b>In October 1980</b>	<b>739</b>	<b>100.0</b>	<b>471</b>	<b>63.7</b>	<b>322</b>	<b>149</b>	<b>31.6</b>
Men .....	422	57.1	305	72.3	212	93	30.5
Women .....	317	42.9	166	52.4	110	56	33.7
White <sup>3</sup> .....	580	78.5	392	67.6	286	106	27.0
Black <sup>3</sup> .....	146	19.8	73	50.0	33	40	( <sup>4</sup> )
Hispanic origin <sup>5</sup> .....	91	12.3	60	65.9	43	17	( <sup>4</sup> )
<b>1983–84 high school dropouts <sup>4</sup></b>							
<b>In October 1984</b>	<b>601</b>	<b>100.0</b>	<b>387</b>	<b>64.4</b>	<b>258</b>	<b>129</b>	<b>33.3</b>
Men .....	323	53.7	251	77.7	167	84	33.5
Women .....	277	46.1	136	49.1	91	45	33.1
Single .....	200	33.3	103	51.5	58	45	43.7
Other marital status .....	78	13.0	33	42.3	33	—	—
White <sup>3</sup> .....	483	80.4	321	66.5	229	92	28.7
Black <sup>3</sup> .....	109	18.1	61	56.0	25	36	( <sup>4</sup> )
Hispanic origin <sup>5</sup> .....	91	15.1	47	51.6	32	15	( <sup>4</sup> )
<b>1984–85 high school dropouts <sup>7</sup></b>							
<b>In October 1985</b>	<b>612</b>	<b>100.0</b>	<b>413</b>	<b>67.5</b>	<b>266</b>	<b>147</b>	<b>35.6</b>
Men .....	321	52.5	261	81.3	163	98	37.5
Women .....	291	47.5	152	52.2	103	49	32.2
Single .....	220	35.9	117	53.2	78	39	33.3
Other marital status .....	72	11.8	36	( <sup>4</sup> )	26	10	( <sup>4</sup> )
White <sup>3</sup> .....	458	74.8	330	72.1	214	116	35.2
Black <sup>3</sup> .....	132	21.6	69	52.3	39	30	( <sup>4</sup> )
Hispanic origin <sup>5</sup> .....	106	17.3	73	68.9	40	33	( <sup>4</sup> )
<b>1985–86 high school dropouts <sup>8</sup></b>							
<b>In October 1986</b>	<b>562</b>	<b>100.0</b>	<b>359</b>	<b>63.9</b>	<b>259</b>	<b>100</b>	<b>27.9</b>
Men .....	300	53.4	216	72.0	168	48	22.2
Women .....	262	46.6	143	54.6	91	52	36.4
Single .....	196	34.9	107	54.6	69	38	35.5
Other marital status .....	66	11.7	36	( <sup>4</sup> )	23	13	( <sup>4</sup> )
White <sup>3</sup> .....	449	79.9	289	64.4	213	76	26.3
Black <sup>3</sup> .....	90	16.0	50	55.6	29	21	( <sup>4</sup> )
Hispanic origin <sup>5</sup> .....	127	22.6	77	60.6	58	19	24.7
<b>1986–87 high school dropouts <sup>9</sup></b>							
<b>In October 1987</b>	<b>502</b>	<b>100.0</b>	<b>333</b>	<b>66.4</b>	<b>207</b>	<b>126</b>	<b>37.8</b>
Men .....	274	54.6	202	73.7	125	77	38.1
Women .....	228	45.4	131	57.6	82	49	37.3
White <sup>3</sup> .....	373	74.3	257	68.9	172	85	33.0
Black <sup>3</sup> .....	115	22.9	69	60.1	30	39	( <sup>4</sup> )
Hispanic origin <sup>5</sup> .....	57	11.4	37	( <sup>4</sup> )	22	15	( <sup>4</sup> )

<sup>1</sup> The labor force includes all employed persons plus those seeking employment. The labor force participation rate is the percentage of persons either employed or seeking employment.

<sup>2</sup> Includes persons who dropped out of school between October 1979 and October 1980.

<sup>3</sup> Includes persons of Hispanic origin.

<sup>4</sup> Data not shown where base is less than 75,000.

<sup>5</sup> Persons of Hispanic origin may be of any race.

<sup>6</sup> Includes persons who dropped out of school between October 1983 and October 1984.

<sup>7</sup> Includes persons who dropped out of school between October 1984 and October 1985.

<sup>8</sup> Includes persons who dropped out of school between October 1985 and October 1986.

<sup>9</sup> Includes persons who dropped out of school between October 1986 and October 1987.

—Data not available.

NOTE—Data are based upon sample surveys of the civilian noninstitutional population. Percents are only shown when the base is 75,000 or greater. Even though the standard errors are large, smaller estimates are shown to permit users to combine categories in various ways. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, *Students, Graduates, and Dropouts, October 1980–82*, and *Employment of School-Age Youth, Graduates, and Dropouts*, various years, and "Nearly Half of College Freshmen Also Hold a Job or Are Looking for One," June 1987. (This table was prepared December 1988.)

**Table 327.—Full-time employment status of bachelor's degree recipients 1 year after graduation, by field of study: 1976 to 1987**

Field of study	Percent employed full-time				Percent employed full-time in a job closely related to field of study				Percent employed full-time in nonprofessional job <sup>1</sup>			
	1974-75 graduates in May 1976	1979-80 graduates in May 1981	1983-84 graduates in June 1985	1985-86 graduates in June 1987	1974-75 graduates in May 1976	1979-80 graduates in May 1981	1983-84 graduates in June 1985	1985-86 graduates in June 1987	1974-75 graduates in May 1976	1979-80 graduates in May 1981	1983-84 graduates in June 1985	1985-86 graduates in June 1987
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>67</b>	<b>71</b>	<b>73</b>	<b>74</b>	<b>35</b>	<b>38</b>	<b>38</b>	<b>38</b>	<b>10</b>	<b>12</b>	<b>13</b>	<b>14</b>
Professional fields.....	77	80	82	81	51	51	47	47	9	10	13	11
Arts and sciences fields.....	56	56	56	62	18	17	15	25	12	14	15	15
Other.....	65	74	75	74	36	43	47	36	9	19	12	17
Newly qualified to teach.....	66	75	73	68	43	56	54	47	7	8	9	9
Not newly qualified to teach.....	67	71	73	74	33	36	36	37	12	13	13	14
Professional fields.....	80	81	82	82	52	49	47	47	10	10	13	11
Engineering.....	79	84	84	83	57	55	53	46	4	2	3	5
Business and management.....	84	83	85	85	49	44	41	40	15	14	19	17
Health.....	75	77	75	76	71	66	70	65	2	4	2	3
Education <sup>2</sup> .....	66	67	63	73	22	29	24	57	12	18	16	9
Public affairs and services.....	—	77	74	72	—	46	31	37	—	10	15	20
Arts and sciences fields.....	57	56	56	63	17	16	15	25	13	15	15	15
Biological sciences.....	56	45	43	42	26	18	17	15	6	8	11	11
Physical sciences and mathematics.....	50	58	51	76	19	29	20	48	6	2	7	9
Psychology.....	61	56	57	66	22	17	12	22	18	17	16	19
Social sciences.....	59	61	61	61	12	10	13	12	15	21	14	17
Humanities.....	56	55	59	59	12	14	17	19	17	18	19	19
Other.....	68	75	77	75	36	43	42	36	10	20	14	21
Communications.....	—	71	76	77	—	31	31	33	—	24	16	18
Miscellaneous.....	66	76	77	74	35	46	46	38	11	19	13	23

<sup>1</sup> Includes those not working in technical, managerial, or administrative types of jobs who reported that they did not need a college degree to obtain their job  
<sup>2</sup> Includes those who have not finished all requirements for teaching certification or were previously qualified to teach  
 —Data not available

odology are included in the Guide to Sources. Data exclude bachelor's recipients from U.S. Service Schools Dec ad graduates and graduates living at foreign addresses at the time of the survey are included. Data are not shown where sample size of base is less than 100 persons

NOTE —Data are from a sample survey of recent college graduates. Notes on meth-

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Recent College Graduates" surveys (This table was prepared March 1989)

**Table 328.—Occupation of 1985–86 bachelor's degree recipients 1 year after graduation, by field of study and occupational area: 1987**

[Percentage distribution]

Occupational area in June 1987	All fields of study	Professional fields					Arts and sciences					Other fields	
		Business and management	Education	Engineering	Health professions	Public affairs/social services	Biological sciences	Mathematics, computer, and physical sciences	Social sciences	Humanities	Psychology	Communications	Miscellaneous <sup>1</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Total</b> .....	<b>100</b>	<b>100</b>	<b>99</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>Professional, managerial and technical</b>	<b>53</b>	<b>52</b>	<b>75</b>	<b>71</b>	<b>79</b>	<b>49</b>	<b>28</b>	<b>59</b>	<b>32</b>	<b>39</b>	<b>40</b>	<b>47</b>	<b>37</b>
Business .....	19	46	4	5	3	9	4	6	18	9	12	19	13
Educators .....	10	1	66	2	2	4	7	8	6	12	10	2	7
Engineers .....	6	1	( <sup>2</sup> )	57	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	6	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	1
Health professionals .....	5	( <sup>2</sup> )	1	( <sup>2</sup> )	65	1	2	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	5	( <sup>2</sup> )	3
Public affairs/social services .....	2	( <sup>2</sup> )	2	( <sup>2</sup> )	1	31	2	( <sup>2</sup> )	4	7	7	1	5
Biological scientists .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1
Computer/physical scientist, mathematician .....	5	3	( <sup>2</sup> )	3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	35	1	1	1	1	1
Communications .....	1	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	1	4	( <sup>2</sup> )	20	( <sup>2</sup> )
Writer .....	1	( <sup>2</sup> )	1	1	( <sup>2</sup> )	1	1	( <sup>2</sup> )	( <sup>2</sup> )	6	1	3	3
Technicians .....	3	1	1	4	7	3	10	4	3	1	4	1	5
<b>Nonprofessional, nonmanagerial, and nontechnical</b> .....	<b>31</b>	<b>37</b>	<b>15</b>	<b>18</b>	<b>9</b>	<b>37</b>	<b>28</b>	<b>25</b>	<b>40</b>	<b>39</b>	<b>40</b>	<b>41</b>	<b>47</b>
Unemployed .....	4	4	3	4	2	3	4	4	6	7	5	6	4
Not in labor force .....	11	6	6	7	10	10	39	10	21	15	15	5	12

<sup>1</sup> Includes agricultural and related studies, home economics, law, liberal/general studies, area studies, library science, recreation, and protective services

<sup>2</sup> Less than 5 percent

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Survey of 1985–86 Recent College Graduates, 1987" (This table was prepared March 1989)

**Table 329.—Percentage of 1985–86 bachelor's degree recipients who have pursued additional higher education, by type of degree sought or obtained, and undergraduate major field of study: 1987**

Undergraduate major field of study	Total	No additional education	Courses not leading to degree or certificate	Associate or bachelor's degree	Post-baccalaureate certificate	Master's degree	Doctor's degree	First-professional degree	Other certificate
1	2	3	4	5	6	7	8	9	10
<b>Total</b> .....	100	72	3	1	1	15	1	4	2
Professional fields.....	100	79	2	1	(2)	14	(2)	2	1
Engineering.....	100	72	2	1	(2)	22	1	1	1
Business and management.....	100	84	2	1	(2)	9	(2)	2	1
Health professions.....	100	79	2	1	(2)	13	(2)	3	1
Education.....	100	71	3	1	1	19	(2)	(2)	3
Public affairs and social services.....	100	70	3	2	(2)	23	(2)	2	(2)
Arts and sciences fields.....	100	61	3	2	1	19	3	9	3
Biological sciences.....	100	38	5	3	1	13	6	28	5
Physical sciences, mathematics, and computer sciences.....	100	70	3	2	(2)	16	4	4	2
Psychology.....	100	57	2	1	1	29	4	3	2
Social sciences.....	100	62	2	1	1	16	2	12	3
Humanities.....	100	61	3	2	1	23	1	5	3
Other.....	100	77	4	2	1	10	(2)	3	4
Communications.....	100	86	3	1	1	6	(2)	2	1
Miscellaneous.....	100	72	4	2	1	12	1	4	5

<sup>1</sup> Includes chiropractic, dentistry, law, medicine, optometry, osteopathic medicine, pharmacy, podiatry, theological studies, and veterinary medicine.  
<sup>2</sup> Less than .5 percent.

from U.S. Service Schools. Deceased graduates and graduates living at foreign addresses at the time of the survey are not included. Because of rounding, details may not add to totals.

NOTE—Data are from a sample survey of recent college graduates. Notes on methodology are included in the Guide to Sources. Data exclude bachelor's degree recipients

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Recent College Graduates" survey (This table was prepared March 1985.)

**Table 330.—Percentage of 1985–86 bachelor's degree recipients who have applied for additional education and reasons for not applying, by major field of study: 1987**

Undergraduate major field of study	Total	Applied for additional education	Did not apply for additional education, by reason				
			No plans to continue	Wanted to work	Wanted to take time off	Could not afford to continue	Other reasons
1	2	3	4	5	6	7	8
<b>Total</b> .....	100	36	16	34	6	5	3
Professional fields.....	100	29	17	39	7	4	3
Engineering.....	100	37	13	40	4	4	2
Business and management.....	100	24	22	39	8	4	3
Health professions.....	100	29	15	39	8	6	3
Education.....	100	36	10	39	7	6	2
Public affairs and social services.....	100	43	14	34	4	5	(1)
Arts and sciences fields.....	100	47	13	27	5	4	3
Biological sciences.....	100	68	6	17	2	4	3
Physical sciences, mathematics, and computer sciences.....	100	37	16	35	5	4	2
Psychology.....	100	50	10	26	9	3	2
Social sciences.....	100	47	11	28	5	5	4
Humanities.....	100	49	15	23	5	4	3
Other.....	100	32	20	33	6	7	2
Communications.....	100	23	25	39	5	6	2
Miscellaneous.....	100	37	17	29	6	8	3

<sup>1</sup> Less than .5 percent.

NOTE—Data are from a sample survey of recent college graduates. Notes on methodology are included in the Guide to Sources. Data exclude bachelor's degree recipients from U.S. Service Schools. Deceased graduates and graduates living at foreign

addresses at the time of the survey are not included. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "Recent College Graduates" survey (This table was prepared March 1985.)

**Table 331.—Average annual salary of bachelor's degree recipients employed full-time 1 year after graduation, by field of study: 1976 to 1987**

Field of study	Average salary <sup>1</sup> of 1974-75 degree recipients in February 1976		Average salary <sup>1</sup> of 1978-80 degree recipients in May 1981		Average salary <sup>1</sup> of 1983-84 degree recipients in June 1985		Average salary of 1985-86 degree recipients in June 1987	Percentage change in constant dollars, 1976 to 1981	Percentage change in constant dollars, 1981 to 1987
	Current dollars	Constant 1987 dollars	Current dollars	Constant 1987 dollars	Current dollars	Constant 1987 dollars			
	2	3	4	5	6	7	8		
<b>Total</b> .....	<b>\$7,600</b>	<b>\$15,500</b>	<b>\$15,200</b>	<b>\$19,200</b>	<b>\$17,700</b>	<b>\$18,700</b>	<b>\$20,300</b>	<b>25</b>	<b>6</b>
Engineering.....	12,200	24,800	22,400	28,300	24,100	25,400	26,600	15	-6
Business and management.....	10,200	20,700	16,300	20,600	18,700	19,700	21,100	0	2
Health professions.....	8,600	17,500	17,500	21,900	20,800	21,900	22,600	25	3
Education <sup>2</sup> .....	6,300	12,800	11,500	14,500	13,800	14,600	15,800	14	9
Public affairs and social services.....	( <sup>3</sup> )	( <sup>3</sup> )	13,700	17,300	15,100	15,900	17,700	—	2
Biological sciences.....	6,500	13,200	14,500	18,300	15,100	15,900	16,400	40	-10
Physical sciences, mathematics, and computer sciences.....	7,000	14,200	16,300	20,600	17,500	18,500	22,500	45	9
Psychology.....	( <sup>3</sup> )	( <sup>3</sup> )	12,500	15,800	14,800	15,400	17,300	—	9
Social sciences.....	6,700	13,800	14,000	17,700	15,800	16,700	20,300	31	15
Humanities.....	5,800	11,800	12,600	15,900	14,000	14,800	16,200	36	2
Communications.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	16,200	17,100	( <sup>3</sup> )	—	—
Miscellaneous.....	6,800	13,800	15,100	19,100	18,600	19,600	17,600	39	-8

<sup>1</sup> Reported salaries of full-time workers under \$2,600 in 1976, \$4,200 in 1981, and \$5,000 in 1985 were excluded from the tabulations  
<sup>2</sup> Most educators work 9- to 10-month contracts  
<sup>3</sup> Cell contains fewer than 75 respondents

SOURCE U.S. Department of Education, National Center for Education Statistics, "Recent College Graduates" surveys (This table was prepared February 1989)

NOTE—Data exclude bachelor's recipients from U.S. Service Schools and graduates living at foreign addresses at the time of the survey. Constant dollar adjustments based on the Consumer Price Index.

**Table 332.—Income, earnings, and work activity of persons who held a bachelor's or advanced degree, by field of study: Spring 1984**

Field of study	Mean monthly income <sup>1</sup>		Mean monthly earnings <sup>2</sup>		Number of months worked during previous 4 months		Standard errors for monthly income <sup>3</sup>	
	Bachelor's degrees	Advanced degrees	Bachelor's degrees	Advanced degrees	Bachelor's degrees	Advanced degrees	Bachelor's degrees	Advanced degrees
	2	3	4	5	6	7	8	9
<b>All degree recipients</b> .....	<b>\$1,841</b>	<b>\$2,711</b>	<b>\$1,540</b>	<b>\$2,341</b>	<b>3.08</b>	<b>3.35</b>	<b>\$47</b>	<b>\$80</b>
Agriculture and forestry.....	1,945	( <sup>4</sup> )	1,559	( <sup>4</sup> )	3.25	( <sup>4</sup> )	203	( <sup>4</sup> )
Biology.....	1,559	( <sup>4</sup> )	1,201	( <sup>4</sup> )	2.73	( <sup>4</sup> )	218	( <sup>4</sup> )
Business and management.....	2,381	3,564	2,179	3,192	3.48	3.64	163	253
Economics.....	2,846	( <sup>4</sup> )	2,280	( <sup>4</sup> )	3.36	( <sup>4</sup> )	372	( <sup>4</sup> )
Education.....	1,290	2,062	1,012	1,695	2.76	3.23	51	140
Engineering.....	2,833	3,308	2,282	2,886	3.38	3.55	170	235
English and journalism.....	1,477	1,945	1,095	1,567	2.66	3.48	225	263
Home economics.....	1,065	( <sup>4</sup> )	525	( <sup>4</sup> )	2.12	( <sup>4</sup> )	208	( <sup>4</sup> )
Law.....	( <sup>4</sup> )	4,060	( <sup>4</sup> )	3,624	( <sup>4</sup> )	3.57	( <sup>4</sup> )	365
Liberal arts and humanities.....	1,400	1,720	1,072	1,466	2.87	3.17	92	192
Mathematics and statistics.....	2,116	( <sup>4</sup> )	1,809	( <sup>4</sup> )	3.20	( <sup>4</sup> )	270	( <sup>4</sup> )
Medicine and dentistry.....	( <sup>4</sup> )	4,234	( <sup>4</sup> )	3,797	( <sup>4</sup> )	3.53	( <sup>4</sup> )	385
Nursing, pharmacy, and health.....	1,424	1,804	1,196	1,610	2.99	2.98	92	310
Physical and earth sciences.....	2,529	2,913	2,068	2,431	3.05	3.21	391	406
Psychology.....	1,251	2,282	1,166	1,881	2.91	3.28	157	259
Religion and theology.....	( <sup>4</sup> )	1,584	( <sup>4</sup> )	1,211	( <sup>4</sup> )	3.36	( <sup>4</sup> )	139
Social sciences.....	1,610	2,124	1,371	1,745	3.00	3.20	157	234
Other.....	1,840	2,101	1,656	1,717	3.24	3.15	187	168

<sup>1</sup> Includes money wages and salary and net income from farm and nonfarm self-employment and all other income  
<sup>2</sup> Includes money wages or salary and net income from farm and nonfarm self-employment  
<sup>3</sup> See Guide to Sources for information on the use of standard errors  
<sup>4</sup> Data not shown where base is less than 200,000 persons

NOTE—Data are based on sample surveys of the civilian noninstitutional population  
 SOURCE U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-70, No. 11, "Educational Background and Economic Status: Spring 1984" (This table was prepared October 1987)



**Table 333.—Participation of young adults<sup>1</sup> in voluntary organizations, by selected characteristics: 1984 to 1986**

Young adult characteristics	Percent participating in voluntary organizations											
	Sports teams or clubs	Church activities	Social or hobby clubs	Union, trade, farm, or other professional associates	Literary, art discussion or study group	Community groups <sup>2</sup>	Youth organizations	PTA or other academic group	Political clubs	Organized volunteer work <sup>3</sup>	Service organizations <sup>4</sup>	Other voluntary group
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>36.0</b>	<b>32.2</b>	<b>21.8</b>	<b>17.7</b>	<b>10.8</b>	<b>9.4</b>	<b>9.2</b>	<b>7.0</b>	<b>6.2</b>	<b>5.8</b>	<b>4.0</b>	<b>9.6</b>
<b>Sex</b>												
Male .....	46.8	29.3	22.5	20.3	10.7	8.6	11.7	4.7	6.7	5.3	5.2	9.7
Female .....	25.8	34.9	21.1	15.3	11.0	10.2	6.9	9.1	5.8	6.2	2.9	9.4
<b>Race/ethnicity</b>												
White, non-Hispanic .....	36.5	30.6	22.3	18.2	10.2	8.5	8.7	6.4	5.9	5.5	3.9	9.7
Black, non-Hispanic .....	31.9	44.2	21.5	14.9	13.1	16.2	12.0	12.0	8.2	6.8	4.0	10.3
Hispanic .....	34.6	32.4	17.1	15.8	11.6	8.5	9.5	5.6	6.9	4.3	4.7	7.1
Asian .....	41.4	31.0	28.7	27.3	23.2	10.5	10.8	9.1	5.9	14.1	5.9	10.3
American Indian .....	41.1	30.0	27.9	19.7	8.9	13.0	11.6	6.5	9.6	4.2	7.2	7.8
<b>Socioeconomic status</b>												
Low .....	29.2	30.9	17.6	12.2	6.6	8.0	7.0	6.0	3.4	4.5	2.2	6.9
Low-middle .....	34.5	31.4	21.7	15.6	9.6	8.6	8.7	6.0	4.5	4.6	4.9	8.6
High-middle .....	39.9	35.4	23.5	21.8	11.6	9.4	10.6	7.2	7.8	6.9	4.7	10.6
High .....	43.1	33.9	26.4	22.4	16.0	12.2	10.7	10.0	9.9	7.4	4.1	13.0
<b>High school curriculum</b>												
General .....	35.8	30.9	21.3	14.5	8.8	8.4	9.3	5.0	5.2	4.5	3.8	9.0
Academic .....	40.7	35.8	25.0	24.2	15.7	11.8	10.3	11.5	9.1	8.2	4.7	12.6
Vocational .....	31.1	31.5	19.6	13.7	6.3	8.1	7.5	4.3	4.0	4.6	2.9	6.6
<b>Level of participation in high school extracurricular activities<sup>5</sup></b>												
Never participated .....	18.4	14.6	17.1	14.1	5.6	4.6	3.4	2.4	1.5	2.3	2.1	4.6
Participated as a member .....	32.3	29.6	20.9	15.0	8.9	8.2	6.7	5.8	5.0	5.4	3.4	7.8
Participated as a leader .....	45.0	40.6	24.9	21.7	14.0	12.3	13.1	9.8	8.8	7.5	4.8	12.8

<sup>1</sup> Sample survey in 1986 based on people who were high school seniors in spring 1980. Respondents to the survey were asked about their voluntary participation in selected organizations over the previous 24-month period.

<sup>2</sup> Includes participation in community centers, neighborhood improvement, or social action associations or groups.

<sup>3</sup> E.g., hospital volunteer.

<sup>4</sup> Includes participation in organizations such as Rotary, Junior Chamber of Commerce, Veterans, etc.

<sup>5</sup> In 1980, the seniors were asked to indicate the level of participation in each of 15 different extracurricular activity areas (e.g., varsity sports, debate band, subject-matter

clubs, church activities, etc.) Responses to these earlier inquiries were used to classify overall level of participation in extracurricular activities.

NOTE—Some adults participated in more than one organization.

SOURCE: U.S. Department of Education, National Center for Education Statistics, High School and Beyond (This table was prepared October 1987).

**Table 334.—Literacy skills and reading scores of young adults,<sup>1</sup> by race/ethnicity and level of education: 1985**

Young adult characteristic	Prose literacy scale, <sup>2</sup> percent with score of—				Document literacy, <sup>3</sup> percent with score of—				Quantitative literacy, <sup>4</sup> percent with score of—			
	200 or more	250 or more	300 or more	350 or more	200 or more	250 or more	300 or more	350 or more	200 or more	250 or more	300 or more	350 or more
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Total</b> .....	<b>96.1</b>	<b>82.7</b>	<b>56.4</b>	<b>21.1</b>	<b>95.5</b>	<b>83.8</b>	<b>57.2</b>	<b>20.2</b>	<b>96.4</b>	<b>84.7</b>	<b>56.0</b>	<b>22.5</b>
<b>Race/ethnicity</b>												
White, non-Hispanic .....	98.1	89.7	63.0	24.3	98.2	89.5	64.1	24.9	98.1	89.4	62.9	24.8
Black, non-Hispanic .....	86.3	57.2	21.3	3.5	84.4	56.5	20.1	2.2	87.8	58.0	21.4	3.3
Hispanic .....	93.5	73.6	40.9	13.5	92.0	69.8	35.9	9.4	92.8	72.5	35.2	9.2
<b>Educational attainment</b>												
Not high school graduate .....	85.4	57.9	24.1	3.4	83.4	53.6	18.8	1.5	86.1	57.7	20.6	3.5
High school graduate .....	99.6	81.6	45.1	10.5	96.5	81.8	46.2	9.0	96.9	80.5	45.2	10.1
Some postsecondary .....	98.8	92.0	67.0	26.8	99.0	92.1	68.0	27.2	99.3	92.7	66.8	27.0
College graduate .....	99.9	97.7	84.3	44.8	99.9	98.0	85.6	48.8	99.9	97.8	84.1	45.3

<sup>1</sup> Includes persons 21 to 25 years old. Excludes persons not living in households and those who were unable to speak English.

<sup>2</sup> Prose comprehension test measures the knowledge and skills needed to gain understanding and use information from texts such as editorials, news stories, and poems. A score of 200 indicates an ability to write a simple description of the type of job one would like to have. A score of 300 indicates an ability to locate information in a news article or an almanac. A score of 350 indicates an ability to synthesize the main argument from a lengthy newspaper editorial.

<sup>3</sup> Document literacy test measures the knowledge and skills required to locate and use information from documents such as indexes, tables, paycheck stubs, and order forms. A score of 200 indicates ability to match money-saving coupons to a shopping list of several items. A score of 300 indicates an ability to follow directions to travel from

one location to another using a map. A score of 350 indicates an ability to use a bus schedule to select the appropriate bus for given departures and arrivals.

<sup>4</sup> Quantitative literacy test measures the knowledge and skills needed to apply the arithmetic operations of addition, subtraction, multiplication, and division, either alone or sequentially. A score of 200 indicates an ability to total two entries on a bank deposit slip. A score of 300 indicates an ability to enter deposits and checks and balance a checkbook. A score of 350 indicates an ability to determine the amount of a tip in a restaurant using a given percentage.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Young Adult Literacy and Schooling* (This table was prepared May 1986).

**Table 335.—Percentage of 1972 and 1982 high school seniors who felt that certain life values were "very important," by sex: 1972 to 1986**

Value	Percentage of 1972 seniors						Percentage of 1982 seniors					
	1972		1974		1976		1982		1984		1986	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13
Being successful in work .....	86.5	83.0	81.2	74.9	80.3	69.7	88.2	85.5	88.7	84.2	84.0	77.2
Finding steady work.....	82.3	73.7	74.7	59.9	79.3	62.1	88.0	84.4	87.4	83.3	84.2	76.3
Having lots of money .....	26.0	9.8	17.8	9.1	17.7	9.4	41.3	24.1	35.8	20.9	27.8	16.9
Being a leader in the community.....	14.9	8.0	8.5	4.4	9.2	4.2	11.3	5.9	13.7	6.4	9.5	4.5
Correcting inequalities.....	22.5	31.1	16.6	18.2	16.2	17.1	11.8	11.7	13.3	13.9	10.7	10.9
Having children.....	—	—	—	—	—	—	37.0	47.0	42.7	56.3	41.4	56.2
Having a happy family life .....	78.6	85.7	83.1	86.7	84.2	86.4	81.6	86.3	86.1	90.2	86.8	87.8
Providing better opportunities for my children.....	66.6	66.2	59.5	61.6	59.8	58.8	71.0	68.7	72.1	69.9	68.4	67.4
Living closer to parents or relatives .....	6.8	8.2	8.3	12.4	7.7	11.9	15.0	15.7	15.6	20.1	12.9	19.8
Moving from area.....	14.3	14.6	8.3	7.4	6.7	6.4	14.4	12.8	10.5	9.1	9.0	7.4
Having strong friendships .....	81.2	78.7	76.5	74.7	76.1	72.1	80.4	79.1	80.1	79.7	76.5	75.0
Having leisure time.....	—	—	60.9	55.1	65.4	60.1	70.2	68.8	74.5	72.0	70.1	68.9

—Data not available

NOTE —Percentages are based on the total sample members who responded to the individual survey items in each survey period.

SOURCE U.S. Department of Education, National Center for Education Statistics, National Longitudinal Study and High School and Beyond surveys (This table was prepared June 1987)

**Table 336.—Political participation of young adults, by sex, race/ethnicity, and socioeconomic status: 1979 and 1986**

Political participation	Total	Sex		Race/ethnicity				Socioeconomic status		
		Male	Female	White, non-Hispanic	Black, non-Hispanic	Hispanic	Asian	Lower	Middle	Upper
1	2	3	4	5	6	7	8	9	10	11
<b>1979<sup>1</sup></b>										
Tried to persuade someone to vote for or against a candidate .....	34.3	37.7	31.1	35.6	26.9	28.7	35.3	28.0	33.3	42.7
Gave money or bought tickets to help a candidate.....	20.6	21.9	19.4	19.8	27.7	23.1	19.3	19.5	19.2	24.4
Attended a social-political gathering <sup>2</sup> .....	21.3	22.2	20.3	20.3	30.0	24.2	20.4	20.1	19.5	26.0
Voted in a local, State, or national election <sup>3</sup> .....	68.4	68.2	68.6	70.2	63.4	53.7	59.0	58.4	68.1	79.3
<b>1986<sup>4</sup></b>										
Tried to persuade someone to vote for or against a candidate .....	25.0	26.1	24.0	25.2	26.8	23.2	24.5	20.5	24.0	33.7
Gave money or bought tickets to help a candidate .....	13.7	13.6	13.9	12.5	19.6	17.1	11.1	12.0	12.7	17.2
Attended a social-political gathering <sup>2</sup> .....	15.7	16.5	14.9	15.0	21.9	15.5	16.0	12.7	14.5	21.5
Registered to vote.....	72.3	71.8	72.9	71.8	77.8	70.3	71.8	66.3	72.4	81.5
Voted in a local, State, or national election <sup>3</sup> .....	60.7	59.8	61.5	61.4	62.5	52.8	56.8	51.8	60.5	74.7
Voted in the 1984 presidential election.....	59.0	57.8	60.0	60.0	60.0	51.8	54.1	50.7	59.1	73.5

<sup>1</sup> Sample survey in 1979-80 based on people who were high school seniors during the 1971-72 school year. Survey participants were asked about their political activities over a 3-year period, 1976 to 1979.

<sup>2</sup> Includes attendance at political meetings, rallies, barbecues, fish fries, or similar events in connection with an election.

<sup>3</sup> Survey participants were asked whether or not they voted in any local, State, or national election between November 1976 and October 1979.

<sup>4</sup> Sample survey in 1986 based on people who were high school seniors in spring 1980. Survey participants were asked about their political activities over a 2-year period, 1984 to 1986.

<sup>5</sup> Survey participants were asked whether or not they voted in any local, State, or national election between March 1974 and February 1986.

NOTE —Because of the different time frames of the political participation inquiries, care should be used when interpreting the data.

SOURCE U.S. Department of Education, National Center for Education Statistics, "High School and Beyond, Third Follow-up, 1986" and "National Longitudinal Study, Fourth Follow-up, 1980" surveys (This table was prepared September 1987)



**Table 337.—Percentage of 1980 high school seniors holding specific attitudes/beliefs about women, by highest educational degree attained and sex: 1986**

Attitude/belief	Percentage of 1980 seniors <sup>1</sup> in 1986								
	Total	Male	Female	Highest educational degree attained					
				High school diploma or less		License or associate degree		Bachelor's or higher degree	
				Male	Female	Male	Female	Male	Female
1	2	3	4	5	6	7	8	9	10
A working mother of pre-school children can be just as good a mother as the woman who doesn't work.....	77.4	72.9	81.6	73.7	80.9	68.2	83.6	74.2	81.7
It is usually better for everyone involved if the man is the achiever outside the home and the woman takes care of the home and family.....	27.0	30.3	24.0	31.9	28.4	31.2	24.2	24.0	10.1
Men and women should be paid the same money if they do the same work.....	97.4	96.2	98.4	95.8	98.3	96.0	98.2	97.6	99.2
Most women are happiest when they are making a home and caring for children.....	28.9	31.8	26.3	33.9	31.1	32.7	28.2	23.9	9.8
A woman should have exactly the same educational opportunities as a man.....	98.1	98.0	98.1	97.5	98.0	99.1	97.3	98.9	99.7
A pre-school child is likely to suffer if the mother works.....	32.9	39.0	27.1	38.6	28.4	41.8	26.9	38.2	23.7
Women should be considered as seriously as men for jobs as executives or politicians.....	93.7	91.2	96.1	90.0	95.8	91.9	94.8	94.6	98.2
Other things being equal, a woman's job should be considered as seriously as a man's in making decisions about whether to move, where to live, etc.....	94.0	92.3	95.6	90.7	94.9	95.9	96.2	94.7	97.0

<sup>1</sup> Data are based on a 1986 sample survey of students who were high school seniors in spring 1986. Figures in the table represent the estimated percentage of these students who either agreed or strongly agreed with the statements to the left.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "High School and Beyond, Third Follow-up, 1986" survey (This table was prepared November 1987.)

## CHAPTER 6

# International Comparisons of Education

This chapter offers a broad perspective on education among the nations of the world. It also provides an international context for examining the condition of education in the United States. Although the Center has not been active in collecting international data, it has recently funded a number of research studies comparing mathematics and science performance among various nations. Also, a study entitled, *A Comparison of Teachers' Salaries in Japan and the United States* has been released. In addition, the Center has cooperated with international agencies in the compilation of statistics.

The data in this chapter were drawn from material prepared by the United Nations Educational, Scientific, and Cultural Organization (UNESCO), the Institute of International Education, and the International Association for the Evaluation of Educational Achievement. The basic summary data on enrollments, teachers, enrollment ratios, illiteracy rates, and finances were synthesized from information appearing in the annual *Statistical Yearbook* published by UNESCO. Even though UNESCO tabulations are very carefully prepared, international data users should be cautioned about the many definitional and reporting problems involved in the collection of data about the wide variety of educational systems in the world.

This chapter also contains data from the latest international assessments of mathematics and science achievement. These assessments, coordinated by the International Association for the Evaluation of Educational Achievement, provide comparative data for about 20 countries. New data from other mathematics and geography assessments are also included in this chapter. A different perspective is provided by data on the enrollment of foreign students in U.S. institutions of higher education. These data from the Institute of International Education provide information on the number of these students and their country of origin.

Further information on survey methodologies can be found in the Guide to Sources and in the publications cited in the source notes.

### Highlights

- Enrollments at all levels have increased more rapidly in Africa than in other parts of the world. En-

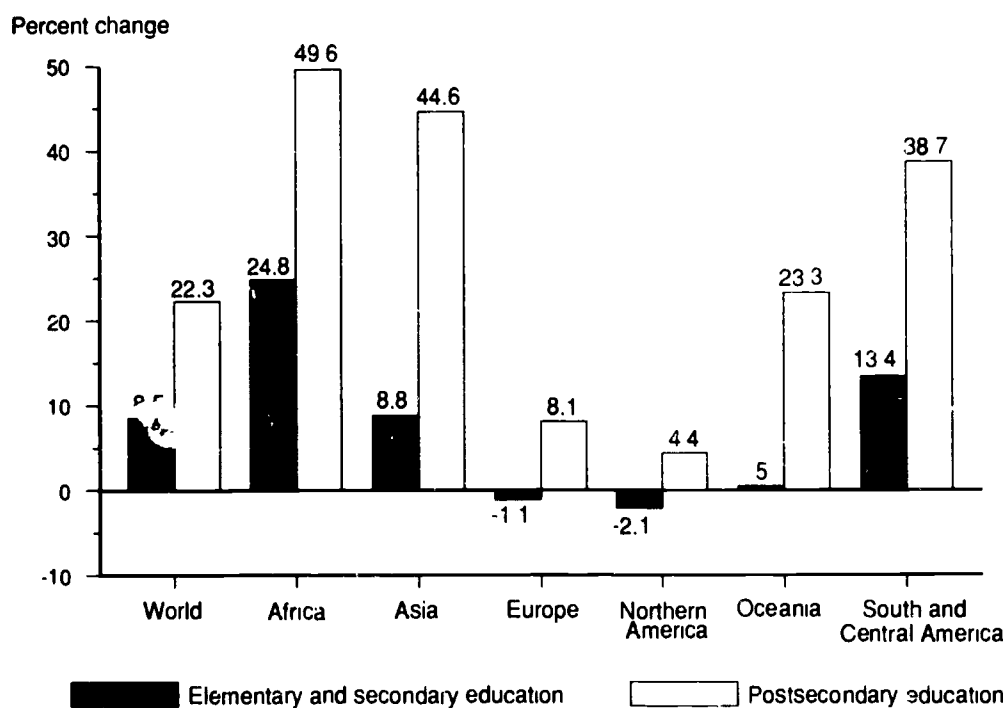
rollments at the primary and secondary levels declined in Northern America and in Europe because of the declining number of school-age children. The smallest higher education enrollment increases occurred in Northern America and in Europe. (Table 338)

- In 1984-85, there were about 886 million students in schools around the world. Of these students, 574 million were in elementary-level programs, 259 million were in secondary programs, and 53 million were in postsecondary programs. (Table 338)
- Between 1980-81 and 1984-85, enrollments grew rapidly, particularly in the less-developed areas of the world. Elementary school enrollment rose 4 percent during this time period. Elementary enrollment changes ranged from increases of 12 percent in Africa to declines of 2 percent in Europe and Northern America and 5 percent in Oceania. In general, enrollment changes at the secondary and postsecondary levels followed this same pattern, with large increases in Africa and smaller increases or decreases in Europe and Northern America. (Table 338)
- Pupil-teacher ratios in elementary and secondary schools vary widely from country to country. Countries with relatively low ratios were Italy (11.8 in 1982), Australia (13.7 in 1984), and Sweden (13.7 in 1982). Countries with relatively high ratios included Mexico (28.0 in 1983) and Japan (20.5 in 1984). (Table 339)
- A comparison of public expenditures on education as a percent of gross national product (GNP) reveals significant differences among nations. For example, the proportion of GNP for the United States in 1983 was 5.6 percent. Other countries ranged from 2.2 percent for Nigeria and 2.8 percent for Mexico to 7.7 percent for Canada and 8.4 percent for Sweden. (Table 342)
- U.S. students ranked well below average in a 1981-82 international test of mathematical skills of 8th-grade students. Only 6 of the 19 other nations and Canadian provinces scored below the United States. U.S. students scored above the international average on arithmetic and statistics, but they

scored below the international average on algebra, geometry, and measurement tests. (Table 344)

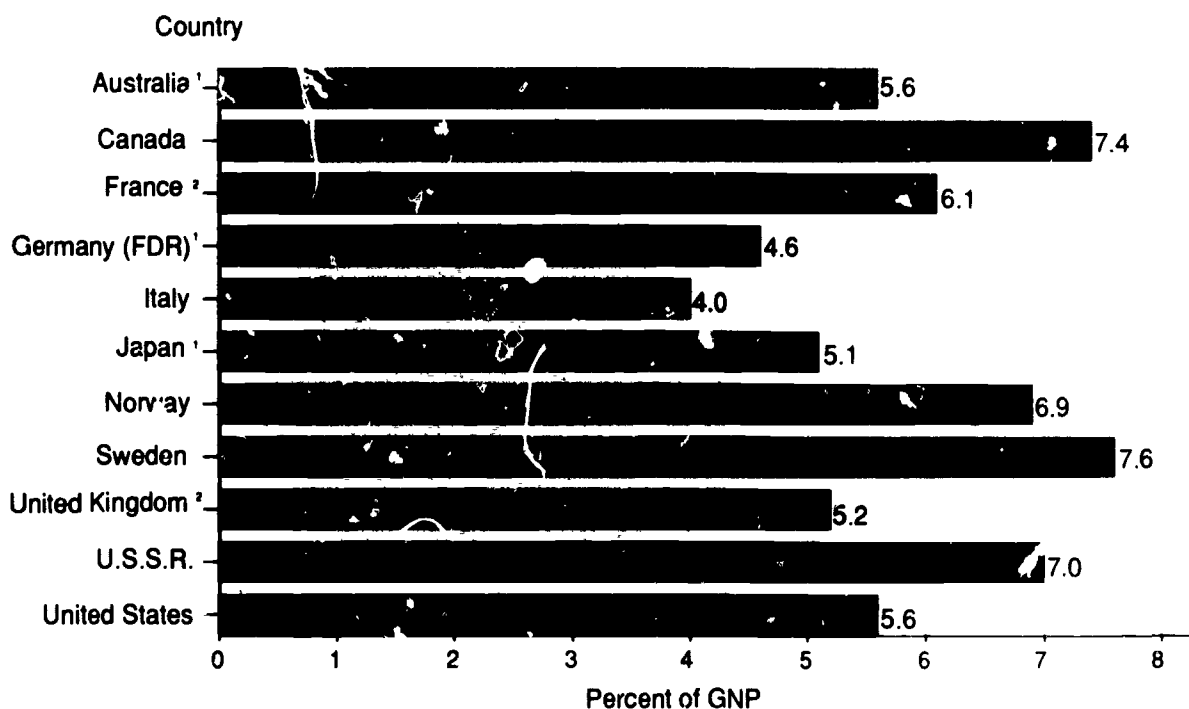
- In an analysis of international mathematics testing for the most advanced 12th-grade mathematics students, U.S. students ranked next to last among the 13 participating nations. The best scores were made by Japanese students, who had the highest average scores on each of the three parts of the test, algebra, geometry, and calculus. The Japanese schools were also among the most likely to cover the material that was tested on the exam. The American schools covered the smallest portion of the material, with the exception of schools in British Columbia. (Table 345)
- In the 1988 International Assessment of Educational Progress, the U.S. 13-year-olds scored lowest in mathematics and in the bottom third on science achievement among a group of countries and Canadian provinces. (Tables 343 and 346)
- In a series of science tests administered to a selected group of countries between 1983 and 1986, the U.S. 14-year-olds scored somewhat lower than their peers in 12 other countries, better than 2 other countries, and about the same as Singapore and Thailand. (Table 347)

**Figure 24.—Changes in enrollment, by area of the world and level of education: 1980-81 to 1985-86**



SOURCE: United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook*, 1987

**Figure 25.—Public expenditures for education as a percent of gross national product: Selected countries, 1986**

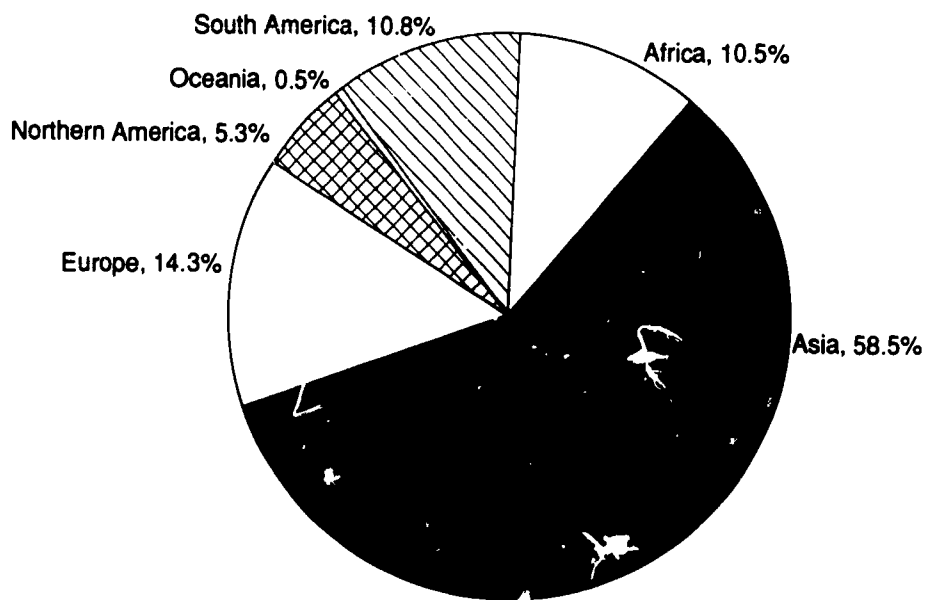


<sup>1</sup> 1985 data.

<sup>2</sup> 1984 data.

SOURCE: United Nations Educational, Scientific, and Cultural Organization, *Statistical Yearbook*.

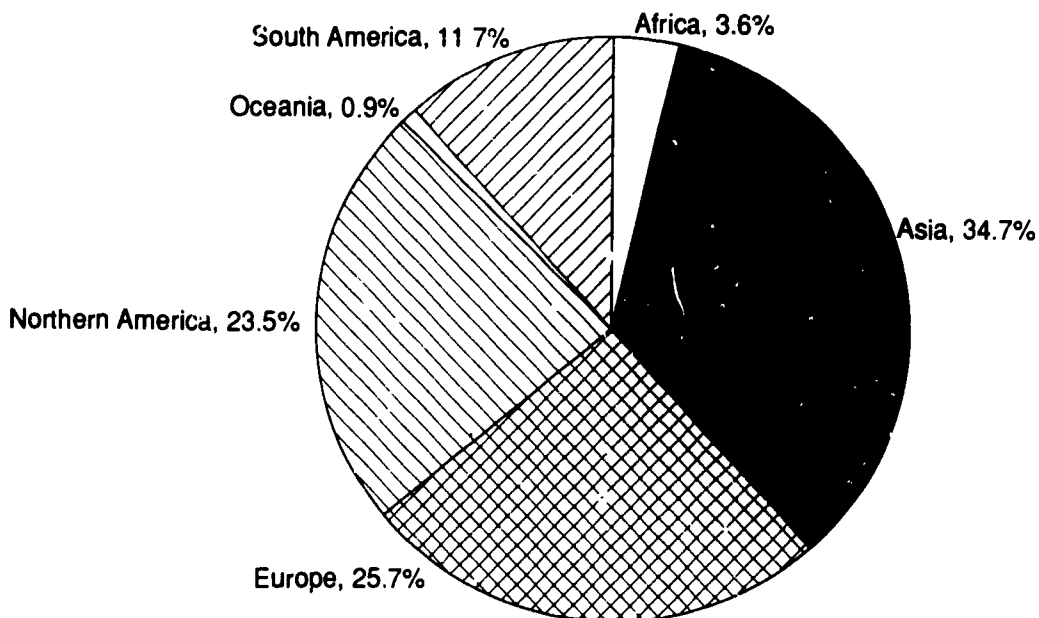
**Chart 26.—Distribution of elementary and secondary enrollment, by major area of the world: 1985-86**



Total elementary and secondary enrollment = 864 million

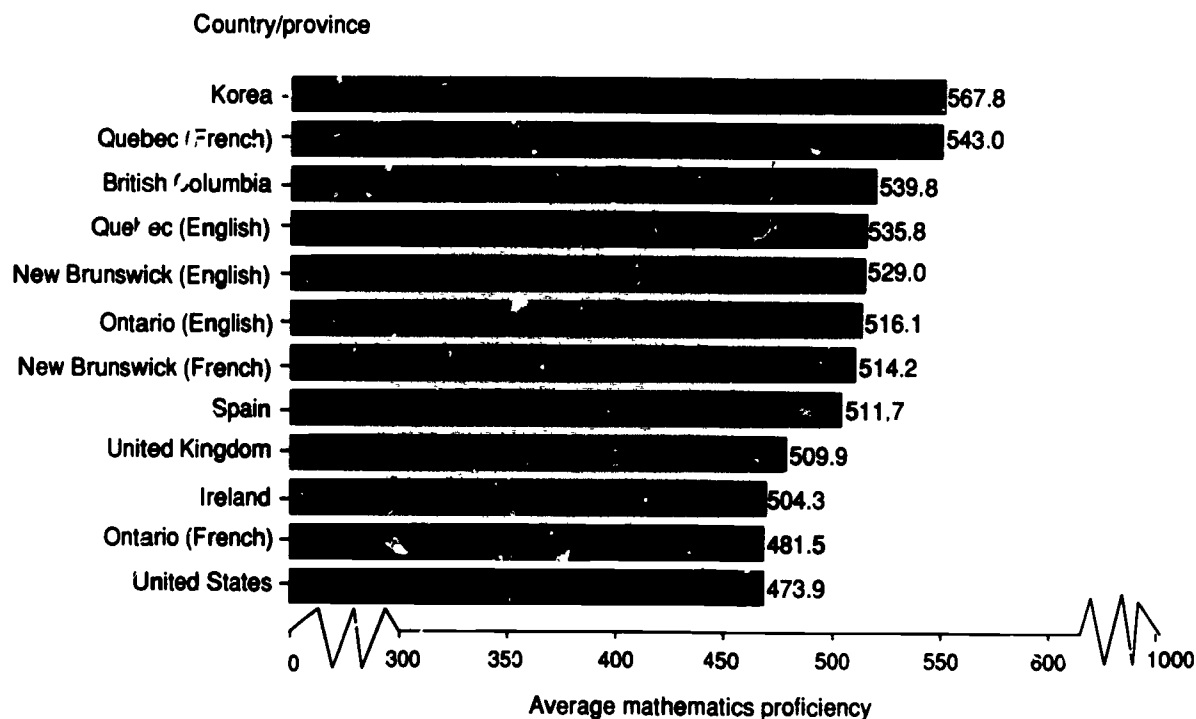
SOURCE: United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook, 1987*.

**Figure 27.—Distribution of higher education enrollment, by major area of the world: 1985-86**

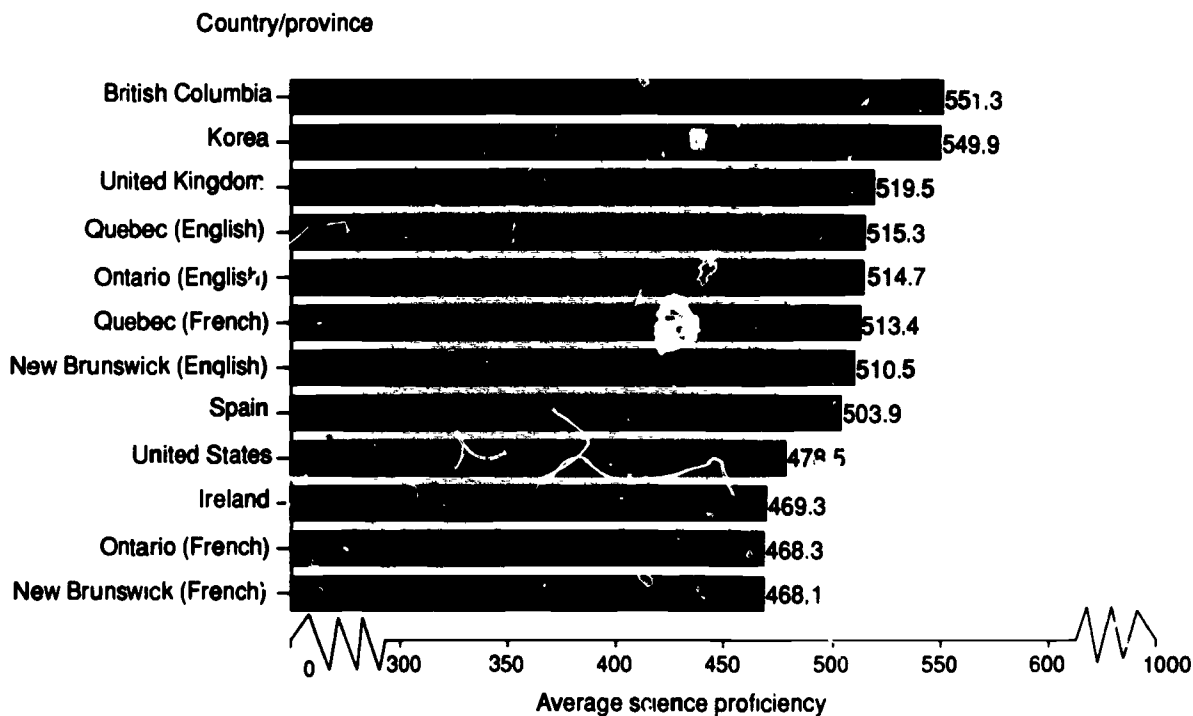


Total higher education enrollment = 58.0 million

SOURCE: United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook 1987*.

**Figure 28.—Mathematics proficiency at age 13, by country/province: 1998**

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress, *A World of Differences*, by Educational Testing Service.

**Figure 29.—Science proficiency at age 13, by country/province: 1988**

SOURCE: U.S. Department of Education, National Center for Education Statistics, National Assessment of Educational Progress, *A World of Differences*, by Educational Testing Service.



**Table 338.—Estimated population, school enrollment, teachers, and public expenditures for education in major areas of the world: 1970-71, 1980-81, and 1985-86**

Item	World total <sup>1</sup>	Major areas of the world					
		Africa <sup>2</sup>	Asia <sup>3</sup>	Europe <sup>4</sup>	Central and South America <sup>5</sup>	Northern America <sup>6</sup>	Oceania <sup>6</sup>
1	2	3	4	5	6	7	8
<b>1970-71</b>							
Population, all ages, in thousands.....	3,893,220	360,752	2,102,044	701,125	283,408	226,566	19,329
Enrollment, all levels, <sup>7</sup> in thousands.....	617,611	34,226	324,137	135,746	56,323	63,192	4,188
First (primary) level.....	431,934	29,371	243,012	72,671	46,576	37,695	2,609
Second level <sup>8</sup> .....	157,761	4,454	74,239	53,269	8,107	16,357	1,355
Third level <sup>9</sup> .....	28,097	401	6,886	9,806	1,640	9,140	224
Teachers, all levels, <sup>7</sup> in thousands.....	25,937	967	11,476	7,959	2,314	3,037	182
First (primary) level.....	14,601	735	7,420	3,508	1,525	1,317	96
Second level <sup>8</sup> .....	9,211	202	3,490	3,713	629	1,104	72
Third level <sup>9</sup> .....	2,126	29	568	739	160	615	15
Public expenditures on education, in millions of U.S. dollars <sup>10</sup> .....	\$159,900	\$2,406	\$13,933	\$64,098	\$5,649	\$71,830	\$1,984
As a percent of gross national product.....	5.2	4.2	3.1	5.1	3.4	6.7	4.4
<b>1980-81</b>							
Population, all ages, <sup>10</sup> in thousands.....	4,449,533	479,456	2,583,691	750,040	361,373	251,923	22,850
Enrollment, all levels, <sup>7</sup> in thousands.....	843,494	74,299	476,480	139,051	67,295	59,594	4,776
First (primary) level.....	551,072	59,008	330,795	63,676	64,799	29,641	2,723
Second level <sup>8</sup> .....	244,989	13,685	133,776	61,401	17,605	16,865	1,638
Third level <sup>9</sup> .....	47,434	1,376	13,910	13,772	4,691	13,069	416
Teachers, all levels, <sup>7</sup> in thousands.....	37,268	2,149	16,778	9,031	3,739	3,304	269
First (primary) level.....	19,407	1,523	10,741	3,440	2,234	1,343	126
Second level <sup>8</sup> .....	14,412	545	7,007	4,436	1,106	1,204	112
Third level <sup>9</sup> .....	3,450	61	1,028	1,156	396	757	31
Public expenditures on education, in millions of U.S. dollars <sup>10</sup> .....	\$616,655	\$18,277	\$102,951	\$250,294	\$31,397	\$205,431	\$10,205
As a percent of gross national product.....	5.5	5.3	4.5	5.4	3.9	6.9	5.6
<b>1985-86</b>							
Population, all ages, <sup>11</sup> in thousands.....	4,902,000	572,000	2,854,000	774,000	410,000	267,000	25,000
Enrollment, all levels, <sup>7</sup> in thousands.....	921,904	93,083	525,691	138,764	100,256	59,194	4,695
First (primary) level.....	585,404	69,230	348,684	64,141	71,419	29,392	2,539
Second level <sup>12</sup> .....	276,502	21,794	158,696	59,758	22,054	16,157	1,143
Third level <sup>9</sup> .....	57,996	2,059	20,111	14,865	6,784	13,644	113
Teachers, all levels, <sup>7</sup> in thousands.....	42,342	2,925	21,727	9,507	4,598	3,296	269
First (primary) level.....	21,607	1,922	11,939	3,656	2,620	1,353	116
Second level <sup>12</sup> .....	18,614	884	6,366	4,611	1,432	1,184	138
Third level <sup>9</sup> .....	4,121	120	1,422	1,240	546	758	35
Public expenditures on education, in millions of U.S. dollars <sup>13</sup> .....	\$786,414	\$16,748	\$154,627	\$261,401	\$24,701	\$295,717	\$11,220
As a percent of gross national product.....	5.5	5.9	4.6	5.4	3.5	6.5	5.6

<sup>1</sup> Enrollment and teach. data exclude the Democratic People's Republic of Korea and South Africa. Expenditure data exclude Democratic Kampuchea, Democratic People's Republic of Korea, Lao People's Democratic Republic, Lebanon, Mongolia, Mozambique, South Africa, and Vietnam.

<sup>2</sup> Excludes South Africa.

<sup>3</sup> Excludes the U.S.S.R., but includes both the Asian and the European portions of Turkey.

<sup>4</sup> Includes the U.S.S.R.

<sup>5</sup> Northern America includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States of America. Hawaii is included in North America, not Oceania.

<sup>6</sup> Central and South America includes the rest of America.

<sup>7</sup> Includes American Samoa, Australia, Guam, and New Zealand.

<sup>8</sup> Excludes preprimary, special, and adult education.

<sup>9</sup> General, teacher training, and other second-level education of a vocational and technical nature.

<sup>10</sup> Universities and other institutions of higher education.

<sup>11</sup> Excludes data for Democratic Kampuchea, Democratic People's Republic of Korea, Lao People's Democratic Republic, Lebanon, Mongolia, Mozambique, South Africa, and Vietnam.

<sup>12</sup> Data are estimated for 1986.

<sup>13</sup> Includes general, teacher training, and vocational education.

<sup>14</sup> Excludes Albania, Democratic Kampuchea, Democratic People's Republic of Korea, Lao People's Democratic Republic, Lebanon, Mongolia, Mozambique, South Africa, and Vietnam.

NOTE.—Data have been revised to be consistent with previously published figures. Because of rounding, details may not add to totals.

SOURCE: United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook*, various years. (This table was prepared February 1989.)

**Table 339.—Pupils per teacher in public and private elementary and secondary schools: Selected countries, 1960 to 1986**

Country	All schools				Elementary schools				Secondary schools			
	1960	1970	1980	1986	1960	1970	1980	1986	1960	1970	1980	1986
1	2	3	4	5	6	7	8	9	10	11	12	13
Australia.....	26.6	24.7	15.8	<sup>1</sup> 13.1	33.2	28.0	18.5	<sup>1</sup> 14.3	18.1	20.8	12.8	<sup>1</sup> 2.0
Canada.....	25.6	20.9	<sup>2</sup> 17.8	<sup>3</sup> 18.4	26.3	23.4	<sup>2</sup> 18.5	<sup>3</sup> 19.0	23.8	16.9	<sup>2</sup> 17.2	<sup>3</sup> 17.8
Chile.....	—	—	<sup>2</sup> 29.6	—	—	—	<sup>2</sup> 33.7	—	13.5	—	<sup>2</sup> 19.7	—
France.....	31.4	20.0	20.7	<sup>4</sup> 19.5	34.1	26.0	22.1	<sup>4</sup> 24.2	26.0	15.8	19.6	<sup>4</sup> 16.1
Germany, Federal Republic of.....	26.7	19.4	16.3	<sup>5</sup> 13.7	29.5	25.5	18.4	<sup>5</sup> 17.7	23.0	12.3	14.4	<sup>5</sup> 13.6
Hungary.....	23.6	18.5	—	<sup>6</sup> 14.3	24.3	17.7	15.4	14.5	20.5	20.7	—	<sup>6</sup> 12.7
Italy.....	17.2	15.6	12.3	<sup>4</sup> 11.2	22.4	21.6	16.3	<sup>4</sup> 14.1	11.7	11.5	10.2	<sup>4</sup> 10.0
Japan.....	29.7	21.8	20.8	20.1	34.8	26.2	24.9	23.3	24.7	18.4	17.2	17.8
Mexico.....	35.9	34.8	30.2	25.7	44.0	45.9	39.1	32.8	13.1	14.5	17.7	17.2
Netherlands.....	29.1	23.1	19.1	<sup>1</sup> 14.8	34.0	29.7	23.2	<sup>1</sup> 16.7	20.5	15.0	15.0	<sup>1</sup> 15.3
Nigeria.....	31.7	32.3	—	<sup>3</sup> 39.2	30.2	32.3	—	<sup>3</sup> 40.0	19.1	21.2	—	<sup>3</sup> 36.2
Norway.....	16.5	13.5	—	—	23.2	19.6	<sup>1</sup> 8.2	6.9	10.2	9.6	—	—
Sweden.....	—	13.6	—	<sup>3</sup> 13.6	—	20.0	<sup>2</sup> 16.4	<sup>3</sup> 16.0	—	10.1	—	<sup>3</sup> 11.8
Thailand.....	34.2	30.5	31.1	19.4	36.2	34.7	24.7	20.1	19.8	15.5	23.0	<sup>6</sup> 17.0
United Kingdom.....	21.1	19.6	16.9	<sup>5</sup> 16.2	24.1	23.3	18.9	<sup>5</sup> 17.6	18.0	15.9	15.3	<sup>5</sup> 15.3
United States.....	26.4	22.4	18.8	<sup>5</sup> 16.9	29.4	24.6	20.3	<sup>5</sup> 19.6	21.4	19.6	16.9	<sup>5</sup> 15.5
U.S.S.R.....	16.0	—	—	—	16.0	10.9	9.4	<sup>7</sup> 9.0	16.3	—	—	—
Yugoslavia.....	27.8	24.3	20.2	19.3	32.8	27.1	24.1	23.2	13.2	22.4	18.5	17.6

<sup>1</sup> Data for 1965.<sup>2</sup> Data for 1979.<sup>3</sup> Data for 1983.<sup>4</sup> Data for 1984.<sup>5</sup> Estimated 1985 data.<sup>6</sup> Data are for secondary general education only.<sup>7</sup> Estimated data.

—Data not available.

NOTE—Coverage and grade groupings may vary somewhat from country to country and year to year.

SOURCE United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook*, various years, and U.S. Department of Education, National Center for Education Statistics, Common Core of Data surveys and surveys of private schools (This table was prepared June 1989).

**Table 340.—Public expenditures for education as a percentage of government expenditures for all purposes: Selected countries, 1960 to 1986**

Country	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
1	2	3	4	5	6	7	8	9	10	11	12
Australia.....	—	13.3	14.8	15.0	14.8	14.5	14.0	13.6	13.2	12.8	—
Canada.....	<sup>1</sup> 14.3	24.1	17.8	18.3	17.3	17.0	—	—	15.2	12.7	15.5
Chile.....	12.6	22.0	12.0	—	11.9	—	—	—	—	15.3	—
France.....	—	—	—	<sup>2</sup> 17.8	—	—	—	18.5	—	—	—
Germany, Federal Republic of.....	—	9.2	10.7	10.0	10.1	—	—	9.5	9.2	9.2	—
Hungary.....	8.4	6.9	4.2	4.2	5.2	5.5	5.8	6.6	6.4	6.4	6.4
Italy.....	—	11.9	9.4	11.1	—	—	—	9.6	<sup>3</sup> 9.8	<sup>2</sup> 9.1	<sup>2</sup> 8.6
Japan.....	—	20.4	22.4	20.1	19.6	19.4	19.1	18.7	18.1	17.9	—
Mexico.....	—	8.5	11.9	—	<sup>3</sup> 16.7	<sup>3</sup> 17.2	<sup>3</sup> 17.2	—	—	<sup>3</sup> 16.2	—
Netherlands.....	—	—	23.7	24.1	23.1	19.6	18.8	18.1	16.8	—	—
Nigeria.....	—	—	<sup>4</sup> 16.5	16.2	—	24.7	<sup>3</sup> 9.6	<sup>3</sup> 9.3	<sup>3</sup> 11.6	<sup>3</sup> 8.7	<sup>3</sup> 12.0
Norway.....	—	15.5	14.7	—	13.8	13.5	13.5	12.9	12.8	13.6	13.6
Sweden.....	—	—	13.4	13.7	14.1	13.9	13.0	12.5	12.2	12.6	12.6
Thailand.....	—	17.3	21.0	18.8	20.6	20.0	20.1	21.1	—	—	—
United Kingdom.....	—	14.1	14.3	13.6	13.9	12.2	11.9	11.5	11.3	—	—
United States.....	15.1	20.3	18.1	20.5	19.9	19.1	18.1	17.7	17.7	17.5	17.5
U.S.S.R.....	11.7	12.8	12.9	11.6	11.2	10.9	10.3	10.2	10.2	—	—
Yugoslavia.....	—	23.3	24.4	—	32.5	—	—	—	—	—	—

<sup>1</sup> Data for 1961.<sup>2</sup> Percentage based on central government expenditures only.<sup>3</sup> Expenditures by the Ministry of Education only.<sup>4</sup> Data for 1976.

—Data not available.

SOURCE United Nations Educational, Scientific, and Cultural Organization, Paris, *Statistical Yearbook*, and U.S. Department of Commerce, Bureau of the Census, *Governmental Finances*, various years (This table was prepared May 1989).

Table 341.—Selected statistics for countries<sup>1</sup> with populations over 10 million, by continent: 1970 to 1986

Country	Population, in millions			Persons per square kilometer in 1986	First level <sup>2</sup>					Second level <sup>3</sup>					Third level <sup>4</sup>					Percent illiteracy, 1961
	1970	1980	1986		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		
					1970	1980	1986	1970	1986	1970	1980	1986	1970	1986	1970	1980	1986	1970	1986	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>World total<sup>6</sup></b>	<b>3,855</b>	<b>4,427</b>	<b>4,902</b>	<b>36</b>	<b>431,834</b>	<b>551,072</b>	<b>585,404</b>	<b>7.84</b>	<b>7.100</b>	<b>157,781</b>	<b>244,989</b>	<b>278,502</b>	<b>7.35</b>	<b>7.47</b>	<b>28,097</b>	<b>47,434</b>	<b>57,996</b>	<b>7.9</b>	<b>7.13</b>	<b>—</b>
<b>Africa</b>																				
Algeria	13.8	18.7	22.4	9	1,887	3,123	3,635	76	95	242	1,032	1,999	11	54	20	79	155	1.9	7.4	55.3
Cameroon	6.8	8.5	10.5	22	923	1,379	1,634	91	107	78	234	328	8	23	3	13	18	0.5	2.2	58.8
Cote D'Ivoire	5.6	8.2	10.2	32	503	1,025	1,179	63	78	70	222	267	9	20	4	20	20	0.9	2.5	—
Egypt	33.1	42.1	49.6	50	3,795	4,663	6,214	72	87	1,448	2,929	3,527	35	66	233	716	900	8.8	12.2	61.8
Ethiopia	30.6	38.5	44.9	37	655	2,131	2,449	16	36	135	428	656	4	12	5	14	27	0.2	3.0	37.8
Ghana	8.6	11.5	14.0	59	1,420	1,338	1,411	64	63	99	668	750	14	35	5	16	27	0.8	1.5	69.8
Kenya	11.3	16.7	21.2	56	1,428	3,927	4,702	58	94	136	428	458	9	20	8	13	22	0.8	1.3	—
Madagascar	8.7	8.7	10.3	18	938	1,724	1,625	58	121	113	—	530	9	36	6	23	38	0.8	4.6	—
Morocco	15.3	20.1	22.5	50	1,175	2,172	2,228	52	79	299	797	1,281	13	34	16	112	160	1.5	8.8	78.6
Mozambique	8.2	12.1	14.2	18	497	1,387	1,280	47	82	43	109	155	5	7	2	1	1	0.3	0.1	72.8
Nigeria	57.2	80.6	98.5	107	3,516	13,760	14,383	37	92	357	2,346	3,561	4	29	16	150	208	0.5	2.9	—
South Africa	22.5	28.6	33.2	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sudan <sup>2a</sup>	13.9	18.7	22.2	9	828	1,464	1,738	38	50	133	384	557	7	20	14	29	37	1.2	2.0	68.6
Uganda	9.8	13.1	16.0	68	720	1,292	1,617	38	58	48	95	145	4	8	4	6	10	0.5	10.8	—
United Republic of Tanzania	13.3	18.6	22.5	24	856	3,366	3,159	34	69	45	80	104	3	3	2	4	5	0.2	0.3	53.7
Zaire	21.6	26.4	30.9	13	3,088	4,196	4,855	88	98	248	1,207	2,152	9	57	12	28	40	0.7	1.6	—
<b>Asia</b>																				
Afghanistan	13.8	16.0	18.6	29	541	1,116	611	28	18	116	137	89	7	8	8	23	22	0.7	1.4	81.9
Bangladesh	88.1	88.7	100.6	699	5,284	8,240	9,116	54	60	—	2,659	3,125	—	18	118	240	462	2.3	4.9	70.8
Burma	27.0	33.8	39.4	56	3,178	4,148	4,696	83	102	791	1,066	1,234	21	24	48	165	—	2.2	5.1	29.0
China	830.7	996.1	1,072.2	112	105,280	148,270	131,825	89	129	26,483	56,778	53,217	24	42	33	48	1,161	33	1,977	34.5
India	539.1	675.0	768.1	233	57,045	73,873	83,933	72	92	20,114	30,531	39,973	26	35	2,904	5,346	—	6.2	17.8	59.2
Indonesia	117.9	146.4	167.0	88	14,870	25,537	29,883	80	118	2,460	5,722	9,680	16	41	248	586	10,980	2.6	16.5	32.7
Iran, Islamic Republic of <sup>2a</sup>	28.7	39.3	49.8	30	3,416	4,799	7,233	72	117	1,057	2,635	3,577	27	47	75	136	219	3.1	5.1	63.5
Iraq	9.4	13.2	16.5	38	1,099	2,618	2,921	69	99	314	1,033	1,179	24	52	42	107	127	5.2	10.0	10.7
Japan	103.4	116.8	121.5	322	9,558	11,826	10,665	99	102	8,667	9,558	11,250	86	96	1,819	2,412	2,409	17.0	28.8	—
Korea, North (DPR)	13.9	18.0	20.9	173	—	2,562	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South (Republic of)	32.2	38.1	41.8	422	5,749	5,858	4,798	103	94	1,907	4,288	4,864	42	95	201	648	1,515	7.9	32.9	12.4
Malaysia	10.4	13.7	16.1	49	1,884	2,009	2,233	87	101	609	1,084	1,350	34	54	—	58	93	1.6	8.0	30.4
Nepal <sup>2a</sup>	11.5	14.0	17.1	122	390	1,068	1,819	28	79	116	512	501	10	25	32	24	38	—	4.6	79.4
Pakistan	60.8	82.6	99.2	125	3,993	5,474	7,368	40	44	1,463	2,166	3,068	13	18	115	157	99	2.3	5.1	73.8
Philippines	36.9	48.3	58.0	187	8,969	8,034	9,204	108	106	1,719	2,929	3,421	46	88	852	1,276	1,973	19.8	38.0	18.7
Saudi Arabia	5.8	9.4	12.0	6	423	927	1,460	45	71	89	349	654	12	44	8	82	131	1.7	13.4	48.9
Sri Lanka	12.5	14.8	16.1	246	1,871	2,081	2,304	99	103	941	1,258	1,526	47	66	12	43	59	1.2	3.9	13.2
Syrian Arab Republic	6.3	8.7	10.6	57	925	1,556	2,159	78	111	328	604	912	8	60	43	135	175	9.2	17.4	60.0
Thailand	36.4	48.7	52.7	102	5,635	7,393	7,160	83	99	695	1,920	2,185	17	29	55	361	1,027	1.7	19.8	12.0
Turkey	35.3	44.4	50.3	64	5,012	—	6,704	110	117	1,309	2,218	3,088	27	44	170	246	505	6.0	10.2	34.4
Vietnam	42.7	54.2	60.9	185	—	—	8,126	—	100	—	3,847	4,023	—	43	80	115	—	—	2.2	18.0
<b>Europe</b>																				
Czechoslovakia	14.3	15.3	15.5	121	1,966	1,904	89	98	97	321	389	343	31	37	131	197	170	10.4	15.7	—
France	50.8	53.9	55.4	101	4,940	4,810	4,118	117	112	4,281	5,014	5,491	74	95	801	1,077	1,290	19.5	30.2	—
Germany, East (Dem. Republic)	17.1	18.7	16.8	154	2,534	832	909	93	103	486	1,896	1,481	92	78	303	401	437	32.8	31.1	—
Germany, West (Fed. Republic)	60.7	81.8	81.1	248	6,345	5,044	4,272	—	97	2,705	4,301	5,210	—	72	504	1,223	1,550	13.4	29.8	—
Greece	8.8	9.6	10.0	78	907	901	890	107	106	520	40	803	63	88	86	121	188	13.5	23.5	9.5
Hungary	10.3	10.7	10.8	114	1,118	1,162	1,299	97	98	485	357	422	63	70	81	101	99	10.1	15.4	11.1
Italy	53.8	56.4	57.2	190	4,857	4,423	3,531	110	97	3,824	5,308	5,373	61	76	687	1,118	1,141	16.7	24.7	30.0
Netherlands	13.0	14.1	14.8	356	1,482	1,333	1,469	102	104	1,008	1,391	1,439	75	104	231	360	405	19.0	32.0	—
Poland	32.5	35.8	37.5	120	5,257	4,187	4,920	101	101	1,734	1,674	1,634	82	80	398	589	450	14.0	16.9	11.2
Portugal	8.9	9.8	10.3	112	992	1,240	1,117	98	117	448	398	552	57	54	50	92	113	8.0	12.6	20.8
Romania	20.3	22.2	23.2	98	2,879	3,237	3,01	112	97	680	871	1,477	44	79	152	193	160	10.1	11.2	—
Spain	33.8	37.5	38.7	77	3,930	3,610	3,375	123	101	1,950	3,977	4,510	56	101	225	698	935	8.9	31.8	7.1
United Kingdom	55.6	56.4	56.8	233	5,806	4,911	4,296	104	106	4,149	5,342	4,887	73	85	601	827	1,007	14.1	22.4	—
Yugoslavia	20.4	22.3	23.3	91	1,579	1,432	1,442	106	95	1,982	2,426	2,353	63	82	261	412	251	15.9	19.2	10.4

Table 341.—Selected statistics for countries<sup>1</sup> with populations over 10 million, by continent: 1970 to 1986—Continued

Country	Population, in millions			Persons per square kilometer in 1986	First level <sup>2</sup>					Second level <sup>3</sup>					Third level <sup>4</sup>					Percent illiteracy, 1981
	1970	1980	1986		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		Enrollment, in thousands			Enrollment ratio <sup>5</sup>		
					1970	1980	1986	1970	1986	1970	1980	1986	1970	1986	1970	1980	1986	1970	1986	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>North America</b>																				
Canada	21.3	24.0	25.8	3	3,736	2,185	2,270	101	105	<sup>16</sup> 1,637	2,323	2,238	<sup>44</sup> 65	103	642	688	1,245	34.6	54.6	—
Cuba <sup>20</sup>	8.8	9.7	10.3	92	1,530	1,469	1,001	121	105	235	1,146	1,154	22	86	26	152	257	3.7	22.5	2.2
Mexico	51.2	69.4	79.6	40	9,248	14,666	14,995	104	114	1,584	742	6,703	22	55	248	930	1,222	5.9	15.7	<sup>19</sup> 9.7
United States <sup>20</sup>	205.1	227.7	241.6	26	36,829	31,666	<sup>43</sup> 27,117	99	<sup>43</sup> 102	14,643	14,556	13,913	94	<sup>43</sup> 100	8,581	12,097	<sup>43</sup> 12,398	49.4	<sup>43</sup> 59.3	<sup>32</sup> 0.5
<b>South America</b>																				
Argentina	24.0	28.2	31.0	11	3,386	3,917	4,478	105	109	977	<sup>20</sup> 1,386	1,930	44	74	275	491	903	14.0	38.7	<sup>28</sup> 6.1
Brazil	92.5	121.3	138.5	16	17,066	22,598	26,226	<sup>22</sup> 82	105	4,086	2,819	<sup>10</sup> 3,016	<sup>22</sup> 17	<sup>10</sup> 36	430	1,409	<sup>17</sup> 1,479	5.1	<sup>17</sup> 11.3	<sup>10</sup> 22.2
Chile	9.5	11.1	12.3	16	2,040	2,185	2,048	107	110	302	558	680	39	78	145	197	94	<sup>10</sup> 15.9	<sup>18</sup> 5.6	
Colombia	20.5	25.9	29.2	26	3,267	4,168	4,003	108	114	750	1,733	2,136	25	56	86	272	418	4.8	13.1	14.8
Peru	13.2	17.3	20.2	16	2,341	3,181	<sup>10</sup> 3,712	107	<sup>10</sup> 122	546	1,203	<sup>18</sup> 1,427	31	<sup>10</sup> 65	126	306	473	11.4	24.6	18.1
Venezuela	10.6	15.0	17.8	20	1,770	2,530	2,880	94	110	425	850	1,058	33	46	101	307	<sup>10</sup> 44.3	10.9	<sup>10</sup> 26.4	15.3
<b>Oceania</b>																				
Australia	12.5	14.7	16.0	2	1,812	1,688	1,509	115	106	1,137	1,096	1,283	82	96	180	324	390	16.6	28.9	—
<b>U.S.S.R.</b>																				
U.S.S.R. <sup>47</sup>	242.8	265.5	280.1	13	25,798	21,714	23,930	104	106	20,764	20,275	20,689	85	99	4,581	<sup>40</sup> 5,235	<sup>40</sup> 5,088	25.4	21.6	<sup>32</sup> 0.2
Byelorussian S.S.R.	9.0	9.6	10.0	48	949	750	837	104	—	818	760	720	85	—	140	<sup>40</sup> 177	<sup>40</sup> 180	—	—	<sup>32</sup> 0.1
Ukrainian S.S.R.	47.3	50.0	51.1	85	6,668	3,595	3,897	104	—	1,628	3,406	3,427	85	—	807	<sup>40</sup> 880	<sup>40</sup> 851	—	—	<sup>32</sup> 0.1

<sup>1</sup> Selection based on total population for midyear 1986

<sup>2</sup> First-level enrollment generally consists of elementary grades

<sup>3</sup> Second-level enrollment includes general education, teacher training (at the second level), and technical and vocational education. This level generally corresponds to secondary education in the United States

<sup>4</sup> Third-level enrollment includes college and university enrollment, and technical and vocational education beyond the high school level. There is considerable variation in reporting from country to country

<sup>5</sup> Data are the total enrollment of all ages in the school level divided by the population of the specific age groups which correspond to the school level. Adjustments have been made for the varying lengths of first- and second-level programs. All third-level ratios are based on the 20- to 24-year-old population. Because some countries have many students from outside the normal age range, first-level ratios may exceed 100

<sup>6</sup> Enrollment totals and enrollment ratios exclude North Korea. Enrollment ratios exclude China

<sup>7</sup> Data are for gross enrollment

<sup>8</sup> Provisional or estimated data

<sup>9</sup> Data for 1982

<sup>10</sup> Data for 1984

<sup>11</sup> Data exclude 'ENAM'

<sup>12</sup> De jure population for 1976

<sup>13</sup> Data for 1985

<sup>14</sup> Data for 1976

<sup>15</sup> Includes students in general programs only

<sup>16</sup> Data for 1985 students in general programs only

<sup>17</sup> Data for 1983

<sup>18</sup> Includes public schools only

<sup>19</sup> Data for 1985 public schools only

<sup>20</sup> Data for 1981

<sup>21</sup> Data for 1970

<sup>22</sup> Data for 1971

<sup>23</sup> Includes programs below the first level

<sup>24</sup> Structural changes at the second level in 1984 restricts comparisons with earlier years

<sup>25</sup> Data for 1980

<sup>26</sup> Classification of first and second levels have been revised. Data by level may not be comparable over time

<sup>27</sup> Data for 1973

<sup>28</sup> Includes government maintained and aided schools only

<sup>29</sup> Includes 1981 data for universities only

<sup>30</sup> Data refer to full-time students and exclude post-graduate

<sup>31</sup> Data for 1978

<sup>32</sup> Data for 1979

<sup>33</sup> Includes full-time students only

<sup>34</sup> Data for 1984 students in general programs only

<sup>35</sup> Data for 1979, including intermediate and pre-university courses

<sup>36</sup> Includes universities only

<sup>37</sup> Includes UNRWA schools with 16,359 pupils in general education

<sup>38</sup> Data for 1975

<sup>39</sup> The total number of students (all institutions) is overestimated due to inclusion of enrollment of non-university institutions

<sup>40</sup> Includes evening and correspondence courses

<sup>41</sup> Data for 1985. Due to a new method of aggregation, data are not comparable with earlier years

<sup>42</sup> Data for 1985, including evening and correspondence courses

<sup>43</sup> Provisional or estimated 1985 data

<sup>44</sup> Data include students at the Open University

<sup>45</sup> Data are for 14- to 19-year-olds in 1970 and 13- to 17-year-olds in 1982

<sup>46</sup> Enrollment data and ratios based on data reported by the National Center for Education Statistics and the U.S. Department of Commerce, Bureau of the Census

<sup>47</sup> Byelorussian and Ukrainian included in U.S.S.R.

—Data not available

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), *Statistical Yearbook*, various years; U.S. Department of Commerce, Bureau of the Census, *Current Population Reports*, Series P-20, and U.S. Department of Education, National Center for Education Statistics, *Common Core of Data and "Fall Enrollment in Institutions of Higher Education"* surveys, and Integrated Postsecondary Education Data System (IPEDS), "Fall Enrollment" survey. (This table was prepared June 1989)

**Table 342.—Public expenditures for education as a percentage of gross national product: Selected countries, 1960 to 1986**

Country	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
1	2	3	4	5	6	7	8	9	10	11	12
Australia.....	2.9	4.2	16.0	5.9	15.6	5.9	15.9	5.8	5.7	5.6	—
Canada.....	24.6	8.9	17.6	7.7	17.4	7.8	8.3	7.7	7.2	7.0	7.4
Chile.....	32.7	5.1	4.1	3.8	4.6	5.4	15.7	5.0	14.8	4.5	—
France.....	42.4	4.9	5.2	—	5.1	5.6	5.8	6.0	16.1	—	—
Germany, Federal Republic of.....	—	13.5	5.1	4.6	4.7	4.7	4.6	14.8	4.6	4.6	—
Hungary <sup>5</sup> .....	4.4	4.4	4.1	4.1	4.7	5.1	5.0	5.8	5.4	5.4	5.7
Italy.....	63.6	4.0	13.9	14.4	—	—	—	14.8	34.0	34.0	34.0
Japan.....	4.1	3.9	5.5	5.8	15.8	5.9	15.6	5.6	5.2	5.1	—
Mexico.....	231.3	2.4	3.8	4.0	33.0	34.4	34.3	32.8	32.6	32.6	32.1
Netherlands.....	74.9	7.3	8.2	8.1	7.9	17.8	17.6	7.4	6.9	—	—
Nigeria.....	402.2	—	4.3	3.9	—	6.5	32.1	31.9	31.4	31.2	31.8
Norway.....	4.2	6.0	7.1	—	7.2	6.9	7.0	7.0	6.7	6.5	6.9
Sweden.....	44.6	7.7	7.1	9.1	9.1	9.2	9.0	8.4	8.0	7.7	7.6
Thailand.....	692.5	3.5	3.6	3.2	3.3	3.7	3.9	3.9	—	3.9	—
United Kingdom.....	24.3	5.3	6.7	5.4	15.6	5.5	5.4	5.3	5.2	—	—
United States.....	4.0	5.9	6.6	5.7	5.8	5.4	5.6	5.6	5.5	5.5	5.6
U.S.S.R. <sup>6</sup> .....	5.9	6.8	7.6	7.3	17.3	6.9	6.7	16.8	6.8	7.0	7.0
Yugoslavia.....	102.5	4.9	5.4	5.4	14.7	4.5	4.4	13.7	3.5	3.4	3.8

<sup>1</sup> Data revised from previously published figure

<sup>2</sup> Data for 1961.

<sup>3</sup> Expenditures by the Ministry of Education only

<sup>4</sup> As percentage of gross domestic product at market prices

<sup>5</sup> Data are as a percentage of net material product

<sup>6</sup> Data for 1959

<sup>7</sup> Includes private expenditures relating to private education

<sup>8</sup> Data for 1976

<sup>9</sup> Central or federal government only, not including foreign aid

<sup>10</sup> As a percentage of gross material product.

—Data not available

SOURCE: United Nations Educational, Scientific, and Cultural Organization, *Paris, Statistical Yearbook*; and U.S. Department of Commerce, Bureau of the Census, *Governmental Finances*, various years (This table was prepared May 1987)

**Table 343.—International Assessment of Educational Progress in mathematics for age 13, by content area: 1988**

Country or province	Mathematics proficiency score			Percent correct on mathematics test, by content area					
	Mean <sup>1</sup>	Percent with score of 400 or more <sup>2</sup>	Percent with score of 500 or more <sup>3</sup>	Numbers and operations	Relations and functions	Geometry	Measurement	Data organization	Logic and problem solving
1	2	3	4	5	6	7	8	9	10
British Columbia.....	539.8	94.9	69.5	76.6	70.5	59.4	63.4	64.7	77.3
Ireland.....	504.3	86.3	54.7	67.9	69.0	56.1	55.3	48.1	72.3
Korea.....	567.8	95.3	78.1	79.2	80.0	72.0	71.2	74.7	73.9
New Brunswick (English)	529.0	95.5	65.4	73.2	71.1	58.0	64.9	60.3	73.8
New Brunswick (French)	514.2	94.6	58.3	72.9	69.2	52.6	59.3	52.4	68.5
Ontario (English)	516.1	91.8	58.3	70.1	67.7	56.1	58.4	59.7	73.5
Ontario (French)	481.5	84.8	40.5	62.7	68.2	47.4	52.1	50.2	59.7
Quebec (English)	535.8	96.7	67.3	75.9	72.3	59.4	62.8	62.3	74.1
Quebec (French)	543.0	97.2	72.7	77.9	75.6	60.9	65.1	62.1	73.9
Spain.....	511.7	90.7	57.0	68.6	70.6	62.7	59.4	56.5	72.3
United Kingdom.....	509.9	86.7	55.5	61.5	73.8	63.0	58.0	62.3	78.1
United States.....	473.9	77.7	40.3	61.4	59.9	49.1	43.9	54.7	63.0

<sup>1</sup> The scale for the scores ranges from 0 to 1,000, with a mean of 500 and a standard deviation of 100

<sup>2</sup> Students at this level have the ability to select appropriate basic operations (addition, subtraction, multiplication, and division) to solve simple one-step problems. They can locate numbers on a number line and understand the most basic concepts of logic, percent, estimation, and geometry

<sup>3</sup> Students at this level demonstrate an understanding of the concept of order and place value, the meaning of remainder in division, the properties of odd and even num-

bers and zero, elementary concepts of ratio and proportion, use of negative and decimal numbers, simple conversions involving fractions, decimals, and percents, and computation of averages. Students can use skills to solve problems requiring two or more steps

SOURCE: U.S. Department of Education, National Center for Education Statistics, International Assessment of Educational Progress, *A World of Differences*, by Educational Testing Service

**Table 344.—Average percent of items answered correctly on an international mathematics test of 8th grade students: Selected countries, 1981-82**

Country or province	Mean percent correct, all items <sup>1</sup>	Arithmetic	Algebra	Geometry	Measurement	Statistics
1	2	3	4	5	6	7
<b>Average</b> .....	<b>47.4</b>	<b>50.5</b>	<b>43.1</b>	<b>41.4</b>	<b>50.8</b>	<b>54.7</b>
Belgium						
Flemish.....	53.2	58.0	52.9	42.5	58.2	58.2
French.....	47.4	57.0	49.1	42.8	56.8	52.0
Canada						
British Columbia.....	51.6	58.0	47.9	42.3	51.9	61.3
Ontario.....	49.0	54.5	42.0	43.2	50.8	57.0
England and Wales.....	47.2	48.2	40.1	44.8	48.6	60.2
Finland.....	46.8	45.5	43.6	43.2	51.3	57.6
France.....	52.5	57.7	55.0	38.0	59.5	57.4
Hong Kong <sup>2</sup> .....	49.4	55.1	43.2	42.5	52.6	55.9
Hungary.....	56.0	56.8	50.4	53.4	62.1	60.4
Israel.....	45.0	49.9	44.0	35.9	48.4	51.9
Japan <sup>2</sup> .....	62.1	60.3	60.3	57.6	68.6	70.9
Luxembourg.....	37.5	45.4	31.2	25.3	50.1	37.3
Netherlands.....	57.1	59.3	51.3	52.0	61.9	65.9
New Zealand.....	45.5	45.6	39.4	44.8	45.1	57.3
Nigeria.....	33.6	40.8	32.4	26.2	30.7	37.0
Scotland.....	48.4	50.2	42.9	45.5	48.4	50.3
Swaziland.....	31.5	32.3	25.1	31.1	35.2	36.0
Sweden.....	41.8	40.6	32.3	39.4	48.7	56.3
Thailand.....	42.2	43.1	37.7	39.3	48.3	45.3
United States.....	45.3	51.4	42.1	37.8	40.8	57.7

<sup>1</sup> Weighted average determined by the number of items in each test component.<sup>2</sup> Students in Japan and Hong Kong were attending the seventh grade.

Livingston This table was based on the "Second International Mathematics Study" conducted by the International Association for the Evaluation of Educational Achievement. (This table was prepared October 1986.)

SOURCE U.S. Department of Education, National Center for Education Statistics, contractor report, *Descriptions of the Intended and Implemented Curricula*, by Ian**Table 345.—International mathematics test scores and percent of age group taking tests in the 12th grade: Selected countries, 1981-82**

Country or province	Average age of students	Percent of age group taking test	Percent of analysis items students had been taught	Achievement scores for top 5 percent of students			
				Average score <sup>2</sup>	Algebra	Geometry	Analysis (calculus)
1	2	3	4	5	6	7	8
<b>Average</b> .....	<b>17</b>	<b>18</b>	<b>78</b>	<b>57.1</b>	<b>57.8</b>	<b>57.2</b>	<b>56.4</b>
Belgium							
Flemish.....	17	10	88	56.3	57.5	55.9	55.5
French.....	17	10	—	54.2	55.3	53.6	53.7
Canada							
British Columbia.....	17	30	32	57.3	60.9	59.2	51.8
Ontario.....	18	19	83	59.4	59.6	59.3	59.4
England and Wales.....	17	6	85	55.5	54.9	55.5	56.1
Finland.....	18	15	87	60.5	60.7	59.8	61.0
Hungary.....	17	50	67	59.9	60.9	61.1	57.7
Israel.....	17	6	78	50.0	51.5	47.7	50.9
Japan.....	17	12	92	65.0	63.7	64.9	66.5
New Zealand.....	17	11	93	57.2	56.8	57.0	57.7
Scotland.....	16	18	—	55.7	56.2	58.0	52.9
Sweden.....	18	12	86	58.9	58.5	59.0	59.2
Thailand.....	—	—	63	—	—	—	—
United States.....	17	13	54	52.2	52.8	53.0	50.9

<sup>1</sup> For all countries, this table includes students attending precollege mathematics classes at the highest level of secondary school. In some countries, the students had been in school longer than 12 years.<sup>2</sup> Average of scores on algebra, geometry, and analysis tests with 98 items. This score is based on a standardized distribution of data from all 15 participating countries, then adjusted to a mean of 50 and a standard deviation of 10.

—Data not available.

SOURCE U.S. Department of Education, National Center for Education Statistics, unpublished contractor report based on the "Second International Mathematics Study" conducted by the International Association for the Evaluation of Educational Achievement. (This table was prepared October 1986.)

**Table 345.—International Assessment of Educational Progress in science for age 13, by content area: 1988**

Country or province	Science proficiency score			Percent correct on science test, by content area				
	Mean <sup>1</sup>	Percent with score of 400 or more <sup>2</sup>	Percent with score of 500 or more <sup>3</sup>	Life sciences	Physics	Chemistry	Earth and space sciences	Nature of science
1	2	3	4	5	6	7	8	9
British Columbia.....	551.3	95.2	71.9	72.6	63.7	64.4	73.0	69.8
Ireland.....	469.3	75.6	37.2	60.0	53.0	46.7	61.0	54.5
Korea.....	549.9	93.1	72.7	72.7	67.6	65.9	71.3	65.8
New Brunswick (English).....	510.5	90.4	55.4	66.0	59.3	53.8	66.2	63.0
New Brunswick (French).....	466.1	77.9	35.3	58.5	56.0	48.8	55.2	57.3
Ontario (English).....	514.7	90.8	55.9	67.4	59.8	52.8	66.0	63.9
Ontario (French).....	466.3	78.8	34.8	60.1	55.1	46.9	57.4	56.6
Quebec (English).....	515.3	91.8	57.4	66.9	58.3	51.4	66.3	64.4
Quebec (French).....	513.4	91.5	56.3	70.8	59.6	54.0	60.7	64.0
Spain.....	503.9	88.0	53.5	69.0	60.2	51.6	65.6	59.5
United Kingdom.....	519.5	89.0	59.0	66.4	62.2	52.4	66.8	64.2
United States.....	478.5	78.3	41.8	64.0	52.9	47.7	61.4	56.0

<sup>1</sup> The scale for the scores ranges from 0 to 1,000, with a mean of 500 and a standard deviation of 100.

<sup>2</sup> Students at this level exhibit a growing knowledge in life sciences and can apply some basic principles from the physical sciences, including force. They also display a beginning understanding of some of the basic methods of reasoning used in science, including classification and interpretation of statements.

<sup>3</sup> Students at this level have a grasp of experimental procedures used in science, such as designing experiments, controlling variables, and using equipment. They can identify

the best conclusions drawn from data on a graph and the best explanation for observed phenomena. Students understand some concepts in a variety of science content areas, including the life sciences, physical sciences, and earth and space sciences.

SOURCE: U.S. Department of Education, National Center for Education Statistics, International Assessment of Educational Progress, *A World of Differences*, by Educational Testing Service (This table was prepared January 1989.)

**Table 347.—Science test scores for 10- and 14-year-olds, percent of age groups in school, and mean ages of students tested in selected countries: 1983 to 1986 <sup>1</sup>**

Country	10-year-olds					14-year-olds				
	Grade tested	Average test scores	Percent of age group in school	Mean age, in years and months	Standard deviation of age, in months	Grade tested	Average test scores	Percent of age group in school	Mean age, in years and months	Standard deviation of age, in months
1	2	3	4	5	6	7	8	9	10	11
Australia.....	4, 5, 6	12.9	99	10.6	3.3	8, 9, 10	17.8	98	14.5	3.3
Canada (English).....	5	13.7	99	11.1	7.1	9	18.6	99	15.0	6.1
England.....	5	11.7	99	10.3	3.6	9	16.7	98	14.2	3.6
Finland.....	4	15.3	99	10.10	4.1	8	18.5	99	14.10	4.1
Hong Kong.....	4	11.2	99	10.5	9.8	8	16.4	95	14.7	10.9
Hungary.....	4	14.4	99	10.3	5.2	8	21.7	98	14.3	4.7
Italy.....	5	13.4	99	10.9	5.2	8, 9	16.7	99	14.7	5.4
Japan.....	5	15.4	99	10.7	3.3	9	20.2	99	14.7	3.5
Korea (South).....	5	15.4	99	11.2	7.4	9	18.1	99	15.0	7.2
Netherlands.....	—	—	—	—	—	9	19.8	99	15.6	12.5
Norway.....	4	12.7	99	10.11	4.0	9	17.9	99	15.10	4.0
Philippines.....	5	9.5	97	11.1	11.3	9	11.5	60	16.1	18.9
Poland.....	4	11.9	99	10.11	5.4	8	18.1	91	15.0	5.8
Singapore.....	5	11.2	99	10.10	5.7	9	16.5	91	15.3	9.0
Sweden.....	4	14.7	99	10.10	4.1	8	18.4	99	14.9	3.8
Thailand.....	—	—	—	—	—	9	16.5	37	15.4	8.9
United States.....	5	13.2	99	11.3	6.9	9	16.5	99	15.4	9.1

<sup>1</sup> Tests were conducted between 1983 and 1986

—Data not available

SOURCE: International Association for the Evaluation of Educational Achievement, *Science Achievement in Seventeen Countries, A Preliminary Report*. Copyright © 1988 by Pergamon Press (This table was prepared January 1989.)

**Table 348.—Science test scores for 12th graders enrolled and not enrolled in science classes, by subject: Selected countries, 1983 to 1986<sup>1</sup>**

Country	Grade tested	Average age, years: months	Percent enrolled in school	Biology students		Chemistry students		Physics students		Non-science students <sup>2</sup> As a percent of total enrollment
				Biology test, percent correct	As a percent of total enrollment	Chemistry test, percent correct	As a percent of total enrollment	Physics test, percent correct	As a percent of total enrollment	
1	2	3	4	5	6	7	8	9	10	11
Australia.....	12	17.3	39	48.2	18	46.6	12	48.5	11	10
Canada.....	12, 13	18.3	71	45.9	28	36.9	25	39.6	19	—
England.....	13	18.0	20	63.4	4	69.5	5	58.3	6	10
Finland.....	12	18.7	<sup>3</sup> 45	51.9	45	33.3	14	37.9	14	—
Hong Kong (6) <sup>4</sup> .....	12	18.4	20	50.8	7	64.4	14	59.3	14	—
Hong Kong (7) <sup>5</sup> .....	13	19.2	—	55.8	4	77.0	8	69.9	8	—
Hungary.....	12	18.0	<sup>6</sup> 18	59.7	3	47.7	1	56.5	4	9
Italy.....	12	19.0	52	42.3	14	38.0	2	28.0	19	25
Japan.....	12	18.2	63	46.2	12	51.9	16	56.1	11	35
Norway.....	12	18:11	40	54.8	10	41.9	15	52.8	24	—
Poland.....	12	18.7	28	56.9	9	44.6	9	51.5	9	—
Singapore.....	13	18.1	17	66.8	3	66.1	5	54.9	7	8
Sweden.....	12, 13	19.0	<sup>7</sup> 15	48.5	15	40.0	15	44.8	15	—
United States <sup>8</sup> .....	12	17.7	90	37.9	6	37.7	1	45.5	1	<sup>8</sup> 66

<sup>1</sup> Tests were conducted between 1983 and 1986

<sup>2</sup> Data for students not enrolled in science classes.

<sup>3</sup> A total of 63 percent of age group was in full-time schooling, but the 18 percent in vocational programs were not sampled.

<sup>4</sup> Form 6 represents grade 12

<sup>5</sup> Form 7 represents grade 13.

<sup>6</sup> A total of 40 percent of age group was in full-time schooling, but the 22 percent in vocational programs were not sampled

<sup>7</sup> An additional 15 percent were enrolled in non-science academic programs and were not sampled

<sup>8</sup> United States test scores are included in this table even though they are not directly comparable with scores from other countries. U.S. students were tested for 25 items in

biology and chemistry and 26 items in physics. Other countries were tested with 30 items in each subject

<sup>9</sup> Includes students in first-year physics courses

—Data not available

NOTE—The primary sampling units in Hong Kong were classes rather than schools.

SOURCE International Association for the Evaluation of Educational Achievement, *Science Achievement in Seventeen Countries. A Preliminary Report* Copyright © 1988 by Pergamon Press (This table was prepared January 1989)

**Table 349.—Mean number of areas<sup>1</sup> correctly identified in a test of geography knowledge, by country and age: 1988**

Country	Age				
	18 to 24	25 to 34	35 to 44	45 to 54	55 and over
1	2	3	4	5	6
Canada.....	9.3	9.2	10.5	8.3	8.7
France.....	9.2	9.6	10.1	9.0	8.8
Germany, West.....	11.2	11.2	11.0	11.8	10.9
Italy.....	9.3	9.3	8.4	7.8	5.5
Japan.....	9.5	10.8	10.5	9.7	7.9
Mexico.....	8.2	6.9	7.6	6.4	5.7
Sweden.....	11.9	12.3	12.5	11.5	10.3
United Kingdom.....	9.0	8.4	9.2	8.9	7.8
United States.....	6.9	8.8	9.6	8.8	8.4

<sup>1</sup> Individuals were asked to identify 16 countries or bodies of water on a world map: Canada, Central America, Egypt, France, Italy, Japan, Mexico, Pacific Ocean, Persian Gulf, South Africa, Sweden, United Kingdom, U.S.A., U.S.S.R., West Germany, and Vietnam

SOURCE The Gallup Organization Inc., *Geography: An International Gallup Survey, 1988* (This table was prepared March 1989)



**Table 350.—Foreign students enrolled in institutions of higher education in the United States and outlying areas, by continent, region, and selected countries of origin: 1980-81 to 1987-88**

Continent, region, and country	1980-81		1982-83		1983-84		1984-85		1985-86		1986-87		1987-88	
	Number	Per-cent	Number	Per-cent	Number	Per-cent	Number	Per-cent	Number	Per-cent	Number	Per-cent	Number	Per-cent
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Total</b> .....	<b>311,880</b>	<b>100.0</b>	<b>336,990</b>	<b>100.0</b>	<b>338,890</b>	<b>100.0</b>	<b>342,110</b>	<b>100.0</b>	<b>343,780</b>	<b>100.0</b>	<b>349,610</b>	<b>100.0</b>	<b>356,190</b>	<b>100.0</b>
<b>Africa</b> .....	<b>38,180</b>	<b>12.2</b>	<b>42,690</b>	<b>12.7</b>	<b>41,690</b>	<b>12.3</b>	<b>39,520</b>	<b>11.6</b>	<b>34,190</b>	<b>9.9</b>	<b>31,580</b>	<b>9.0</b>	<b>28,450</b>	<b>8.0</b>
<b>Eastern Africa</b> .....	<b>6,260</b>	<b>2.0</b>	<b>6,770</b>	<b>2.0</b>	<b>7,050</b>	<b>2.1</b>	<b>7,080</b>	<b>2.1</b>	<b>6,730</b>	<b>2.0</b>	<b>6,800</b>	<b>1.9</b>	<b>6,700</b>	<b>1.9</b>
<b>Central Africa</b> .....	<b>1,130</b>	<b>0.4</b>	<b>1,330</b>	<b>0.4</b>	<b>1,330</b>	<b>0.4</b>	<b>1,350</b>	<b>0.4</b>	<b>1,540</b>	<b>0.4</b>	<b>1,770</b>	<b>0.5</b>	<b>1,880</b>	<b>0.5</b>
<b>North Africa</b> .....	<b>7,310</b>	<b>2.3</b>	<b>7,070</b>	<b>2.1</b>	<b>6,840</b>	<b>2.0</b>	<b>6,490</b>	<b>1.9</b>	<b>5,980</b>	<b>1.7</b>	<b>5,470</b>	<b>1.6</b>	<b>5,360</b>	<b>1.5</b>
<b>Southern Africa</b> .....	<b>1,480</b>	<b>0.5</b>	<b>1,970</b>	<b>0.6</b>	<b>2,110</b>	<b>0.6</b>	<b>2,160</b>	<b>0.6</b>	<b>2,360</b>	<b>0.7</b>	<b>2,530</b>	<b>0.7</b>	<b>2,770</b>	<b>0.8</b>
<b>West Africa</b> .....	<b>22,000</b>	<b>7.1</b>	<b>25,550</b>	<b>7.6</b>	<b>24,360</b>	<b>7.2</b>	<b>22,440</b>	<b>6.6</b>	<b>17,580</b>	<b>5.1</b>	<b>15,210</b>	<b>4.4</b>	<b>11,740</b>	<b>3.3</b>
<b>Nigeria</b> .....	<b>17,350</b>	<b>5.6</b>	<b>20,710</b>	<b>6.1</b>	<b>20,080</b>	<b>5.9</b>	<b>18,370</b>	<b>5.4</b>	<b>13,710</b>	<b>4.0</b>	<b>11,700</b>	<b>3.3</b>	<b>8,340</b>	<b>2.3</b>
<b>Europe</b> .....	<b>25,330</b>	<b>8.1</b>	<b>31,570</b>	<b>9.4</b>	<b>31,860</b>	<b>9.4</b>	<b>33,350</b>	<b>9.7</b>	<b>34,310</b>	<b>10.0</b>	<b>36,140</b>	<b>10.3</b>	<b>38,020</b>	<b>10.9</b>
<b>Eastern Europe</b> .....	<b>1,670</b>	<b>0.5</b>	<b>2,000</b>	<b>0.6</b>	<b>1,810</b>	<b>0.5</b>	<b>1,690</b>	<b>0.5</b>	<b>1,770</b>	<b>0.5</b>	<b>1,880</b>	<b>0.5</b>	<b>2,000</b>	<b>0.6</b>
<b>Western Europe</b> .....	<b>23,660</b>	<b>7.6</b>	<b>29,570</b>	<b>8.8</b>	<b>30,050</b>	<b>8.9</b>	<b>31,660</b>	<b>9.3</b>	<b>32,540</b>	<b>9.5</b>	<b>34,260</b>	<b>9.8</b>	<b>36,020</b>	<b>10.3</b>
<b>Germany, Federal</b>														
<b>Republic of</b> .....	<b>3,310</b>	<b>1.1</b>	—	—	<b>3,790</b>	<b>1.1</b>	<b>4,190</b>	<b>1.2</b>	<b>4,730</b>	<b>1.4</b>	<b>5,090</b>	<b>1.5</b>	<b>5,730</b>	<b>1.6</b>
<b>Greece</b> .....	<b>3,750</b>	<b>1.2</b>	—	—	<b>5,030</b>	<b>1.5</b>	<b>4,870</b>	<b>1.4</b>	<b>4,440</b>	<b>1.3</b>	<b>4,240</b>	<b>1.2</b>	<b>4,140</b>	<b>1.2</b>
<b>United Kingdom</b> .....	<b>4,440</b>	<b>1.4</b>	—	—	<b>5,660</b>	<b>1.7</b>	<b>6,030</b>	<b>1.8</b>	<b>5,940</b>	<b>1.7</b>	<b>6,240</b>	<b>1.8</b>	<b>6,600</b>	<b>1.9</b>
<b>Latin America</b> .....	<b>49,810</b>	<b>16.0</b>	<b>56,810</b>	<b>16.9</b>	<b>52,350</b>	<b>15.4</b>	<b>48,560</b>	<b>14.2</b>	<b>45,480</b>	<b>13.2</b>	<b>43,480</b>	<b>12.4</b>	<b>44,550</b>	<b>12.5</b>
<b>Caribbean</b> .....	<b>10,850</b>	<b>3.4</b>	<b>10,710</b>	<b>3.2</b>	<b>11,170</b>	<b>3.3</b>	<b>11,010</b>	<b>3.2</b>	<b>11,100</b>	<b>3.2</b>	<b>11,250</b>	<b>3.2</b>	<b>11,580</b>	<b>3.3</b>
<b>Central America</b> .....	<b>12,970</b>	<b>4.2</b>	<b>14,420</b>	<b>4.3</b>	<b>12,400</b>	<b>3.7</b>	<b>12,550</b>	<b>3.7</b>	<b>12,740</b>	<b>3.7</b>	<b>13,070</b>	<b>3.7</b>	<b>14,550</b>	<b>4.1</b>
<b>Mexico</b> .....	<b>6,730</b>	<b>2.2</b>	—	—	<b>5,600</b>	<b>1.7</b>	<b>5,750</b>	<b>1.7</b>	<b>5,460</b>	<b>1.6</b>	<b>5,330</b>	<b>1.5</b>	<b>6,170</b>	<b>1.7</b>
<b>South America</b> .....	<b>26,190</b>	<b>8.4</b>	<b>31,680</b>	<b>9.4</b>	<b>28,780</b>	<b>8.5</b>	<b>25,000</b>	<b>7.3</b>	<b>21,640</b>	<b>6.3</b>	<b>19,160</b>	<b>5.5</b>	<b>18,420</b>	<b>5.2</b>
<b>Venezuela</b> .....	<b>11,750</b>	<b>3.8</b>	<b>15,490</b>	<b>4.6</b>	<b>13,440</b>	<b>4.0</b>	<b>10,290</b>	<b>3.0</b>	<b>7,040</b>	<b>2.0</b>	<b>4,870</b>	<b>1.4</b>	<b>3,790</b>	<b>1.1</b>
<b>Middle East</b> .....	<b>84,710</b>	<b>27.2</b>	<b>87,280</b>	<b>26.0</b>	<b>60,660</b>	<b>17.9</b>	<b>56,580</b>	<b>16.5</b>	<b>52,720</b>	<b>15.3</b>	<b>47,000</b>	<b>13.4</b>	<b>43,630</b>	<b>12.2</b>
<b>Iran</b> .....	<b>47,550</b>	<b>15.2</b>	<b>26,760</b>	<b>7.9</b>	<b>20,360</b>	<b>6.0</b>	<b>16,640</b>	<b>4.9</b>	<b>14,210</b>	<b>4.1</b>	<b>12,230</b>	<b>3.5</b>	<b>10,420</b>	<b>2.9</b>
<b>Jordan</b> .....	<b>6,140</b>	<b>2.0</b>	<b>6,820</b>	<b>2.0</b>	<b>6,890</b>	<b>2.0</b>	<b>6,750</b>	<b>2.0</b>	<b>6,590</b>	<b>1.9</b>	<b>5,650</b>	<b>1.6</b>	<b>5,140</b>	<b>1.4</b>
<b>Lebanon</b> .....	<b>6,770</b>	<b>2.2</b>	<b>7,110</b>	<b>2.1</b>	<b>6,690</b>	<b>2.0</b>	<b>6,940</b>	<b>2.0</b>	<b>7,090</b>	<b>2.1</b>	<b>6,450</b>	<b>1.8</b>	<b>5,820</b>	<b>1.6</b>
<b>Saudi Arabia</b> .....	<b>10,440</b>	<b>3.3</b>	<b>9,250</b>	<b>2.7</b>	<b>8,630</b>	<b>2.5</b>	<b>7,760</b>	<b>2.3</b>	<b>6,900</b>	<b>2.0</b>	<b>5,840</b>	<b>1.7</b>	<b>5,490</b>	<b>1.5</b>
<b>North America<sup>1</sup></b> .....	<b>14,790</b>	<b>4.7</b>	<b>14,570</b>	<b>4.3</b>	<b>15,670</b>	<b>4.6</b>	<b>15,960</b>	<b>4.7</b>	<b>16,030</b>	<b>4.7</b>	<b>16,300</b>	<b>4.7</b>	<b>16,360</b>	<b>4.6</b>
<b>Canada</b> .....	<b>14,320</b>	<b>4.6</b>	<b>14,020</b>	<b>4.2</b>	<b>15,150</b>	<b>4.5</b>	<b>15,370</b>	<b>4.5</b>	<b>15,410</b>	<b>4.5</b>	<b>15,700</b>	<b>4.5</b>	<b>15,690</b>	<b>4.4</b>
<b>Oceania</b> .....	<b>4,180</b>	<b>1.3</b>	<b>4,040</b>	<b>1.2</b>	<b>4,090</b>	<b>1.2</b>	<b>4,190</b>	<b>1.2</b>	<b>4,030</b>	<b>1.2</b>	<b>4,230</b>	<b>1.2</b>	<b>3,620</b>	<b>1.0</b>
<b>South and East Asia</b> .....	<b>94,640</b>	<b>30.3</b>	<b>119,650</b>	<b>35.5</b>	<b>132,270</b>	<b>39.0</b>	<b>143,680</b>	<b>42.0</b>	<b>156,830</b>	<b>45.6</b>	<b>170,700</b>	<b>48.8</b>	<b>180,540</b>	<b>50.7</b>
<b>East Asia</b> .....	<b>51,650</b>	<b>16.6</b>	<b>60,710</b>	<b>18.0</b>	<b>66,520</b>	<b>19.6</b>	<b>72,630</b>	<b>21.2</b>	<b>80,720</b>	<b>23.5</b>	<b>91,890</b>	<b>26.3</b>	<b>101,210</b>	<b>28.4</b>
<b>China</b> .....	<b>2,770</b>	<b>0.9</b>	—	—	<b>8,140</b>	<b>2.4</b>	<b>10,100</b>	<b>3.0</b>	<b>13,980</b>	<b>4.1</b>	<b>20,030</b>	<b>5.7</b>	<b>25,170</b>	<b>7.1</b>
<b>Hong Kong</b> .....	<b>9,660</b>	<b>3.1</b>	<b>8,610</b>	<b>2.6</b>	<b>9,420</b>	<b>2.8</b>	<b>10,130</b>	<b>3.0</b>	<b>10,710</b>	<b>3.1</b>	<b>11,010</b>	<b>3.1</b>	<b>10,650</b>	<b>3.0</b>
<b>Japan</b> .....	<b>13,500</b>	<b>4.3</b>	<b>13,610</b>	<b>4.0</b>	<b>13,010</b>	<b>3.8</b>	<b>13,160</b>	<b>3.8</b>	<b>13,360</b>	<b>3.9</b>	<b>15,070</b>	<b>4.3</b>	<b>18,050</b>	<b>5.1</b>
<b>Korea, Republic of</b>	<b>6,150</b>	<b>2.0</b>	<b>11,360</b>	<b>3.4</b>	<b>13,660</b>	<b>4.1</b>	<b>16,430</b>	<b>4.8</b>	<b>18,660</b>	<b>5.4</b>	<b>19,940</b>	<b>5.7</b>	<b>20,520</b>	<b>5.8</b>
<b>Taiwan</b> .....	<b>19,460</b>	<b>6.2</b>	<b>20,770</b>	<b>6.2</b>	<b>21,960</b>	<b>6.5</b>	<b>22,590</b>	<b>6.6</b>	<b>23,770</b>	<b>6.9</b>	<b>25,660</b>	<b>7.3</b>	<b>26,660</b>	<b>7.5</b>
<b>South Central Asia</b> .....	<b>14,540</b>	<b>4.7</b>	<b>20,710</b>	<b>6.1</b>	<b>21,930</b>	<b>6.5</b>	<b>23,340</b>	<b>6.8</b>	<b>25,800</b>	<b>7.5</b>	<b>28,700</b>	<b>8.2</b>	<b>32,410</b>	<b>9.1</b>
<b>India</b> .....	<b>9,250</b>	<b>3.0</b>	<b>12,890</b>	<b>3.8</b>	<b>13,730</b>	<b>4.1</b>	<b>14,610</b>	<b>4.3</b>	<b>16,070</b>	<b>4.7</b>	<b>18,350</b>	<b>5.2</b>	<b>21,010</b>	<b>5.9</b>
<b>Pakistan</b> .....	<b>2,900</b>	<b>1.0</b>	—	—	<b>4,280</b>	<b>1.3</b>	<b>4,750</b>	<b>1.4</b>	<b>5,440</b>	<b>1.6</b>	<b>5,950</b>	<b>1.7</b>	<b>6,570</b>	<b>1.8</b>
<b>South East Asia</b> .....	<b>28,450</b>	<b>9.1</b>	<b>38,230</b>	<b>11.3</b>	<b>43,820</b>	<b>12.9</b>	<b>47,710</b>	<b>13.9</b>	<b>50,310</b>	<b>14.6</b>	<b>50,110</b>	<b>14.3</b>	<b>46,920</b>	<b>13.2</b>
<b>Indonesia</b> .....	<b>3,250</b>	<b>1.0</b>	—	—	<b>6,110</b>	<b>1.8</b>	<b>7,190</b>	<b>2.1</b>	<b>8,210</b>	<b>2.4</b>	<b>9,240</b>	<b>2.6</b>	<b>9,010</b>	<b>2.5</b>
<b>Malaysia</b> .....	<b>6,010</b>	<b>1.9</b>	<b>14,020</b>	<b>4.2</b>	<b>18,150</b>	<b>5.4</b>	<b>21,720</b>	<b>6.3</b>	<b>23,020</b>	<b>6.7</b>	<b>21,640</b>	<b>6.2</b>	<b>19,480</b>	<b>5.5</b>
<b>Thailand</b> .....	<b>6,550</b>	<b>2.1</b>	<b>6,800</b>	<b>2.0</b>	<b>6,940</b>	<b>2.0</b>	<b>7,220</b>	<b>2.1</b>	<b>6,940</b>	<b>2.0</b>	<b>6,480</b>	<b>1.9</b>	<b>6,430</b>	<b>1.8</b>
<b>Stateless</b> .....	<b>240</b>	<b>0.1</b>	<b>380</b>	<b>0.1</b>	<b>300</b>	<b>0.1</b>	<b>270</b>	<b>0.1</b>	<b>190</b>	<b>0.1</b>	<b>180</b>	<b>0.1</b>	<b>220</b>	<b>0.1</b>

<sup>1</sup> Excludes Mexico and Central America, which are included with Latin America  
 —Data not available

SOURCE: Institute of International Education, *Open Doors*, various years, and unpublished data. (Latest edition © 1980 by the Institute of International Education. All rights reserved.) (This table was prepared May 1989.)

NOTE—Data are for "nonimmigrants," i.e., students who have not migrated to this country. The distribution by continent and region includes estimates for students whose country of origin is unknown. Because of rounding, details may not add to totals.

## CHAPTER 7

# Learning Resources and Technology

This chapter contains statistics on libraries and on the use of information technologies. These data provide an indication of the extent of America's access to information technologies outside of formal classroom activities. The data also provide a capsule description of the magnitude and availability of library resources. Access to information has been widely cited as the key to success in a growing number of endeavors. Thus, how information is made available and to whom become matters of concern.

The tables in this chapter are based on periodic surveys conducted by the National Center for Education Statistics. One table on the availability of selected types of technology has been extracted from a Corporation for Public Broadcasting survey sponsored by the National Center for Education Statistics.

The first section of this chapter has tables dealing with public libraries, public school libraries, and college and university libraries. These tables contain data on collections, population served, staff, and expenditures. Two tables provide institutional-level information for the largest public libraries and the largest college libraries in the country.

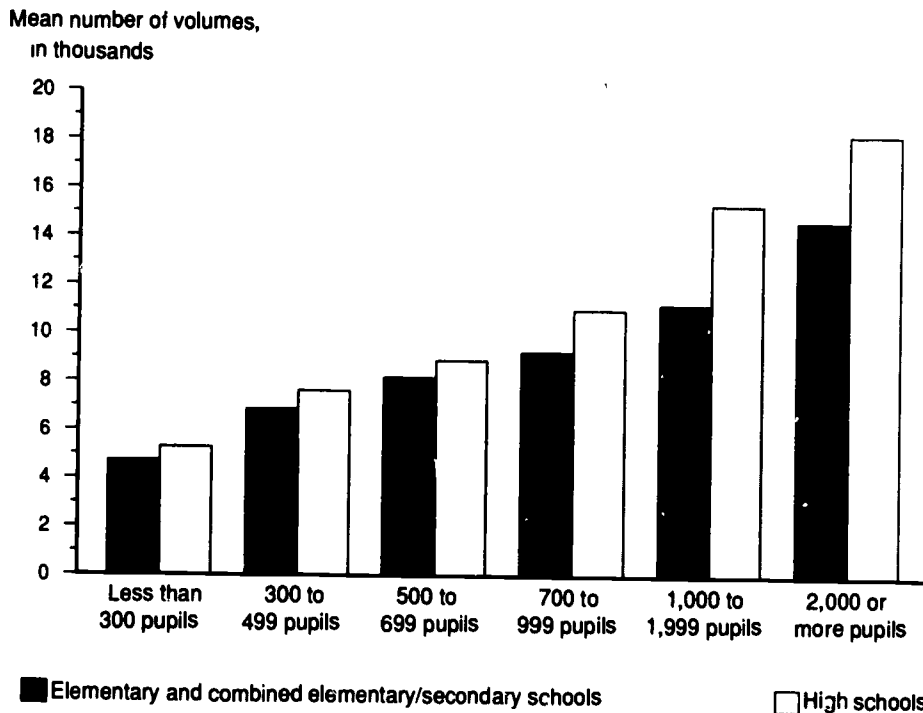
The second half of this chapter provides information on the availability and use of technology. For example, the proportion of schools with microcomputers was tabulated for a period of years to permit trend comparisons. Experiences with computer software and programming are presented for recent high school graduates. Comparisons of the availability of information technologies are made for various demographic groups.

Related data may be found in various sections of this report. For example, statistics on the number of degrees conferred in computer and information sciences and library sciences may be found in chapter 3. Further information on survey methodologies can be found in the Guide to Sources and in the publications cited in the source notes.

## Highlights

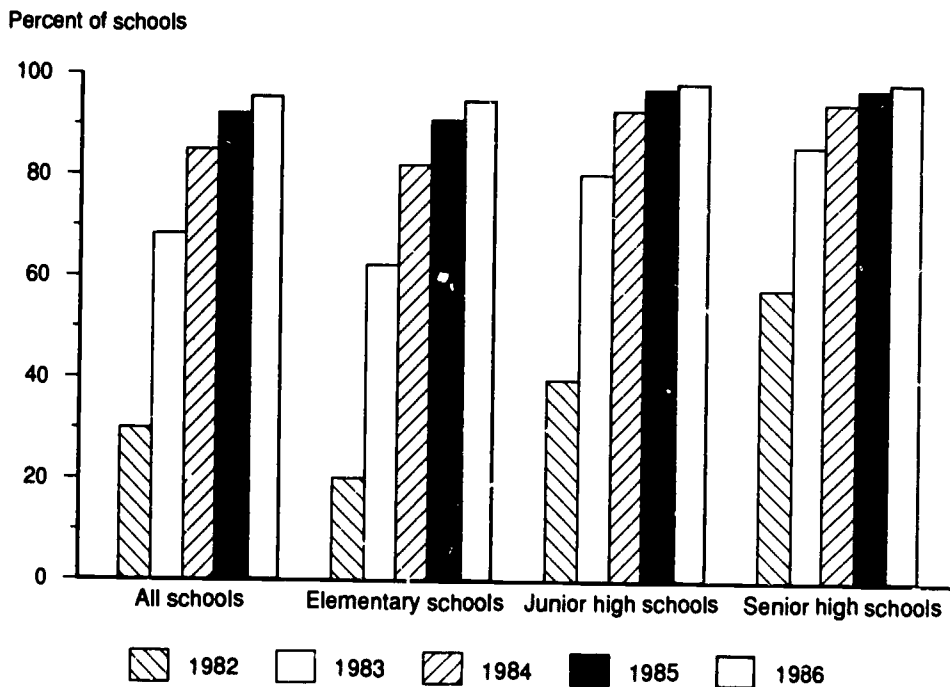
- In fall 1985, more than 93 percent of all public schools and 75 percent of all private schools had libraries or media centers. (Tables 354 and 356)
- During the 1984-85 school year, public school libraries held an average of 7,668 book titles, 34 periodical subscriptions, and 540 films and filmstrips. (Table 355)
- Total expenditures for college libraries rose by 78 percent between 1974-75 and 1981-82. However, the proportion of college budgets spent on libraries fell from 3.9 percent to 3.5 percent during the same time period. (Table 357)
- The number of public schools using microcomputers has risen rapidly in recent years. Between fall 1981 and fall 1986, the proportion of public schools with computers rose from 18 percent to 96 percent. (Table 359)
- In general, Americans have extensive access to information technologies in their homes. About 99 percent of all adults have televisions in their homes and 82 percent have audio tape players. More than one-fifth of all school-age children have computers in their homes. (Table 360)

**Figure 30.—Volumes held by public school libraries, by size of school and level of education: Fall 1985**



SOURCE: U.S. Department of Education, National Center for Educational Statistics, "National Survey of Public and Private School Libraries and Media Centers, 1985."

**Figure 31.—Public schools with computers, by level of school: 1982 to 1986**



SOURCES: Market Data Retrieval, inc. *Microcomputers in Schools, 1983-84, 1985*; and unpublished tabulations.

**Table 351.—General statistics of public libraries, by population of area served: Fiscal year 1982**

Item	Population of area served						
	Total	Under 10,000	10,000 to 49,999	50,000 to 99,999	100,000 to 249,999	250,000 to 499,999	500,000 and over
1	2	3	4	5	6	7	8
<b>Number of public service outlets</b> .....	<b>70,573</b>	<b>9,422</b>	<b>24,134</b>	<b>14,132</b>	<b>12,225</b>	<b>5,390</b>	<b>5,271</b>
Central libraries .....	8,597	5,495	2,224	483	257	76	63
Branch libraries .....	6,943	350	1,389	1,271	1,361	924	1,649
Bookmobiles and mobile unit stops .....	49,981	3,036	19,227	11,461	9,034	4,029	3,195
Other outlets .....	5,051	542	1,295	918	1,573	361	363
<b>Collections, in thousands</b>							
Volumes of books held at end of year .....	494,149	80,600	127,069	63,984	65,874	48,274	108,347
Volumes of books added during year .....	30,204	4,652	7,847	3,761	3,856	3,419	6,669
Direct circulation of all materials .....	1,113,246	130,361	288,822	158,841	163,785	121,380	250,057
<b>Staff, in full-time-equivalents</b>							
Librarians .....	37,570	6,902	9,861	4,782	4,708	3,631	7,685
Technical, clerical, and other staff .....	49,283	3,114	11,945	7,760	7,589	5,849	13,027
Plant operation and maintenance staff .....	5,324	724	1,253	541	636	478	1,694
<b>Finances, in millions</b>							
Library receipts .....	\$2,271	\$178	\$512	\$308	\$343	\$264	\$666
Library expenditures .....	2,210	165	499	305	333	264	643

NOTE.—Because of rounding, details may not add to totals.

SOURCE. U.S. Department of Education, National Center for Education Statistics, "Public Libraries, 1982" survey

**Table 352.—Public libraries with 1 million or more volumes, by size of collection: 1982**

Library system	Rank order <sup>1</sup>	Number of volumes (book stock and serials)	Library system	Rank order <sup>1</sup>	Number of volumes (book stock and serials)
1	2	3	1	2	3
New York Public Library <sup>2</sup> (N.Y.) .....	1	10,926,535	Dayton and Montgomery County Public Library (Ohio) ..	27	1,603,397
Los Angeles County Public Library (Calif.) .....	2	5,101,872	Baltimore County Public Library (Md.) .....	28	1,554,000
Boston Public Library (Mass.) .....	3	4,999,830	Montgomery County Department of Public Libraries (Md.)	29	1,554,000
Los Angeles Public Library (Calif.) .....	4	4,975,566	Public Library of Washington, D.C.	30	1,430,326
Queens Borough Public Library (N.Y.) .....	5	4,814,219	St. Louis Public Library (Mo.) .....	31	1,407,344
Chicago Public Library (Ill.) .....	6	4,562,015	Indianapolis-Marion County Public Library (Ind.) .....	32	1,403,317
Brooklyn Public Library (N.Y.) .....	7	3,883,598	Fairfax County Public Library (Va.) .....	33	1,380,154
Buffalo and Erie County Public Library (N.Y.) .....	8	3,487,124	King County Library System (Wash.) .....	34	1,342,959
Cincinnati-Hamilton County Public Library (Ohio)	9	3,456,790	Kansas City Public Library (Kans.) .....	35	1,328,021
Free Library of Philadelphia (Penn.) .....	10	3,414,201	Toledo-Lucas County Public Library (Ohio) .....	36	1,280,112
Cleveland Public Library (Ohio) .....	11	2,857,702	Mid-Continent Public Library (Mo.) .....	37	1,279,626
Houston Public Library (Tex.) .....	12	2,846,460	Prince George's County Memorial Library (Md.) .....	38	1,266,213
Detroit Public Library (Mich.) .....	13	2,658,663	Library Association of Portland (Oreg.) .....	39	1,247,045
Hawaii State Library (Hawaii) .....	14	2,442,731	Orange County Public Library (Calif.) .....	40	1,243,572
Milwaukee Public Library (Wis.) .....	15	2,345,180	Public Library of Columbus and Franklin County (Ohio)	41	1,241,385
Carnegie Library of Pittsburgh (Penn.) .....	16	2,072,373	San Antonio Public Library (Tex.) .....	42	1,230,044
Miami-Dade Public Library System (Fla.) .....	17	1,976,942	Annapolis and Anne Arundel County Library (Md.)	43	1,220,601
Cuyahoga County Public Library (Ohio) .....	18	1,952,528	Atlanta Public Library (Ga.) .....	44	1,210,091
Denver Public Library (Colo.) .....	19	1,916,761	Phoenix Public Library (Ariz.) .....	45	1,206,540
Enoch Pratt Free Library (Baltimore, Md.) .....	20	1,902,403	Sacramento Public Library (Calif.) .....	46	1,206,042
San Francisco Public Library (Calif.) .....	21	1,792,827	San Jose Public Library (Tex.) .....	47	1,195,542
Dallas Public Library (Tex.) .....	22	1,730,807	Louisville Free Public Library (Ky.) .....	48	1,141,771
San Diego Public Library (Calif.) .....	23	1,701,025	Jacksonville Public Library (Fla.) .....	49	1,092,115
St. Louis County Library (Mo.) .....	24	1,695,048	Hennepin County Library (Minn.) .....	50	1,065,995
Fort Wayne-Allen County Public Library (Ind.) .....	25	1,659,896	Akron-Summit County Public Library (Ohio)	51	1,065,417
Minneapolis Public Library (Minn.) .....	26	1,640,546			

<sup>1</sup> Libraries ranked by number of volumes held

<sup>2</sup> Includes the New York Research Library which reported holding 7,271,592 volumes

SOURCE. U.S. Department of Education, National Center for Education Statistics, "Public Libraries, 1982" survey

**Table 353.—General statistics of public school libraries/media centers, by level of school: 1973-74 to fall 1985**

Item	1973-74			1977-78			1984-85 and fall 1985 <sup>1</sup>		
	Total	Elementary and combined schools	Secondary schools	Total	Elementary and combined schools	Secondary schools	Total	Elementary, junior high, and combined schools	High schools
	2	3	4	5	6	7	8	9	10
Number of public school libraries/media centers .....	74,625	52,310	22,315	70,854	52,087	18,767	73,352	61,013	12,339
Number of pupils served fall membership, in thousands .....	43,929	25,830	18,039	40,606	24,098	16,509	39,135	27,965	11,169
<b>Collections, in thousands</b>									
Volumes of books held at end of year .....	506,965	308,232	198,733	531,470	343,070	188,400	620,974	468,395	152,579
Volumes of books added during year .....	37,487	22,206	15,281	26,999	18,410	10,589	23,082	17,290	5,792
Periodical subscriptions held at end of year .....	2,892	1,319	1,573	4,026	2,347	1,679	2,487	1,586	901
Audiovisual materials held at end of year .....	68,024	43,719	24,305	75,938	26,734	49,204	—	—	—
<b>Collections per pupil in membership</b>									
Book volumes per pupil .....	11.5	11.9	11.0	13.1	14.2	11.4	15.9	16.7	13.7
Book volumes added per pupil .....	0.9	0.9	0.8	0.7	0.8	0.6	0.6	0.6	0.5
<b>Staff, in full-time-equivalents</b>									
Certified staff <sup>2</sup> .....	62,659	35,045	27,614	68,058	44,764	23,294	54,215	39,682	14,534
Men .....	7,378	2,749	4,629	—	—	—	—	—	—
Women .....	55,281	32,296	22,985	—	—	—	—	—	—
Less than a bachelor's degree .....	3,686	2,109	1,577	1,520	1,216	304	—	—	—
Bachelor's or higher degree .....	58,974	32,937	26,037	66,538	43,548	22,990	—	—	—
Noncertified staff (e.g., technical, secretarial, clerical, etc.) .....	38,807	21,482	17,325	—	—	—	42,109	31,236	10,873
<b>Operating expenditures, in thousands</b>									
Total operating expenditures .....	\$1,182,280	\$636,390	\$545,890	\$1,385,608	\$834,744	\$550,864	—	—	—
Salaries and wages .....	818,320	441,660	376,660	1,000,550	611,247	389,303	—	—	—
Books .....	162,960	86,860	76,100	172,473	106,199	66,274	\$205,234	\$143,564	\$61,670
Periodicals .....	24,870	10,560	14,310	30,012	14,054	15,958	48,036	27,578	20,458
Equipment .....	68,450	38,440	28,010	69,587	40,486	29,101	—	—	—
Other operating expenditures <sup>3</sup> .....	109,680	58,870	50,810	112,987	62,758	50,229	—	—	—
<b>Expenditures per student in membership</b>									
Total operating expenditures .....	26.91	24.64	30.16	34.12	34.64	33.37	—	—	—
Salaries and wages .....	18.63	17.10	20.81	24.64	25.37	23.58	—	—	—
Books .....	3.71	3.38	4.20	4.25	4.4*	4.01	6.24	6.00	7.40

<sup>1</sup> Data on numbers of library/media centers, membership, and staff are for fall 1985. Data on collections and expenditures are for 1984-85. Definitions of types of schools differ from tabulations for earlier years.

<sup>2</sup> Includes staff holding State certification as librarians, media specialists, or classroom teachers.

<sup>3</sup> Includes audiovisual materials.  
—Data not available.

NOTE—Data are derived from a sample survey and are subject to sampling error. Because of rounding, data's may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public School Libraries/Media Centers*, fall 1974 and fall 1978. "National Survey of Public and Private School Libraries and Media Centers, 1985" (This table was prepared September 1986).

**Table 354.—Selected statistics on public school libraries/media centers, by level and size of school: Fall 1985**

School level and size	Number of library/media centers	Percent of schools with library/media centers	Library/media center staff					Mean circulation per week	
			Total staff	Mean number of staff per school	Certified library staff	Other professional staff	Other staff	Per school	Per pupil
1	2	3	4	5	6	7	8	9	10
<b>All schools.....</b>	<b>73,352</b>	<b>93.5</b>	<b>96,324</b>	<b>1.3</b>	<b>54,215</b>	<b>5,252</b>	<b>36,857</b>	<b>523</b>	<b>1.2</b>
Fewer than 300 pupils.....	19,070	82.4	15,806	0.8	9,560	1,046	5,200	261	1.4
300 to 499 pupils.....	23,744	97.5	27,297	1.1	15,552	1,886	9,859	525	1.3
500 to 699 pupils.....	14,916	98.5	19,997	1.3	11,296	1,214	7,487	679	1.2
700 to 999 pupils.....	8,721	98.2	13,961	1.6	7,819	613	5,530	672	0.8
1,000 to 1,999 pupils.....	5,834	99.3	15,188	2.6	7,936	433	6,819	678	0.5
2,000 or more pupils.....	1,068	100.0	4,075	3.8	2,053	60	1,962	876	0.3
<b>Elementary, junior high, and combined schools.....</b>	<b>61,013</b>	<b>92.6</b>	<b>70,918</b>	<b>1.2</b>	<b>39,682</b>	<b>4,394</b>	<b>26,842</b>	<b>550</b>	<b>1.3</b>
Fewer than 300 pupils.....	16,567	81.1	13,232	0.8	7,693	804	4,734	284	1.5
300 to 499 pupils.....	21,883	97.5	24,696	1.1	13,808	1,775	9,113	547	1.4
500 to 699 pupils.....	13,426	98.4	17,703	1.3	9,828	1,132	6,742	720	1.2
700 to 999 pupils.....	6,918	97.7	10,660	1.5	5,904	515	4,241	758	0.9
1,000 to 1,999 pupils.....	2,169	98.2	4,506	2.1	2,369	169	1,968	878	0.8
2,000 or more pupils.....	49	100.0	121	2.5	78	0	43	1,215	0.5
<b>High schools<sup>1</sup>.....</b>	<b>12,339</b>	<b>98.0</b>	<b>25,406</b>	<b>2.1</b>	<b>14,534</b>	<b>858</b>	<b>10,015</b>	<b>388</b>	<b>0.5</b>
Fewer than 300 pupils.....	2,503	91.7	2,574	1.0	1,867	242	465	109	0.6
300 to 499 pupils.....	1,861	98.5	2,601	1.4	1,743	112	746	276	0.7
500 to 699 pupils.....	1,488	100.0	2,294	1.5	1,468	82	744	308	0.5
700 to 999 pupils.....	1,803	100.0	3,301	1.8	1,914	98	1,289	340	0.4
1,000 to 1,999 pupils.....	3,665	100.0	10,682	2.9	5,566	264	4,651	560	0.4
2,000 or more pupils.....	1,019	100.0	3,955	3.9	1,975	60	1,919	863	0.3

<sup>1</sup> Excludes vocational/technical centers and intermediate schools. Intermediate schools are included under elementary and combined schools.

SOURCE U.S. Department of Education, National Center for Education Statistics, "National Survey of Public and Private School Libraries and Media Centers, 1985." (This table was prepared September 1986.)

NOTE.—Data are derived from a sample survey and are subject to sampling error. Because of rounding, details may not add to totals.

Table 355.—Holdings and expenditures of public school libraries/media centers, by level and size of school: 1984-85

School level and size	Mean number of titles held per library/media center				Mean annual expenditure per pupil <sup>1</sup> by object					
	Book titles	Periodical subscriptions	Films and filmstrips	Audio materials	Total <sup>2</sup>	Books	Periodical subscriptions	Audio-visual materials	Computer hardware <sup>3</sup>	Computer software <sup>3</sup>
1	2	3	4	5	6	7	8	9	10	11
<b>All schools</b> .....	<b>7,668</b>	<b>34</b>	<b>540</b>	<b>353</b>	<b>\$17.58</b>	<b>\$6.24</b>	<b>\$1.49</b>	<b>\$1.80</b>	<b>\$3.41</b>	<b>\$0.84</b>
Fewer than 300 pupils.....	4,783	23	300	175	27.54	9.18	2.52	2.54	5.96	1.48
300 to 499 pupils.....	6,827	27	499	311	15.37	5.58	1.18	1.65	3.04	0.80
500 to 699 pupils.....	8,250	32	640	396	13.89	5.25	1.01	1.46	2.41	0.54
700 to 999 pupils.....	9,602	46	705	444	12.64	4.67	1.14	1.52	1.94	0.48
1,000 to 1,999 pupils.....	13,802	73	928	765	12.05	4.47	1.23	1.41	1.71	0.35
2,000 or more pupils.....	18,082	115	912	846	11.13	4.53	1.14	1.15	0.84	0.13
<b>Elementary, junior high, and combined schools</b> .....	<b>7,003</b>	<b>26</b>	<b>523</b>	<b>337</b>	<b>16.79</b>	<b>6.00</b>	<b>1.22</b>	<b>1.69</b>	<b>3.44</b>	<b>0.89</b>
Fewer than 300 pupils.....	4,720	19	313	184	25.18	8.63	2.00	2.12	5.57	1.53
300 to 499 pupils.....	6,867	24	509	313	14.65	5.29	1.00	1.62	3.06	0.80
500 to 699 pupils.....	8,178	28	637	396	13.35	5.07	0.88	1.44	2.36	0.55
700 to 999 pupils.....	9,242	38	742	461	12.16	4.44	0.90	1.45	2.09	0.48
1,000 to 1,999 pupils.....	11,214	45	888	891	10.65	3.81	0.70	1.44	1.88	0.36
2,000 or more pupils.....	14,644	73	253	422	8.84	5.13	0.53	1.22	0.00	0.02
<b>High schools<sup>4</sup></b> .....	<b>10,960</b>	<b>73</b>	<b>625</b>	<b>429</b>	<b>21.48</b>	<b>7.40</b>	<b>2.84</b>	<b>2.36</b>	<b>3.24</b>	<b>0.59</b>
Fewer than 300 pupils.....	5,275	45	216	113	43.13	12.76	5.94	5.37	8.55	1.16
300 to 499 pupils.....	7,624	57	384	288	23.77	9.01	3.31	2.00	2.62	0.79
500 to 699 pupils.....	8,901	68	665	398	18.70	6.67	2.35	1.65	2.87	0.45
700 to 999 pupils.....	10,987	76	563	380	14.48	5.56	2.05	1.77	1.36	0.48
1,000 to 1,999 pupils.....	15,334	90	952	631	12.88	4.86	1.55	1.39	1.62	0.34
2,000 or more pupils.....	18,247	117	943	866	11.24	4.50	1.17	1.15	0.98	0.14

<sup>1</sup> Excludes salaries and wages.<sup>2</sup> Includes expenditures not shown separately.<sup>3</sup> Includes expenditures for computer installations that are administered by library/media centers.<sup>4</sup> Excludes vocational/technical centers and intermediate schools. Intermediate schools are included under elementary and combined schools.

NOTE—Data are derived from a sample survey and are subject to sampling error. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, "National Survey of Public and Private School Libraries and Media Centers, 1985." (This table was prepared September 1986.)

Table 356.—Selected statistics on private school libraries/media centers, by level and size of school: 1984-85

Selected characteristics	All private schools	Level of school				Number of pupils in school				
		Elementary	Secondary	Combined	Other <sup>1</sup>	Less than 50	50 to 149	150 to 299	300 to 499	500 or more
1	2	3	4	5	6	7	8	9	10	11
Number of schools, fall 1985 .....	25,615	15,117	2,479	4,975	3,044	4,649	8,143	6,405	4,670	1,748
Number of schools with library/media centers.....	19,186	11,747	2,364	3,566	1,509	2,356	5,581	5,280	4,225	1,745
Percent of schools with library/media centers.....	75	78	95	72	50	51	63	82	90	100
Percent of pupils in schools with library/media centers .....	88	87	99	83	66	53	70	83	91	100
Library/media FTE staff, total, fall 1985.....	16,627	7,853	4,120	3,033	1,622	705	2,996	4,355	4,946	3,625
Certified library staff.....	5,390	1,900	1,940	1,267	284	47	735	1,299	1,855	1,454
Other professional staff.....	3,534	1,778	651	577	528	114	625	1,039	1,073	683
Other staff.....	7,704	4,175	1,530	1,189	810	545	1,636	2,016	2,018	1,488
Library/media staff, mean FTE per school.....	0.87	0.67	1.74	0.85	1.07	0.30	0.54	0.82	1.17	2.08
Certified library staff.....	0.28	0.16	0.82	0.36	0.19	0.02	0.13	0.25	0.44	0.83
Mean number of titles held per library/media center, 1984-85 .....										
Book titles, all centers.....	5,154	4,001	10,583	6,013	3,519	2,242	2,657	4,450	7,603	12,628
Catholic.....	6,117	4,834	11,641	—	—	—	2,884	4,490	6,485	12,562
Other religious orientation.....	3,366	2,290	7,444	4,182	1,678	1,733	2,226	3,854	7,657	—
Not religiously affiliated.....	6,413	4,326	10,452	11,783	3,589	2,921	4,105	6,127	14,788	—
Periodical subscriptions.....	19	10	61	22	18	5	9	16	28	62
Films and filmstrips.....	253	259	492	124	139	42	78	191	512	660
Audio materials.....	225	183	600	121	206	50	111	152	313	832
Mean circulation per week, 1984-85										
Per school.....	200	230	154	171	106	40	96	199	329	441
Per pupil.....	0.9	1.0	0.4	0.9	1.0	1.3	0.9	0.9	0.8	0.5
Mean annual expenditure <sup>2</sup> per pupil, 1984-85										
Total <sup>3</sup> .....	\$21.56	\$15.52	\$22.35	\$34.26	\$37.29	\$59.75	\$20.48	\$14.26	\$13.92	\$13.99
Books.....	9.64	6.03	10.51	16.59	19.88	27.68	9.92	5.66	5.86	5.56
Periodical subscriptions.....	1.42	0.73	3.36	1.35	3.94	1.52	1.80	1.01	1.35	1.47
Audiovisual materials.....	1.84	1.11	1.92	4.31	1.57	5.50	1.43	1.15	1.29	1.66
Computer hardware <sup>4</sup> .....	3.08	3.35	1.97	2.89	3.16	7.83	2.69	2.68	2.08	1.50
Computer software.....	0.93	1.13	0.44	0.42	1.29	1.35	1.00	1.04	0.66	0.42
Mean annual expenditure <sup>2</sup> per pupil, by control										
Total <sup>3</sup> .....	21.56	15.52	22.35	34.26	37.29	59.75	20.48	14.26	13.92	13.99
Catholic.....	13.39	12.29	16.97	—	—	—	15.86	13.73	11.36	12.32
Other religious orientation.....	25.60	20.04	26.07	34.76	9.81	59.61	14.95	13.23	17.17	—
Not religiously affiliated.....	36.54	25.25	44.47	34.30	42.27	62.65	36.73	21.01	25.66	—

<sup>1</sup> Includes special education and alternative schools<sup>2</sup> Excludes salaries and wages<sup>3</sup> Includes items not shown separately<sup>4</sup> This figure often includes the total school budget for computer hardware

— Data not shown because of small sample size

NOTE—Data are derived from a sample survey and are subject to sampling error. Because of rounding, details may not add to totals.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Statistics of Public and Private School Library Media Centers, 1985-86 (with historical comparisons from 1959 to 1985)* (This table was prepared February 1988)



**Table 357.—General statistics of college and university libraries: United States and outlying areas, 1974-75 to 1981-82**

Item	1974-75	1975-76	1976-77	1978-79	1981-82 <sup>1</sup>
1	2	3	4	5	6
Number of libraries.....	1,972	2,967	3,058	3,122	3,104
Number of students enrolled, total, in thousands <sup>2</sup> .....	10,322	11,291	11,121	11,392	12,372
<b>Collections, thousands of units</b>					
Number of volumes at end of year.....	447,059	468,033	481,442	519,695	567,826
Number of volumes added during year.....	23,242	22,977	22,367	21,608	19,507
Number of periodical subscriptions <sup>3</sup> .....	4,434	4,616	4,670	4,775	4,890
<b>Library staff, in full-time equivalents</b>					
Total staff in regular positions <sup>3</sup> .....	56,838	56,852	57,087	58,416	58,476
Professional library staff.....	23,530	23,104	23,308	23,676	23,816
Nonprofessional library staff.....	33,308	33,748	33,779	34,740	34,660
Hours of student and other assistance, in thousands.....	34,687	36,725	39,950	39,552	40,068
<b>Library operating expenditures (excluding capital outlay)</b>					
Operating expenditures, total, in thousands.....	\$1,091,784	\$1,180,128	\$1,259,637	\$1,502,158	\$1,943,769
Salaries <sup>4</sup> .....	592,568	649,374	698,090	824,438	1,081,694
Hourly wages.....	61,474	66,175	68,683	79,535	100,847
Binding and rebinding.....	22,206	22,375	22,521	25,274	30,351
Books and other library materials.....	327,904	357,544	373,699	450,180	561,199
Other library operating expenditures.....	87,632	84,660	96,643	122,731	169,478
Operating expenditures, total, in percents.....	100.0	100.0	100.0	100.0	100.0
Salaries <sup>4</sup> .....	54.0	55.0	55.0	55.0	56.0
Hourly wages.....	6.0	6.0	5.0	5.0	5.0
Binding and rebinding.....	2.0	2.0	2.0	2.0	2.0
Books and other library materials.....	30.0	30.0	30.0	30.0	29.0
Other library operating expenditures.....	8.0	7.0	8.0	6.0	9.0
Library operating expenditures as percent of total institutional expenditures for education and general purposes.....	3.9	3.8	3.6	3.7	3.5

<sup>1</sup> Data are for the 50 States and the District of Columbia only.

<sup>2</sup> Fall enrollment for the academic year specified

<sup>3</sup> Data are for the fall term of the succeeding year

<sup>4</sup> Includes expenditures for fringe benefits and salary equivalents of contributed service staff

NOTE.—Because of rounding, details may not add to totals

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Library Statistics of Colleges and Universities*, various years (This table was prepared August 1986)

**Table 358.—Selected statistics on the collections, staff, and operating expenditures of 50 large college and university libraries: 1985**

Institution	Rank order, by number of volumes	Number of volumes at end of year, in thousands	Full-time-equivalent staff <sup>1</sup>		Operating expenditures, in thousands <sup>2</sup>				
			Total	Professional	Total	Salaries and wages <sup>3</sup>	Books and other materials <sup>4</sup>	Binding and retouching	Other
1	2	3	4	5	6	7	8	9	10
Harvard University (Mass.)...	1	10,930	1,001	310	\$30,452	\$17,905	\$6,872	\$621	\$5,054
Yale University (Conn.).....	2	8,192	595	176	18,982	11,242	4,916	279	2,544
University of Illinois—Urbana Campus.....	3	6,808	551	122	15,500	8,932	4,724	228	1,616
University of California—Berkeley.....	4	6,611	721	170	26,024	15,003	5,115	520	2,786
University of Michigan, Ann Arbor.....	5	5,802	544	143	14,795	10,072	3,335	275	1,112
Columbia University, Main Division (N.Y.).....	6	5,461	559	128	18,340	11,316	4,260	393	2,370
University of California—Los Angeles.....	7	5,453	692	190	27,586	16,805	5,850	614	4,317
University of Texas at Austin.....	8	5,402	593	131	19,441	11,261	6,539	182	1,458
Stanford University (Calif.).....	9	5,318	590	155	25,202	16,377	5,755	351	2,720
University of North Carolina at Chapel Hill.....	10	4,851	370	109	12,639	6,475	4,228	246	1,690
University of Chicago (Ill.).....	11	4,661	334	77	12,433	6,942	2,980	247	2,265
University of Wisconsin—Madison.....	12	4,495	519	132	17,179	9,936	4,141	218	2,885
University of Washington.....	13	4,416	483	125	14,833	8,445	4,315	373	1,702
Indiana University at Bloomington.....	14	4,366	495	109	12,092	7,399	3,516	210	967
University of Minnesota, Minneapolis—St. Paul.....	15	4,229	412	109	15,138	9,255	3,570	382	1,932
Cornell University (N.Y.).....	16	4,065	448	91	12,475	7,142	4,146	249	939
Ohio State University, Main Campus.....	17	3,983	467	109	15,078	8,248	4,387	212	2,232
Rutgers University, New Brunswick (N.J.).....	18	3,807	357	78	10,557	6,091	2,582	287	1,596
Princeton University (N.J.).....	19	3,752	388	98	12,603	7,725	3,557	252	1,069
Duke University (N.C.).....	20	3,459	302	97	9,895	5,621	3,103	190	981
University of Florida.....	21	3,409	430	98	9,511	5,061	3,022	117	1,310
University of Pennsylvania.....	22	3,282	319	101	11,942	7,332	2,512	280	1,818
Northwestern University (Ill.).....	23	3,125	348	104	10,352	5,951	3,169	218	1,014
Michigan State University.....	24	3,063	318	75	10,024	5,916	2,681	186	1,241
University of Arizona.....	25	2,966	362	91	13,862	6,075	4,425	301	3,062
New York University.....	26	2,879	372	76	12,301	7,736	3,258	206	1,101
University of Virginia, Main Campus.....	27	2,770	348	90	10,711	4,915	4,333	214	1,248
University of Iowa.....	28	2,662	251	79	8,799	4,475	3,407	235	682
University of Pittsburgh, Main Campus (Penn.).....	29	2,584	328	86	9,802	6,056	2,555	169	1,021
University of Utah.....	30	2,530	283	59	8,048	4,580	2,392	142	934
University of Rochester (N.Y.).....	31	2,473	204	54	7,266	3,592	2,193	104	1,379
University of Southern California.....	32	2,436	342	97	10,402	5,577	2,962	139	1,724
University of Georgia.....	33	2,416	301	76	8,296	3,905	3,447	239	704
University of Kansas, Main Campus.....	34	2,374	250	64	8,244	4,214	2,837	159	1,034
Johns Hopkins University (Md.).....	35	2,296	241	56	7,786	4,371	2,104	60	1,251
Southern Illinois University, Carbondale.....	36	2,263	269	64	6,944	3,608	2,306	139	891
University of Missouri, Columbia.....	37	2,255	211	50	5,707	2,683	2,146	142	736
University of California, Santa Barbara.....	38	2,252	238	57	9,579	5,799	2,673	216	892
Arizona State University.....	39	2,188	311	73	9,442	4,252	3,809	175	1,205
Syracuse University, Main Campus (N.Y.).....	40	2,186	243	55	7,973	4,237	2,446	103	1,186
Louisiana State University and A & M College.....	41	2,158	273	68	8,289	3,410	3,142	178	1,559
University of Hawaii at Manoa.....	42	2,119	234	68	8,210	4,934	2,289	184	803
Wayne State University (Mich.).....	43	2,084	210	55	8,253	3,460	2,445	99	2,249
State University of New York at Buffalo, Main Campus.....	44	2,066	230	61	7,802	4,400	2,097	100	1,205
University of Colorado at Boulder.....	45	2,052	193	45	6,233	3,377	2,224	122	510
University of Massachusetts at Amherst.....	46	2,033	219	45	6,653	4,199	1,813	67	575
Washington University (Missouri).....	47	2,030	229	66	7,828	3,434	2,518	133	1,743
University of California at Davis.....	48	1,995	295	66	12,898	7,695	3,703	345	1,155
Massachusetts Institute of Technology.....	49	1,994	275	86	9,729	6,318	1,811	125	1,475
Brown University (R.I.).....	50	1,966	220	59	6,714	3,475	2,105	139	995

<sup>1</sup> Data are for fall 1985

<sup>2</sup> Data are for 1984-85

<sup>3</sup> Includes salary equivalents of contributed services staff, fringe benefits of total staff, and wages of student assistants charged to the library budget

<sup>4</sup> Includes operating expenses for book stock, periodicals, microforms, audiovisual materials, and other library materials.

SOURCE U.S. Department of Education, National Center for Education Statistics "Library Statistics of Colleges and Universities, Fall 1985" survey (This table was prepared October 1986)

**Table 359.—Microcomputer use by elementary and secondary schools, by level, control, and size of school: 1981 to 1986**

Control and size 1	Percent of schools using microcomputers			
	All schools 2	Elementary schools 3	Junior high schools 4	Senior high schools 5
<b>Public schools</b>				
Fall 1981	18.2	11.1	25.6	42.7
Fall 1982	30.0	20.2	39.8	57.8
Fall 1983	68.4	62.4	80.5	86.1
Fall 1984	85.1	82.2	93.1	94.6
Fall 1985	92.2	91.0	97.3	97.4
Fall 1986	95.6	94.9	98.5	98.7
<b>Enrollment size, fall 1985</b>				
Under 200	81.5	82.0	93.3	92.5
200 to 299	92.7	92.1	97.1	96.6
300 to 499	94.1	93.4	97.3	97.4
500 to 999	95.2	93.2	97.9	98.6
1,000 and over	97.9	94.7	96.8	98.9
<b>Private schools 1982-83<sup>1</sup></b>				
Catholic	22.8	16.3	27.8	57.8
Other private	24.6	21.1	43.4	54.8
<b>1983-84<sup>1</sup></b>				
Catholic	63.4	—	—	—
Other private	46.4	—	—	—
<b>1984-85<sup>1</sup></b>				
Catholic	82.9	81.5	87.7	92.8
Other private	61.9	—	—	—
<b>1985-86<sup>1</sup></b>				
Catholic	91.4	—	—	—
Other private	67.3	—	—	—

<sup>1</sup> Private schools were surveyed in the middle of the school year  
—Data not available

SOURCE: Market Data Retrieval, Inc., *Microcomputers in Schools*, 1984, 1985, 1987, and unpublished tabulations (This table was prepared May 1989)

NOTE—Some data have been revised from previously published figures

**Table 360.—Access to information technologies,<sup>1</sup> by age group and income level: 1985**

Age group and income level 1	Percent of persons with information technology in their home					
	Television set 2	Cable television 3	Videocassette recorder 4	Personal or home computer 5	Stereo or record player 6	Audiocassette or tape player 7
<b>Age group</b>						
Preschoolers (age 2-5)	99	53	33	17	89	86
Youths (age 6-11)	99	53	34	22	91	91
Teens (age 12-17)	99	51	35	28	93	94
Adults (age 18 and older)	99	48	29	13	87	82
<b>Access for adults by family income</b>						
Less than \$10,000	99	31	15	3	69	61
\$10,000 to \$19,999	96	47	21	7	87	80
\$20,000 to \$40,000	99	52	26	12	89	84
More than \$40,000	99	55	51	26	93	92

<sup>1</sup> Access measured by presence of information technology in the home. Households may include more than one person in each age group

SOURCE: U.S. Department of Education, Center for Education Statistics, contractor report, *Use of Electronic Information Technologies For Non-School Learning in American Households, Report of Findings from the 1985 Home Information Technology Study (HITS)* (This table was prepared October 1986)

NOTE—Data are based on a sample survey of households and are subject to sampling and nonsampling error

# Guide To Tabular Presentation

This section is intended to assist the reader in following the basic structure of the *Digest* tables and to provide a legend for some of the common symbols and indexes used throughout the book. Unless otherwise noted, all data are for the 50 States and the District of Columbia.

**Stub** Describes a row or a group of rows. Each stub is followed by a number of dots (leaders) or by a semi-colon if no data appears in the data fields.

**Field** The area of the table which contains the data elements.

## Table Components

**Title** Describes the table content concisely.

**Unit indicator** Informs the reader of the measurement unit in the table—"In thousands," "In millions of dollars," etc. Noted below the title unless several units are used, in which case the unit indicators are generally given in the spanner or individual column heads.

**Spanner** Describes a group of two or more columns.

**Column head** Describes specific column.

### Rules in the field

Single horizontal rules indicate

- that the data below the line add to the figure immediately above the line, or
- in the case of derived figures (e.g., percents, medians) that the datum above the line represents a cumulative figure.

Double horizontal rules demarcate groups of related rows.

Single vertical rules delineate columns.

Double vertical rules divide the table into sections with unique stubs.

## Example of Table Structure

**Table 0.—Total enrollment in institutions of higher education, by type and control of institution, Fall 1979 to fall 1986**

(In thousands)

Type and control of institution	Year				
	1979	1981	1983	1985	Percent change, 1979 to 1985
1	2	3	4	5	6
All institutions . . . . .	11,570	12,372	12,465	12,247	5.85
Universities	2,840	2,901	2,889	2,871	1.10
Other 4-year institutions	4,514	4,754	4,852	4,845	7.35
2-year institutions	4,217	4,716	4,723	4,531	7.46
Public institutions	9,037	9,647	9,683	9,479	4.90
Universities	2,100	2,152	2,155	2,141	1.98
Other 4-year institutions	2,880	3,014	3,069	3,068	6.52
2-year institutions	4,057	4,481	4,459	4,270	5.25
Private institutions	2,533	2,725	2,782	2,768	9.27
Universities	740	749	734	730	-1.42
Other 4-year institutions	1,633	1,740	1,784	1,777	8.80
2-year institutions	160	236	264	261	'63.49

**Footnote** → Large percentage increase is due primarily to the addition of colleges accredited by the National Association of Trade and Technical Schools in 1980 and 1981

**Note** → NOTE.—Includes undergraduate, graduate, first-professional, and unclassified students

**Source** → SOURCE U.S. Department of Education, Center for Education Statistics, "Fall Enrollment in Colleges and Universities" surveys (This table was prepared July 1986)

**Footnote** Describes a unique circumstance relating to a specific item within the table. Usually listed below the bottom rule of the table.

**Note** Furnishes general information that relates to the entire table.

**Source** The document or reference from which the data are drawn. This note may also include the organizational unit responsible for preparing the data.

### **Descriptive Terms**

**Average** A number that is used to represent the "typical value" of a group of numbers. It is regarded as a measure of "location" or "central tendency" of a group of numbers.

**Arithmetic mean** is the most commonly used average. It is derived by summing the individual item values of a particular group and dividing that sum by the number of items. This value is often referred to simply as the "mean" or "average."

**Median** is the measure of central tendency that occupies the middle position in a rank order of values. It generally has the same number of items above it as below it. If there is an even number of items in the group, the median is the average of the middle two items.

**Per capita**, or per person, figure represents an average computed for every person in a specified group, or population. It is derived by dividing the total for an item (such as income or expenditures) by the number of persons in the specified population.

**Index number** A value that provides a means of measuring, summarizing, and communicating the nature of changes that occur from time to time or from place to place. An index is used to express changes in prices over periods of time but may also be used to express differ-

ences between related subjects at a single point in time. The *Digest* most often uses the Consumer Price Index to compare purchasing power over time.

To compute a price index, a base year or period is selected. The base year price is then designated as the base or reference price to which the prices for other years or periods are related.

A method of expressing the price relationship is:

Index number =

$$\frac{\text{Price of a set of one or more items for related year}}{\text{Price of the same set of items for base year}} \times 100$$

When 100 is subtracted from the index number, the result equals the percent change in price from the base year.

**Current and constant dollars** are used in a number of tables to express finance data. Unless otherwise noted, all figures are in current dollars, not adjusted for inflation. Constant dollars provide a measure of the impact of inflation on the current dollars.

**Current dollar** figures reflect actual prices or costs prevailing during the specified year(s).

**Constant dollar** figures attempt to remove the effects of price changes (inflation) from statistical series reported in dollar terms.

The constant dollar value for an item is derived by dividing the base year price index (for example, the Consumer Price Index for 1986) by the price index for the year of data to be adjusted and multiplying by the item to be adjusted. The result is an adjusted dollar value as it would presumably exist if prices were the same as the base year—in other words, as if the dollar had constant purchasing power. Any changes in the constant dollar amounts would reflect only changes in the real values.

# Guide to Sources

## Sources and Comparability of Data

The information presented in this report was obtained from many sources, including Federal and State agencies, private research organizations, and professional associations. The data were collected using many research methods, including surveys of a universe (such as all colleges) or of a sample, compilations of administrative records, and statistical projections. *Digest* users should take particular care when comparing data from different sources. Differences in procedures, timing, phrasing of questions, interviewer training, and so forth mean that the results from the different sources may not be strictly comparable. Following the general discussion of data accuracy below, descriptions of the information sources and data collection methods are presented, grouped by sponsoring organization. More extensive documentation of one survey's procedures than of another's does not imply more problems with the data, only that more information is available.

### Accuracy of Data

The accuracy of any statistic is determined by the joint effects of "sampling" and "nonsampling" errors. Estimates based on a sample will differ somewhat from the figures that would have been obtained if a complete census had been taken using the same survey instruments, instructions, and procedures. In addition to such sampling errors, all surveys, both universe and sample, are subject to design, reporting, and processing errors and errors due to nonresponse. To the extent possible, these nonsampling errors are kept to a minimum by methods built into the survey procedures. In general, however, the effects of nonsampling errors are more difficult to gauge than those produced by sampling variability.

### Sampling Errors

The samples used in surveys are one of a large number of all possible samples of the same size that could have been selected using the same sample design. Estimates derived from the different samples would differ from each other. The difference between a sample estimate and the average of all possible samples is called the sampling deviation. The standard or sampling error of a survey estimate is a measure of the variation among the estimates from all possible samples, and thus is a measure of the pre-

cision with which an estimate from a particular sample approximates the average result of all possible samples.

The sample estimate and an estimate of its standard error permit us to construct interval estimates with prescribed confidence that the interval includes the average result of all possible samples. If all possible samples were selected under essentially the same conditions and an estimate and its estimated standard error were calculated from each sample, then: 1) approximately 2/3 of the intervals from one standard error below the estimate to one standard error above the estimate would include the average value of all possible samples; and 2) approximately 19/20 of the intervals from two standard errors below the estimate to two standard errors above the estimate would include the average value of all possible samples. We call an interval from two standard errors below the estimate to two standard errors above the estimate a 95 percent confidence interval.

To illustrate this concept, consider the table of standard errors and 95 percent confidence intervals for estimates from the "1985 Survey of Public and Private School Libraries and Media Centers" sample (table A1, below). For the estimate that 93.5 percent of all schools have library programs, the table shows that the standard error is 0.54 percent. Therefore, we can create a 95 percent confidence interval which is approximately 92.4 to 94.6 (93.5 percent  $\pm$  2 times .54 percent).

Analysis of standard errors can help assess how valid a comparison between two estimates might be. The **standard error of a difference** between two sample estimates is approximately equal to the square root of the sum of the squared standard errors of the estimates. The standard error (se) of the difference between sample estimate "a" and sample estimate "b" is:

$$se_{a,b} = \sqrt{se_a^2 + se_b^2}$$

It should be noted that most of the standard errors presented in subsequent sections and in the original documents are approximations. That is, to denote estimates of standard errors that would be applicable to a wide variety of items and could be prepared at a

moderate cost, a number of approximations were required. As a result, most of the standard errors presented provide a general order of magnitude rather than the exact standard error for any specific item. The preceding discussion on sampling variability was directed toward a situation concerning one or two estimates. Determining the accuracy of statistical projections is more difficult. In general, the further away the projection date is from the date of the actual data being used for the projection, the greater the probable error in the projections. If, for instance, annual data from 1970 to 1988 are being used to project enrollment in institutions of higher education, the further beyond 1989 one projects, the more variability in the projection. One will be less sure of the 1995 enrollment projection than of the 1990 projection. A detailed discussion of the projections methodology is contained in *Projections of Education Statistics to 2000* (National Center for Education Statistics, 1989).

## Nonsampling Errors

Universe and sample surveys are subject to nonsampling errors. Nonsampling errors are of two kinds—random and nonrandom. Random nonsampling errors may arise when respondents or interviewers interpret questions differently, when respondents must estimate values, or when coders, keyers, and other processors handle answers differently. Random nonresponse errors usually, but not always, result in an understatement of sampling errors and thus an overstatement of the precision of survey estimates. Since estimating the magnitude of nonsampling errors would require special experiments or access to independent data, these magnitudes are seldom available.

Nonrandom nonsampling errors include total nonresponse (no usable data obtained for a sampled unit), partial or item nonresponse (only a portion of a response may be usable), and inability or unwillingness on the part of respondents to provide correct information. To compensate for one type of nonrandom error—nonresponse—adjustments of the sample estimates are often made. For example, adjustments are frequently made for nonresponse, both total and partial. An adjustment made for either type of nonresponse is often referred to as an imputation—substitution of the “average” questionnaire response for the nonresponse. Imputations are usually made separately within various groups of sample members which have similar survey characteristics. Imputation for item nonresponse is usually made by substituting for a missing item the response to that item of a respondent having characteristics that are similar to those of the nonrespondent.

Although the magnitude of nonsampling error in the data collected in this *Digest* is frequently unknown, idiosyncrasies which have been identified are noted on the appropriate tables.

## Federal Agency Sources

### National Center for Education Statistics (NCES)

#### *Common Core of Data*

NCES uses the Common Core of Data (CCD) survey to acquire and maintain statistical data on the 50 States, the District of Columbia, and the outlying areas from the universe of State-level education agencies. Information about staff and students is collected annually at the school, LEA (local education agency or school district), and State levels. Information about revenues and expenditures is also collected at the State level.

Data are collected for a particular school year (July 1 through June 30) via survey instruments sent to the States by October 15 of the subsequent school year. States have 2 years in which to modify the data originally submitted.

Since the CCD is a universe survey, the CCD information presented in this edition of the *Digest* is not subject to sampling errors. However, nonsampling errors could come from two sources—nonreturn and inaccurate reporting. Almost all of the States submit the six CCD survey instruments each year, but submissions are sometimes incomplete or too late for publication.

Understandably, when 57 education agencies compile and submit data for over 85,000 public schools and approximately 15,000 local school districts, misreporting can occur. Typically, this results from varying interpretation of NCES definitions and differing recordkeeping systems. NCES attempts to minimize these errors by working closely with the Council of Chief State School Officers (CCSSO) and its Committee on Evaluation and Information Systems (CEIS).

The State education agencies report data to NCES from data collected and edited in their regular reporting cycles. NCES encourages the agencies to incorporate into their own survey systems the NCES items they do not already collect so that those items will also be available for the subsequent CCD survey. Over time, this has meant fewer missing data cells in each State's response, reducing the need to impute data.

NCES subjects data from the education agencies to a comprehensive edit. Where data are determined to be inconsistent, missing, or out of range, NCES contacts the education agencies for verification. NCES-prepared State summary forms are returned

to the State education agencies for verification. States are also given an opportunity to revise their State-level aggregates from the previous survey cycle. Questions concerning the Common Core of Data can be directed to:

George Wade  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

### **Federal Funds for Education**

The National Center for Education Statistics prepares an annual compilation of Federal funds for education. Data for U.S. Department of Education program totals came from the *Appendix to the Budget of the U.S. Government*. Budget offices of other Federal agencies provided information for all other Federal program support except for research funds, which are obligations reported by the National Science Foundation in *Federal Funds for Research and Development*, fiscal years 1980 to 1989. Some data are estimated, based on reports from the Federal agencies contacted and the *Appendix to the Budget of the U.S. Government, 1990*.

Except for money spent on research, outlays were used to report program funds to the extent possible. Some tables are obligations as noted in the title of the table. Some Federal program funds not commonly recognized as education assistance are also included in the totals reported. For example, portions of Federal funds paid to some States and counties as shared revenues resulting from the sale of timber and minerals from public lands have been estimated as funds used for education purposes. Parts of the funds received by States and localities under the General Revenue Sharing Program are also included, as are portions of Federal funds received by the District of Columbia. The share of these funds allocated to education was assumed equal to the share of general funds expended for elementary and secondary education by States and localities in the same year as reported by the U.S. Bureau of the Census in its annual publication, *Governmental Finances*.

All State intergovernmental expenditures for education were assumed earmarked for elementary/secondary education. Contributions of parent governments of dependent school systems to their public schools amounted to approximately 9 percent of local government revenues and local government revenue sharing in each year. Therefore, 9 percent of local government revenue-sharing funds were assumed allocated each fiscal year to elementary and secondary education. Parent government contribu-

tions to public school systems were obtained from the U.S. Bureau of the Census, *Finances of Public School Systems*. The amount of State revenue-sharing funds allocated for postsecondary education in 1975 and 1980 was assumed to be 13 percent, the proportion of direct State expenditures for institutions of higher education reported in *Governmental Finances* for both years.

The share of Federal funds for the District of Columbia assigned to education was assumed equal to the share of the city's general fund expenditures for each level of education.

For the job training programs conducted by the Department of Labor, only estimated sums spent on classroom training have been reported as educational program support.

During the 1970s, the Office of Management and Budget (OMB) prepared annual reports on Federal education program support. These were published in *Budget of the United States Government [Special Analyses]*. The information presented in this report is not, however, a continuation of the OMB series. A number of differences in the two series should be noted. OMB required all Federal agencies to report outlays for education-related programs using a standardized form, thereby assuring agency compliance in reporting. The scope of education programs reported here differs from OMB. Off-budget items such as the annual volume of guaranteed student loans were not included in OMB's reports. Finally, while some mention is made of an annual estimate of Federal tax expenditures, OMB did not include them in its annual analysis of Federal education support. Estimated Federal tax expenditures for education are the difference between current Federal tax receipts and what these receipts would be without existing education deductions to income allowed by Federal tax provisions.

Recipients' data are estimated based on *Estimating Federal Funds for Education: A New Approach Applied to Fiscal Year 1980*, U.S. Department of Education, "Federal Support for Education, Fiscal Years 1980 to 1984," and *Catalog of Federal Domestic Assistance*. The recipients' data are estimated and tend to undercount institutions of higher education (IHEs), students, and local education agencies (LEAs). This is because some of the Federal programs have more than one recipient receiving funds. In these cases the recipients were put into a "mixed recipients" category, because there was no way to disaggregate the amount each recipient received.

### **High School and Beyond**

High School and Beyond (HSB) is a national longitudinal survey of 1980 high school sophomores and



seniors. The base-year survey was a probability sample of 1,015 high schools with a target number of 36 sophomores and 36 seniors in each of the schools. A total of 58,270 students participated in the base-year survey. Substitutions were made for noncooperating schools—but not for students—in those strata where it was possible. Overall, 1,122 schools were selected in the original sample and 811 of these schools participated in the survey. An additional 204 schools were drawn in a replacement sample. Student refusals and student absences resulted in an 82 percent completion rate for the survey.

Several small groups in the population were oversampled to allow for special study of certain types of schools and students. Students completed questionnaires and took a battery of cognitive tests. In addition, a sample of parents of sophomores and seniors (about 3,600 for each cohort) was surveyed.

HSB first followup activities took place in the spring of 1982. The sample design of the first followup survey called for the selection of approximately 30,000 persons who were sophomores in 1980. The completion rate for sophomores eligible for on-campus survey administration was about 96 percent. About 89 percent of the students who left school between the base year and first followup surveys (dropouts, transfer students, and early graduates) completed the first followup sophomore questionnaire.

As part of the first followup survey of High School and Beyond, transcripts were requested in fall 1982 for an 18,152-member subsample of the sophomore cohort. Of the 15,941 transcripts actually obtained, 1,969 were excluded because the students had dropped out of school before graduation, 799 were excluded because they were incomplete, and 1,057 were excluded because the student graduated before 1982 or the transcript indicated neither a dropout status nor graduation. Thus 12,116 transcripts were utilized for the overall curriculum analysis presented in this publication. All courses in each transcript were assigned a six-digit code based on *A Classification of Secondary School Courses* (developed by Evaluation Technologies, Inc. under contract with NCES). Credits earned in each course were expressed in Carnegie units. (The Carnegie unit is a standard of measurement that represents one credit for the completion of a 1-year course. To receive credit for a course, the student must have received a passing grade—"pass," "D," or higher.) Students who transferred from public to private schools or from private to public schools between their sophomore and senior years were eliminated from public/private analyses.

In designing the senior cohort first followup survey, one of the goals was to reduce the size of the retained sample, while still keeping sufficient numbers

of minorities to allow important policy analyses. A total of 11,227 (94 percent) of the 11,995 persons subsampled completed the questionnaire. Information was obtained about the respondents' school and employment experiences, family status, and attitudes and plans.

The sample for the second followup, which took place in spring 1984, consisted of about 12,000 members of the senior cohort and about 15,000 members of the sophomore cohort. The completion rate for the senior cohort was 91 percent, and the completion rate for the sophomore cohort was 92 percent.

HSB third followup data collection activities were performed in spring of 1986. Both the sophomore and senior cohort samples for this round of data collection were the same as those used for the second followup survey. The completion rates for the sophomore and senior cohort samples were 91 percent and 88 percent, respectively.

Table A2 contains the maximum number of cases that are available for the tabulations of the specific classification variables used throughout this publication.

The standard error (se) of an individual percentage (p) based on HSB data can be approximated by the formula

$$se_p = DEFT \sqrt{p(100-p)/n}$$

where  $n$  is the sample size and DEFT, the design effect, is a factor used to adjust for the particular sample design used in HSB. Table A3 provides the DEFT factors for different HSB samples and subsamples.

In evaluating a difference between two percentages, the standard error of the difference may be conservatively approximated by taking the square root of the sum of the squared standard errors of the two percentages. For example, in the 1986 followup of 1980 sophomores, 84.0 percent of the men and 77.2 percent of the women felt that being successful in work was "very important," a difference of 6.8 percentage points. Using the formula and the sample sizes from table A2 and the DEFT factors from table A3, the standard errors of the two percentages being compared are calculated to be:

$$1.43 \sqrt{(84.0)(16.0)/5,391} = .714$$

$$1.43 \sqrt{(77.2)(22.8)/5,857} = .784$$

The standard error of the difference is therefore

$$\sqrt{.714^2 + .784^2} = \sqrt{.510 + .615} = 1.06$$

The sampling error (95 chances in 100) of the difference is approximately double the standard error, or approximately 2.1 percentage points, and the 95 percent confidence interval for the difference is  $6.8 \pm 2.1$ , or 4.7 to 8.9 percentage points.

The standard error estimation procedure outlined above does not compensate for survey item nonresponse, which is a source of nonsampling error. (Table A2 reflects the maximum number of responses that could be tabulated by demographic characteristic.) For example, of the 10,925 respondents in the 1984 followup survey of 1980 high school graduates, 372, or 3.4 percent, did not respond to the particular question on whether they had ever used a pocket calculator. Item nonresponse varied considerably. A very low nonresponse rate of 0.1 percent was obtained for a question asking whether the respondent had attended a postsecondary institution. A much higher item nonresponse rate of 12.2 percent was obtained for a question asking if the respondent had used a micro or minicomputer in high school. Typical item nonresponse rates ranged from 3 to 4 percent.

The Hispanic analyses presented in this report relied on students' self identification as members of one of four Hispanic subgroups: Mexican, Mexican-American, Chicano; Cuban, Cubano; Puerto-Rican, Puertorriqueno, or Boricua; or other Latin American, Latino, Hispanic, or Spanish descent.

An NCES series of technical reports and data file users manuals provides additional information on the survey methodology.

Further information on the High School and Beyond survey may be obtained from:

Paula Knepper  
Elementary/Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

### ***1987 High School Transcript Study***

Transcripts of 1987 high school graduates were compared with transcripts of 1982 graduates to describe changes in course taking across this 5-year period. The analyses were based on approximately 22,700 transcripts of 1987 graduates selected for the National Assessment of Educational Progress (NAEP), and 12,000 transcripts of 1982 graduates who participated in the High School and Beyond study (see corresponding source note above in this appendix).

The sample of schools for the 1987 High School Transcript Study consisted of a nationally representative sample of 471 eligible secondary schools selected for the 1986 NAEP for grade 11 students, of which 433 schools participated. Only those students

who graduated from high school were selected from both studies. Handicapped students (those students receiving special education) were not included.

Further information can be obtained from:

Andrew Kolstad  
Elementary/Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

### ***Integrated Postsecondary Education Data System***

The Integrated Postsecondary Education Data System (IPEDS) surveys all postsecondary institutions, including universities and colleges, as well as institutions offering technical and vocational education beyond the high school level. This survey, which began in 1986, will replace and supplement the previous one, the Higher Education General Information Survey (HEGIS). For a full description of the various programs contained in IPEDS, the reader is referred to a discussion of the various HEGIS programs outlined below. The following section is a brief overview of the IPEDS program.

The IPEDS consists of several integrated components that obtain information on who provides postsecondary education (institutions), who participates in it and completes it (students), what programs are offered and what programs are completed, and the resources involved in the provision of institutionally based postsecondary education, both human resources and financial resources. Specifically, these components include: institutional characteristics, including institutional activity; fall enrollment, including age and residence; fall enrollment in occupationally specific programs; completions; finance; staff; salaries of full-time instructional faculty; and academic libraries.

The higher education portion of this survey is a census of all education institutions. However, data from the other technical and vocational institutions are collected through a sample survey. Thus, some portions of the data will be subject to sampling and nonsampling errors, while some portions will be subject only to nonsampling errors. The tabulations on institutional characteristics developed for this edition of the *Digest* are based on lists of all institutions and are not subject to sampling errors.

Further information on IPEDS may be obtained from:

William Freund  
Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652

### **Higher Education General Information Survey**

The Higher Education General Information Survey (HEGIS) was a coordinated effort administered by NCES which acquired and maintained statistical data on the characteristics and operations of institutions of higher education. Implemented in 1966, HEGIS was an annual universe survey of institutions listed in the latest NCES *Education Directory, Colleges and Universities*. It has since been replaced by the Integrated Postsecondary Education Data System (see above).

The information presented in this report drew on HEGIS surveys which solicited information concerning institutional characteristics, faculty salaries, finances, enrollment, and degrees. Since these surveys were distributed to all higher education institutions, the data presented were not subject to sampling error. However, they were subject to nonsampling error, the sources of which varied with the survey instrument. Each survey is therefore discussed separately. Information concerning the nonsampling error of the enrollment and degrees surveys draws extensively on the "HEGIS Post-Survey Validator Study" conducted in 1979.

#### ***Institutional Characteristics of Colleges and Universities***

This survey provided the basis for the universe of institutions presented in the *Education Directory, Colleges and Universities*, and it was used in all other HEGIS data collection activities. The universe comprised institutions that offer at least a 1-year program of college-level studies leading toward a degree and that met certain accreditation criteria. In the fall, institutions included in the *Directory* the previous year received a computer printout of their information to update. All institutions reported were certified as eligible to be listed by the Division of Eligibility and Agency Evaluation within the U.S. Department of Education.

#### ***Opening Fall Enrollment in Colleges and Universities***

This survey was part of the HEGIS series since its development. The enrollment survey response rate was relatively high; the 1985 response rate was 92 percent. Major sources of nonsampling error for this survey were classification problems, the unavailability of needed data, interpretation of definitions, the survey due date, and operational errors. Of these, the classification of students appears to have been the main source of error. Institutions had problems in correctly classifying first-time freshmen, other first-time students, and unclassified students for both full-time and part-time categories. These problems occurred most often at 2-year institutions (private and

public) and private 4-year institutions. In 1977-78, the classification problem led to an estimated overcount of 11,000 full-time students and an undercount of 19,000 part-time students. Although the ratio of error to the grand total was quite small (less than 1 percent), the percentage of errors was as high as 5 percent for detailed student levels and even higher at certain aggregation levels.

Beginning with fall 1986, the survey system was redesigned with the introduction of the Integrated Postsecondary Education Data System (IPEDS) (see above). The new survey system comprises all postsecondary institutions, but also maintains comparability with earlier surveys by allowing HEGIS institutions to be tabulated separately. The new system also provides for preliminary and revised data releases. This allows the Center flexibility to release early data sets while still maintaining a more accurate final data base.

#### ***Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty***

This survey has been conducted for most years from 1966-67 to 1987-88. Although the survey form was changed a number of times during those years, only comparable data are presented in this report. The data were collected from the individual colleges and universities.

This survey differed from other HEGIS surveys in that imputations were not made for nonrespondents. Thus, there is some possibility that the salary averages presented in this report may differ from the results of a complete enumeration of all colleges and universities. The response rate for the 1984-85 survey was 86.3 percent. The response rate for public colleges was substantially higher than the response rate for private colleges. It is probable that the public colleges' salary data were more accurate than the data for private colleges. Other sources of nonsampling error included computational errors and misclassification in reporting and processing. NCES checked individual colleges' data for internal and longitudinal consistency and contacted the colleges to check inconsistent data.

#### ***Earned Degrees Conferred***

This survey was part of the HEGIS series throughout its existence. However, the degree classification taxonomy was revised in 1970-71 and 1982-83.

Though information from survey years 1970-71 through 1981-82 is directly comparable, care must be taken if information before or after that period is included in any comparison. Degrees-conferred trend tables arranged by the 1982-83 classification were added to the *Digest* to provide consistent data from 1970-71 to 1983-84. Data in this edition on associ-

ate and other formal awards below the baccalaureate, by field of study, are not comparable with figures for earlier years. The nonresponse rate did not appear to be a significant source of nonsampling error for this survey. The return rate over the years was extremely high, with the response rate for the 1983-84 survey at 95 percent. Because of the high return rate, nonsampling error caused by imputation was also minimal.

The major sources of nonsampling error for this survey were differences between the HEGIS program taxonomy and taxonomies used by the colleges, classification of double majors and double degrees, operational problems, and survey timing. In the 1979 validation study, these sources of nonsampling were found to contribute to an error rate of 0.3 percent overreporting of bachelor's degrees and 1.3 percent overreporting of master's degrees. The differences, however, varied greatly among fields. Over 50 percent of the fields selected for the validation study had no errors identified. Categories of fields that had large differences were business and management, education, engineering, letters, and psychology. It was also shown that differences in proportion to the published figures were less than 1 percent for most of the selected fields that had some errors. Exceptions to these were: master's and Ph.D. programs in labor and industrial relations (20 percent and 8 percent); bachelors's and master's programs in art education (3 percent and 4 percent); bachelor's and Ph.D. programs in business and commerce, and in distributive education (5 percent and 9 percent); master's programs in philosophy (8 percent); and Ph.D. programs in psychology (11 percent).

#### ***Financial Statistics of Institutions of Higher Education***

This survey was part of the HEGIS series throughout its existence. A number of changes were made in the financial survey instruments in 1975. In 1982 another change was made to include Pell Grants in Federal restricted grants and contracts revenues and restricted scholarships and fellowships expenditures. While these changes were significant, only comparable information on trends is presented in this report, except where noted. Finance tables for this publication have been adjusted by subtracting the Pell Grant amounts from the later data to maintain comparability with pre-1982 data.

Other possible sources of nonsampling error in the financial statistics were nonresponse, imputation, and misclassification. The response rate has been over 90 percent for most of the years reported. The response rate for the latest (fiscal year 1985) survey was 87.6 percent.

Two general methods of imputation were used. If the prior year's data were available for a nonre-

sponding institution, these data were inflated using the Higher Education Price Index and adjusted according to changes in enrollments. If no previous year's data were available, current data were used from peer institutions selected for location (State or region), control, level, and enrollment size of institution. For the most recent years reported, the imputation method did not include the adjustment for changes in enrollments, and new institutions which never reported to HEGIS surveys were not imputed. For the fiscal year 1985 survey, survey forms were mailed to 3,379 institutions. Reports were received from 2,959 institutions, and data for 370 institutions were estimated based on their fiscal year 1984 reports inflated by the Higher Education Price Index. The remaining 50 institutions were not imputed because they had never responded to HEGIS surveys. The imputed current-fund expenditures of the nonrespondents were generally less than 3 percent of the aggregate U.S. total.

To reduce reporting error, NCES used national standards for reporting finance statistics. These standards are contained in *Colleges and University Business Administration: Administrative Services (1974 Edition)*, published by the National Association of College and University Business Officers; *Audits of Colleges and Universities* (as amended August 31, 1974), by the American Institute of Certified Public Accountants; and *HEGIS Financial Reporting Guide (1980)*, by NCES. Wherever possible, definitions and formats in the survey form are consistent with those in these three accounting texts.

Questions concerning the surveys used as data sources for this report or other questions concerning HEGIS can be directed to:

Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652

#### ***National Assessment of Educational Progress***

The National Assessment of Educational Progress (NAEP) is a cross-sectional study designed and initially implemented in 1969. NAEP has gathered information about selected levels of educational achievement across the country. NAEP has surveyed the educational attainments of 9-, 13-, and 17-year-olds and young adults (ages 25-35) in 10 learning areas. Different learning areas have been assessed periodically, and all areas have been reassessed in order to measure possible changes in educational achievement.

The reading assessment presented in this publication was designed by the Education Commission of the States and conducted by the Educational Testing Service. Multistage probability samples were used.

The primary sampling units were stratified by region and, within region, by State, size of community, and, for the two smaller sizes of community strata, by socioeconomic level. Assessment exercises were administered either to individuals or to small groups of students by specially trained personnel.

Sample sizes for the reading proficiency portion of the 1983-84 NAEP study were 22,291 for the 9-year-olds, 22,693 for the 13-year-olds, and 25,193 for the 17-year-olds. Response rates were 92 percent, 90 percent, and 82 percent, respectively. Response rates for earlier years (1970-71, 1974-75, and 1979-80) were generally lower. For example, the lowest response rate for the 9-year-olds was 88 percent in 1974-75, and the lowest response rate over all was 70 percent for the 17-year-olds in 1974-75. Data on standard errors are provided in table A4.

The 1985-86 NAEP literature and U.S. history assessment data in this report are based on a nationally representative sample of nearly 8,000 eleventh graders.

The 1985-86 NAEP reading assessment was administered to a nationally representative sample of students in grades 3, 7, and 11 attending public and private schools across the Nation. Nearly 36,000 students participated. The results were based on 9,793 students at grade 3; 9,513 students at grade 7; and 16,510 students at grade 11.

The 1985-86 NAEP mathematics assessment was administered to 6,932 students age 9, 6,200 students age 13, and 3,868 students still in school at age 17. The 1985-86 NAEP science assessment was administered to 6,932 students age 9, 6,200 students age 13, and 3,860 students still enrolled in school at age 17.

The literacy assessment data used in this report are based on a nationally representative household sample of 21- to 25-year-olds. Blacks and Hispanics were oversampled to allow samples of sufficient size for reliable results. A total of 38,400 households were screened to locate 4,494 potential respondents. (No more than one person was surveyed from any one household.) Of the potential respondents, 3,618 young adults participated, resulting in a response rate of 80 percent. Table A5 contains standard errors for selected estimates.

The 1983-84 NAEP writing assessment used a stratified, three-stage sampling design. The first stage was counties (or aggregates of counties). The second stage was schools, and the third stage involved selecting students within the schools at random. The 1983-84 assessment included 24,437 students at age 9, 26,228 students at age 13, and 28,992 students at age 17.

Beginning in 1983-84, NAEP began sampling students by grade level as well as by age. The sample from which national writing assessment data were

gathered included 14,047 students at grade 4, 21,850 students at grade 8, and 22,865 students at grade 11. Student response rates for grades 4, 8, and 11 were 91.3 percent, 87.3 percent, and 82.8 percent, respectively. Table A6 contains standard errors for selected estimates.

Students at each grade level/age were asked to complete from one to four different writing tasks out of a total of 15 tasks. The tasks were designed to assess a range of writing skills, including informative, persuasive, and imaginative writing. Each task was administered to a nationally probability sample of about 2,000 students.

Information from NAEP is subject to both nonsampling and sampling error. Two possible sources of nonsampling error are nonparticipation and instrumentation. Certain populations have been oversampled to assure samples of sufficient size for analysis. Instrumentation nonsampling error could result from failure of the NAEP assessment instruments to measure what is being taught and in turn what is being learned by the students. Standard errors for NAEP writing scale scores are presented in table A5.

For further information on NAEP, contact:

Eugene Owen  
Elementary/Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

***National Education Longitudinal Study of 1988***

The National Educational Longitudinal Study of 1988 (NELS:88) is the third major longitudinal study sponsored by the National Center for Education Statistics. The two studies that preceded NELS:88, the National Longitudinal Study of the High School Class of 1972 (NLS-72), and High School and Beyond (HS&B) surveyed high school seniors (and sophomores in HS&B), through high school, postsecondary education, and work and family formation experiences. Unlike its predecessors though, NELS:88 begins with a cohort of eighth-grade students. In 1988, some 26,000 eighth graders, their parents, their teachers, and their school principals were surveyed. The first followup will revisit the same sample of students in 1990, when they are in the tenth grade.

NELS:88 is designed to provide trend data about critical transitions experienced by young people as they develop, attend school, and embark on their careers. It will complement and strengthen State and local efforts by furnishing new information on how school policies, teacher practices, and family involvement affect student educational outcomes (i.e., academic achievement, persistence in school, and par-

ticipation in postsecondary education). For the base-year, NELS:88 is a multi-faceted study questionnaire and four cognitive tests, a parent questionnaire, a teacher questionnaire, and a school questionnaire.

Designed to insure that private schools, rural schools, and schools with high minority membership were adequately represented, sampling was first conducted at the school level and then at the student level within schools. Additionally, oversamples of students with Hispanic and Asian or Pacific Island heritage were drawn. The data represented in this edition of the *Digest* are drawn from a nationally representative sample of 1,000 schools (800 public schools; and 200 private schools, including parochial institutions). Within this school sample, 26,000 eighth-grade students were selected at random. Followups to this survey are to be conducted every 2 years, with the first followup occurring in 1990.

Further information about the NELS:88 survey can be obtained from:

Jeffrey Owings  
Elementary and Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

#### ***National Longitudinal Study***

The National Longitudinal Study (NLS) of the high school class of 1972 began with the collection of base-year survey data from a sample of about 19,000 high school seniors in spring of 1972. Five more followup surveys of these students were conducted in 1973, 1974, 1976, 1979, and 1986. The NLS was designed to provide the education community with information on the transitions of young adults from high school through postsecondary education and the workplace.

The sample design for the NLS is a stratified, two-stage probability sample of students from all schools, public and private, in the 50 States and the District of Columbia with a 12th-grade enrollment during the 1971-72 school year. During the first stage of sampling, about 1,070 schools were selected for participation in the base-year survey. As many as 18 students were selected at random from each of the sample schools. Both the size of the school and student samples were increased during the first followup survey. Beginning with the first followup and continuing through the fourth followup, about 1,300 schools participated in the survey and slightly under 23,500 students were sampled. The response rates for each of the different rounds of data collection have been 80 percent or higher.

Sample retention rates across the survey years have been quite high. For example, of the individuals responding to the base-year questionnaire, the per-

centages who responded to the first, second, third, and fourth followup questionnaires were about 94, 93, 89, and 83 percent, respectively.

Approximate standard errors for the percentage estimates based on NLS data reported in this publication may be estimated by the formula

$$se_p = DEFT \sqrt{p(100-p)/n}$$

where  $p$  is the estimated percentage and  $n$  is the sample size. DEFT is the root design effect factor used to adjust for the sample design used in NLS. For the first, second, and third followup surveys, the root design effect adjustment factors are 1.18, 1.16, and 1.20. Standard errors for the fourth followup survey data are adjusted by a generalized design effect factor of 1.20. Table A7 lists the approximate respondent counts for the classification variables used in this year's *Digest*. Table A8 gives examples of the approximate standard errors of percentage estimates based on the fourth followup survey for different sample sizes.

Further information may be obtained from:

Carl Schmitt  
Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652

#### ***National Postsecondary Student Aid Study***

The National Center for Education Statistics conducted the National Postsecondary Student Aid Study (NPSAS) for the first time during the 1986-87 school year. This survey established the first comprehensive student financial aid database. Data were gathered from 1,074 postsecondary institutions and approximately 60,000 students and 24,000 parents. These data provided information on the cost of postsecondary education, the distribution of financial aid, and characteristics of both aided and non-aided students and their families. The survey also provided data on the distribution of financial aid, the nature of aid packages, and a profile of both aided and non-aided students.

In response to the continuing need for these data, NCES will conduct the second cycle of NPSAS for the 1989-90 school year. In addition to replicating the earlier study, the 1990 NPSAS will contain enhancements to the 1987 methodology that will fully meet the data needs of the financial aid community and of policymakers. Included also will be a general measure of ability level (e.g., SAT, ACT) for each first-time student sampled.

The 1990 in-school sample will involve about 70,000 students selected from registrar lists of en-

rollees at 1,200 postsecondary institutions. The sample will include both aided and non-aided students. Student information such as field of study, education level, and attendance status (part-time or full-time) will be obtained from registrar records. Types and amounts of financial aid and family financial characteristics will be abstracted from school financial aid records. Also, approximately 26,000 parents of students will be sampled. Data concerning family composition and parent financial characteristics will be compiled. Followup data collections are expected at 2-year intervals. Students enrolled in postsecondary education for the first time in 1990 will serve as the base for the longitudinal component of NPSAS.

Further information may be obtained from:

Sandra Garcia or Gerald Malitz  
Postsecondary Education and Statistics Division  
National Center for Educational Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652

#### ***Survey on Principal's Perceptions of Academic Reform***

This sample survey used the NCES Fast Response Survey System (FRSS), which is designed to gather timely information for policymakers. In October 1987, questionnaires were mailed to a national probability sample of 930 public high schools from a universe of approximately 14,500. A public high school was defined as any regular public school with a principal, enrollment in grade 12, and no pupils below grade 7. Questionnaires were completed by the high school principal. Data collection was completed in December with a response rate of 98 percent.

The sampling frame used for the survey was the 1985-86 Common Core of Data Universe of Public School Systems. States were classified by patterns of academic reforms, each of which might be present or absent, giving 64 patterns. Six possible reforms were examined. Twenty-seven patterns occurred and each of the 27 was used as a stratum. The survey data were weighted using the universe of the probability of selection as the weights, and were adjusted for nonresponse. Since the estimates were obtained from a sample of districts, they are subject to sampling variability. Estimates of standard errors for the estimates were computed using a replication technique known as jackknife replication. This survey is also subject to nonsampling error which can occur from a variety of sources such as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. Considerable effort was made to eliminate

these biases. Thus, it appears unlikely that nonsampling errors severely biased the data from this survey.

For more information about this survey, contact:

Helen Ashwick  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

#### ***1985-86 Private School Survey***

The 1985-86 Private School Survey was based on the sampling system developed for the 1983 Private School Survey. The "1983 Private School Survey" was carried out in two parts, one based on a "list" frame and one based on an "area" frame. The area frame was used under the assumption that the lists available to NCES were not comprehensive and that list-building techniques applied to a sample of census areas would reveal some additional private schools. NCES started with the most complete list available, comprising some 21,000 schools, and updated it in 1983, based on review of new directories and other published sources. This effort resulted in a list of just under 27,000 schools. This frame was then stratified into 12 strata based on various combinations of religious affiliation and school level. A systematic sample of 1,320 schools was selected with probabilities equal to the square root of the enrollment of the school divided by the sum of the square roots of enrollment for all of the schools in the stratum. Inflating this sample provided an estimated universe, which was subsequently reduced by removing the estimated numbers of duplicates, nonrespondents, coding errors, and ineligible. The final estimated list universe of schools was 21,710. The response rate for the list sample was 91 percent (1,074 of 1,176 schools), and the response rate for the area sample was 81 percent (733 of 901 schools).

For the area sample, the basic frame was a list of all counties reported from the 1980 census, adjusted so that independent cities were treated as counties and smaller counties were combined with other contiguous counties. This produced a list of 2,497 sampling units. These sampling units were stratified according to census region, in or out of a Standard Metropolitan Statistical Area (SMSA), and above or below the median private school enrollment for that region and SMSA status, yielding 16 strata. The final sample was a systematic one comprising 75 sampling units, 8 of which were drawn with certainty based upon populations exceeding 1.7 million in the 1980 census. The remaining units were selected with

probabilities proportionate to the square root of the population of the unit within the stratum.

For each of the sampling units in the area design, schools not overlapping with the list-frame schools were sought by reviewing directories of various types (e.g., private school organizations, telephone) and by telephoning officials, churches, chambers of commerce, and selected vendors, such as milk companies. This search produced 901 schools which met NCES criteria for functioning private schools. When weighted, these data inflated to approximately 6,000 schools nationally. Since the area frame was designed not to overlap with the list frame, results for the area sample were combined with those for the list sample.

A followup survey was conducted in 1985. The schools within the sampling areas were drawn from the lists of schools created in the same sample areas from the "1983 Private School Survey." Since the lists were not updated, schools established after 1983 were not generally eligible for sampling. The estimates for the 1985-86 study are valid for schools that were in existence in 1983. Some of the estimates contain extrapolations for newly established schools, based on assumptions made from the 1983 survey data:

During the fall of 1985, the principal of each sampled school was contacted to obtain the school's participation in the study and to sample up to 10 teachers at the school. During January 1986, questionnaires were mailed to schools and teachers. Followup for questionnaire and item nonresponse was conducted during the spring of 1986. Imputations were made for item nonresponse. Of the 1,387 eligible schools, 1,174 responded (85 percent). A total of 5,295 teacher questionnaires were completed, for a teacher response rate of 76 percent.

Additional information is available from:

Marilyn McMillen  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

### ***Projections of Education Statistics***

Since 1964, NCES has published projections of key statistics for elementary and secondary schools and institutions of higher education. These projections include statistics such as enrollments, instructional staff, graduates and earned degrees. The *Projections* reports include several alternative projection series and a methodology section describing the techniques and assumptions used to prepare them. Data in this edition of the *Digest* reflect the intermediate projection series only.

Differences between the reported and projected values are, of course, almost inevitable. An evaluation of past projections revealed that, at the elementary and secondary level, projections of enrollments have been quite accurate: mean absolute percentage differences for enrollment were less than 1 percent for projections from 1 to 5 years in the future, while those for teachers were less than 4 percent. At the higher education level, projections of enrollment have been fairly accurate: mean absolute percentage differences were 5 percent or less for projections from 1 to 5 years into the future.

Since projections of time series are subject to errors both by the nature of statistics and the properties of projection methodologies, users are cautioned not to place too much confidence in the numerical values of the projections. Important, but unforeseeable, economic and social changes may lead to differences, particularly at the higher education level. Rather, projections are to be considered as indicators of broad trends.

For further information about projection methodology and accuracy, contact:

Debra E. Gerald  
Crosscutting Education Statistics and Analysis  
Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5650

### ***1985 Survey of Public and Private School Libraries and Media Centers***

Statistics of public school libraries have been collected periodically since 1958. Prior to 1985, the last survey was conducted in 1978. The 1978 survey form was substantially revised for the 1985 data collection, based on consultations with various associations and individuals, including the American Library Association and the American Association of School Librarians. This sample survey was conducted under contract to NCES. The survey forms were mailed to a nationally representative sample of 4,500 public schools in the fall of 1985 and to a sample of 1,700 private schools in January of 1986. Data collection continued throughout the 1985-86 school year until a response rate of 92 percent for public schools and 85 percent for private schools was attained.

Estimates in the library survey tables are based on samples and are subject to sampling variability. Caution should be exercised in interpreting figures based on a relatively small number of cases. Although the standard errors are quite low for most of the national statistics, they can be substantial when comparing data from State to State. In a number of States, budgets restricted sample sizes to 75. Table A1 gives standard errors for several representative sta-



tistics. For example, the national estimate of per pupil expenditures for books is \$6.24, and the standard error is \$.15. The chances are thus 95 out of 100 that the result from a complete census would differ from the estimate by less than \$.30 (1.96 times the standard error). The 95 percent confidence interval is thus \$5.94 to \$6.54.

Additional information on these school library studies is available from:

Jeffrey Williams  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

### ***Survey of Recent College Graduates***

NCES has conducted periodic surveys of persons, about 1 year after graduation, to collect information on college outcomes. The Recent College Graduates surveys have concentrated on those graduates entering the teaching profession. To obtain accurate results on this subgroup, graduates who are newly qualified to teach have been oversampled in each of the surveys. The survey involves a two-stage sampling procedure. First, a sample of institutions awarding bachelor's and master's degrees is selected and stratified by percentage of education graduates, control, and geographic region. Then, for each of the selected institutions, a sample of degree recipients is chosen. The response rates on the Recent College Graduates survey have tended to be low because of the great difficulty in tracing the students after graduation. Much more of the nonresponse can be attributed to invalid mailing addresses than to refusals to participate. Despite their shortcomings, the data are presented in this report because they provide valuable information not available elsewhere about college outcomes. Users should be cautious about drawing conclusions based on data from small samples. It is also likely that the data are somewhat biased since the more mobile students, such as graduate students, are the most difficult to track for the survey.

The 1976 survey of 1974-75 college graduates was the first and smallest of the series. The sample consisted of 209 schools, of which 200 (96 percent) responded. Of the 5,506 graduates in the sample, 4,350 responded, for a response rate of 79 percent.

The 1981 survey was somewhat larger, with a coverage of 301 institutions and 15,852 graduates. Responses were obtained from 286 institutions, for an institutional response rate of 95 percent, and from 9,312 graduates (716 others were determined to be out of scope), for a response rate of 62 percent.

The 1985 survey requested data from 18,738 graduates from 404 colleges. Responses were obtained from 13,200 students, for a response rate of 74 percent (885 were out of scope). The response rate for the colleges was 98 percent. The 1987 survey form was sent to 21,957 graduates. Responses were received from 16,878, for a response rate of 79.7 percent. Table A9 contains sample sizes for number of graduates, by field, for the 1976, 1981, 1985, and 1987 surveys.

Further information on this survey may be obtained from:

Joanell Porter  
Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652

### ***Survey of School Discipline Policies and Practices***

This sample survey used the NCES Fast Response Survey System (FRSS), which is designed to gather timely information for policymakers. In February 1985, questionnaires were mailed to a stratified national probability sample of 900 public junior and senior high schools, representing approximately 30,000 schools. About 60 schools were determined to be out of the scope for the survey since they did not have regular secondary school programs. The final sample represents an estimated 26,365 schools. The sample was allocated proportionately to the number of schools in each of four strata—junior high, senior high, combined, and other (including ungraded, vocational education, special education, and alternative schools). The survey form was completed by the school administrator (often the principal) most familiar with discipline policies of the school. The response rate for the survey was 93 percent. Responses were adjusted for nonresponse and weighted to national totals. Standard errors for selected items are shown in table A10 as a general guide to the precision of the numbers.

For more information about this survey contact:

Helen Ashwick  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

### ***Second International Mathematics Study***

The "Second International Mathematics Study" was organized as a cooperative undertaking of research institutes in about 24 countries represented in the International Association for Evaluation of Educa-

tional Achievement (IEA). Sample surveys of two population groups were conducted during the 1981-82 school year in 20 countries. Data were collected from school administrators, teachers, and students.

"Population A" included all students in the grade in which the majority of students had attained the age of 13.0 to 13.1 years by the middle of the school year. In all countries, school enrollment is nearly universal at that age, which represents the final year of elementary school for most countries. For the United States, Population A was the eighth grade. For Japan and Hong Kong, the seventh grade was chosen for study because the cognitive mathematics tests were more appropriate for that grade level.

"Population B" was defined as all students who were in the terminal grade of secondary education and who were studying mathematics as a substantial part of their academic program, taking at least 5 hours of mathematics classes each week. In the United States, classes of precalculus and calculus were chosen. These classes represented about 12 percent of the total age group. In other countries, Population B represented between 6 and 50 percent of the age group.

About 20 countries' educational systems participated in the Population A survey and 15 systems participated in the Population B survey. The 35 samples ranged in size from 1,000 to 8,800 students.

Because of the variations in student curriculum, survey design, and other factors from country to country, the results of this survey should be used with care.

Further information on the sampling methodology and response rates is available from:

Larry E. Suter  
Elementary/Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

### ***Second International Science Study***

The "Second International Science Study" was organized by the International Association for the Evaluation of Educational Achievement (IEA). Sample surveys were conducted in 19 countries in 1970, and in the mid-1980s the same was done in 24 countries.

"Population 1" is defined as either 10-year-olds or all children in grades where most 10-year-olds were to be found in the system. This population was given a core test of 24 items.

"Population 2" is constituted in the same manner as Population 1, but the test population consists of 14-year-olds. This population was given a core test of 30 items.

"Population 3" includes science students in the terminal grade. This is grade 12 except for Ontario, Canada (English), England, Hong Kong, Singapore, and the technology track in Sweden, where it is grade 13. Population 3 consists of two groups: a) the group studying biology, chemistry or physics (these three subgroups are known as populations 3B, 3C, and 3P, respectively); and b) those students not studying science (population 3N) in the terminal grade.

Further information on the sampling methodology and response rates is available from:

Larry E. Suter  
Elementary/Secondary Outcomes Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5653

### ***State Survey on Substance Abuse Education***

This survey used the NCES Fast Response Survey System (FRSS), which is designed to gather timely information for policymakers. In May of 1987, questionnaires were mailed to each State's coordinator of alcohol and drug abuse education, who was asked to have it completed by the person most knowledgeable about the State's substance abuse prevention activities. Surveys were mailed to the 50 States and the District of Columbia. Data collection was completed in June with a response rate of 100 percent. Because this survey was a census and had a 100 percent response rate, sampling error is not a factor. However, nonsampling error can occur for a variety of reasons, such as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. Considerable effort was made to eliminate these biases. Thus, it appears unlikely that nonsampling errors severely biased the data from this survey.

For more information about this survey, contact:

Helen Ashwick  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

### ***District Survey on Substance Abuse Education***

This sample survey, compiled by NCES, used the NCES Fast Response Survey System (FRSS), which is designed to gather timely information for policymakers. In May of 1987, questionnaires were mailed to a national probability sample of 700 public school districts from a universe of approximately 15,300.

Questionnaires were mailed to the school district superintendents who were asked to have it completed by the person most knowledgeable about the district's substance abuse prevention activities. Data collection was completed in June with a response rate of 98 percent. The sampling frame used for the survey was the 1983-84 Common Core of Data, "Universe of Public School Systems." The sample was stratified by enrollment size and metropolitan status. Districts within a stratum were sampled with equal probability. The survey data were weighted to reflect these sampling rates and were adjusted for nonresponse. Since the estimates were obtained from a sample of districts, they are subject to sampling variability. Estimates of standard errors for the estimates were computed using a balanced half-sampling technique known as balanced repeated replications. This survey is also subject to nonsampling error which can occur for a variety of reasons, such as differences in the respondents' interpretation of the meaning of the questions, differences related to the particular time the survey was conducted, or errors in data preparation. Considerable effort was made to eliminate these biases. Thus, it appears unlikely that nonsampling errors severely biased the data from this survey.

For more information about this survey, contact:

Helen Ashwick  
Elementary and Secondary Education  
Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651

## Other Governmental Agencies

### Office for Civil Rights

#### *Civil Rights Survey of Elementary and Secondary Schools*

The Office for Civil Rights (OCR) of the U.S. Department of Education conducts biennial surveys of public school districts and of schools within those districts. Data are obtained on the characteristics of pupils enrolled in public schools throughout the Nation. Such information is required under Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973 in order for OCR to carry out compliance responsibilities. The 1988 survey included the 100 largest public school districts, those of special interest, i.e., court order, compliance review, and a stratified random sample of approximately 3,700 districts representing approximately 37,000 schools. The sample was stratified by State, district size, and estimated number of minority students.

Further information is available from:

Lawrence Bussey  
Chief, Surveys Branch  
Office for Civil Rights  
U.S. Department of Education  
330 C Street SW  
Washington, DC 20202

### The Office of Special Education and Rehabilitative Services

#### *Annual Report to Congress on the Implementation of the Education of the Handicapped Act*

The Education of the Handicapped Act (EHA) requires the Secretary of Education to transmit to Congress annually a report describing the progress in serving the Nation's handicapped children. The annual report contains information on children served by the public schools under the provisions of Part B of the EHA and for children served in State-operated programs (SOP) for the handicapped under Chapter I of the Education Consolidation and Improvement Act (ECIA). Statistics on children receiving special education and related services in various settings and school personnel providing such services are reported in an annual submission of data to the Office of Special Education and Rehabilitative Services (OSERS) by the 50 States, the District of Columbia, and the outlying areas. The child count information is based on the number of handicapped children receiving special education and related services on December 1st of each year for EHA and October 1st for Chapter I of ECIA/SOP.

Since each participant in programs for the handicapped is reported to OSERS, the data are not subject to sampling error. However, nonsampling error can occur from a variety of sources. Some States follow a noncategorical approach to the delivery of special education services, but produce counts by handicapping condition because EHA-B requires it. In those States that do categorize their handicapped students, definitions and labeling practices vary.

Further information on the *Annual Report to Congress* may be obtained from:

Lou Danielson  
Office of Special Education and Rehabilitative Services  
Office of Special Education Programs  
Room 3523, Switzer Building  
330 C Street SW  
Washington, DC 20202

### ***National Longitudinal Transition Study of Special Education Students***

As part of the 1983 amendments to the Education of All Handicapped Children Act (EHA), Congress requested that the U.S. Department of Education conduct a national longitudinal study of the transition of secondary special education students to determine how they fare in terms of education, employment, and independent living. A 5-year study was mandated, which was to include youth from ages 13 to 21 who were in special education at the time they were selected and who represented all 11 Federal disability categories. Data are drawn from extensive telephone interviews with parents, from school records, and from a survey of educators in secondary schools attended by youth in the study.

The study is being conducted by SRI International and began in April, 1987. The National Transition Study involves a nationally representative sample of more than 8,000 secondary-age youth with disabilities. A sample of 450 school districts was randomly selected from the universe of approximately 14,000 school districts serving secondary special education students. An additional replacement sample of 176 additional districts was selected due to a low rate of agreement to participate from the initial group of districts. Participation in the study was invited from the approximately 80 special schools serving secondary-age deaf, blind, and deaf-blind schools. A total of approximately 300 school districts and 25 special schools agreed to have youth selected for the study.

For further information about this study, contact:

Office of Special Education and Rehabilitative Services  
Office of Special Education Programs  
330 C Street SW  
Washington, DC 20202

### **Bureau of the Census**

#### ***Current Population Survey***

Current estimates of school enrollment, as well as social and economic characteristics of students, are based on data collected in the Census Bureau's monthly household survey of about 60,000 households. The monthly Current Population Survey (CPS) sample consists of 729 areas comprising 1,973 counties, independent cities, and minor civil divisions throughout the 50 States and the District of Columbia. The sample was initially selected from the 1980 census files and is periodically updated to reflect new housing construction.

The monthly CPS deals primarily with labor force data for the civilian noninstitutional population (i.e., excluding military personnel and their families living on post and inmates of institutions). In addition, in

October of each year, supplemental questions are asked about highest grade completed, level and grade of current enrollment, attendance status, number and type of courses, degree or certificate objective, and type of organization offering instruction for each member of the household. In March of each year, supplemental questions on persons' income are asked. The responses to these questions are combined with answers to two questions on educational attainment: highest grade of school ever attended, and whether that grade was completed.

The estimation procedure employed for the monthly CPS data involves inflating weighted sample results to independent estimates of characteristics of the civilian noninstitutional population in the United States by age, sex, and race. These independent estimates are based on statistics from decennial censuses; statistics on births, deaths, immigration, and emigration; and statistics on the population in the armed services. Generalized standard error tables are provided in the *Current Population Reports*. The data are subject to both nonsampling and sampling errors.

Further information is available in the *Current Population Reports*, Series P-20, or by contacting:

Education and Social Stratification Branch  
Population Division  
Bureau of the Census  
U.S. Department of Commerce  
Washington, DC 20233

#### ***School Enrollment***

Each October, the Current Population Survey (CPS) includes supplemental questions on the enrollment status of the population 3 years old and over. The major sources of nonsampling variability in the responses to the supplement are those inherent in the survey instrument. The question of current enrollment may not be answered accurately for various reasons. Some respondents may not know current grade information for every student in the household, a problem especially prevalent for households with members in college or in nursery school. Confusion over college credits or hours taken by a student may make it difficult to determine the year in which the student is enrolled. Problems may occur with the definition of nursery school (a group or class organized to provide educational experiences for children), where respondents' interpretations of "educational experiences" vary.

Examples of sampling variability in the estimates of school enrollment rates are given in table A11.

Questions concerning the CPS "School Enrollment" survey may be directed to:

Education and Social Stratification Branch  
Bureau of the Census  
U.S. Department of Commerce  
Washington, DC 20233

#### ***Educational Attainment***

Data on years of school completed are derived from two questions on the Current Population Survey (CPS) instrument. Formal reports documenting educational attainment are produced by the Bureau of the Census using March CPS results. The latest report is *Educational Attainment in the United States, March 1987 and 1986*, Series P-20, No. 415, which is available from the Government Printing Office.

In addition to the general constraints of the CPS, some data indicate that the respondents have a tendency to overestimate the educational level of members of their household. Some inaccuracy is due to a lack of the respondent's knowledge of the exact educational attainment of each household member and the hesitancy to acknowledge anything less than a high school education. Another cause of nonsampling variability is the change in the numbers in the armed services over the years. In 1970, 25 percent of all males 20 and 21 years old were in the armed services. By 1974, this had decreased to less than 10 percent. The exclusion of members of the armed services appears to increase the proportion of the CPS population with some college and decrease the proportion of those who finished high school but went no further. After 1974, there was more stability in the proportion of young men in the military.

Beginning with the data for March 1980, tabulations have been controlled to the 1980 census. Examples of the sampling variability in the estimates of educational attainment are given in table A12. The figures shown in the table hold for total or white population estimates only. The variability in estimates for subgroups (region, household relationships, etc.) can be estimated using the tables presented in *Current Population Reports*.

Questions concerning "Educational Attainment in the United States" may be directed to:

Education and Social Stratification Branch  
Bureau of the Census  
U.S. Department of Commerce  
Washington, DC 20233

#### ***Participation in Adult Education Survey***

In May of 1965, 1972, 1975, 1978, 1981, and 1984, the Current Population Survey (CPS) included a supplemental inquiry on "Participation in Adult Education" (PAE). In addition to the questions on the CPS, interviewers asked if anyone in the household

17 years of age or older had participated in adult education in the 12-month period prior to the survey date. A survey form was filled out by the interviewer or left with a proxy member of the household for participants who were not at home at the time of the interview. In 1981, the supplement form was no longer left with the proxy but completed by the interviewer.

The PAE response rate of 94 percent in 1981 must be viewed in conjunction with the 96 percent response rate of the CPS. The overall response rate for the PAE survey in 1981 is then 90 percent. Examples of the sampling variability in the estimates from the PAE survey are given in tables A13 and A14.

The figures shown in the tables hold for total or white population estimates only. The variability in estimates for subgroups (employment status, income, education, etc.) can be estimated using the tables *Current Population Reports*.

Further information concerning the PAE survey may be obtained from:

Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208

#### ***Governmental Finances***

The Census Bureau conducts an Annual Survey of Government Finances as authorized by law under Title 13, United States Code, Section 182. This survey covers the entire range of government finance activities: Revenue, expenditure, debt, and assets. Revenues and expenditures comprise actual receipts and payments of a government and its agencies including government-operated enterprises, utilities, and public trust funds. The expenditure reporting categories comprise all amounts of money paid out by a government and its agencies with the exception of amounts for debt retirement, and for loan, investment, agency, and private trust transactions.

Most of the Federal Government statistics for 1986 are based on figures for 1986 that appear in *The Budget of the United States Government for the Fiscal Year 1988*. Since the classification used by the Census Bureau for reporting State and local government finance statistics differs in a number of important respects from the classification used in the *United States Budget*, it was necessary to adjust the Federal data. For this report, Federal budget expenditures include interest accrued, but not paid, during the fiscal year; Census data on interest are on a disbursement basis.

The State government finances for 1986 are based primarily on the annual Census Bureau survey

of State finances for fiscal year 1986. Census staff compiled figures from official records and reports of the various States for most of the State financial data.

The sample of local governments is drawn from the 1982 Census of Governments and consists of certain local governments taken with certainty plus a sample below the certainty level.

The statistics in this Census report, Governmental Finances, that are based wholly or partly on data from the sample are subject to sampling error. State government finance data are not subject to sampling error. Estimates of major United States totals for local governments are subject to a computed sampling variability of less than one-half of 1 percent. The estimates are also subject to the inaccuracies in classification, response, and processing which would occur if a complete census had been conducted under the same conditions as the sample.

Further information can be obtained from:

Governments Division  
Bureau of the Census  
U.S. Department of Commerce  
Washington, DC 20233

## **National Center for Health Statistics**

### ***Monthly Vital Statistics Report***

Data in this report are based on the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics through the Vital Statistics Cooperative Program. In 1983 and 1984, the program included 46 States, accounting for 83 to 84 percent of all births in the United States. Data for Arizona, California, the District of Columbia, and Georgia were based on a 50 percent sample of birth certificates filed as far back as 1982.

Birth and fertility rates are based on population estimates by the Census Bureau. Birth and fertility rates for 1985 are based on the 1980 Census count.

Further information may be obtained from:

U.S. Department of Health and Human Services  
Public Health Services  
National Center for Health Statistics  
3700 East-West Highway  
Hyattsville, MD 20782

### ***National Institute on Drug Abuse***

The National Institute on Drug Abuse of the U.S. Department of Health and Human Services is the primary supporter of the long-term study entitled "Monitoring the Future: A Continuing Study of the Lifestyles and Values of Youth," conducted at the University of Michigan, Institute for Social Research. One component of the study deals with student drug

abuse. Results of a national sample survey have been published annually since 1975. Approximately 125 to 135 schools have participated each year. With the exception of 1975 when about 9,400 students participated in the survey, more than 15,000 students have participated in the survey annually. For the class of 1988, about 16,300 students responded to the survey. Over the years, the response rate has varied from 77 to 84 percent. Table A-5 provides examples of the survey's sampling error.

The data in this survey represent only high school seniors. Understandably, there will be some reluctance to admit illegal activities. Also, students who were out of school on the day of the survey were nonrespondents. The survey did not include high school dropouts. The inclusion of these two groups would tend to increase the proportion of individuals who had used drugs. A 1983 study found that the inclusion of the absentees could increase some of the drug usage estimates by as much as 2.7 percent. (Details on that study and its methodology were published in *Drug Use Among American High School Students, College Students, and Other Young Adults*, by Lloyd D. Johnston, Patrick M. O'Malley, and Jerald G. Bachman, available from the National Clearinghouse on Drug Abuse Information, 5600 Fishers Lane, Rockville, MD 20857.)

Further information on this survey may be obtained from:

National Institute of Drug Abuse  
Division of Epidemiology and Statistical Analysis  
5600 Fishers Lane  
Rockville, MD 20857

## **National Science Foundation**

### ***Survey of Earned Doctorates Awarded in the United States***

The Survey of Earned Doctorates Awarded in the United States has collected basic statistics from the universe of doctoral recipients in the United States each year since the 1920s. It has been supported by five Federal agencies: the National Science Foundation, in conjunction with the U.S. Department of Education; the National Endowment for the Humanities; the United States Department of Agriculture; and the National Institute of Health.

A survey form is distributed, with the assistance of graduate deans, to each person completing the requirements for a doctorate. Of the approximately 31,000 persons eligible for the survey, approximately 95 percent respond. The questionnaire obtains information on sex, race/ethnicity, marital status, citizenship, handicaps, dependents, specialty field of doctorate, educational institutions attended, time spent in completion of doctorate, financial support, educa-

tional debt, postgraduation plans, and educational attainment of parents. The data are collected, edited, and published by the National Academy of Sciences.

For further information contact:

Susan Hill  
National Science Foundation  
1800 G Street NW  
Washington, DC 20550

***Federal Obligations to Colleges and Universities and Selected Nonprofit Institutions***

Each year, the National Science Foundation collects data on obligations to colleges and universities from Federal agencies. Obligations differ from expenditures in that funds obligated during one fiscal year may be spent by the recipient in later years. The fiscal year 1987 data were submitted by 15 Federal agencies. Obligation amounts include direct Federal support, so that amounts subcontracted to other institutions are included. Those funds received through subcontracts are excluded. Also excluded from the data are certain types of financial assistance, such as the Department of Education's Guaranteed Student Loan Program and obligations to the U.S. service academies. For purposes of tabulations in this publication, university administered federally funded research and development centers (FFRDCs) have been included in appropriate State totals.

The universe of academic institutions for this survey is based on the Higher Education General Information Survey conducted by the National Center for Education Statistics (see above). Institutions without Federal support were excluded and some systems were combined into single reporting units.

Further information on this survey may be obtained from *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, published by the National Science Foundation, or by contacting:

Universities and Nonprofit Institutions Study Group  
Division of Science Resources Studies  
National Science Foundation, Room L-602  
Washington, DC 20550

***Survey of Scientific and Engineering Expenditures at Universities and Colleges***

The universe for this survey included 563 institutions in the United States and outlying areas that had a master's or doctor's degree program in the sciences or engineering. In addition, schools that had \$50,000 or more in separately budgeted research and development expenditures and the 19 federally funded research and development centers were included. Altogether, these institutions represented approximately 99 percent of all college and university research and development.

The survey instrument has remained essentially unchanged in recent years to facilitate consistent responses. The field of study details match the standard field codes in the *Classification of Instructional Programs*, published by NCES. The response rate for the 1982 survey was 81 percent. The remaining institutions were imputed. The imputation amounted to only 6 percent of the total expenditures reported, since the nonrespondents tended to be smaller institutions. The survey process included a verification procedure in which trend data for the past two reports and the current survey were sent to each institution. The institutions were given an opportunity to amend the current and past figures. These revisions have been incorporated in the National Science Foundation database.

Further information on this survey may be obtained from *Academic Science/Engineering, R&D Funds*, published by the National Science Foundation, or by contacting:

Universities and Nonprofit Institutions Study Group  
Division of Science  
Resources Studies  
National Science Foundation, Room L-602  
Washington, DC 20550

**Other Organization Sources**

***American Association of Colleges for Teacher Education***

The Committee on Research and Information of the American Association of Colleges for Teacher Education (AACTE) initiated the Research About Teacher Education (RATE) Project in 1985. The project is devoted to collecting information about institutions of higher education that engage in teacher education. The data in the report, *Teaching Teachers: Facts and Figures*, were culled from analyses of three survey instruments—institutional, faculty, and student. Archival data from institutions covered the 1985 calendar year. Self-reported perceptual and factual data from faculty and students were collected in spring 1986. The institutions were selected from a stratified random sample of the 713 member institutions of AACTE in 1985. The institutions were stratified according to the highest degree offered within the school, college, or department of education. Thirty institutions were randomly selected from each stratum for a total of 90 institutions. Of these, 76 institutions provided complete data, representing 84 percent of the sample.

To provide a more complete picture, surveys were administered to 360 education faculty and 900 students. These groups were drawn from secondary education methods courses. The current report contains data from 215 faculty and 876 students.

For those interested in more technical information from the RATE Project, supporting documentation for this report is available from:

American Association of Colleges for Teacher Education  
One Dupont Circle  
Suite 610  
Washington, DC 20036-2412

### ***American College Testing Program***

The American College Testing (ACT) Assessment is designed to measure educational development in the areas of English, mathematics, social studies, and natural sciences. The ACT Assessment is taken by college-bound high school students and the test results are used to predict how well students might perform in college.

Prior to the 1984-85 school year, national norms were based on a 10 percent sample of the students taking the test. Since then, national norms are based on the test scores of all students taking the test. Moreover, beginning with 1984-85 these norms have been based on the most recent ACT scores available from students scheduled to graduate in the spring of the year. Duplicate test records are no longer used to produce national figures.

Separate ACT standard scores are computed for English, mathematics, social studies, and natural science. ACT standard scores are reported for each subject area on a scale from 1 to 36. The four ACT standard scores have a mean (average) of about 19 and a standard deviation of about 6 for college-bound students nationally. A composite score is obtained by taking the simple average of the four standard scores and is an indication of student's overall academic development across these subject areas.

It should be noted that college-bound students who take the ACT Assessment are not representative in some respects of college-bound students nationally. First, students who live in the Midwest, Rocky Mountains and Plains, and the South are overrepresented among ACT-tested students as compared with college-bound students nationally. Second, ACT-tested students tend to enroll in public colleges and universities more frequently than do college-bound students nationally.

For further information, contact:

The American College Testing Program  
2201 North Dodge Street  
P.O. Box 168  
Iowa City, IA 52243

### ***American Federation of Teachers***

The American Federation of Teachers (AFT) reports national and State average salaries and earn-

ings for teachers, other school employees, government workers, and professional employees over the past 25 years. The AFT's survey of State departments of education obtains information on minimum salaries, experienced teachers reentering the classroom, and teacher age and experience. Most data from the survey are reported as received, although some data are confirmed by telephone. These data are available in the AFT's annual report *Salary and Analysis of Salary Trends*. While serving as the primary vehicle for reporting the results of the AFT's annual survey of State departments of education, several other data sources are also used in this report.

Further information on this survey can be obtained from:

American Federation of Teachers  
555 New Jersey Avenue NW  
Washington, DC 20001

### ***The Carnegie Foundation for the Advancement of Teaching***

The Carnegie Foundation for the Advancement of Teaching (CFAT) conducted the National Survey of Public School Teachers in the spring of 1987. The survey was mailed to 40,000 public elementary and secondary school teachers in all 50 States. Questionnaires were returned by 21,698 teachers, representing a response rate of 54.3 percent. Elementary teachers compose 29.6 percent (11,827) of the sample and secondary teachers make up 29.1 percent (11,651). Some of the teachers taught at both levels.

A stratified random sample design was used. The total survey size is composed of simple random samples from each State. Each survey response was weighted based on the level and State of the responding teacher. The maximum sampling error for this survey is less than plus or minus 1 percent for the total sample. In general, more than 95 percent of the teachers who returned the questionnaire answered each question.

Results from this survey may be found in, *Teacher Involvement in Decisionmaking: A State-By-State Profile and The Condition of Teaching: A State-By-State Analysis, 1988*. For additional information on the data obtained from this survey, contact:

Robert Hochstein  
The Carnegie Foundation for the Advancement of Teaching  
1775 Massachusetts Avenue NW  
Washington, DC 20036



### ***College Entrance Examination Board***

The Admissions Testing Program of the College Board comprises a number of college admissions tests, including the Preliminary Scholastic Aptitude Test (PSAT) and the Scholastic Aptitude Test (SAT). High school students participate in the testing program as sophomores, juniors, or seniors—some more than once during these 3 years. If they have taken the tests more than once, only the most recent scores are tabulated. The PSAT and SAT report subscores in the areas of mathematics and verbal ability.

The SAT results are not representative of high school students or college-bound students nationally since the sample is self-selected. Generally, tests are taken by students who need the results to attend a particular college or university. The State totals are greatly affected by the requirements of its State colleges. Public colleges in a number of States require ACT scores rather than SAT scores. Thus, the proportion of students taking the SAT in these States is very low and is inappropriate for any comparison. In recent years, about 1 million high school students have taken the examination annually.

Further information on the SAT can be obtained from:

College Entrance Examination Board  
Educational Testing Service  
Princeton, NJ 08541

### ***Council for Aid to Education***

The Council for Aid to Education, Inc. (CFAE) is a not-for-profit corporation funded by contributions from business. CFAE sponsors public service campaigns and provides consulting and research services on voluntary support for education institutions. Each year, CFAE conducts a survey of colleges and universities and private elementary and secondary schools to obtain information on the amounts, sources, and purposes of private gifts, grants, and bequests received during the academic year. In the 1986-87 study, survey forms were sent to approximately 2,800 colleges and universities and 1,174 responded, which was 1.7 percent below the 1985-86 level. The response rates were much higher for the 4-year colleges than for the 2-year colleges. For example, 90 percent of the doctoral-level institutions and 63 percent of the comprehensive and general baccalaureate colleges participated in the survey. CFAE estimates that about 85 percent of all voluntary support is reported in the survey because of the high participation of institutions receiving large amounts of funding. Survey forms are reviewed by CFAE for internal consistency before preparing a computerized database. Institutional reports of voluntary support data from the CFAE "Survey of

Voluntary Support of Education" are more comprehensive and detailed than the related data in the "Financial Statistics of Institutions of Higher Education" survey conducted by NCES. The results from the "Survey of Voluntary Support of Education" are published in the annual Voluntary Support of Education, which may be purchased from CFAE.

Further information is available from:

Director of Research  
Council for Aid to Education, Inc.  
680 Fifth Avenue  
New York, NY 10019

### ***Council of Chief State School Officers***

The Council of Chief State School Officers (CCSSO) is a nationwide nonprofit organization of the 57 public officials who head departments of public education in every State, U.S. outlying areas, the District of Columbia, and the Department of Defense Dependents Schools. In 1985, the CCSSO founded the State Education Assessment Center to provide a locus of leadership by the States to improve the monitoring and assessment of education. *State Education Indicators, 1988* is the principle report of the Assessment Center's program of indicators on education. Most of the data is obtained from a member questionnaire; the remainder of the data is obtained from Federal Government agencies.

For additional information on this report, contact:

Ramsay Selden  
State Education Assessment Center  
Council of Chief State School Officers  
379 Hall of States  
400 North Capitol Street NW  
Washington, DC 20001

### ***Council of State Directors of Programs for the Gifted***

The Council of State Directors of Programs for the Gifted is comprised of the director or individual in the leadership position for gifted education in each of the 50 States, the District of Columbia, and the outlying areas. They have conducted many surveys in the past and most recently have conducted two comprehensive State surveys in order to gain a profile of gifted education throughout the Nation. These data are reported in the 1985 and 1987 "State of the States Gifted and Talented Education" reports. This edition of the *Digest* uses data from the 1986-87 school year. Responses for the 1986-87 survey were received from all 50 States, Puerto Rico, and Guam. The Council is in the process of deciding whether future surveys will be conducted annually or biennially.

Further information is available from:

Nancy Lunsenbill, President  
Council of State Directors of Programs for the Gifted  
Office of Public Instruction  
Room 106, State Capitol  
Helena, MT 59620

### ***Education Commission of the States***

The Education Commission of the States (ECS) Clearinghouse collects information on laws and standards in the field of education and reports them periodically in "Clearinghouse Notes." They collect information about administrators, principals, and teachers. They also examine policy areas, such as assessment and testing, collective bargaining, early childhood issues, quality education, and school schedules. The information is collected by reading State newsletters, tracking State legislation, and surveying the State education agencies. Data are verified by the individual States when necessary. Even though ECS monitors State activity on a continuous basis, they update the reports only when there is significant change in State activity.

Further information is available from:

Melody Bush or Chris Pipho  
Education Commission of the States  
1860 Lincoln Street, Suite 300  
Denver, CO 80295

### ***Gallup Poll***

Each year the Gallup Poll conducts the "Public Attitudes Toward the Public Schools" survey, funded by Phi Delta Kappa. The survey includes interviews with over 1,600 adults representing the civilian non-institutional population 16 years old and over.

The sample used in the 20th annual survey was made up of a total of 2,118 respondents and is described as a modified probability sample of the Nation. Personal, in-home interviewing was conducted in representative communities of the Nation.

The survey is a sample survey and is subject to sampling error. The size of error depends largely on the number of respondents providing data. Table A16 shows the approximate sampling errors associated with different percentages and sample sizes for the survey. Table A17 also provides approximate sampling errors for comparisons of two sample percentages.

For example, an estimated percentage of about 10 percent based on the responses of 1,000 sample members has an approximate sampling error of 2 percent at the 95 percent confidence level. The sampling error for the difference in two percentages (50 percent versus 41 percent) based on two samples of 750 members and 400 members, respectively, is about 8 percent at the 95 percent confidence level.

Table A17 contains approximate sampling errors for the difference in two percentages.

Further information on this survey can be obtained from:

Gallup Poll  
Phi Delta Kappa  
P.O. Box 789  
Bloomington, IN 47402-0789

### ***Independent Sector***

In 1988, Independent Sector commissioned the Gallup Organization to conduct a national survey on the giving and volunteering behavior of Americans. This survey is the beginning of a series of surveys that will be conducted every 2 years. The information was obtained from in-home personal interviews conducted from March 8 to March 22, 1988, with a representative national sample of 2,775 adult Americans 18 years of age or older. The sampling procedure did not include those with incomes above \$200,000 because they constitute such a small percentage of the population.

The results from this survey are published in *Giving and Volunteering in the United States* and may be purchased from:

Independent Sector  
1828 L Street NW  
Washington, DC 20036

### ***Institute of International Education***

Each year the Institute of International Education (IIE) conducts a survey of the number of foreign students studying in American colleges and universities and reports these data in *Open Doors*, an annual publication. All of the regionally accredited institutions in the *Education Directory, Colleges and Universities* published by NCES are surveyed by IIE. The data presented in the *Digest* are drawn from the IIE two-part survey. The first part of the survey requests the total enrollment of foreign students in an institution. For the 1984-85 survey, 2,766 out of 2,833 (98 percent) institutions surveyed reported data for the first part of the survey. The second part of the questionnaire asked for information on student characteristics, such as country of origin. The response rate for this portion of the study was 91 percent in 1984-85. For those institutions not reporting data for part two of the survey, distributions by country of origin were estimated by applying distributions from the reporting institutions.

Additional information can be obtained from the publication *Open Doors* or by contacting:

Alfred Julian  
Institute of International Education  
809 United Nations Plaza  
New York, NY 10017

### ***Market Data Retrieval***

Market Data Retrieval (MDR) is a market research company that compiles mailing lists of schools and school districts. MDR also conducts special analyses of school characteristics. In recent years, MDR has conducted surveys of computer use in public and private schools.

During its annual summer survey of public school districts, MDR included questions on computer use in public schools. All school districts were contacted about the number of their schools using computers. In the fall, an additional mail survey was conducted to gather more information on the number and type of computers being used. Data on computer utilization were reported for 86 percent of public schools. These data were used to generate State-by-State estimates which were aggregated to construct a national total.

Private school data were compiled through mail and telephone surveys during the middle of the 1982-83 and 1983-84 school years. The 1983-84 response rate for the Catholic schools was 96 percent, and the rate for the other private schools was 89 percent.

Further information on these surveys may be obtained from:

Market Data Retrieval  
16 Progress Drive  
Shelton, CT 06484

### ***Metropolitan Life Insurance Company***

The 1988 "Metropolitan Life Survey of the American Teacher" was conducted by Louis Harris and Associates for Metropolitan Life Insurance Company. A total of 1,208 telephone interviews were conducted during April-June, 1988. The teachers came from all types of public schools throughout the United States. For earlier surveys in 1985, 1986, and 1987 the sample sizes were 1,846, 1,602 and 1,022, respectively.

The survey sample was drawn at random from a list of 1.2 million current teachers compiled by Market Data Retrieval. Sample sizes for completed interviews were set for each State, based on the proportion of elementary and secondary public school classroom teachers in the State. The State sample sizes were based on statistics published by the National Center for Education Statistics.

Each selected current teacher was contacted at his or her school and requested to participate in the survey. Thirty-one percent of the teachers contacted

(or with whom a message was left) participated in the survey. Of the teachers who were successfully contacted by Louis Harris and Associates and who were eligible to participate in the survey, 84 percent completed the interview. While the "interview completion rate" is just as high as or higher than in previous survey years, the "contact success rate" is lower than the typical 50 percent level experienced in past years.

In 1987, the survey sought the views of parents of public school children. Telephone interviews were conducted with 2,011 randomly selected parents across the Nation during May and June, 1987. Approximately 9,000 households were screened in order to obtain the required sample size. The overall completion rate for the survey was 75 percent of the eligible households reached.

The parent survey was based on a sample of the civilian population of the continental United States. The sample was stratified by geographic region and metropolitan versus nonmetropolitan residence. Households were selected via random-digit-dialing procedures.

Tables A18 and A19 show the sampling errors that apply to the percentages presented in this publication. The tables also display the sampling tolerances involved in the comparison of percentage results from different surveys or from different subsamples. For the *Digest* table which compares the beliefs of white, black, and Hispanic parents, the sample sizes for these racial/ethnic groups were 1,573, 211, and 150, respectively.

Further information on this survey may be obtained from:

Metropolitan Life Survey of the American Teacher  
Metropolitan Life Insurance Company  
One Madison Avenue  
New York, NY 10010

### ***National Association of Secondary School Principals***

The National Association of Secondary School Principals (NASSP) survey is the third in a series of national studies of high school principals dating back to 1965. The major purpose of this study is to analyze and describe high school leaders and their schools.

A sample of 1,028 secondary schools was randomly drawn from NASSP's national database of all American schools with grade 12. Survey forms were mailed in early 1987. A preliminary analysis of the returns indicated a disproportionate response rate, primarily from smaller schools in the Midwest. A second set of surveys was mailed in late March of 1987 and targeted by zip codes to redress the imbalance in preliminary returns. In all, 1,544 survey forms

were sent and 716 were returned by principals. The response rate for principals was 46 percent.

Further information on this survey may be obtained from *High School Leaders and Their Schools* or by contacting:

National Association of Secondary School Principals  
1904 Association Drive  
Reston, VA 22091

#### ***National Association of State Scholarship and Grant Programs***

The National Association of State Scholarship and Grant Programs (NASSGP) is an association of States with general programs of scholarship or grant assistance for undergraduate study. Executive officers responsible for grant program administration represent each State in the Association. The publication of the *19th Annual Survey Report: 1987-88 Academic Year* represents the eighth year that the Pennsylvania Higher Education Assistance Agency has produced the NASSGP annual report. Data are reported for all 50 States, the District of Columbia, and Puerto Rico.

For more information on this survey, contact:

Jerry S. Davis  
Research and Statistics  
Pennsylvania Higher Education Assistance Agency  
Towne House  
660 Boas Street  
Harrisburg, PA 17102

#### **National Education Association**

##### ***Estimates of School Statistics***

The National Education Association (NEA) reports enrollment, expenditure, revenue, graduate, teacher, and instructional staff salary data in its annual publication, *Estimates of School Statistics*. Each year NEA prepares regression-based estimates of financial and other education statistics and submits them to the States for verification. Generally about 30 States adjust these estimates based on their own data. These preliminary data are published by NEA along with revised data from previous years. States are asked to revise previously submitted data as final figures become available. The most recent publication contains all changes reported to the NEA.

Further information on NEA surveys can be obtained from:

National Education Association—Research  
1201 16th Street NW  
Washington, DC 20036

#### ***Status of the American Public School Teacher***

The "Status of the American Public School Teacher" survey is conducted every 5 years by the National Education Association (NEA). The survey was designed by the NEA Research Division and initially administered in 1956. The intent of the survey is to solicit information covering various aspects of public school teachers' professional, family, and civic lives.

Participants for the survey are selected using a two-stage sample design, with the first-stage stratum determined by the number of students enrolled in the districts. Selection probabilities are determined so that the resulting sample is self-weighting. In 1985-86, a sample of 1,998 was selected from the approximately 2,207,000 public school teachers. The sample was adjusted to 1,784 to reflect the 214 responses that were unusable because the respondent could not be located or the respondent was not a teacher. After followup procedures, 1,291 usable replies were obtained, yielding a response rate of 72 percent.

Possible sources of nonsampling errors are nonresponses, misinterpretation, and—when comparing data over years—changes in the sampling method and instrument. Misinterpretation of the survey items should be minimal, as the sample responding is not from the general population but one knowledgeable about the area of concern. Since the sampling procedure changed after 1956, and some wording of items has changed over the different administrations, care is taken to present only comparable data.

Since sampling is used, sampling variability is inherent in the data. An approximation to the maximum standard error for estimating the population percentages is 1.4 percent. To estimate the 90 percent confidence interval for population percentages, the maximum standard error of 1.4 percent is multiplied by 1.65 (1.4 x 1.65). The resulting percentage (2.3) is added and subtracted from the population estimate to establish upper and lower bounds for the confidence interval. For example, if a sample percentage is 60 percent, there is a 90 percent chance that the population percentage lies between 57.7 percent and 62.3 percent (60 percent  $\pm$  2.3 percent). If comparisons of two percentages are to be made, table A20 gives maximum differences for significance at the 90 percent confidence level.

Questions concerning the "Status of the American Public School Teacher" survey may be directed to:

National Education Association—Research  
1201 16th Street NW  
Washington, DC 20036

### ***Planned Parenthood***

Planned Parenthood commissioned Louis Harris and Associates to conduct two polls for them; one in 1986 and one in 1988.

The 1986 poll asked a representative sample of American teenagers, age 12 through 17, about their views on teenage pregnancy. In the survey, conducted during September and October, 1986, Louis Harris and Associates interviewed 1,000 teenagers in their homes across the country. A national area probability sample of locations was drawn and interviewers were sent to pre-designated locations. Although black and Hispanic teenagers were oversampled, (the sample contains 451 whites, 341 blacks, and 208 Hispanics), the final results have been weighted to reflect the actual racial composition of the United States. Results from the survey are published in *American Teens Speak: Sex, Myths, TV, and Birth Control*.

In May 1988, Louis Harris and Associates interviewed a national sample of adults (18 years of age and older) by telephone on the issues of teenage pregnancy, parental and school involvement in sex education, and birth control services and methods. The interviewers surveyed a total of 1,250 randomly selected adults from the civilian population of the United States. The data were weighted to bring the sample in line with the latest Census Bureau population estimates. Final results are published in *Public Attitudes Toward Teenage Pregnancy, Sex Education and Birth Control*.

To obtain copies of these publications or further information, contact:

Planned Parenthood Federation of America  
810 Seventh Avenue  
New York, NY 10019

### **United Nations Educational, Scientific, and Cultural Organization**

#### ***Statistical Yearbook***

The United Nations Educational, Scientific, and Cultural Organization (UNESCO) conducts annual surveys of education statistics of its member coun-

tries. Besides official surveys, data are supplemented by information obtained by UNESCO through other publications and sources. Each year more than 200 countries reply to the UNESCO surveys. In some cases, estimates are made by UNESCO for particular items such as world and continent totals. While great efforts are made to make the data as comparable as possible, the data still reflect the vast differences among the countries of the world in the structure of education. While there is some agreement about the reporting of first- and second-level data, the third level (postsecondary education) presents numerous substantial problems. Some countries report only university enrollment while other countries report all postsecondary, including vocational and technical schools and correspondence programs. A very high proportion of some countries' third-level students attend institutions in other countries. While definitional problems are many in this sort of study, other survey problems should not be overlooked. The member countries that provide data to UNESCO are responsible for the validity of their data. Thus, data for particular countries are subject to nonsampling error and perhaps sampling error as well. Some countries may furnish only rough estimates while data from other countries may be very accurate. Other difficulties are caused by the varying periodicity of data collection among the countries of the world. In spite of such problems, many researchers use UNESCO data because they are the best available. Users should examine footnotes carefully to recognize some of the data limitations.

More complete information may be obtained from the *Statistical Yearbook* published by UNESCO or from:

Office of Statistics  
UNESCO  
Place de Fontenoy  
75700 Paris  
France

**Table A1.—Selected standard errors for selected items in the “1985 Survey of Public and Private School Libraries and Media Centers”**

Items for public school libraries	Estimate	Standard error	95% confidence interval	
			Lower	Upper
<b>Percent of schools having library/media centers</b>				
All schools.....	93.5	0.54	92.4	94.6
Secondary schools.....	98.0	0.97	96.1	99.9
Schools with 500 to 699 pupils.....	98.5	0.39	97.7	99.3
<b>Average expenditure per pupil for books</b>				
All schools.....	\$6.24	0.1524	\$5.94	\$6.54
Secondary schools.....	7.40	0.3253	6.77	8.04
Schools with 700 to 999 pupils.....	4.67	0.1743	4.33	5.01
<b>Average book volumes held per pupil</b>				
All schools.....	20.3	0.3784	19.5	21.0
Elementary and combined schools.....	20.6	0.4275	19.8	21.5
Schools with over 2,000 pupils.....	9.5	0.3782	8.7	10.2

Table A2.—Respondent counts for selected High School and Beyond surveys

Classification variable and subgroup	Followup survey of 1980 sophomores in 1982	Followup survey of 1980 seniors in 1982	Followup survey of 1980 sophomores in 1984	Followup survey of 1980 seniors in 1984	Followup survey of 1980 sophomores in 1986	Followup survey of 1980 seniors in 1986
<b>Total respondents (unweighted)</b> .....	<b>25,830</b>	<b>11,227</b>	<b>11,463</b>	<b>10,925</b>	<b>11,248</b>	<b>10,536</b>
<b>Sex</b>						
Male.....	12,717	5,213	5,514	5,058	5,391	4,832
Female.....	13,113	6,014	5,949	5,867	5,857	5,704
<b>Race/ethnicity</b>						
White, non-Hispanic.....	17,295	5,180	7,285	5,057	7,194	5,248
Black, non-Hispanic.....	3,338	2,724	1,651	2,825	1,585	2,726
Hispanic.....	4,439	2,749	1,795	2,654	1,745	1,950
Asian or Pacific Islander.....	413	367	425	355	413	356
American Indian or Alaskan.....	248	191	253	185	246	200
Native.....	97	16	54	49	65	58
Other or unclassified.....						
<b>Socioeconomic status composite (SES) <sup>1</sup></b>						
Low.....	6,752	3,940	2,831	3,857	2,751	3,668
Low-middle.....	6,234	2,390	2,824	2,314	2,559	2,289
High-middle.....	6,134	2,168	2,849	2,107	2,817	1,995
High.....	8,341	1,988	3,086	1,936	3,044	1,900
Unclassified.....	389	741	73	711	77	684
<b>Father's highest level of education</b>						
Less than high school.....	5,179	—	—	—	—	—
High school graduate <sup>2</sup> .....	11,961	—	—	—	—	—
College graduate <sup>3</sup> .....	5,169	—	—	—	—	—
Don't know/missing.....	3,521	—	—	—	—	—
<b>High school program (self-reported)</b>						
Academic.....	10,152	4,145	6,547	4,007	—	3,899
General.....	8,789	3,829	3,468	3,764	—	3,602
Vocational.....	6,664	2,660	3,611	2,581	—	2,481
Unclassified.....	225	593	56	573	—	554
<b>High school type</b>						
Public.....	—	9,969	8,647	9,727	—	9,385
Catholic.....	—	964	2,479	911	—	876
Other private.....	—	294	337	287	—	275
<b>Postsecondary education status <sup>4</sup></b>						
Full-time.....	—	—	4,466	—	—	—
Part-time.....	—	—	3,275	—	—	—
Never enrolled.....	—	—	3,678	—	—	—
Missing/unclassified.....	—	—	44	—	—	—
<b>October 1980 postsecondary education attendance status</b>						
Part-time 2-year public institution.....	—	—	—	—	—	352
Part-time 4-year public institution.....	—	—	—	—	—	152
Full-time 2-year public institution.....	—	—	—	—	—	1,312
Full-time 4-year public institution.....	—	—	—	—	—	1,986
Full-time 4-year private institution.....	—	—	—	—	—	1,015
Not a student.....	—	—	—	—	—	4,523
Other and missing.....	—	—	—	—	—	1,196
<b>Postsecondary education plans</b>						
No plans.....	—	—	—	—	—	1,823
Attend vocational/technical school.....	—	—	—	—	—	1,835
Attend college less than four years.....	—	—	—	—	—	1,528
Earn bachelor's degree.....	—	—	—	—	—	2,631
Earn advanced degree.....	—	—	—	—	—	2,265
Missing.....	—	—	—	—	—	654
<b>Participation in high school extracurricular activities <sup>5</sup></b>						
Never participated.....	—	—	—	—	—	1,024
Participated as a member.....	—	—	—	—	—	4,104
Participated as a leader.....	—	—	—	—	—	4,457

<sup>1</sup>The SES index is a composite of five equally-weighted measures: father's education, mother's education, family income, father's occupation, and presence of certain items in the respondent's household.

<sup>2</sup>Includes attendance at a vocational, trade, or business school, or 2-year college; or attendance at a 4-year college resulting in less than a bachelor's degree.

<sup>3</sup>Includes those with a bachelor's or higher level degree.

<sup>4</sup>Postsecondary education status was determined by students' enrollment in academic or vocational study during the four semesters—fall 1982, spring 1983, fall 1983, and spring 1984—following their scheduled high school graduation. Students who enrolled in full-time study in each of the four semesters were classified as full-time. Students who were enrolled in part-time study in any of the four semesters and those who were enrolled in full-time study in fewer than four semesters were classified as part-time. Students who had neither enrolled on a full-time nor part-time basis in each of the four semesters were classified as never enrolled.

<sup>5</sup>Responses to questions concerning participation in each of 15 different extracurricular activity areas (i.e., varsity sports, debate, band, subject-matter clubs, etc.) were used to classify students' overall level of participation in extracurricular activities. The difference between sum of the three category respondent counts and the total sample size is due to missing data.

—Data not applicable.

NOTE.—Data from students who dropped out of school between the 10th and 12th grades were not used in analyses of sophomore samples.

**Table A3.—Design effects and root design effects (DEFT) for selected High School and Beyond surveys and subsamples**

Subsample characteristic	Followup survey of 1980 sophomores in 1984	Followup survey of 1980 seniors in 1984	Followup survey of 1980 sophomores in 1986	Followup survey of 1980 seniors in 1986
Total sample .....	2.40 (1.54)	2.87 (1.69)	2.19 (1.47)	2.26 (1.50)
<b>Sex</b>				
Male .....		—	2.07 (1.43)	2.13 (1.45)
Female .....		—	2.06 (1.43)	2.26 (1.50)
<b>Race/ethnicity</b>				
White and other .....	2.06 (1.42)	2.09 (1.44)	1.92 (1.38)	1.70 (1.30)
Black .....	2.22 (1.47)	2.26 (1.50)	2.19 (1.47)	2.40 (1.54)
Hispanic .....	3.15 (1.73)	3.72 (1.92)	3.11 (1.76)	4.06 (2.01)
<b>Socioeconomic status composite (SES)</b>				
Low .....	1.91 (1.37)	2.28 (1.50)	1.83 (1.35)	2.31 (1.51)
Middle .....	1.95 (1.39)	1.81 (1.34)	2.06 (1.42)	2.02 (1.42)
High .....	2.05 (1.42)	1.93 (1.38)	1.92 (1.38)	1.71 (1.30)

—Not available.

NOTE.—The average design effect for the 1980 sophomore cohort first followup (1982) survey is 3.59(1.89) and the average design effect for the 1980 senior first followup (1982) survey is 2.64(1.62).

**Table A4.—Average reading proficiency and standard errors for the NAEP reading proficiency study: 1983-84 and 1985-86**

Item	1983-84 <sup>1</sup>		1985-86 <sup>1</sup>	
	Estimate (mean)	Standard error	Estimate (mean)	Standard error
<b>9-year-olds</b>				
Total .....	213.2	0.9	38.1	0.2
White .....	220.1	0.8	39.8	0.2
Black .....	188.4	1.1	33.4	0.4
Hispanic .....	193.0	1.3	33.2	0.3
<b>13-year-olds</b>				
Total .....	257.8	0.6	48.9	0.1
White .....	263.4	0.5	50.3	0.1
Black .....	236.8	1.1	45.2	0.3
Hispanic .....	239.2	1.7	44.4	0.4
<b>17-year-olds</b>				
Total .....	288.2	0.9	56.1	0.2
White .....	294.6	0.7	57.3	0.2
Black .....	263.5	1.2	51.5	0.3
Hispanic .....	268.7	1.9	51.3	0.3

<sup>1</sup> Item response theory used as a basis to estimate performance at the three levels on a common scale. The score ranged from 0 to 500 in 1983-84 and from 0 to 100 for 1985-86.**Table A5.—Average reading proficiency and standard errors for the NAEP literacy study: 1985-86**

Item	Estimate (mean)	Standard error
<b>Prose comprehension, percent with score of 300<sup>1</sup> or more</b>		
White .....	63.2	1.4
Black .....	23.7	1.6
Hispanic .....	41.1	4.1
<b>Quantitative literacy, percent with score of 350<sup>1</sup> or more</b>		
White .....	27.2	1.7
Black .....	2.4	0.8
Hispanic .....	11.3	2.7

<sup>1</sup> The proficiency score ranges from 0 to 500 with a mean of 305 and a standard deviation of approximately 50



**Table A6.—Average writing achievement and standard errors for the NAEP writing study: 1983-84**

Selected characteristics of participants	Grade 4		Grade 8		Grade 11	
	Estimate	(mean)	Estimate	(mean)	Estimate	(mean)
All participants.....	158	1	205	1	219	1
Sex						
Male.....	150	1	196	1	209	1
Female.....	166	1	214	1	229	1
Race/ethnicity						
Black.....	138	2	186	1	200	2
Hispanic.....	146	2	187	2	200	2
Asian-American.....	163	4	211	4	219	4
White.....	163	1	211	1	224	1
Region						
Northeast.....	161	2	209	1	222	3
Southeast.....	154	2	203	2	216	2
Central.....	160	2	206	1	220	2
West.....	157	1	203	2	217	1
Size/type of community						
Rural.....	153	2	203	3	213	3
Disadvantaged-urban.....	142	2	188	2	201	2
Advantaged-urban.....	170	2	221	2	228	2
Parent's level of education						
Not high school graduate.....	143	3	189	2	199	2
Graduated high school.....	154	1	202	1	215	1
Post high school.....	166	1	213	1	227	1

NOTE.—The writing scale score ranges from 0 to 400 and is defined as the average of a respondent's estimated scores on 10 specific writing tasks. The average response method is used to estimate average writing achievement for each participant as if each had performed all 10 writing tasks. Standard errors are estimated using a jackknife replication procedure.

**Table A7.—Respondent counts for selected National Longitudinal Study surveys**

Classification variable and subgroup	Base year survey of 1972 seniors	Followup survey of 1972 seniors in 1974-75	Followup survey of 1972 seniors in 1976-77	Followup survey of 1972 seniors in 1979-80
Total respondents (unweighted).....	16,409	19,328	19,422	17,519
Sex				
Male.....	7,081	9,350	9,394	6,385
Female.....	7,290	9,962	9,898	9,036
Race/ethnicity				
White, non-Hispanic.....	14,371	—	—	15,914
Black, non-Hispanic.....	12,333	—	—	13,612
Hispanic.....	2,038	—	—	2,102
Asian.....	—	—	—	665
Other.....	—	—	—	210
Socioeconomic status composite (SES) <sup>1</sup>				
Low.....	—	—	—	4,786
Middle.....	—	—	—	6,322
High.....	—	—	—	4,171
Father's highest level of education				
Less than high school.....	3,811	—	—	—
High school graduate <sup>2</sup> .....	6,223	—	—	—
College graduate <sup>3</sup> .....	2,404	—	—	—
High school program (self-reported)				
Academic.....	4,471	—	—	—
General.....	6,336	—	—	—
Vocational.....	3,584	—	—	—

<sup>1</sup>The SES index is a composite of five equally-weighted measures: father's education, mother's education, family income, father's occupation, and presence of certain items in the respondent's household.

<sup>2</sup>Includes attendance at a vocational, trade, or business school, or 2-year college, or attendance at a 4-year college resulting in less than a bachelor's degree.

<sup>3</sup>Includes those with a bachelor's or higher-level degree.

—Data not applicable.

NOTE.—Sample sizes for categories of classification variables may not sum to the total number of respondents because of missing or excluded data. Because of item nonresponse, the actual number of respondents answering each question in a series of related questions will vary.

**Table A8.—Approximate standard errors for percentages estimated from National Longitudinal Study survey: 1979**

Size of sample	Estimated percentages				
	10 or 90	20 or 80	30 or 70	40 or 60	50
250 .....	2.28	3.04	3.48	3.72	3.79
500 .....	1.81	2.5	2.46	2.63	2.68
1,000 .....	1.14	1.5	1.74	1.86	1.90
2,000 .....	0.81	1.07	1.23	1.31	1.34
3,000 .....	0.66	0.88	1.00	1.07	1.10
4,000 .....	0.57	0.76	0.87	0.93	0.95
5,000 .....	0.51	0.68	0.78	0.83	0.85
6,000 .....	0.48	0.62	0.71	0.76	0.77
8,000 .....	0.40	0.54	0.61	0.66	0.67
10,000 .....	0.38	0.48	0.55	0.59	0.60
12,000 .....	0.33	0.44	0.50	0.54	0.55
16,000 .....	0.28	0.38	0.43	0.46	0.47
20,000 .....	0.25	0.34	0.39	0.42	0.42

**Table A9.—Respondent counts of full-time workers from the Recent College Graduate survey: 1976 to 1987**

Field of study	Number employed full time			
	1974-75 graduates in May 1976	1979-80 graduates in May 1981	1983-84 graduates in May 1985	1985-86 graduates in May 1987
<b>Total respondents (unweighted) .....</b>	<b>2,464</b>	<b>5,521</b>	<b>6,799</b>	<b>15,024</b>
Professions .....	1,840	4,260	2,743	8,987
Arts and sciences .....	514	811	1,373	4,869
Other .....	110	450	2,683	1,168
Newly qualified to teach .....	1,337	2,469	1,215	2,546
Not newly qualified to teach .....	1,127	3,052	5,584	12,478
Professions .....	601	1,841	2,743	7,043
Engineering .....	80	270	601	915
Business and management .....	290	749	1,522	2,407
Health .....	72	252	379	3,106
Education <sup>1</sup> .....	141	464	100	521
Public affairs and services .....	18	106	141	94
Arts and sciences .....	433	770	1,373	4,369
Biological sciences .....	83	116	136	380
Physical sciences and mathematics .....	40	103	136	1,782
Psychology .....	64	105	188	366
Social sciences .....	107	252	432	780
Humanities .....	139	194	481	1,061
Other .....	93	441	1,468	1,066
Communications .....	7	73	240	392
Miscellaneous .....	86	368	1,228	674

<sup>1</sup>Includes those who had not finished all requirements for teaching certification or were previously qualified to teach.

**Table A10.—Standard errors for selected items in the 1985 "Survey of School Discipline Policies and Practices"**

Items for secondary schools	Estimate	Standard error	95% confidence interval	
			Lower	Upper
Percent of secondary schools indicating that compared with 5 years ago, disruptive classroom behavior is				
Less now, all schools.....	65.9	1.6	62.8	69.0
Less now, junior high schools.....	59.1	2.5	54.2	64.0
Less now, senior high schools.....	72.7	2.2	68.4	77.0
More now, all schools.....	12.0	1.3	9.5	14.5
Percent of schools with one or more occurrences of the following infractions <sup>1</sup>				
Student caught selling illegal drugs at school, all schools.....	34.9	1.9	31.2	38.6
Student caught selling illegal drugs at school, junior high schools.....	30.5	2.9	24.8	36.2
Student caught selling illegal drugs at school, senior high schools.....	39.4	2.3	34.9	43.9
Thefts of personal items, <sup>2</sup> all schools.....	82.3	1.7	78.0	85.6
Thefts of personal items, <sup>2</sup> small schools (less than 400 students).....	71.3	4.3	62.9	79.7
Thefts of personal items, <sup>2</sup> large schools (1,000 or more students).....	93.2	1.6	90.1	96.3
Percent of schools with one or more occurrences of the following disciplinary actions <sup>1</sup>				
Suspension for disciplinary reasons, all schools.....	95.7	0.8	94.1	97.3
Suspension for disciplinary reasons, small schools (less than 400 students).....	89.3	2.7	84.0	94.6
Suspension for disciplinary reasons, large schools (1,000 or more students).....	99.3	0.5	98.3	100.3
Expulsions, all schools.....	36.8	1.8	33.3	40.3
Expulsions, urban schools.....	44.9	4.9	35.3	54.5
Expulsions, rural schools.....	35.4	2.6	30.3	40.5
Average number of occurrence, per 100 students of the following disciplinary actions: <sup>1</sup>				
Suspension for disciplinary reasons, all schools.....	10.0	0.50	9.0	11.0
Suspension for disciplinary reasons, small schools (less than 400 students).....	7.1	1.10	4.9	9.3
Suspension for disciplinary reasons, large schools (1,000 or more students).....	13.7	1.00	11.7	15.7
Expulsions, all schools.....	0.3	0.04	0.2	0.4
Expulsions, urban schools.....	0.6	0.20	0.2	1.0
Expulsions, rural schools.....	0.2	0.03	0.1	0.3

<sup>1</sup>Data are for the 1983-84 school year.  
<sup>2</sup>Includes only reported thefts of personal items valued at \$10.00 or more.

**Table A11.—Estimated enrollment rates and standard errors in the October Current Population Survey**

Base of percentage, in thousands	Estimated percentage				
	2 or 98	5 or 95	10 or 90	25 or 75	50
<b>Total or white persons</b>					
100.....	2.1	3.3	4.6	6.6	7.6
250.....	1.3	2.1	2.9	4.2	4.8
500.....	1.0	1.5	2.0	2.9	3.4
1,000.....	0.7	1.0	1.4	2.1	2.4
2,500.....	0.4	0.7	0.9	1.3	1.5
5,000.....	0.3	0.5	0.6	0.9	1.1
10,000.....	0.2	0.3	0.5	0.7	0.8
25,000.....	0.13	0.2	0.3	0.4	0.5
50,000.....	0.09	0.15	0.2	0.3	0.3
100,000.....	0.07	0.10	0.05	0.2	0.2
150,000.....	0.05	0.12	0.12	0.2	0.2
<b>Black or Hispanic persons</b>					
75.....	2.6	4.1	5.6	8.1	9.3
100.....	2.3	3.5	4.8	7.0	8.1
250.....	1.4	2.2	3.1	4.4	5.1
500.....	1.0	1.6	2.2	3.1	3.8
1,000.....	0.7	1.1	1.5	2.2	2.5
2,500.....	0.5	0.7	1.0	1.4	1.6
5,000.....	0.3	0.5	0.7	1.0	1.1
10,000.....	0.2	0.4	0.5	0.7	0.8
15,000.....	0.2	0.3	0.4	0.6	0.7
20,000.....	0.2	0.2	0.3	0.5	0.6

**Table A12.—Estimated educational attainment rates and standards errors in the March Current Population Survey**

Estimate	Base of percentage, in thousands	Standard Error	90 percent confidence interval
2 or 98 <sup>1</sup> .....	100	2.00	0 to 5.2
	100,000	0.06	1.9 to 2.1
10 or 90 .....	100	4.3	3.1 to 16.9
	100,000	0.14	9.8 to 10.2
50 .....	100	7.20	38.5 to 61.5
	100,000	0.20	49.7 to 50.3

<sup>1</sup>The confidence interval for the larger values can be found by taking the complement of that shown, e.g. for 98 it would be 94.8 to 100.

**Table A13.—Estimated standard errors for selected estimates of persons from the "Participation in Adult Education" CPS supplement**

Estimate	Standard Error	90 percent confidence interval
10 .....	4.5	2.8 to 17.2
50 .....	10.2	33.7 to 66.3
500 .....	30.0	452 to 548
50,000 .....	253.0	49,595 to 50,405

**Table A14.—Estimated participation rates and standard errors in the "Participation in Adult Education" CPS supplement**

	Base of Percentage in thousands	Standard error	90 percent estimate confidence interval
1 or 99 <sup>1</sup> .....	50	2.4	0 to 4.8
	5,000	0.2	0.68 to 1.3
10 or 90 .....	50	7.1	0 to 21.4
	5,000	0.7	8.9 to 11.1
50 .....	50	11.8	31.1 to 68.9
	5,000	1.2	48.1 to 51.9

<sup>1</sup>The confidence interval for the larger values can be found by taking the complement of that shown, e.g., for 99 it would be 95.2 to 100.

**Table A15.—Percent of seniors who had ever used selected drugs and 95 percent confidence limits: 1986<sup>1</sup>**

Drug	Lower limit	Observed estimate	Upper limit
Alcohol.....	89.7	91.3	92.7
Marijuana/hashish.....	48.7	50.9	53.1
LSD.....	6.3	7.2	8.2
PCP.....	3.8	4.8	6.0
Cocaine.....	15.5	16.9	18.4
Heroin.....	0.8	1.1	1.4

<sup>1</sup>Approximate sample size = 15,200.

**Table A16.—Sampling errors (95 percent confidence level) for percentages estimated from the Gallup Poll, 1987**

Percent	Size of sample						
	1,500	1,000	750	600	400	200	100
Recommended allowance for sampling error of a percentage							
Percentages near 10 or 90.....	2	2	3	3	4	5	8
Percentages near 20 or 80.....	3	3	4	4	5	7	10
Percentages near 30 or 70.....	3	4	4	5	6	8	12
Percentages near 40 or 60.....	3	4	5	5	6	9	12
Percentages near 50.....	3	4	5	5	6	9	13

**Table A17.—Sampling errors (95 percent confidence level) for the difference in two percentages estimated from the Gallup Poll: 1987**

Size of sample	Size of sample					
	1,000	750	600	400	200	100
Recommended allowance for sampling error of a difference in percentages (percentages near 80 or 20)						
1,500.....	4					
1,000.....	4	5				
750.....	5	5	5			
600.....	5	5	6	6		
400.....	6	6	6	7	7	
200.....	8	8	8	8	9	10
Recommended allowance for sampling error of a difference in percentages (percentages near 50)						
1,500.....	5					
1,000.....	5	6				
750.....	6	6	7			
600.....	6	7	7	7		
400.....	7	8	8	8	9	
200.....	10	10	10	10	11	13

**Table A18.—Approximate sampling errors (95 percent confidence level) for percentages estimated from Metropolitan Life "Survey of the American Teacher, 1987"**

Percentage	Size of sample					
	2000	1500	1000	500	200	100
Recommended allowance for sampling error of a percentage						
Percentages near 10 or 90 .....	1	2	2	3	4	6
Percentages near 20 or 80 .....	2	2	2	4	6	8
Percentages near 30 or 70 .....	2	2	3	4	6	9
Percentages near 40 or 60 .....	2	3	3	4	7	10
Percentages near 50 .....	2	3	3	4	7	10

**Table A19.—Approximate sampling errors (95 percent confidence level) for the differences in two percentages estimated from the Metropolitan Life "Survey of the American Teacher, 1987"**

Sample sizes of two groups being compared	Recommended allowance for sampling error of a difference in percentages				
	Percentage result at 10% or 90%	Percentage result at 20% or 80%	Percentage result at 30% or 70%	Percentage result at 40% or 60%	Percentage result at 50%
2,000 vs. 1,000 .....	2	3	4	4	4
1,000 vs. 1,000 .....	3	4	4	4	4
1,000 vs. 200 .....	5	6	7	7	8
1,000 vs. 100 .....	6	8	9	10	10
200 vs. 100 .....	7	10	11	12	12

**Table A20.—Maximum differences required for significance (90 percent confidence level) between sample subgroups of the "Status of the American Public School Teacher" survey**

Size of one subgroup	Size of other subgroup						
	100	200	300	400	500	600	700
100 .....	11.6	10.1	9.5	9.2	9.0	8.9	8.8
200 .....	10.1	8.2	7.5	7.1	6.9	6.7	6.6
300 .....	9.5	7.5	6.7	6.3	6.0	5.8	5.7
400 .....	9.2	7.1	6.3	5.8	5.5	5.3	5.2
500 .....	9.0	6.9	6.0	5.5	5.2	5.0	4.8
600 .....	8.9	6.7	5.8	5.3	5.0	4.7	4.6
700 .....	8.8	6.6	5.7	5.2	4.8	4.6	4.4

## Definitions

**Academic support** This category of college expenditures includes expenditures for support services that are an integral part of the institution's primary missions of instruction, research, or public service. Includes expenditures for libraries, galleries, audio/visual services, academic computing support, ancillary support, academic administration, personnel development, and course and curriculum development.

**Achievement test** An examination that measures the extent to which a person has acquired certain information or mastered certain skills, usually as a result of specific instruction.

**Agriculture** Courses designed to improve competencies in agricultural occupations. Included is the study of agricultural production, supplies, mechanization and products, agricultural science, forestry, and related services.

**American College Testing Program (ACT)** The ACT assessment program measures educational development and readiness to pursue college-level coursework in English, mathematics, natural science, and social studies. Student performance on the tests does not reflect innate ability and is influenced by a student's educational preparedness.

**Appropriations (Federal funds)** Budget authority provided through the congressional appropriation process that permits Federal agencies to incur obligations and to make payments.

**Appropriation (institutional revenues)** An amount (other than a grant or contract) received from or made available to an institution through an act of a legislative body.

**Associate degree** A degree granted for the successful completion of a sub-baccalaureate program of studies, usually requiring at least 2 years (or equivalent) of full-time college-level study. This includes degrees granted in a cooperative or work-study program.

**Auxiliary enterprises** This category includes those essentially self-supporting operations which exist to furnish a service to students, faculty, or staff, and which charge a fee that is directly related to, although not necessarily equal to, the cost of the serv-

ice. Examples are residence halls, food services, college stores, and intercollegiate athletics.

**Average daily attendance (ADA)** The aggregate attendance of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered days in session.

**Average daily membership (ADM)** The aggregate membership of a school during a reporting period (normally a school year) divided by the number of days school is in session during this period. Only days on which the pupils are under the guidance and direction of teachers should be considered as days in session. The average daily membership for groups of schools having varying lengths of terms is the average of the average daily memberships obtained for the individual schools.

**Bachelor's degree** A degree granted for the successful completion of a baccalaureate program of studies, usually requiring at least 4 years (or equivalent) of full-time college-level study. This includes degrees granted in a cooperative or work-study program.

**Budget authority (BA)** Authority provided by law to enter into obligations that will result in immediate or future outlays. It may be classified by the period of availability (1-year, multiple-year, no-year), by the timing of congressional action (current or permanent), or by the manner of determining the amount available (definite or indefinite).

**Business** Program of instruction that prepares individuals for a variety of activities in planning, organizing, directing, and controlling business office systems and procedures.

**Carnegie unit** A standard of measurement that represents one credit for the completion of a 1-year course.

**Catholic school** A private school over which a Roman Catholic church group exercises some control or provides some form of subsidy. Catholic schools for the most part include those operated or

supported by: a parish, a group of parishes, a diocese, or a Catholic religious order.

**Central cities** The largest cities, with 50,000 or more inhabitants, in a Metropolitan Statistical Area (MSA). A smaller city within a MSA may also qualify if it has at least 25,000 inhabitants or has a population of one-third or more of that of the largest city and a minimum population of 25,000. An exception occurs where two cities have contiguous boundaries and constitute, for economic and social purposes, a single community of at least 50,000, the smaller of which must have a population of at least 15,000.

**Class size** The membership of a class at a given date.

**Classroom teacher** A staff member assigned the professional activities of instructing pupils in self-contained classes or courses, or in classroom situations. Usually expressed in full-time equivalents.

**Cohort** A group of individuals that have a statistical factor in common, for example, year of birth.

**College** A postsecondary school which offers general or liberal arts education, usually leading to an associate, bachelor's, master's, doctor's, or first-professional degree. Junior colleges and community colleges are included under this terminology.

**Combined elementary and secondary school** A school which encompasses instruction at both the elementary and the secondary levels. Examples of combined elementary and secondary school grade spans would be 1 through 12 or 5 through 12.

**Computer science** A group of instructional programs that describes computer and information sciences, including computer programming, data processing, and information systems.

**Constant dollars** Dollar amounts that have been adjusted by means of price and cost indexes to eliminate inflationary factors and allow direct comparison across years.

**Consumer, personal, and miscellaneous services** A group of instructional programs that describes the fundamental skills a person is normally thought to need in order to function productively in society. Some examples are child development, consumer education, and family relations.

**Consumer Price Index (CPI)** This price index measures the average change in the cost of a fixed market basket of goods and services purchased by consumers.

**Consumption** That portion of income which is spent on the purchase of goods and services rather than being saved.

**Credit** The unit of value, awarded for the successful completion of certain courses, intended to indicate the quantity of course instruction in relation to the total requirements for a diploma, certificate, or degree. Credits are frequently expressed in terms such as "Carnegie units," "semester credit hours," and "quarter credit hours."

**Current dollars** Dollar amounts that have not been adjusted to compensate for inflation.

**Current expenditures (elementary/secondary)** The expenditures for operating local public schools, excluding capital outlay and interest on school debt. These expenditures include such items as salaries for school personnel, fixed charges, student transportation, school books and materials, and energy costs. Beginning in 1980-81, expenditures for State administration are excluded.

**Current expenditures per pupil in average daily attendance** Current expenditures for the regular school term divided by the average daily attendance of full-time pupils (or full-time equivalency of pupils) during the term. See also *Current expenditures* and *Average daily attendance*.

**Current-fund expenditures (higher education)** Money spent to meet current operating costs, including salaries, wages, utilities, student services, public services, research libraries, scholarships and fellowships, auxiliary enterprises, hospitals, and independent operations. Excludes loans, capital expenditures, and investments.

**Current-fund revenues (higher education)** Money received during the current fiscal year from revenue which can be used to pay obligations currently due, and surpluses reappropriated for the current fiscal year.

**Current Population Survey** See Guide to Sources.

**Disposable personal income** Current income received by persons less their contributions for social insurance, personal tax, and nontax payments. It is the income available to persons for spending and saving. Nontax payments include passport fees, fines and penalties, donations, and tuitions and fees paid to schools and hospitals operated mainly by the government. See also *Personal income*.

**Doctor's degree** An earned degree carrying the title of Doctor. The Doctor of Philosophy degree



(Ph.D.) is the highest academic degree and requires mastery within a field of knowledge and demonstrated ability to perform scholarly research. Other doctorates are awarded for fulfilling specialized requirements in professional fields, such as education (Ed.D.), musical arts (D.M.A.), business administration (D.B.A.), and engineering (D.Eng. or D.E.S.). Many doctor's degrees in academic and professional fields require an earned master's degree as a prerequisite. First-professional degrees, such as M.D. and D.D.S., are not included under this heading.

**Educational attainment** The highest grade of regular school attended and completed.

**Educational and general expenditures** The sum of current funds expenditures on instruction, research, public service, academic support, student services, institutional support, operation and maintenance of plant, and awards from restricted and unrestricted funds.

**Elementary education/programs** Learning experiences concerned with the knowledge, skills, appreciations, attitudes, and behavioral characteristics which are considered to be needed by all pupils in terms of their awareness of life within our culture and the world of work, and which normally may be achieved during the elementary school years (usually kindergarten through grade 8 or kindergarten through grade 6), as defined by applicable State laws and regulations.

**Elementary school** A school classified as elementary by State and local practice and composed of any span of grades not above grade 8. A preschool or kindergarten school is included under this heading only if it is an integral part of an elementary school or a regularly established school system.

**Elementary/secondary school** As reported in this publication, includes only regular school, i.e., schools that are part of State and local school systems, and also most not-for-profit private elementary/secondary schools, both religiously affiliated and nonsectarian. Schools not reported include subcollegiate departments of institutions of higher education, residential schools for exceptional children, Federal schools for American Indians, and Federal schools on military posts and other Federal installations.

**Employment** Includes civilian, noninstitutional persons who (1) worked during any part of the survey week as paid employees; worked in their own business, profession, or farm; or worked 15 hours or more as unpaid workers in a family-owned enterprise; or (2) were not working but had jobs or businesses from which they were temporarily absent due

to illness, bad weather, vacation, labor-management dispute, or personal reasons—whether or not they were seeking another job.

**Endowment** A trust fund set aside to provide a perpetual source of revenue from the proceeds of the endowment investments. Endowment funds are often created by donations from benefactors of an institution, who may designate the use of the endowment revenue. Normally, institutions or their representatives manage the investments, but they are not permitted to spend the endowment fund itself, only the proceeds from the investments. Typical uses of endowments would be an endowed chair for a particular department or for a scholarship fund. Endowment totals tabulated in this book also include funds functioning as endowments, such as funds left over from the previous year and placed with the endowment investments by the institution. These funds may be withdrawn by the institution and spent as current funds at any time. Endowments are evaluated by two different measures, book value and market value. Book value is the purchase price of the endowment investment. Market value is the current worth of the endowment investment. Thus, the book value of a stock held in an endowment fund would be the purchase price of the stock. The market value of the stock would be its selling price as of a given day.

**English** A group of instructional programs that describes the English language arts, including composition, creative writing, and the study of literature.

**Enrollment** The total number of students registered in a given school unit at a given time, generally in the fall of a year.

**Expenditures** Charges incurred, whether paid or unpaid, which are presumed to benefit the current fiscal year. For elementary/secondary schools, these include all charges for current outlays plus capital outlays and interest on school debt. For institutions of higher education, these include current outlays plus capital outlays. For government, these include charges net of recoveries and other correcting transactions other than for retirement of debt, investment in securities, extension of credit, or as agency transaction. Government expenditures include only external transactions, such as the provision of perquisites or other payments in kind. Aggregates for groups of governments exclude intergovernmental transactions among the government.

**Expenditures per pupil** Charges incurred for a particular period of time divided by a student unit of

measure, such as average daily attendance or average daily membership.

**Extracurricular activities** Activities that are not part of the required curriculum and that take place outside of the regular course of study. As used here, they include both school-sponsored (e.g., varsity athletics, drama and debate clubs) and community-sponsored (e.g., hobby clubs and youth organizations like the Junior Chamber of Commerce or Boy Scouts) activities.

**Family** A group of two persons or more (one of whom is the householder) related by birth, marriage, or adoption and residing together. All such persons (including related subfamily members) are considered as members of one family.

**Federal funds** Amounts collected and used by the Federal Government for the general purposes of the Government. There are four types of Federal fund accounts: the general fund, special funds, public enterprise funds, and intragovernmental funds. The major Federal fund is the general fund, which is derived from general taxes and borrowing. Federal funds also include certain earmarked collections, such as those generated by and used to finance a continuing cycle of business-type operations.

**First-professional degree** A degree that signifies both completion of the academic requirements for beginning practice in a given profession and a level of professional skill beyond that normally required for a bachelor's degree. This degree usually is based on a program requiring at least 2 academic years of work prior to entrance and a total of at least 6 academic years of work to complete the degree program, including both prior-required college work and the professional program itself. By NCES definition, first-professional degrees are awarded in the fields of dentistry (D.D.S or D.M.D.), medicine (M.D.), optometry (O.D.), osteopathic medicine (D.O.), pharmacy (D.Pharm.), podiatric medicine (D.P.M.), veterinary medicine (D.V.M.), chiropractic (D.C. or D.C.M.), law (J.D.), and theological professions (M.Div. or M.H.L.).

**First-professional enrollment** The number of students enrolled in a professional school or program which requires at least 2 years of academic college work for entrance and a total of at least 6 years for a degree. By NCES definition, first-professional enrollment includes only students in certain programs. (See *First-professional degree* for a list of programs.)

**Fiscal year** The yearly accounting period for the Federal Government, which begins on October 1 and ends on the following September 30. The fiscal year is designated by the calendar year in which it ends;

e.g., fiscal year 1988 begins on October 1, 1987, and ends on September 30, 1988. (From fiscal year 1844 to fiscal year 1976, the fiscal year began on July 1 and ended on the following June 30.)

**Foreign languages** A group of instructional programs that describes the structure and use of language that is common or indigenous to people of the same community or nation, the same geographical area, or the same cultural traditions. Programs cover such features as sound, literature, syntax, phonology, semantics, sentences, prose, and verse, as well as the development of skills and attitudes used in communicating and evaluating thoughts and feelings through oral and written language.

**Full-time-equivalent (FTE) enrollment** For institutions of higher education, enrollment of full-time students, plus the full-time equivalent of part-time students as reported by institutions. In the absence of an equivalent reported by an institution, the FTE enrollment is estimated by adding one-third of part-time enrollment to full-time enrollment.

**Full-time instructional faculty** Those members of the instruction/research staff who are employed full time as defined by the institution, including faculty with released time for research and faculty on sabbatical leave. Full-time counts exclude faculty who are employed to teach less than two semesters, three quarters, two trimesters, or two 4-month sessions; replacements for faculty on sabbatical leave or those on leave without pay; faculty for preclinical and clinical medicine; faculty who are donating their services; faculty who are members of military organizations and paid on a different pay scale from civilian employees; academic officers, whose primary duties are administrative; and graduate students who assist in the instruction of courses.

**Full-time enrollment** The number of students enrolled in higher education courses with total credit load equal to at least 75 percent of the normal full-time course load.

**Full-time worker** In educational institutions, an employee whose position requires being on the job on school days throughout the school year at least the number of hours the schools are in session. For higher education, a member of an educational institution's staff who is employed full time.

**General Educational Development (GED) program** Academic instruction to prepare persons to take the high school equivalency examination. See *GED recipient*.

**GED recipient** A person who has obtained certification of high school equivalency by meeting State requirements and passing an approved exam, which is intended to provide an appraisal of the person's achievement or performance in the broad subject matter areas usually required for high school graduation.

**General program** A program of studies designed to prepare students for the common activities of a citizen, family member, and worker. A general program of studies may include instruction in both academic and vocational areas.

**Geographic region** 1) One of four regions used by the Bureau of Economic Analysis of the U.S. Department of Commerce, the National Assessment of Educational Progress, and the National Education Association, as follows: (The National Education Association designated the Central region as Middle region in its classification.)

**Northeast**

Connecticut  
Delaware  
District of Columbia  
Maine  
Maryland  
Massachusetts  
New Hampshire  
New Jersey  
New York  
Pennsylvania  
Rhode Island  
Vermont

**Southeast**

Alabama  
Arkansas  
Florida  
Georgia  
Kentucky  
Louisiana  
Mississippi  
North Carolina  
South Carolina  
Tennessee  
Virginia  
West Virginia

**Central (Middle)**

Illinois  
Indiana  
Iowa  
Kansas  
Michigan  
Minnesota  
Missouri  
Nebraska  
North Dakota  
Ohio  
South Dakota  
Wisconsin

**West**

Alaska  
Arizona  
California  
Colorado  
Hawaii  
Idaho  
Montana  
Nevada  
New Mexico  
Oklahoma  
Oregon  
Texas  
Utah  
Washington  
Wyoming

2) One of the regions or divisions used by the U.S. Bureau of the Census in Current Population Survey tabulations, as follows:

**Northeast**

(New England)

**Midwest**

(East North Central)

Maine  
New Hampshire  
Vermont  
Massachusetts  
Rhode Island  
Connecticut

(Middle Atlantic)

New York  
New Jersey  
Pennsylvania

Ohio  
Indiana  
Illinois  
Michigan  
Wisconsin

(West North Central)

Minnesota  
Iowa  
Missouri  
North Dakota  
South Dakota  
Nebraska  
Kansas

**South**

(South Atlantic)

Delaware  
Maryland  
District of Columbia  
Virginia  
West Virginia  
North Carolina  
South Carolina  
Georgia  
Florida

**West**

(Mountain)

Montana  
Idaho  
Wyoming  
Colorado  
New Mexico  
Arizona  
Utah  
Nevada

(East South Central)

Kentucky  
Tennessee  
Alabama  
Mississippi

(Pacific)

Washington  
Oregon  
California  
Alaska  
Hawaii

(West South Central)

Arkansas  
Louisiana  
Oklahoma  
Texas

**Government appropriation** An amount (other than a grant or contract) received from or made available to an institution through an act of a legislative body.

**Government grant or contract** Revenues from a government agency for a specific research project or other program.

**Graduate** An individual who has received formal recognition for the successful completion of a prescribed program of studies.

**Graduate enrollment** The number of students who hold the bachelor's or first-professional degree, or the equivalent, and who are working towards a master's or doctor's degree. First-professional students are counted separately. These enrollment data measure those students who are registered at a par-

ticular time during the fall. At some institutions, graduate enrollment also includes students who are in postbaccalaureate classes but not in degree programs. In specified tables, graduate enrollment includes all students in regular graduate programs and all students in postbaccalaureate classes but not in degree programs (unclassified postbaccalaureate students).

**Graduate Record Examination (GRE)** Multiple-choice examinations administered by the Educational Testing Service and taken by applicants who are intending to attend certain graduate schools. Two generalized tests are offered, plus specialized tests in a variety of subject areas. Ordinarily, a student will take only the specialized test that applies to the intended field of study.

**Graduation** Formal recognition given an individual for the successful completion of a prescribed program of studies.

**Gross national product (GNP)** The total national output of goods and services valued at market prices. GNP can be viewed in terms of expenditure categories which include purchases of goods and services by consumers and government, gross private domestic investment, and net exports of goods and services. The goods and services included are largely those bought for final use (excluding illegal transactions) in the market economy. A number of inclusions, however, represent imputed values, the most important of which is rental value of owner-occupied housing. GNP, in this broad context, measures the output attributable to the factors of production—labor and property—supplied by U.S. residents.

**Handicapped** Those children evaluated as having any of the following impairments, who because of these impairments need special education and related services. (These definitions apply specifically to data from the U.S. Office of Special Education) and Rehabilitative Services presented in this publication.)

**Deaf** Having a hearing impairment which is so severe that the student is impaired in processing linguistic information through hearing (with or without amplification) and which adversely affects educational performance.

**Deaf-blind** Having concomitant hearing and visual impairments which cause such severe communication and other developmental and educational problems that the student cannot be accommodated in special education programs solely for deaf or blind students.

**Hard of hearing** Having a hearing impairment, whether permanent or fluctuating, which adversely

affects the student's educational performance, but which is not included under the definition of "deaf" in this section.

**Mentally retarded** Having significantly subaverage general intellectual functioning, existing concurrently with defects in adaptive behavior and manifested during the developmental period, which adversely affects the child's educational performance.

**Multihandicapped** Having concomitant impairments (such as mentally retarded-blind, mentally retarded-orthopedically impaired, etc.), the combination of which causes such severe educational problems that the student cannot be accommodated in special education programs solely for one of the impairments. Term does not include deaf-blind students but does include those students who are severely or profoundly mentally retarded.

**Orthopedically impaired** Having a severe orthopedic impairment which adversely affects a student's educational performance. The term includes impairment resulting from congenital anomaly, disease, or other causes.

**Other health impaired** Having limited strength, vitality, or alertness—due to chronic or acute health problems such as a heart condition, tuberculosis, rheumatic fever, nephritis, asthma, sickle cell anemia, hemophilia, epilepsy, lead poisoning, leukemia, or diabetes—which adversely affects the student's educational performance.

**Seriously emotionally disturbed** Exhibiting one or more of the following characteristics over a long period of time, to a marked degree, and adversely affecting educational performance: an inability to learn which cannot be explained by intellectual, sensory, or health factor; an inability to build or maintain satisfactory interpersonal relationships with peers and teachers; inappropriate types of behavior or feelings under normal circumstances; a general pervasive mood of unhappiness or depression; or a tendency to develop physical symptoms or fears associated with personal or school problems. This term does not include children who are socially maladjusted, unless they also display one or more of the listed characteristics.

**Specific learning disabled** Having a disorder in one or more of the basic psychological processes involved in understanding or in using spoken or written language, which may manifest itself in an imperfect ability to listen, think, speak, read, write, spell, or do mathematical calculations. The term

includes such conditions as perceptual handicaps, brain injury, minimal brain dysfunction, dyslexia, and developmental aphasia. The term does not include children who have learning problems which are primarily the result of visual, hearing, or environmental, cultural, or economic disadvantage.

**Speech impaired** Having a communication disorder, such as stuttering, impaired articulation, language impairment, or voice impairment, which adversely affects the student's educational performance.

**Visually handicapped** Having a visual impairment which, even with correction, adversely affects the student's educational performance. The term includes partially seeing and blind children.

**Higher education** Study beyond secondary school at an institution that offers programs terminating in an associate, baccalaureate, or higher degree.

**Higher education institutions (alternative classification)**

**Doctoral-granting** Characterized by a significant level and breadth of activity in commitment to doctoral-level education as measured by the number of doctorate recipients and the diversity in doctoral-level program offerings.

**Comprehensive** Characterized by diverse post-baccalaureate programs (including first-professional) but not engaged in significant doctoral-level education.

**General baccalaureate** Characterized by primary emphasis on general undergraduate, baccalaureate-level education. Not significantly engaged in postbaccalaureate education.

**Specialized** Baccalaureate or postbaccalaureate institution emphasizing one area (plus closely related specialties), such as business or engineering. The programmatic emphasis is measured by the percentage of degrees granted in the program area.

**2-year** Conferring at least 75 percent of its degrees and awards for work below the bachelor's level.

**New** These institutions, though not necessarily newly organized, are new additions to the Integrated Postsecondary Education Data System (IPEDS) universe. When degree and award data become available, they will be reclassified.

**Non-degree-granting** Offering undergraduate or graduate study but not conferring degrees or

awards. In this volume, these institutions are included under *Specialized*.

**Higher education institutions (traditional classification)**

**4-year institution** An institution legally authorized to offer and offering at least a 4-year program of college-level studies wholly or principally creditable toward a baccalaureate degree. In some tables, a further division between universities and other 4-year institutions is made. A "university" is a postsecondary institution which typically comprises one or more graduate professional schools (also see *University*). For purposes of trend comparisons in this volume, the selection of universities has been held constant for all tabulations after 1982. "Other 4-year institutions" would include the rest of the nonuniversity 4-year institutions.

**2-year institution** An institution legally authorized to offer and offering at least a 2-year program of college-level studies which terminates in an associate degree or is principally creditable toward a baccalaureate degree.

**Higher Education Price Index** A price index which measures average changes in the prices of goods and services purchased by colleges and universities through current-fund education and general expenditures (excluding expenditures for sponsored research and auxiliary enterprises).

**High school** A secondary school offering the final years of high school work necessary for graduation, usually including grades 10, 11, 12 (in a 6-3-3 plan) or grades 9, 10, 11, and 12 (in a 6-2-4 plan).

**High school program** A program of studies designed to prepare students for their postsecondary education and occupation. Three types of programs are usually distinguished—academic, vocational, and general. An academic program is designed to prepare students for continued study at a college or university. A vocational program is designed to prepare students for employment in one or more semiskilled, skilled, or technical occupations. A general program is designed to provide students with the understanding and competence to function effectively in a free society and usually represents a mixture of academic and vocational components.

**Household** All the persons who occupy a housing unit. A house, apartment, or other group of rooms, or a single room, is regarded as a housing unit when it is occupied or intended for occupancy as separate living quarters, that is, when the occupants do not live and eat with any other persons in the structure,

and there is direct access from the outside or through a common hall.

**Imaginative writing** This type of writing can take a variety of forms, such as stories, poems, plays, or lyrics. It represents a special approach to sharing experiences and understanding the world and ourselves. In this form of writing, special attention is given to rhythm and tone; the use of anecdote; the presence of metaphor and simile; shifts in plots; and the unexpected use of words, phrases, or punctuation.

**Income tax** Taxes levied on net income, that is, on gross income less certain deductions permitted by law. These taxes can be levied on individuals or on corporations or unincorporated businesses where the income is taxed distinctly from individual income.

**Independent operations** A group of self-supporting activities under control of a college or university. For purposes of financial surveys conducted by the National Center for Education Statistics, this category is composed principally of Federally Funded Research and Development Centers (FFRDC).

**Informative writing** This type of writing is used to share information and to convey messages, directions, and ideas. It often involves reporting or retelling events or experiences that have already occurred.

**Institutional support** The category of higher education expenditures that includes day-to-day operational support for colleges, excluding expenditures for physical plant operations. Examples of institutional support include general administrative services, executive direction and planning, legal and fiscal operations, and community relations.

**Instruction** That category including expenditures of the colleges, schools, departments, and other instructional divisions of higher education institutions and expenditures for departmental research and public service which are not separately budgeted. Includes expenditures for both credit and noncredit activities. Excludes expenditures for academic administration where the primary function is administration (e.g., academic deans).

**Instructional staff** Full-time-equivalent number of positions, not the number of different individuals occupying the positions during the school year. In local schools, includes all public elementary and secondary (junior and senior high) day-school positions that are in the nature of teaching or in the improvement of the teaching-learning situation. Includes consultants or supervisors of instruction, principals, teach-

ers, guidance personnel, librarians, psychological personnel, and other instructional staff. Excludes administrative staff, attendance personnel, clerical personnel, and junior college staff.

**Junior high school** A separately organized and administered secondary school intermediate between the elementary and senior high schools, usually including grades 7, 8, and 9 (in a 6-3-3 plan) or grades 7 and 8 (in a 6-2-4 plan).

**Labor force** Persons employed as civilians, unemployed (but looking for work), or in the armed services during the survey week. The "civilian labor force" comprises all civilians classified as employed or unemployed.

**Local education agency** See *School district*.

**Mandatory transfer** A transfer of current funds that must be made in order to fulfill a binding legal obligation of the institution. Included under mandatory transfers are debt service provisions relating to academic and administrative buildings, including (1) amounts set aside for debt retirement and interest and (2) required provisions for renewal and replacement of buildings to the extent these are not financed from other funds.

**Master's degree** A degree awarded for successful completion of a program generally requiring 1 or 2 years of full-time college-level study beyond the bachelor's degree. One type of master's degree, including the Master of Arts degree, or M.A., and the Master of Science degree, or M.S., is awarded in the liberal arts and sciences for advanced scholarship in a subject field or discipline and demonstrated ability to perform scholarly research. A second type of master's degree is awarded for the completion of a professionally oriented program, for example, an M.Ed. in education, an M.B.A. in business administration, an M.F.A. in fine arts, an M.M. in music, an M.S.W. in social work, and an M.P.A. in public administration. A third type of master's degree is awarded in professional fields for study beyond the first-professional degree, for example, the Master of Laws (LL.M.) and Master of Science in various medical specializations.

**Mathematics** A group of instructional programs that describes the science of logical symbolic language and its application.

**Mean test score** The score obtained by dividing the sum of the scores of all individuals in a group by the number of individuals in that group.

**Metropolitan population** The population residing in Metropolitan Statistical Areas (MSAs). See *Metropolitan Statistical Area*.

**Metropolitan Statistical Area (MSA)** A large population nucleus and the nearby communities which have a high degree of economic and social integration with that nucleus. Each MSA consists of one or more entire counties (or county equivalents) that meet specified standards pertaining to population, commuting ties, and metropolitan character. In New England, towns and cities, rather than counties, are the basic units. MSAs are designated by the Office of Management and Budget. An MSA includes a city and, generally, its entire urban area and the remainder of the county or counties in which the urban area is located. An MSA also includes such additional outlying counties which meet specified criteria relating to metropolitan character and level of commuting of workers into the central city or counties. Specified criteria governing the definition of MSAs recognized before 1980 are published in *Standard Metropolitan Statistical Areas: 1975*, issued by the Office of Management and Budget. New MSA's were designated when 1980 counts showed that they met one or both of the following criteria:

1. Included a city with a population of at least 50,000 within their corporate limits, or
2. Included a Census Bureau-defined urbanized area (which must have a population of at least 50,000) and a total MSA population of at least 100,000 (or, in New England, 75,000).

**Migration** Geographic mobility involving a change of usual residence between clearly defined geographic units, that is, between counties, States, or regions.

**Minimum-competency testing** Measuring the acquisition of competence or skills to or beyond a certain specified standard.

**National Assessment of Educational Progress (NAEP)** See Guide to Sources.

**Newly qualified teacher** Persons who (1) first became eligible for a teaching license during the period of the study referenced or who were teaching at the time of survey but were not certified or eligible for a teaching license and (2) had never held full-time, regular teaching positions (as opposed to substitute) prior to completing the requirements for the degree which brought them into the survey.

**Nonmetropolitan residence group** The population residing outside Metropolitan Statistical Areas. See *Metropolitan Statistical Area*.

**Nonresident alien** A person who is not a citizen of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely.

**Nonsupervisory instructional staff** Persons such as curriculum specialists, counselors, librarians, remedial specialists, and others possessing education certification but not responsible for day-to-day teaching of the same group of pupils.

**Obligations** Amounts of orders placed, contracts awarded, services received, or similar legally binding commitments made by Federal agencies during a given period that will require outlays during the same or some future period.

**Occupational home economics** Courses of instruction emphasizing the acquisition of competencies needed for getting and holding a job or preparing for advancement in an occupational area using home economics knowledge and skills.

**Off-Budget Federal entities** Organizational entities, federally owned in whole or in part, whose transactions belong in the budget under current budget accounting concepts but that have been excluded from the budget totals under provisions of law.

**Outlays** The value of checks issued, interest accrued on the public debt, or other payments made, net of refunds and reimbursements.

**Part-time enrollment** The number of students enrolled in higher education courses with a total credit load less than 75 percent of the normal full-time credit load.

**Personal income** Current income received by persons from all sources minus their personal contributions for social insurance. Classified as "persons" are individuals (including owners of unincorporated firms), nonprofit institutions serving individuals, private trust funds, and private noninsured welfare funds. Personal income includes transfers (payments not resulting from current production) from government and business such as social security benefits, military pensions, etc., but excludes transfers among persons.

**Persuasive writing** This type of writing attempts to bring about some action or change. Its primary purpose is to influence others. It is concerned with the positions, beliefs, and attitudes of the readers.

**Physical plant assets** Includes the values of land, buildings, and equipment owned, rented, or utilized

by colleges. Does not include those plant values which are a part of endowment or other capital fund investments in real estate. Excludes construction in progress.

**Postbaccalaureate enrollment** The number of graduate and first-professional students working towards advanced degrees and of students enrolled in graduate-level classes but not enrolled in degree programs. See also *Graduate enrollment* and *First-professional enrollment*.

**Postsecondary education** The provision of formal instructional programs with a curriculum designed primarily for students who have completed the requirements for a high school diploma or equivalent. This includes programs of an academic, vocational, and continuing professional education purpose, and excludes avocational and adult basic education programs.

**Private school or institution** A school or institution which is controlled by an individual or agency other than a State, a subdivision of a State, or the Federal Government, which is usually supported primarily by other than public funds, and the operation of whose program rests with other than publicly elected or appointed officials.

**Property tax** The sum of money collected from a tax levied against the value of property.

**Proprietary institution** An educational institution that is under private control but whose profits derive from revenues subject to taxation.

**Public school or institution** A school or institution controlled and operated by publicly elected or appointed officials and deriving its primary support from public funds.

**Pupil-teacher ratio** The enrollment of pupils at a given period of time, divided by the full-time-equivalent number of classroom teachers serving these pupils during the same period.

**Racial/ethnic group** Classification indicating general racial or ethnic heritage based on self-identification, as in data collected by the Bureau of the Census, or on observer identification, as in data collected by the Office for Civil Rights. These categories are in accordance with the Office of Management and Budget standard classification scheme presented below:

**White** A person having origins in any of the original peoples of Europe, North Africa, or the Middle East. Normally excludes persons of Hispanic origin except for tabulations produced by the Bureau of

the Census, which are noted accordingly in this volume.

**Black** A person having origins in any of the black racial groups in Africa. Normally excludes persons of Hispanic origin except for tabulations produced by the Bureau of the Census, which are noted accordingly in this volume.

**Hispanic** A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

**Asian or Pacific Islander** A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.

**American Indian or Alaskan Native** A person having origins in any of the original peoples of North America and maintaining cultural identification through tribal affiliation or community recognition.

**Remedial education** Instruction for a student lacking those reading, writing, or math skills necessary to perform college-level work at the level required by the attended institution.

**Resident population** Includes civilian population and armed forces personnel residing within the United States. Excludes armed forces personnel residing overseas.

**Revenues** All funds received from external sources, net of refunds, and correcting transactions. Noncash transactions such as receipt of services, commodities, or other receipts "in kind" are excluded as are funds received from the issuance of debt, liquidation of investments, and nonroutine sale of property.

**Salary** The total amount regularly paid or stipulated to be paid to an individual, before deductions, for personal services rendered while on the payroll of a business or organization.

**Sales tax** Tax imposed upon the sale and consumption of goods and services. It can be imposed either as a general tax on the retail price of all goods and services sold or as a tax on the sale of selected goods and services.

**Scholarships and fellowships** This category of college expenditures applies only to money given in the form of outright grants and trainee stipends to in-



dividuals enrolled in formal coursework, either for credit or not. Aid to students in the form of tuition or fee remissions is included. College Work-Study funds are excluded and are reported under the program in which the student is working. In the tabulations in this volume, Pell Grants are not included in this expenditure category.

**Scholastic Aptitude Test (SAT)** An examination administered by the Educational Testing Service and used to predict the facility with which an individual will progress in learning college-level academic subjects.

**School** A division of the school system consisting of students in one or more grades or other identifiable groups and organized to give instruction of a defined type. One school may share a building with another school or one school may be housed in several buildings.

**School climate** The social system and culture of the school, including the organizational structure of the school and values and expectations within it.

**School district** An education agency at the local level that exists primarily to operate public schools or to contract for public school services. Synonyms are "local basic administrative unit" and "local education agency."

**Science** The body of related courses concerned with knowledge of the physical and biological world and with the processes of discovering and validating this knowledge.

**Secondary instructional level** The general level of instruction provided for pupils in secondary schools (generally covering grades 7 through 12 or 9 through 12) and any instruction of a comparable nature and difficulty provided for adults and youth beyond the age of compulsory school attendance.

**Secondary school** A school comprising any span of grades beginning with the next grade following an elementary or middle-school (usually 7, 8, or 9) and ending with or below grade 12. Both junior high schools and senior high schools are included.

**Senior high school** A secondary school offering the final years of high school work necessary for graduation and invariably preceded by a junior high school.

**Social studies** A group of instructional programs that describes the substantive portions of behavior, past and present activities, interactions, and organizations of people associated together for religious, benevolent, cultural, scientific, political, patriotic, or other purposes.

**Socioeconomic status (SES)** For the High School and Beyond study and the National Longitudinal Study of the High School Class of 1972, the SES index is a composite of five equally weighted, standardized components: father's education, mother's education, family income, father's occupation, and household items. The terms high, middle, and low SES refer to the upper, middle two, and lower quartiles of the weighted SES composite index distribution.

**Special education** Direct instructional activities or special learning experiences designed primarily for students identified as having exceptionalities in one or more aspects of the cognitive process or as being underachievers in relation to general level or model of their overall abilities. Such services usually are directed at students with the following conditions: (1) physically handicapped; (2) emotionally handicapped; (3) culturally different, including compensatory education; (4) mentally retarded; and (5) students with learning disabilities. Programs for the mentally gifted and talented are also included in some special education programs. See also *Handicapped*.

**Standardized test** A test composed of a systematic sampling of behavior, administered and scored according to specific instructions, capable of being interpreted in terms of adequate norms, and for which there is data on reliability and validity.

**Standardized test performance** The weighted distributions of composite scores from standardized tests used to group students according to performance.

**Standard Metropolitan Statistical Area (SMSA)**  
See *Metropolitan Statistical Area (MSA)*.

**Student** An individual for whom instruction is provided in an educational program under the jurisdiction of a school, school system, or other education institution. No distinction is made between the terms "student" and "pupil," though "student" may refer to one receiving instruction at any level while "pupil" refers only to one attending school at the elementary or secondary level. The term "student" is used to include individuals at all instructional levels. A student may receive instruction in a school facility or in another location, such as at home or in a hospital. Instruction may be provided by direct student-teacher interaction or by some other approved medium such as television, radio, telephone, and correspondence.

**Subject-matter club** Organizations that are formed around a shared interest in a particular area of study and whose primary activities promote that interest.

Examples of such organizations are math, science, business, and history clubs.

**Supervisory staff** Principals, assistant principals, and supervisors of instruction. Does not include superintendents or assistant superintendents.

**Tax base** The collective value of objects, assets, and income components against which a tax is levied.

**Tax expenditures** Losses of tax revenue attributable to provisions of the Federal income tax laws that allow a special exclusion, exemption, or deduction from gross income or provide a special credit, preferential rate of tax, or a deferral of tax liability affecting individual or corporate income tax liabilities.

**Teacher shortage** The number of teaching positions vacant, abolished, or withdrawn because a candidate was sought and not found, courses were eliminated because of budget cuts or administrative decisions not to offer courses in a given field, a teacher was laid off, or a position was filled by a temporary substitute.

**Technical education** A program of vocational instruction that ordinarily includes the study of the sciences and mathematics underlying a technology, as well as the methods, skills, and materials commonly used and the services performed in the technology. Technical education prepares individuals for positions—such as draftsman or lab technician—in the occupational area between the skilled craftsman and the professional person.

**Total expenditure per pupil in average daily attendance** Includes all expenditures allocable to per pupil costs divided by average daily attendance. These allocable expenditures include current expenditures for regular school programs, interest on school debt, and capital outlay. Beginning in 1980-81, expenditures for State administration are excluded and expenditures for other programs (summer schools, community colleges, and private schools) are included.

**Trade and Industrial occupations** The branch of vocational education which is concerned with preparing persons for initial employment or with updating or retraining workers in a wide range of trade and industrial occupations. Such occupations are skilled or semiskilled and are concerned with layout designing, producing, processing, assembling, testing, maintaining, servicing, or repairing any product or commodity.

**Transcript** An official list of all courses taken by a student at a school or college showing the final grade received for each course, with definitions of the various grades given at the institution.

**Trust funds** Amounts collected and used by the Federal Government for carrying out specific purposes and programs according to terms of a trust agreement or statute, such as the social security and unemployment trust funds. Trust fund receipts that are not anticipated to be used in the immediate future are generally invested in interest-bearing Government securities and earn interest for the trust fund.

**Tuition and fees** A payment or charge for instruction or compensation for services, privileges, or the use of equipment, books, or other goods.

**Unclassified students** Students who are not candidates for a degree or other formal award, although they are taking higher education courses for credit in regular classes with other students.

**Undergraduate students** Students registered at an institution of higher education who are working in a program leading to a baccalaureate degree or other formal award below the baccalaureate, such as an associate degree.

**Unemployed** Civilians who had no employment but were available for work and (1) had engaged in any specific jobseeking activity within the past 4 weeks, (2) were waiting to be called back to a job from which they had been laid off, or (3) were waiting to report to a new wage or salary job within 30 days.

**U.S. Service Schools** These institutions of higher education are controlled by the U.S. Department of Defense and the U.S. Department of Transportation. The ten institutions counted in the NCES surveys of higher education institutions include: the Air Force Institute of Technology, Community College of the Air Force, Naval Postgraduate School, Uniformed Services University of the Health Sciences, U.S. Air Force Academy, U.S. Army Command and General Staff College, U.S. Coast Guard Academy, U.S. Merchant Marine Academy, U.S. Military Academy, and the U.S. Naval Academy.

**University** An institution of higher education consisting of a liberal arts college, a diverse graduate program, and usually two or more professional schools or faculties and empowered to confer degrees in various fields of study. For purposes of maintaining trend data in this publication, the selection of university institutions has not been revised since 1982.

**Visual and performing arts** A group of instructional programs that generally describes the historic development, aesthetic qualities, and creative processes of two or more of the visual and performing arts.

***Vocational education*** Organized educational programs, services, and activities which are directly related to the preparation of individuals for paid or unpaid employment, or for additional preparation for a career, requiring other than a baccalaureate or advanced degree.

***Vocational home economics*** Vocational courses of instruction emphasizing the acquisition of competencies needed for getting and holding a job or preparing for advancement in an occupational area using home economics knowledge or skills.

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