This is the third periodic report on the programs and plans of the National Center for Education Statistics (NCES). The challenge facing the NCES is to collect and analyze data that track the growth and change in educational experience in the United States. Current programs toward this goal, future plans, and major publications of the NCES are described. In addition to updating the descriptions of traditional standard data collections, such as the Common Core of Data (CCD) and the Integrated Postsecondary Education Data System (IPEDS), this edition focuses on some of the NCES's new and innovative work. The availability of data sets, including the CCD and IPEDS databases, in electronic, machine readable format is highlighted. The work of the NCES is described in the following sections: (1) elementary and secondary education; (2) postsecondary education; (3) educational assessment; (4) national longitudinal studies; (5) vocational education; (6) library statistics program; and (7) annual publications. Each section describes the studies and surveys conducted in each respective area, with plans, selected publications, and the data collection calendar for work in the area.
National Center for Education Statistics
1993 Edition
Programs and Plans of the National Center for Education Statistics 1993 Edition

Edited by Celestine Davis
Bill Sonnenberg
Indicators and Reports Branch
Data Development Division
National Center for Education Statistics

"The purpose of the Center shall be to collect, analyze, and disseminate statistics and other data related to education in the United States and in other nations."—Section 406(b) of the General Education Provisions Act, as amended (20 U.S.C. 1221e–1).

May 1993
Commissioner's Statement:

This is the third periodic report on the programs and plans of the National Center for Education Statistics (NCES). When the nation's governors and the President established the six national education goals 3 years ago, a special challenge emerged for NCES. That challenge is to collect and analyze data that can accurately track the growth and change in our national learning experience. As various groups voice their desires and concerns about our schools, NCES continually seeks to define efficient and effective measures that can meet the demands for timely, useful information and yet maintain high statistical standards. At the same time, the interest in data about new topics has not lessened the need for basic statistical information about educational institutions and trends.

This report describes the Center's current programs for meeting all these needs, its future plans, and its major publications. In addition to updating the descriptions of our traditional standard data collections, such as the Common Core of Data (CCD) and the Integrated Postsecondary Education Data System (IPEDS), this edition focuses on some of the Center's new and innovative work. In particular, we have highlighted the availability of many more of our data sets, including the CCD and IPEDS data bases, in electronic, machine readable format, especially on compact disk. Together with computerized packages that allow users to customize their search requests, these new electronic data retrieval systems will greatly enhance user access and cost efficiency. Meanwhile, the Center continues to move ahead in collecting detailed cross-sectional and longitudinal studies of individual students, both in their school progress and in later life experiences.

The contact people for each major study described are included. Should you have questions, these staff members would be pleased to explain the information in more detail. I invite you to send us comments on how we can make future editions of this book even more useful.

Emerson J. Elliott
Commissioner of Education Statistics
Acknowledgments

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the entire report. Paul D. Planchon, Acting Associate Commissioner for Postsecondary Education
Statistics and Associate Commissioner for Elementary and Secondary Education Statistics and
Gary W. Phillips, Associate Commissioner for Educational Assessment, also reviewed the report.
NCES Statistics:

Who Uses Them and How They Are Disseminated

NCES, along with other components of the Office of Educational Research and Improvement (OERI), has developed an information program that provides the users of education statistics with access to a wide range of data. Statistical information is provided through the NCES publications program, the National Data Resource Center, the Education Information Branch, and the Education Information Resources Division.

Education statistics are used for a number of purposes. Congress uses them to plan federal education programs, to apportion federal funds among the states, and to serve the needs of constituents. Federal agencies, such as the Departments of Defense, Labor, and Commerce and the National Science Foundation, are concerned with the supply of trained manpower coming out of our schools and colleges and also with the subjects that are being taught there. State and local officials are concerned with problems of staffing and financing public education. Educational organizations, such as the American Council on Education and the National Education Association, use the data for planning and research. The news media, such as national television networks, national news magazines, and many of the nation's leading daily newspapers frequently use NCES statistics to inform the public about such matters as school and college enrollment and expenditures per student. Business organizations use trend data on enrollments and expenditures to forecast the demand for their products. The general public uses education statistics to become more informed and to make intelligent decisions concerning the educational issues of the day.

NCES issues approximately 100 publications each year. These documents include early releases, bulletins, statistical reports, directories, and handbooks of standard terminology. Many of these publications report the findings of specific surveys, but at least three—Digest of Education Statistics, Projections of Education Statistics, and The Condition of Education—cover the field of education statistics from a broad perspective. A more detailed description of these publications appears in chapter 8.

The National Data Resource Center responds to requests for special statistical tabulations and analyses of data files maintained by NCES. The Center is described in more detail in chapter 2.

The Education Information Branch provides education statistics and research findings in response to approximately 50,000 letters, telephone calls, and personal visits each year. Analyses of these inquiries indicate that about 3 percent come from members of Congress and congressional committees; 15 percent from government agencies, including federal, state and local governments; 24 percent from educational institutions and organizations; 22 percent from the news media; 25 percent from business firms and a variety of other private organizations; and 11 percent from the general public, including parents, teachers, students, and concerned citizens. The inquiries range from simple requests for specific bits of information to more detailed questions that frequently require special tabulations, analyses, or reports. The information
specialists in the Education Information Branch have a detailed knowledge of NCES data as well as related statistics emanating from the Bureau of the Census, Bureau of Labor Statistics, Bureau of Economic Analysis, and a variety of other public and private agencies. In addition to providing answers or referrals, Education Information Branch staff members can provide assistance in ordering any of the OERI publications and computer data tapes.

The Education Information Resources Division operates an electronic bulletin board that makes it possible for callers to receive statistical and research information electronically. Through computer tapes, microfiche, and on-line computer facilities, the division provides a wealth of information that is not available in published form. Detailed statistics on individual school districts and colleges and universities, for example, are stored on computer tapes. These tapes can be purchased, or special computer tabulations can be generated, upon request on a fee-for-service basis.

For additional information:

Education Information Branch
Capitol Place Building, Suite 300
555 New Jersey Avenue NW
Washington, DC 20208-5641
Telephone number:

from anywhere in United States: 1-800-424-1616
from metropolitan Washington: (202) 219-1513 or (202) 219-1651
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Introduction

The National Center for Education Statistics (NCES) collects statistics on the condition of education in the United States, analyzes and reports the meaning and significance of these statistics, and assists states and local education agencies in improving their statistical systems. NCES supports a wide range of activities. It provides policy-relevant data on issues such as access of minorities to postsecondary education and the impact of enrollment changes on institutions and the outcomes of education. NCES also provides current data on vocational education, and it produces longitudinal data on various cohorts of students from elementary through postsecondary education and into the work force.

The Center’s programs are directed toward:

1. Maintaining and analyzing the following major cross-sectional databases: at the elementary-secondary level—the Common Core of Data, the Schools and Staffing Survey, and the Private School Survey; and, at the postsecondary level—the Integrated Postsecondary Education Data System, the National Postsecondary Student Aid Study, the Recent College Graduates Study, the National Survey of Postsecondary Faculty, and the Survey of Earned Doctorates Awarded in the United States. In addition, a new, wide-ranging study, the National Household Education Survey, was conducted in 1991 with additional supplements planned for the future. It contains information on all levels of education from preschool to postsecondary. These data bases are the principal sources for the Center’s most widely used publications—The Condition of Education, Digest of Education Statistics, and Projections of Education Statistics.

2. Producing and analyzing data from the Center’s longitudinal studies: these include the National Longitudinal Study of 1972, the High School and Beyond Study, and the National Education Longitudinal Study of 1988 which began with cohorts in secondary school. These studies address differences in student achievement, effects of financial aid on access to postsecondary education, youth employment, high school dropouts, discipline and order, and the quality of education in public and private schools. A new longitudinal study, Beginning Postsecondary Student Longitudinal Study (BPS), has been initiated and is the first attempt by NCES to produce longitudinal data beginning with students first entering postsecondary education. Another proposed longitudinal study, Baccalaureate and Beyond, is being planned for implementation in 1993. It will follow a cohort of students who are near graduation into the work force or further educational endeavors.
3. Coordinating the National Assessment of Educational Progress which assesses academic achievement in a number of domains.

4. Administering surveys through the Fast Response Survey System and the Postsecondary Education Quick Information System which provide data rapidly on current policy issues.

5. Analyzing NCES data on vocational education.

6. Participating in international surveys of educational achievement and programs to develop cross-national education data and indicators.

The organization of this publication is systematic. Each chapter contains a brief introduction; a section on data uses; summaries of the various programs and plans; a list of selected publications, tabulations, and data files; and a data collection calendar for that group of programs. Most program descriptions contain a brief introduction, a design section in which a blueprint of the program is described, a components section detailing what data are collected, and a final section addressing issues of concern to policymakers and researchers.
Elementary and Secondary Education

The National Center for Education Statistics (NCES) program at the elementary and secondary level provides information on the condition of public and private education. The basic program includes national, state, and local data collection systems on public and private elementary and secondary education. Important recent additions to the Center's data collection programs include the Schools and Staffing Survey and the National Household Education Survey. Together with the Common Core of Data, and a number of other surveys, they supply a wealth of information about elementary and secondary education in the Nation.

An important part of the elementary and secondary program is the publication of an annual report titled *Dropout Rates in the United States*. Mandated by law, this publication reports numbers of dropouts as well as retention and graduation rates to the appropriate committees of Congress on the second Tuesday after Labor Day. The Current Population Survey (conducted by the Bureau of the Census) is the primary source of data for this report.

**Data Uses:**

The statistics collected from state education agencies and from other special surveys are used extensively by people outside of NCES. They are used for testimony before Congressional committees, for planning in various federal executive departments, and for projects developed by professional organizations. They are also used by state executive and legislative staffs, by state and local education agencies, and by associations of local school systems. Other users are colleges, universities, and other facilities that do education research; various businesses that sell to educational institutions; and the media in reporting on educational issues and events. Examples of data uses during this past year are reviewed below.

In 1992, federal, state, and local governments made numerous requests for data. For example, a Congressman requested data on the characteristics of high schools in his state; a federal agency requested data on numbers of teachers by school level and type; a major newspaper requested data on the number of public school districts with only one school; state governments requested data on high school dropouts and teacher attrition rates; and local governments requested analyses of teacher demographics.
The media also needed data on elementary and secondary education. A newspaper requested analyses of first-time teachers in the U.S. A Canadian province requested data on the number of hours/days teachers spend teaching per week, and numerous colleges and universities requested copies of data tapes on NELS 8th grade cohort and SASS teacher files.

Other requests came from colleges and universities needing data on newly hired teachers and analyses of rural schools; an education association requesting data and analyses on large urban school districts; a foundation asking for figures on private school special education students; and an individual researcher asking for specific information on high school geometry students.
Surveys and Studies:

Common Core of Data:

The Common Core of Data (CCD) is the Center's primary database on elementary and secondary public education in the United States. CCD is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

The objectives of the CCD are twofold: first, to provide an official listing of public elementary and secondary schools and school districts in the nation, which can be used to select samples for other NCES surveys. And second, to provide basic information and descriptive statistics on public elementary and secondary schools and schooling in general.

Design:

The CCD survey collects data about all public elementary and secondary schools, all local education agencies, and all state education agencies throughout the United States. CCD contains three categories of information: general descriptive information on schools and school districts; data on students and staff; and fiscal data. The general descriptive information includes name, address, phone number, and type of locale; the data on students and staff include demographic characteristics; and the fiscal data cover revenues and current expenditures.

The CCD is made up of a set of five surveys sent to state education departments. Most of the data are obtained from administrative records maintained by the state education agencies (SEAs). Statistical information is collected annually from public elementary and secondary schools (approximately 87,000) public school districts (approximately 16,000) and the 50 states, the District of Columbia, and outlying areas. The SEAs compile CCD requested data into prescribed formats and transmit the information to NCES.

Components:

Public School Universe:

Information on all public elementary and secondary schools in operation during a school year including school location and type; enrollment by grade and student characteristics; and the number of classroom teachers.
Local Education Agency Universe:

Information for the universe of LEAs including phone number; location and type of agency; current number of students; and number of high school graduates and completers in the previous year.

State Aggregate Non-Fiscal Report:

Information on all students and staff aggregated to the state level including number of students by grade level; full-time equivalent staff by major employment category; and high school graduates and completers in the previous year.

State Aggregate Fiscal Report:

Detailed data aggregated to the state level including average daily attendance; school district revenues by source (local, state, federal); and expenditures by function (instruction, support services, and non-instruction) and subfunction (school administration, etc).

School District Fiscal Data:

Detailed data by school district, including revenues by source and expenditures by function and subfunction, and enrollment.
POLICY AND RESEARCH ISSUES:

The five data sets within CCD can be used separately or in conjunction with one another to provide information on many topics of interest. Examples of CCD data that could be used to address important education issues are: a) size of school and pupil/teacher ratio; b) size of school district and region of the country; c) locale of school and racial/ethnic composition for selected states; d) racial/ethnic composition and pupil/teacher ratio for selected states; e) locale of school and percent of free-lunch eligible students for selected states; f) grade level and pupil/teacher ratio; g) size of school district and number of special education students; h) graduates; and i) state share of expenditure for education and expenditure per pupil.

Further information on CCD may be obtained from:

Local Education Agency Universe, Public School Universe, and State Aggregate Non-fiscal Report

John Sietsema
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1335

State Aggregate Fiscal Report and School District Fiscal Data

William Fowler
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1921
Schools and Staffing Survey:

School work force and teacher supply and demand information is fundamental to America's public and private schools. Yet, until 1988, there was a lack of data on characteristics of teachers and administrators and their work places. The Schools and Staffing Survey (SASS) was designed to meet this need. It is a comprehensive public and private education database that combines and expands other surveys NCES has conducted in the past. SASS was conducted in the 1987-88 school year, again in 1990-91, and will be conducted at 3-year intervals hereafter. In addition, one year after each SASS, a subsample of SASS teachers is selected for the SASS Teacher Followup Survey (see description elsewhere in this chapter).

DESIGN:

Schools are the primary sampling unit for SASS, and a sample of teachers is selected in each school. Public school districts are included in the sample when one or more of their schools is selected. The 1990-91 SASS, like the 1987-88 SASS, drew a stratified probability sample of approximately 12,800 schools (9,300 public and 3,500 private), 65,000 teachers (52,000 public and 13,000 private), and 5,600 public school districts. The survey is conducted by mail with telephone followup.

The 1990-91 public school sample was selected from the Common Core of Data public school universe list maintained by NCES. All public schools in the file were stratified by the 50 states and the District of Columbia, and then by three grade levels (elementary, secondary, and combined). A special sample of schools serving large numbers of American Indian or Alaskan Native students was also drawn to provide national estimates of their schools, teachers, and principals.

The private school sample was selected in 1990-91 from the NCES 1989-90 private school universe file which consisted of a list frame of schools and a geographic area frame designed to improve coverage of schools. All private schools on the universe file were stratified by the four census regions, and within each region, schools were further stratified by three grade levels (elementary, secondary, and combined), and by 18 types of religious affiliation as well as those not affiliated.

The SASS sample has been designed to support the following types of estimates and comparisons: national and state estimates for public schools and teachers; estimates for private schools and teachers at the national level and for selected groupings; national comparisons of elementary, secondary, and combined schools and teachers.
COMPONENTS:

Teacher Demand and Shortage Questionnaire:

Survey of public school districts and private schools on aggregate demand for teachers (new and continuing); measures of teacher shortage; district and school policies on teacher salaries, compensation, retirement, hiring, and other factors affecting supply and demand for teachers.

School Questionnaire:

Survey of public and private schools about school programs, policies, and conditions; student characteristics; staffing patterns and teacher turnover.

School Administrator Questionnaire:

Survey of public school principals and private school heads about their demographic characteristics and qualifications and their perceptions of school climate and conditions.

Teacher Questionnaire:

Survey of public and private school teachers about demographic characteristics; teacher preparation and qualifications; career history and plans; teaching assignments; working conditions; and perceptions of school environment and the teaching profession.
Teacher Followup Survey:

See separate description elsewhere in this chapter.

**Policy and Research Issues:**

The data from the SASS survey have been used by Congress, the Department of Education and other federal agencies, state education agencies, private and other educational associations, and the education research community for the following purposes:

First, to assess components of teacher supply and demand, shortages, and turnover in specific teaching fields; methods of covering unfilled vacancies, and policies, practices, and circumstances influencing supply and demand conditions.

Second, to monitor school conditions and programs, including basic descriptors of schools, enrollments, organization, curriculum, student programs and services, staffing, student characteristics, school climate, and teacher workplace conditions.

Third, to profile the teacher work force, including demographic characteristics, academic background, qualifications to teach in fields of assignment, workload, career histories and plans, compensation, and perceptions of the teaching profession and of the workplace.

Fourth, to profile the principal work force, including demographic characteristics, academic background, qualifications, and training for administration, and to assess school climate and decisionmaking.

Further information on SASS may be obtained from:

Dan Kasprzyk
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1588
SASS Teacher Followup Survey:

Another component of the Schools and Staffing Survey (SASS) is the Teacher Followup Survey (TFS). It is treated separately here because it consists of a subsample of SASS and is implemented one year after SASS. The survey identifies and collects national-level data from public and private school teachers who have remained in the same school as the previous year, as well as those who have changed schools, and those who have left the teaching profession. These data are used to provide information about teacher attrition and retention in the public and private schools and to project teacher demand.

DESIGN:

Two questionnaires comprise the TFS: a) the Teacher Followup Survey Questionnaire for Former Teachers; and b) the Teacher Followup Survey Questionnaire for Continuing Teachers (those who remained in the same school as well as those who moved to another school). These questionnaires ask teachers about their current status, occupational changes and plans, reasons for staying in (or leaving) teaching, and attitudes about the teaching profession.

The TFS was first conducted in the 1988-89 school year with a sample from the 1987-88 SASS of about 2,500 teachers who had left teaching and 5,000 who were still in teaching. The Center next collected teacher followup data during the school year 1991-92. Future followups will be 1 year after the administration of SASS, which is conducted every 3 years.

The TFS provides information on the characteristics of those who leave teaching, their reasons for leaving, and their current occupational status. For those persons who remain in teaching, information is gathered on their career paths. Comparisons can be made among "leavers," "stayers," and "movers" (i.e., those teachers who remain in teaching but move to another school). Sampled teachers can be linked to the SASS data to determine relationships between local district and school policies/practices, teacher characteristics, and teacher attrition and retention.
COMPONENTS:

Questionnaire for Former Teachers:

Primary occupational status; type of business; primary activity; full-time, part-time; time planning to spend in current job; new earned degrees, by type and field; plans for returning to teaching; reasons for leaving teaching; possible areas of dissatisfaction; salary; and changes in marital and family status or income.

Questionnaire for Continuing Teachers:

Primary occupational status (full-time, part-time); primary teaching assignment, by field; teaching certificate; level of students taught; school community type; reasons for leaving previous school; possible areas of dissatisfaction; new degrees earned or pursued; expected duration in teaching; level of satisfaction; marital status; number of children; academic year base salary; combined family income.

POLICY AND RESEARCH ISSUES:

The TFS can be used to address a number of issues related to teacher turnover, shortages, and availability of an adequate supply of qualified teaching personnel. Leavers, movers, and stayers will be profiled and compared in terms of teaching qualifications, working conditions, attitudes toward teaching, salaries, benefits and other incentives and disincentives for remaining in or leaving the teaching profession.

Further information on TFS may be obtained from:

Sharon A. Bobbitt
Elementary and Secondary Education Statistics Division
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1461
Private School Survey:

With increasing concern about alternatives in education, the interest and need for data on private education has also increased. NCES has made the collection of data on private elementary and secondary schools, which is comparable the Common Core of Data universe survey for public schools, a priority.

The purposes of this data collection activity are; a) to build an accurate and complete list of private schools to serve as a sampling frame for NCES surveys of private schools; and b) to generate data on the total number of private schools, teachers, and students in the universe (the next survey will be in 1993-94) and every 2 years thereafter.

Design:

The target population for the universe survey consists of all private schools in the United States that meet NCES criteria of a school. The survey universe is composed of schools from a variety of sources. The main source is a list frame, initially developed for the 1989-90 Private School Survey. This frame is based on a commercial list purchased from Quality Education Data (QED), Inc. The list is updated periodically by matching it with lists provided by nationwide private school associations, state departments of education, and other national guides and sources which list private schools. The other sources are area frame searches conducted by the Bureau of the Census.

Components:

1991-92 Private School Survey:

Religious orientation; level of school; size of school; length of school year, length of school day; total enrollment (K-12); number of high school graduates; number of teachers employed; schools operated in private homes; year school began operating; program emphasis.
POLICY AND RESEARCH ISSUES:

The Private School Survey produces data similar to that of the NCES Common Core of Data (CCD) for the public schools. The data will be useful for a variety of policy- and research-relevant issues, such as the growth of religiously-affiliated schools, the number of private high school graduates, the length of the school year for various private schools, and the number of private school students and teachers.

For more information on the Private School Survey contact:

Dan Kasprzyk
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1588
National Household Education Survey:

The National Household Education Survey (NHES) is the first major attempt by NCES to collect education data from a household survey. Historically, NCES has collected data from teachers, students, and schools through school-based surveys and from administrative records data through surveys of school districts and state education agencies. The NHES has the potential to address many issues in education that have not been addressed previously by NCES data collection activities. The NHES was field tested in 1989; and the first full-scale NHES was conducted in 1991. Plans call for an annual collection beginning in 1993. Topical components will be repeated on a 3-to 4-year cycle so that educational activities can be monitored over time.

Design:

The NHES is designed as a mechanism for collecting detailed information on educational issues from a relatively large and targeted sample of households in a timely fashion. Data for the NHES are collected through telephone interviews, a relatively new approach for gathering data related to education issues. The NHES uses Random Digit Dialing (RDD) to select households and Computer Assisted Telephone Interviewing (CATI) to collect information from household members. The sample for the NHES is drawn from the non-institutionalized civilian population in households having a telephone in the 50 states and the District of Columbia.

In each NHES, between 60,000 and 75,000 households are screened to identify persons eligible for one of the topical components. Generally, each collection covers two topical components, and between 12,000 and 15,000 interviews are obtained for each component.

During the spring of 1991, NCES fielded an NHES on early childhood program participation. Approximately 60,000 households were screened to identify a sample of about 14,000 children 3 to 8 years old. The parents of these children were interviewed in order to collect information about their children’s educational activities and the role of the family in children’s learning. At the same time, an adult education component was fielded (see separate description in chapter 3). Adult household members were sampled and questioned about their participation in adult education.

The two topical components planned for the spring of 1993 are early childhood/school readiness and school safety and discipline. In the school readiness component, parents of children 3 to 7 years old will be asked about their children’s experiences in early childhood programs, developmental level, school adjustment and related problems, early primary school experiences, general health and nutrition status, home activities, and family characteristics including stability and economic risk factors. In the school safety and discipline component, parents of children in grades 3 through 12 will be interviewed about their children’s school environment, exposure to criminal behavior in the school, school discipline policy and alcohol/drug education provided by the school. A sample of students in grades 6 through 12 will also be interviewed on the same topics.
COMPONENTS:

Early Childhood: Program Participation Component (NHES: 91)

Household members; household characteristics; educational participation and attainment; early childhood education; detailed demographic characteristics.

Adult Education Component (NHES: 91)

See separate description in chapter 3.

Early Childhood: School Readiness Component (NHES: 93)

Household members; household characteristics developmental profile; participation in center-based programs; school adjustment and teacher feedback; school enrollment; home activities; health and nutrition; detailed demographic characteristics.

School Safety and Discipline Component (NHES: 93)

School characteristics; school environment; safety at school; school discipline policy; alcohol/drug education; detailed demographic characteristics.
POLICY AND RESEARCH ISSUES:

The NHES is expected to provide data on a wide range of current education issues. Among the topics that may be addressed through the survey are: early childhood education; school-aged children's participation in before- and after-school programs; access and plans to finance postsecondary education; adult and continuing education; family support for and parental involvement in education; school safety and discipline; citizenship; grade retention; extra-school learning; and home-based education.

For further information on NHES contact:

Kathryn A. Chandler
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1767
Fast Response Survey System:

The Fast Response Survey System (FRSS) was established in 1975 to collect issue-oriented data quickly and with minimum response burden. FRSS was designed to meet the data needs of Department of Education analysts, planners, and decisionmakers when information could not be collected quickly through traditional NCES surveys.

The data collected through FRSS are representative at the national level, drawing from a universe that is appropriate for the study. FRSS collects data from state education agencies and national samples of other educational sectors, including:

- Local education agencies;
- Public and private elementary and secondary schools;
- Institutions of higher education;
- Noncollegiate postsecondary schools with occupational programs;
- Public school teachers;
- Public library systems; and
- Adult literacy programs.

In order to present high quality data in a timely fashion, FRSS provides the following services: research on the survey topic and instrument design; pretest of the survey instrument; quality control of the survey data; national estimates within 1 year of survey mail-out; response rates of 90 percent or higher; tabulations and other analysis of data; and preparation and dissemination of survey reports. FRSS now has the capability of conducting brief surveys of households using Random Digit Dialing (RDD) telephone techniques.

Current FRSS Activities:

National Assessment of Vocational Education (NAVE)

This survey, a part of the NAVE as mandated in the Perkins Act (P.L. 101-392), is designed to provide descriptive information on vocational education and academic courses in public secondary schools. It requests information on teachers' educational and professional backgrounds, class activities, and student assessments. The survey was mailed to public secondary school teachers in October 1992. A report will be disseminated in August 1993.
Kindergarten Teacher Survey on Student Readiness

This survey of public school kindergarten teachers is being conducted to provide data to the National Education Goals Panel in responding to Goal One: "By the year 2000, all American children will start school ready to learn." As part of a national early childhood assessment system for Goal One, this survey will obtain information on kindergarten teachers' views of children's readiness and on the teacher's classroom practices. The survey was conducted in February 1993 and the results will be available in October 1993.

A View of Public School Teachers' Performance Evaluations

This survey, being conducted for the Office of Research through the Center for Research on Educational Accountability and Teacher Evaluation (CREATE), is part of the Department's efforts to improve measurement criteria, instruments and procedures used for evaluating the performance of teachers. Information gathered through this survey will be from the public elementary school teachers' perspectives on the issues. The data obtained will supplement information that CREATE is currently gathering on the policies districts now use to evaluate teachers' performance. The survey was mailed out in early March 1993 and a report is scheduled for release in December 1993.

Recent FRSS Activities:

- Office for Civil Rights Survey Data: A Feasibility Study (Released September 1992)

- Public School District Survey on Safe, Disciplined, and Drug-Free Schools (Released April 1992)

- Postsecondary Student Outcomes: A Feasibility Study
  Section III: Current Status of Institution-Level Student Outcome Reporting and
  Section IV: Problems with Institution-Level Student Outcome Reporting (Released February 1992)

- Public School Principal Survey on Safe, Disciplined, and Drug-Free Schools (Released February 1992)

- Teacher Survey on Safe, Disciplined, and Drug-Free Schools (Released November 1991)
For further information on the Fast Response Survey System contact:

Judi Carpenter
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1333
NCES Items in the Current Population Survey:

The Current Population Survey (CPS) is a monthly household survey conducted by the Bureau of the Census to provide employment, unemployment, and other characteristics of the civilian noninstitutional population. Each October since the middle 1960s, NCES has funded a supplement. The supplement routinely gathers data on school enrollment and educational attainment. NCES also supports the collection of school enrollment data for 3- to 5-year-olds and persons 35 and older. In addition, NCES regularly funds additional items on educationally related topics such as private school tuition, adult education, vocational education, early childhood education, computer usage, and student mobility.

DESIGN:

The Current Population Survey is a nationally representative probability sample survey of households. A multi-stage stratified sampling scheme is used to select sample households. The survey is conducted in approximately 60,000 dwelling units monthly in 729 primary sampling units. Dwelling units are in-sample for 4 successive months, out-of-sample for the next 8 months, and then returned to the sample for the following 4 months. An adult member of each household provides information for all members of the household.

COMPONENTS:

Basic CPS:

Household membership; household characteristics; demographic characteristics; labor force participation

October Supplement:

Basic annual school enrollment and attainment; additional educationally relevant items.
POLICY AND RESEARCH ISSUES:

The CPS October Supplement provides important education data on enrollment, educational attainment, high school dropouts, retention, completion, and graduation rates. It also has provided policy-relevant data on private school tuition, adult education, vocational education, early childhood education, high school dropouts, and student mobility.

For further information on the CPS October Supplement contact:

Elvie S. Germino Hausken
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1623
Other Activities

School District Mapping:

The School District Mapping project aggregates demographic data acquired by the Bureau of the Census in the decennial census to totals for local education agencies and the states. The decennial census data are collected by census blocks which vary in size from less than a whole city block to a large portion of the state, depending upon the density of the population in the area. In the School District Mapping project, the location of each census block is identified with reference to the local education agency in which it appears, either in whole or part. The census data for these blocks or parts of these blocks are then totalled to create local education agency totals.

NCES has conducted such a program for the decennial censuses of 1970, 1980, and 1990. For 1990, the Bureau of the Census developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System, in which 10,000,000 census blocks' boundaries are digitally encoded (to six decimal places) on computer tape. The boundaries of approximately 16,000 local education agencies, plus such education-related geographic entities as special education districts, Indian reservations and military installations which have education activities within their boundaries, were similarly digitized and encoded in the TIGER system, thus making it possible to convert the data from census blocks to education entities and produce requested tabulations.

In Public Law 100-297, the Congress mandated that NCES should provide a report on these data on April 1, 1993. The data will also be used by the Department of Education for the allocation of various federal grant programs such as Chapter 1. NCES and education researchers and associations will use this very rich database to produce a series of analytic publications. NCES will provide more than 200 tabulations of state and district totals to each of the 16,000 education entities, and each state. Additionally, each state will receive a TIGER line file with digitized district boundaries.

For further information on School District Mapping contact:

Theodore H. Drews
Statistical Standards and Methodology Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5654
Telephone number (202) 219-1731
Cooperative System Fellows Program:

As part of its ongoing effort to increase cooperation among federal, state, and local data collectors and to improve the overall quality and timeliness of education statistics, NCES initiated the Cooperative System Fellows Program in 1990. Fellows are selected from state and local education agencies across the country and convene in Washington, D.C., for 1 week. During their stay, the Fellows take part in a series of planned activities including presentations by NCES staff on the Center’s major data collections, reports and dissemination practices, projects to automate state and local data systems, and efforts to integrate existing data collections. In addition, Fellows explore their own professional interests and objectives. During the week, mentors selected from the Center’s staff work with the Fellows to lead discussions on various topics, answer questions, and offer guidance and advice. An effort is made to help the Fellows achieve their individual program objectives. The Fellows Program is held twice a year for up to 30 people from elementary/secondary and postsecondary education.

For further information on the Fellows program contact:

Helen Ashwick
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1769
National Forum on Education Statistics:

The National Forum on Education Statistics is composed of representatives from NCES, the 50 states, the District of Columbia, the outlying territories, various federal agencies involved in the collection and reporting of education statistics, and other education associations and organizations. The Forum's primary mission is to work with NCES to improve the overall quality, timeliness, and comparability of education statistics across the Nation, as mandated by the Hawkins-Stafford Education Improvement Amendments of 1988 (Public Law 100-297).

Under the direction of its Steering Committee, the Forum maintains four standing committees: the National Education Statistics Agenda Committee; the Technology, Dissemination, and Communication Committee; the Policies, Programs, and Implementation Committee; and the Evaluation Committee. At present, the forum is addressing such important issues as facilitating uniform development in state automated data systems; developing strategies for improving federal, state, and local data collection and reporting capability; and discussing with NCES options for new and innovative projects aimed at improving the quality of education statistics. In addition to these efforts, the Forum is available to respond to specific requests from the Commissioner of NCES, and to raise issues and make recommendations of its own. By bringing federal and state representatives together to work cooperatively toward improving the quality of education statistics, the Forum plays an important role in determining the future of our nation's education statistics system.

In 1990, the National Forum issued its first publication, the Guide To Improving the National Education Data System. The Guide contains 36 recommendations for improving the nation's elementary and secondary education statistics system. This proposed national education data agenda is the product of a broad-based, consensus-building process that brought together representatives of state and federal education agencies and of organizations with a major interest in education data. In 1992, the forum completed a feasibility study preliminary to addressing recommendations. The group also accepted the Standards for Education Data Collection and Reporting, a set of best-practice principles to be disseminated widely in order to improve data quality and comparability.

For further information on the National Forum contact:

Lee M. Hofiman  
Elementary and Secondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5651  
Telephone number (202) 219-1624
National Data Resource Center:

NCES has established the National Data Resource Center (NDRC) to enable state education personnel, education researchers, and others to obtain special statistical tabulations and analyses of data sets maintained by NCES. This service currently is provided free of charge by NCES.

Researchers and others may ask the Data Center to perform specific tabulations or analyses, or they may work on-site directly with confidential data files upon signing a confidentiality pledge. The Data Center has developed strict procedures, including computerized tests, to ensure that individuals in surveys cannot be identified from NCES data files. No data which could be used to identify an individual who supplied that data will be released.

Among the services provided by the Data Center are limited programming and analysis, as well as other support services. The Data Center also develops its own statistical tables, graphic materials, and analyses in anticipation of major data needs of education policymakers, researchers, and others.

Currently, the Data Center has files available from the Common Core of Data, the 1988 National Educational Longitudinal Study, the Schools and Staffing Survey, the Integrated Postsecondary Education Data System, the National Postsecondary Student Aid Study, the National Household Education Survey, and the National Study of Postsecondary Faculty (see descriptions of these surveys elsewhere in this publication). In the future, the Data Center plans to add additional databases to its inventory and to link several of these files, enabling researchers to perform higher level analyses.

For further information on the National Data Resource Center contact:

Jerry Malitz
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1364
Plans for Elementary and Secondary Education:

The core surveys of the NCES elementary and secondary program are: the Common Core of Data (CCD), the National Education Longitudinal Study of 1988 (described in chapter 5), the National Household Education Survey (NHES), the Fast Response Survey System (FRSS), the Schools and Staffing Survey (SASS), and the Private School Survey (PSS). Additional topical supplements may be attached to these continuing surveys so that current data on key issues can be produced. Other changes may also be made to improve the data.

One innovation underway in the CCD is the redesign and expansion of the fiscal collection component. The new state survey, entitled the National Public Education Financial Survey, greatly expanded the financial information reported by states, beginning in fiscal year 1990. NCES envisions this more comprehensive and policy-relevant information about state public education spending to be published by May 1993.

A second component of the CCD fiscal redesign is to collect and report school district financial information. In September 1990, NCES conducted a joint NCES/Bureau of the Census school district fiscal collection from state administrative records of all 16,000 school districts. The joint 1990 collection only slightly expanded the Census Bureau's traditional school district financial survey form to collect core instructional expenditures as recommended by the Council of Chief State School Officers (CCSSO). NCES and the Census Bureau conducted a major expansion of the Census Bureau's Survey of Local Government Finances in September 1992. This ambitious collection effort added more than 30 items to the survey, many for the first time. Consensus-building steps used for the state-level CCD survey, such as having items reviewed by state education associations and academic task forces, have contributed to the first 1992 joint school district collection.

The school district financial data set from the 1990 joint NCES/Census collection, when completed, will be combined with community characteristics from the decennial census when the NCES school district mapping project is complete. Some of the items to be included on the combined data set are: at-risk students, community characteristics, occupation, and income. The initial release of the 1990 school district level financial data by the Census Bureau was in July 1992, and will be combined with decennial census information in 1993.

Under the umbrella of the National Cooperative Education Statistics System, all states have worked with NCES to increase the comparability and uniformity of elementary and secondary education data. Several items of particular interest have been dropout, school completer, and school staff data. In 1992-93, states will begin reporting on the CCD counts of dropouts, using specifications determined through the 1989-90 field test of a dropout definition and data collection procedure. The CCD will also collect and report more detailed breakouts of the number of school and school district staff providing instructional, support, and administrative services. School completer data will be uniformly reported across states so that the numbers of students receiving traditional and alternative graduation credentials can be easily assessed.

Over the next 3 years, the National Cooperative Education Statistics System will also assist the states in conducting feasibility studies and developing plans for automating their data systems. The focus will be on improving the quality and comparability of state data systems so that information can be shared and aggregated at the national level. During this period, extra resources will be provided to the outlying areas to enable them to bring their systems up to par.
One component of the feasibility studies for automating data systems is a nationwide electronic records transfer system. The "Exchange of Permanent Records Electronically for Students and Schools" (EXPRESS) is being designed to promote state/local information system capacity and comparability in support of the National Cooperative Education Statistics System. Some of the anticipated benefits of the proposed national system include promotion of greater compatibility and standardization of student information across state and local information systems; more timely request and receipt of student records through an electronic network as opposed to mail; more timely availability of data for use in determining the educational placement and the initiation of support services required for enrolling student; and increased reliability and consistency in the interpretation of student records. Project activities include the development of a set of data elements and definitions in American National Standards Institute format to be used in the pilot electronic transfer of student records between districts and from districts to postsecondary institutions.

Another component of the feasibility studies is the Education Data System Implementation Project, Development of Student and Staff Data Handbooks. Under contract with NCES, the Council of Chief State School Officers will develop two data handbooks: one on student information and one on staff information. These handbooks will include comprehensive description of data element terms and definitions applicable for elementary-and secondary level students and school staff. The Student Data Handbook will focus on types of data relevant to students such as demographic information, personal identification, family information, health and physical conditions, enrollment and membership, attendance, performance, special program participation, and related services. The Staff Data Handbook will cover such areas as personal information education and certification, experience and career development, as well as job classification and activity program assignment. The completion of the student and staff handbooks are expected by August 1993 and July 1994 respectively.

Beginning in the spring of 1993, the NHES will be conducted on an annual basis. Each data collection will include at least two topical components, one of which will be an early childhood component. The concept of "school readiness" will be emphasized in the 1993 early childhood component. To monitor change over time, current plans call for repeating other topical components every third year. Other topical components planned for inclusion in NHES are: adult and continuing education (1994); school safety and discipline (1993 and 1996); and citizenship (1995 and 1998). In the future, data collected by NHES may be enhanced by a longitudinal component, a second annual survey in the fall, or a sample to provide state-level estimates. Data collected by NHES may also be combined with data from other household surveys such as the Current Population Survey (conducted by the Census Bureau).

In an attempt to be responsive to the information needs of the many education constituency groups below the postsecondary level, NCES is currently planning two new longitudinal studies. For more information on the Early Childhood Longitudinal Study (ECLS) and the National Education Longitudinal Study of 1998 (NELS:98), see the section on Plans for Longitudinal Studies in Chapter 5. In addition, a longitudinal component will be added to the SASS Teacher Follow-up Survey. The teachers selected for the followup in the 1994-95 school year will be contacted for additional information at 2-year intervals at least three times.

In the summer of 1991, staff working on SASS began a process that will lead to a more focused program of survey evaluation and research. SASS staff working with Census Bureau
staff and the academic community will develop a research plan and begin work in a number of areas such as the development of sampling frames and the evaluation of their completeness, research into sampling issues associated with student samples in SASS, and an exploration of alternative weighing schemes for SASS. Other research topics to be explored include reviewing ways to increase survey response rates, characterizing various classes of nonrespondents, and improving questionnaire concepts and wording. Finally, the program will encourage substantive analysis and data evaluation by the research and academic communities and will develop a SASS Quality Profile, a review of what is known about sampling and nonsampling errors in SASS.
Elementary and Secondary Education Statistics

Selected Publications and Tabulations:

FRSS: Public High School Principals’ Perceptions of Academic Reform (May 1988)
Salary Structures for Public School Teachers, 1984-85 (June 1988)
FRSS: Services and Resources for Young Adults in Public Libraries (July 1988)
Secondary School Teachers’ Opinions: Public and Private (September 1988)
Background and Experience Characteristics of Public and Private School Teachers, 1984-1985 (October 1988)
FRSS: State Policies Concerning Vocational Education (November 1988)
Moonlighting among Public School Teachers (December 1988)
FRSS: Education Partnerships in Public Elementary and Secondary Schools (February 1989)
Teacher Incentive Programs in Public Schools (April 1989)
What Teachers Majored In: Bachelor’s Degree Fields of Public and Private School Teachers (May 1989)
Time Allocation Patterns of Teachers in Public and Private Schools, 1984-86 (July 1989)
 Dropout Rates in the United States (updated annually in September beginning in 1989)
FRSS: Use of Educational Research and Development Resources by Public School Districts (March 1990)
E.D. TABS: Characteristics of Private Schools, SASS (May 1990)
Selected Data on Minority Participation in Public Schools (July 1990)
E.D. TABS: Comparisons of Public and Private Schools, 1987-88 (July 1990)
Issue Brief: Eighth to Tenth Grade Dropouts, NELS:88 (January 1991)
Private Schools in the United States: A Statistical Profile with Comparisons to Public Schools (February 1991)
Comparison of State Methods for Collecting, Aggregating, and Reporting State Average Daily Attendance Totals (April 1991)
E.D. TABS: Public Elementary and Secondary Education Agencies in the United States and Outlying Areas, School Year 1989-90 (April 1991)
The Tested Achievement of the National Education Longitudinal Study of 1988 (April 1991)
SASS 1987-88 Sample Design Methodology Report (May 1991)
E.D. TABS: Characteristics of Movers, Leavers and Stayers: Results from the Teacher Followup Survey, 1988-89 (July 1991)
Careers in Teaching: Following Members of the High School Class of 1972 In and Out of Teaching (July 1991)
Statistics in Brief: Experiences in Child Care and Early Childhood Programs of First and Second Graders Prior to Entering First Grade: Findings From the 1991 National Household Education Survey (August 1991)
FRSS: Teacher Survey on Safe, Disciplined, and Drug-Free Schools (November 1991)
Diversity of Private Schools (December 1991)
NHES Findings: Experiences in Child Care and Early Childhood Programs of 1st and 2nd Graders (January 1992)
NHES Findings: Home Activities of 3-to 8-Year-Olds (January 1992)
Public School Principal Survey, Public School Survey, on Safe Disciplined, and Drug Free Schools (February 1992, April 1992)
Overview and Inventory of State Requirements for School Coursework and Attendance (June 1992)
Public Elementary and Secondary Schools and Agencies in the U.S. and Outlying Areas: School Year 1990-91 (June 1992)
Overview NHES Technical Report (July 1992)
Multiplicity Sampling for Dropouts in the NHES Field Test (July 1992)
Proxy Reporting of Dropout Status in the NHES Field Test (July 1992)
Effectiveness of Oversampling of Blacks and Hispanics in NHES Field Test (July 1992)
Public School Education Financing for School Years 1989-90 and 1990-91 (September 1992)
Schools and Staffing in the U.S.: A Statistical Profile (September 1992)
American Public Education Finance in 1990-91 (September 1992)
Schools and Staffing Survey: 1990-91 Teacher Demand and Shortage, Schools, Administrators, and Teachers (September 1992)
Teacher Attrition and Migration (Issue Brief) (November 1992)
Filling the Gaps (November 1992)
E.D. TABS: Private School Universe Survey (December 1992)
Profile of Preschool Children’s Child Care and Early Education Program Participation (February 1993)
NHES Technical Report on Field Test Dropout Survey (Forthcoming)

Data Files:

Common Core of Data Public Education Agency Universe, 1989-90 (March 1991)
Common Core of Data Public School Universe, 1989-90 (March 1991)
1987-88 Schools and Staffing Survey: Public and Private School Questionnaires (March 1991)
1987-88 Schools and Staffing Survey Sample Design and Estimation (March 1991)
1987-88 Schools and Staffing Survey: Teacher Demand and Shortage Data (Various Tapes) (April 1991)
Public Elementary and Secondary Schools and Agencies in the U.S. and Outlying Areas:
School 1990-91 (June 1992)

Are Hispanic Dropout Rates Related to Migration? (August 1992)
Common Core of Data Public School Universe, 1990-91 (August 1992)
1990-91 Schools and Staffing Survey Users Manual (September 1992)
## Data Collection Calendar for Elementary and Secondary Education

### Surveys

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*Note: X indicates availability in that year.*
Postsecondary Education

Social, demographic, educational, and economic issues challenge postsecondary education today. Among the most critical are questions pertaining to access to postsecondary education for various populations, the effects of shifting enrollment patterns, the cost of postsecondary education, student financing of postsecondary education, education outcomes, the long range financial outlook for colleges and universities, demand for and supply of qualified faculty and staff, and job opportunities for graduates.

The NCES program in postsecondary education provides statistical information used by planners, policymakers, and educators in addressing these issues. One major source of this information is the Integrated Postsecondary Education Data System (IPEDS), an annual series of surveys conducted by NCES that provides a variety of data on the Nation's 10,500 public and private postsecondary institutions. Special studies of recent college graduates, student financial aid, postsecondary faculty, and doctorates complement IPEDS. In addition, postsecondary education transcript studies have been conducted in conjunction with the National Longitudinal Study of 1972, the High School and Beyond Study, and the Beginning Postsecondary Study (descriptions of these studies are in Chapter 5). Another postsecondary longitudinal survey system, Baccalaureate and Beyond, is being developed to collect institutional and student data from postsecondary students over a period of several years (see the "Plans" section of chapter 5).

Data Uses:

The NCES higher education data systems provide such information as trends in enrollment and degree completion; patterns of expenditures and revenues of institutions; patterns of student financial aid; workload of faculty; and the relationship between educational experience and labor market outcomes. These data are used to describe the condition of postsecondary education and to monitor changes. Federal program staff have used IPEDS and student aid survey data to address policy issues on financial aid programs. Policymakers at the state and institutional level have used IPEDS data for planning purposes. Government commissions have used these data to monitor compliance with federal legislation.

Thousands of requests for information, based on the Integrated Postsecondary Education Data System (IPEDS), and other postsecondary programs, are received by the Center each year. Those requesting data fall roughly into seven categories: 1) federal agencies; 2) state agencies; 3) national and regional education associations; 4) individual institutions; 5) the media; 6) the business community; and 7) the general public.
Members of the executive branch, Congress or Congressional Committees and a number of independent federal agencies use information from the Center on a regular basis. For example, an office of the legislative branch used IPEDS information to develop a profile of proprietary, less-than-2-year institutions. Several executive branch offices use the information to track baccalaureate and higher degree data by selected fields of study and minority status of degree recipients. An independent federal agency uses the information to track degree completions in engineering and scientific fields of study.

State higher education agencies regularly use the data to help determine salary and fringe benefit packages for their full-time instructional staff. Other state agencies use the completions and institutional data on an annual basis to evaluate the availability of specific career training programs. Several state agencies have used the residence and migration data to determine where their high school graduates enroll in postsecondary education institutions.

National and regional education associations annually request tabulations to determine enrollment patterns by racial/ethnic categories and fields of study, and finance data to review the economic health of postsecondary education institutions. Individual institutions use similar information at an institutional level for peer analyses and institutional planning purposes. These peer analyses range from comparing selected financial ratios to comparing proportions of minority student enrollments.

The media, business community and the general public use the information in a variety of ways. For example, one newspaper used the data to develop a major article that compares public 4-year institutions across selected states. Members of the business community have used degree completion data to target minority recruitment efforts in selected fields of study. The general public regularly requests information on which institutions offer degrees in specific fields of study.
**Surveys and Studies:**

**Integrated Postsecondary Education Data System:**

NCES has established the Integrated Postsecondary Education Data System (IPEDS) as its core postsecondary education data collection program. It is a single, comprehensive system that encompasses all identified institutions, whose primary purpose is to provide postsecondary education. IPEDS supersedes the Higher Education General Information Survey (HEGIS). From 1965 to 1986 data were collected via the HEGIS surveys only from institutions that were accredited at the college level by an accrediting organization recognized by the Secretary of the U.S. Department of Education.

**Design:**

Postsecondary education is defined within IPEDS as the provision of formal instructional programs the curriculum of which is designed primarily for students who have completed the requirements for a high school diploma or its equivalent. This includes academic, vocational, and continuing professional education programs, and excludes avocational and adult basic education programs. The following types of institutions are included within IPEDS: baccalaureate or higher degree granting institutions, 2-year award institutions, and less-than-2-year institutions (i.e., institutions whose awards usually result in terminal occupational awards or are creditable toward a formal 2-year or higher award). Each of these three categories is further disaggregated by control (public, private nonprofit, and private for-profit) resulting in nine institutional categories or sectors.

Several new concepts are employed for the IPEDS collection of postsecondary institutional education data. Data element definitions that have been formulated and tested are relevant to all providers of postsecondary education and consistent among components of the system. A set of data elements has been established to identify characteristics common to all providers of postsecondary education. Specific data elements have been established to define unique characteristics of different types of providers of postsecondary education. Interrelationships among various components of IPEDS have been established to avoid duplicative reporting and to enhance the policy relevance and analytic potential of the data. With IPEDS, it is possible to take into account the problems involved in trying to make inter-state and inter-institutional comparisons using the NCES postsecondary data and to address many of these problems through the use of the clarifying questions—questions that ask what was or was not included in a reported count or total.

Finally, specialized, but compatible, reporting formats have been developed for the different sectors of postsecondary education providers. In general, the reports developed for postsecondary institutions granting baccalaureate and higher degrees are the most extensive; forms for the 2-year and less-than-2-year award granting sectors request less data. This design feature accommodates the varied operating characteristics, program offerings, and reporting capabilities that differentiate postsecondary institutional sectors while yielding comparable statistics for some common parameters of all postsecondary sectors.
Data are collected from approximately 11,000 postsecondary institutions. IPEDS has been designed to produce national-, state-, and institutional-level data for most postsecondary institutions. However, only national-level estimates from a sample of institutions are available for the private, less-than-2-year institutions. Early estimates of fall enrollment and prior year completions have been produced from a sample at the national level, but will be discontinued after the 1992-93 academic year.

COMPONENTS:

Institutional Characteristics:

Address; congressional district; county; telephone number; tuition; control or affiliation; calendar system; levels of degrees and awards offered; types of programs; credit and contact hour data; and accreditation. Data are collected annually.

Fall Enrollment:

Full- and part-time enrollment by racial/ethnic category and sex for undergraduates, first professional, and graduate students. Age distributions by level of enrollment and sex in odd-numbered years. First-time degree-seeking student enrollments by residence status in even-numbered years.

Fall Enrollment in Occupationally-Specific Programs:

Fall enrollment in each occupationally specific program, by sex and race/ethnicity in odd-numbered years.

Completions:

Numbers of associate, bachelor's, master's, doctor's, and first-professional degrees, and other formal awards, by discipline and sex of recipient. Awards by racial/ethnic composition, program area, and sex are collected annually.

Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty:

Full-time instructional faculty by rank, sex, tenure status, and length of contract; salaries and fringe benefits of full-time instructional faculty. Data are collected annually.
Financial Statistics:

Current fund revenues by source (e.g., tuition and fees, government, gifts); current fund expenditures by function (e.g., instruction, research); assets and indebtedness; and endowment investments. Data are collected annually.

College and University Libraries:

Number of branches, number and salaries of full-time equivalent staff, by position; circulation and interlibrary loan transactions; book and media collections; public service hours and number served; operating expenditures by purpose. Data are collected in even-numbered years.

Fall Staff:

Number of institutional staff by occupational activity, full- and part-time status, sex, and race/ethnicity. Data are collected in odd-numbered years. Beginning with 1993, this survey replaces the EEO-6 survey conducted by the Equal Employment Opportunity Commission.

Early Estimates:

Provides annual estimates during the same semester (i.e., fall) that data are collected on enrollment, degrees, and finance. (Discontinued after 1992-93.)
POLICY AND RESEARCH ISSUES:

A wealth of institutional-level data for analyzing the state of postsecondary education institutions is provided by the IPEDS data. For example, IPEDS data can be used (with HEGIS data) to describe long-term trends in higher education. The data necessary for conducting and interpreting special studies of postsecondary students, faculty, and staff are available within IPEDS. Using IPEDS data, policymakers and researchers can analyze postsecondary data on the number of students, graduates, first-time freshmen, and graduate and professional students by race/ethnicity and sex; the status of postsecondary vocational education programs; the number of individuals trained in certain occupational and vocational fields by sex, race/ethnicity, and level; the resources generated by postsecondary education; completions by type of program, level of award, race/ethnicity, and sex; and many other issues of interest.

Beginning in 1993, all institutions eligible for funding under Title IV, Higher Education Act Amendment of 1987 (Public law 100-50) will be surveyed using IPEDS. Other institutions will receive only an Institutional Characteristics survey. Within the group of institutions eligible under Title IV, those accredited at the college level by an agency recognized by the Secretary, U.S. Department of Education (formerly surveyed under HEGIS) will receive a full package of IPEDS forms each year. All other institutions will receive a shortened version of the surveys consolidated into one form; however, data items will be comparable and, thus, national data will be available for all such institutions.

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National Household Education Survey (Adult Education Component):

With increased attention being paid to adult learning, as a result of the national education goals and the concern about America’s ability to compete in a global economy, there has been a heightened interest in more complete data on the educational activities of the adult population. The National Household Education Survey (NHES) provides the opportunity to collect information on a wide range of adult education experiences. The adult education component of NHES was implemented in the spring of 1991. (For more information on the other components, see the NHES description in chapter 2.)

DESIGN:

The adult education component in the 1991 NHES was adapted from the previous Current Population Survey (CPS) adult education supplements. A knowledgeable adult was asked a series of questions to screen all household members for adult education participation. Altogether interviews were obtained from approximately 9,800 adult education participants and 2,750 non-participants. At present, NCES plans to field the adult education component again in 1994.

COMPOUNENTS:

Adult Education Component (NHES: 91):

Household membership and individual characteristics; participation in adult education; type of program (vocational, occupational, basic skills, etc.); reasons for taking courses and barriers to participation in adult education.

POLICY AND RESEARCH ISSUES:

The adult education component of the NHES can be used to address many questions about the patterns of participation by demographic and labor force characteristics. It includes data on reasons for taking courses, on the providers of the courses, and the costs of the courses. Information was also collected from non-participants concerning barriers to their participation.
For more information on the NHES Adult Education Component contact:

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Recent College Graduates Study:

The General Education Provisions Act, 20 USC 1221e-1, Section 406(b)(5) states that NCES shall "conduct a continuing survey...to determine the demands for and availability of qualified teachers...in critical areas within education." The Recent College Graduates Study (RCG) estimates the potential supply of newly qualified teachers. It is a study of the immediate post-degree employment and education experiences of people who obtained a bachelor’s or master’s degree from an American college or university. It focuses on those graduates qualified to teach at the elementary and secondary levels.

The RCG has been conducted periodically since 1976. In 1993, NCES will establish a longitudinal survey of graduating college seniors, which will replace the RCG Study. This survey, Baccalaureate and Beyond, will follow an oversample of graduating seniors from the National Postsecondary Student Aid Study.

DESIGN:

Data from the RCG study are representative at the national level. The sample is drawn from the universe of students within 1 year of attaining a bachelor’s or master’s degree. The 1991 RCG study used a two-stage sampling design. The first stage consisted of drawing a sample of 400 bachelor’s and master’s degree-granting institutions from 1,978 institutions in the 1988-89 IPEDS completions file. Institutions were stratified by control (public or private) and by degrees awarded in the field of education (over or under a specified number). Within each of these four strata, institutions were selected according to size (size being measured by the sum of bachelor’s and master’s degrees awarded that year). The size measure also gave additional weight to institutions according to the proportion of degrees awarded to blacks.

Institution Sampling. The frame for first stage selection, consisted of institutions from the 1988-89 IPEDS Completions tape that satisfied the following criteria: 1) the institution had a FICE code (i.e., was a "higher education institution": an institution accredited at the college level by an agency recognized by the U.S. Secretary of Education); 2) the institution was in one of the 50 states or the District of Columbia; and 3) the institution was a 4-year (or above) institution that awarded bachelor’s or master’s degrees.

Graduate Sampling. The second stage of the 1991 RCG design called for the selection of a core sample of 18,000 graduates (16,000 bachelor’s degree recipients and 2,000 master’s degree recipients who graduated during the 1989-90 academic year (July 1, 1989 and June 30, 1990) from the 400 sampled institutions. Simple random samples of graduates were selected from each defined subgroup (i.e., by field of study). The graduates included in the sample were selected in proportion to the institution’s number of graduates. Graduates whose major fields of study were education, mathematics, and the physical sciences were sampled at a higher rate as were minority graduates to provide a sufficient number of these graduates for analysis purposes. Graduates were surveyed 1 year after receiving a degree.

For sampling, each graduate was classified into one of seven strata. All master’s degree recipients were in one stratum, and bachelor’s degree recipients were divided into the following strata: 1) F’ack graduates; 2) Hispanic graduates; 3) education majors who were not black or
Hispanic; 4) math majors who were not black or Hispanic; 5) physical science majors who were not black or Hispanic; and 6) all other graduates.

A systematic sample of graduates was selected by stratum. The base rates for bachelor's and master's degree graduates were derived by taking the desired sample size and dividing by the number of graduates from all institutions in the universe. Oversampling was done to ensure adequate sample sizes for groups of interest. Black and Hispanic bachelor's degree recipients were oversampled at three times the base rate. Math and physical science bachelor's degree majors were oversampled at two times the base rate. Finally, education majors were oversampled at two and one-half times the base rate.

The RCG studies are designed to meet certain objectives: a) to determine how many graduates become eligible or qualified to teach for the first time and how many were employed as teachers in the year following graduation, by teaching fields; and b) to examine the relationship between courses taken, student achievement, and occupational outcomes. The 1987 study also obtained information from college transcripts regarding types and patterns of courses taken by all baccalaureate degree recipients that year in their major field of study. NCES plans to collect transcripts from the graduating institution of the 1989-90 graduates.
COMPONENTS:

Recent College Graduates:

Date of graduation; field of study; graduates newly qualified to teach; further enrollment; financial aid; employment status (especially teacher employment characteristics); job characteristics and earnings; age; marital status; sex and race/ethnicity.

POLICY AND RESEARCH ISSUES:

The supply of new teachers and the demand for their teaching services has changed dramatically over the past 2 decades. Because the RCG provides estimates of one source of teachers, the data from this survey of interest not only federal policymakers, but also many elementary and secondary schools throughout the country. The RCG studies can be used to obtain data on: a) the number and percent of recent graduates who are qualified to teach and who enter the teaching profession; b) the kinds of jobs recent college graduates are getting by program area or major field; c) the extent to which graduates get jobs in the area of their major field; d) the extent to which jobs differ for men and women who graduate in the same program or major field; e) unemployment of graduates; and f) jobs obtained by baccalaureate or master’s degree recipients that do not require a 4-year college degree.

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National Postsecondary Student Aid Study

The U.S. Department of Education provides some type of financial assistance to about one in every three students attending a postsecondary institution. During the 1991-92 school year, federal and state governments and postsecondary institutions awarded more than $30 billion in grants, loans, and work-study aid. Yet, until recently, relatively little information was available about students who benefit from federal aid, how financial aid is distributed, or the effects of financial aid on students who receive aid.

The National Postsecondary Student Aid Study (NPSAS) is a comprehensive nationwide study of students enrolled in less-than-2-year institutions, community and junior colleges, 4-year colleges, and major universities located in the United States and Puerto Rico. Undergraduate, graduate, and first-professional students who receive financial aid, as well as those who do not receive aid, participate in NPSAS. The study is conducted under contract for NCES once every 3 years.

The National Postsecondary Student Aid Study collects information on student demographics, family income, education expenses, employment, education aspirations, parental demographic characteristics, parental support, and how students and their families meet the costs of postsecondary education. In addition to describing characteristics of students enrolled in postsecondary education, the results are used in part to help determine future federal policy regarding student financial aid.

The first NPSAS was conducted during the 1986-87 school year. Data were gathered from institutional records on about 60,000 students at 1,100 colleges, universities, and other postsecondary institutions. About 43,000 of these students and 13,000 parents also completed questionnaires.

During 1989-90, information from institutional records on about 69,000 students at 1,130 postsecondary institutions was collected. About 51,400 students and 16,000 parents also completed computer-assisted telephone interviews. These data provided information on the cost of postsecondary education, the distribution of financial aid, and the characteristics of both aided and nonaided students and their families. Following each survey, NCES publishes three major reports, Undergraduate Financing of Postsecondary Education, Student Financing of Graduate and Professional Education, and Profile of Undergraduates in American Postsecondary Institutions.
The design for the NPSAS sample involves geographic areas, institutions within geographic areas, and students within institutions.

To be eligible for inclusion in the institutional sample, an institution must have satisfied the following conditions: 1) offered an education program designed for persons who have completed secondary education; 2) offered an academic, occupational, or vocational program of study; 3) offered access to persons other than those employed by the institution; 4) offered more than just correspondence courses; 5) offered at least one program lasting 3 months or longer; and 6) was located in the 50 States, the District of Columbia, or Puerto Rico.

From the sampled institutions, 1,074 schools participated in 1987; and 1,130 participated in 1990. The 1993 NPSAS sample will include about 78,000 students at 1,200 institutions and about 25,000 parents.

NPSAS data come from multiple sources, including institutional records, and student and parent interviews. Detailed data concerning participation in student financial aid programs are extracted from institutional records. In 1986-87, family circumstances, background demographic data, and plans and aspirations were collected using student and parent questionnaires. Beginning with the 1990 NPSAS, student and parent data were collected using a computer-assisted telephone interview.

The 1987 NPSAS sampled students enrolled in the fall of 1986. Beginning with the 1990 NPSAS, students enrolled at any time during the year were eligible for the study. This design change provided the data necessary to estimate full-year financial aid awards.

Beginning with the 1989-90 survey, NPSAS includes a longitudinal component and collects baseline data for a specified cohort of students. Students who began their postsecondary education during 1989-90 will be followed over time to examine such issues as persistence and effects of financial aid on subsequent enrollment. Students who graduate during 1992-93 will be followed over time to examine issues such as the transition from college to work and access to graduate school. These two surveys, known as the Beginning Postsecondary Survey and the Baccalaureate and Beyond Survey, are described more thoroughly in chapter 5.
COMPONENTS:

Student Record Abstract (from institutional records):

Year in school; major field of study; type and control of institution; attendance status; tuition and fees; admission test scores; financial aid awards; cost of attendance; student budget information and expected family contribution for aided students; grade point average; age; date first enrolled.

Student Interview:

Level; major field of study; financial aid at other schools attended during year; other sources of financial support; monthly expenses; reasons for selecting the school they are attending; current marital status; age; race/ethnicity; sex; highest degree expected; employment and income; community service.

Parent Survey:

Parents’ marital status; age; highest level of education achieved; income; amount of financial support provided to children; types of financing used to pay child’s educational expenses; occupation and industry.

The Out-of-School Student Loan Recipient Survey (1987-1988; only conducted as part of NPSAS:87):

Major field of study; years attended and degrees received (if any); type and control of institution; financial aid; repayment status; age; sex; race/ethnicity; marital status; income; and employment history (occupation, industry, and salary).

POLICY AND RESEARCH ISSUES:

NPSAS covers a number of topics of interest to policymakers, educators, and researchers. For example, NPSAS analyzes the participation of students in financial aid programs. The goal is to identify institutional, student, and family characteristics and others related to program participation. Special population enrollment in postsecondary education is also analyzed. These populations include students with disabilities, racial and ethnic minorities, students taking remedial/developmental courses, students from families with low incomes, and older students. Another component of NPSAS is the study of the distribution of students by major field of study.
Major fields of particular interest include mathematics, science, engineering, as well as teacher preparation and health studies. NPSAS generates data on factors associated with choice of postsecondary institution, participation in postsecondary vocational education, parental support for postsecondary education, and occupational and educational aspirations.

For additional information on the National Postsecondary Student Aid Study contact:

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National Survey of Postsecondary Faculty:

The quality of postsecondary education is directly affected by faculty and instructors in postsecondary institutions. However, there has been little comprehensive current information on this professional body and the major issues that face them as educators, researchers, and members of the work force. The National Survey of Postsecondary Faculty (NSOPF) was designed to remedy this situation. This study, which is cosponsored by the National Endowment for the Humanities, provides reliable data in a variety of areas for postsecondary education researchers, planners, and policymakers. NSOPF is the most comprehensive study of faculty in postsecondary educational institutions ever undertaken.

DESIGN:

The NSOPF was conducted by NCES for the first time in the 1987-88 academic year. There were three major components of the study: a survey of institutional-level respondents in a stratified random sample of 480 institutions; a survey of a stratified random sample of 11,013 eligible faculty members within the participating institutions; and a survey of a stratified random sample of 3,029 eligible department chairpersons (or their equivalent) within the participating institutions. Response rates to the three surveys were 88 percent, 76 percent, and 80 percent respectively.

The universe from which the institutions were selected included all nonproprietary U.S. postsecondary institutions that grant a 2-year (A.A.) or higher degree and whose accreditation at the higher education level is recognized by the U.S. Department of Education. This includes religious, medical, and other specialized postsecondary institutions, as well as 2- and 4-year non-specialized institutions. In 1987, according to the Integrated Postsecondary Education Data System (IPEDS), this universe comprised 3,159 institutions.

The 1988 NSOPF gathered information regarding the backgrounds, responsibilities, workloads, salaries, benefits, and attitudes of both full- and part-time faculty in their postsecondary institutions. In addition, information was gathered from institutional and department-level respondents on such issues as faculty composition turnover, recruitment, retention, and tenure policies. The survey is being repeated in the 1992-93 academic year so that changes over time in institutional policies and faculty characteristics, behaviors, and attitudes can be assessed. At this time, the program has been renamed the National Study of Postsecondary Faculty.
COMPONENTS:

Institutional Survey:

Counts of faculty by rank; faculty hires and departures; tenure of faculty; tenure policies; retirement and other benefits for faculty.

Department Chair Survey:

Faculty composition in department; tenure of faculty in department; tenure policies; rank; gender, and minority/nonminority status of faculty in department; faculty hires and departures in department; hiring practices; activities to assess faculty performance; professional and developmental activities.

Faculty Survey:

Sociodemographic characteristics; academic and professional background; field of instruction; employment history; current employment status including rank and tenure; outside employment; workload; courses taught; job satisfaction and attitudes; career and retirement plans; benefits and compensation.

POLICY AND RESEARCH ISSUES:

The NSOPF contains data which can be applied to policy and research issues related to postsecondary faculty. For example, NSOPF can be used to analyze whether the postsecondary labor force is declining or increasing. NSOPF data also can be used to analyze faculty job satisfaction and how it correlates with an area of specialization; and how background and specialization skills relate to present assignments. Comparisons can be made on academic rank and outside employment. Benefits and compensation can also be studied across institutions, and faculty can be aggregated by sociodemographic characteristics.

For more information on the National Survey of Postsecondary Faculty contact:

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Survey of Earned Doctorates Awarded in the United States:

This survey 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 Center for Education Statistics in conjunction with the National Science Foundation, the National Endowment for the Humanities, the Department of Agriculture, and the National Institutes of Health.

DESIGN:

Survey forms are mailed to graduate deans each May for distribution to individuals receiving their doctorates between July 1 and June 30 of the next year. The data are collected, edited, and published by the National Academy of Sciences (NAS). By the end of the summer, the NAS publishes general survey results in a summary report and in a four-page flyer. NAS also provides detailed tabulations to each sponsoring agency.

COMPONENTS:

Survey of Earned Doctorates:

Sex; age; race/ethnicity; marital status; citizenship; disabilities; dependents; specialty field of doctorate; all institutions attended from high school to completion of doctorate; time spent in completion of doctorate; source of financial support for graduate study; education debt incurred; postdoctoral plans; educational attainment of parents.

POLICY AND RESEARCH ISSUES:

From the Survey of Earned Doctorates data, it is possible to determine whether the number of doctoral recipients is increasing or decreasing, by field of study. The various sources of financial aid for doctoral students can be assessed, as can the average time it takes to complete the degree. Future or present employment can be studied, which is useful to postsecondary institutions and research facilities. Trend data on who is receiving doctorates, by sex and race/ethnicity and other characteristics also can be analyzed.
For more information on the Survey of Earned Doctorates contact:

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Postsecondary Education Quick Information System (PEQIS):

Policy analysts, program planners, and decisionmakers in postsecondary education frequently need data on emerging issues quickly. It is not always feasible for NCES to use its large, recurring surveys to provide such data quickly due to the length of time required to implement large-scale data collection efforts. NCES has established PEQIS to collect timely data on focused issues needed for program planning and policy development with a minimum burden on respondents. In addition to obtaining information on emerging issues quickly, PEQIS surveys are also used to assess the feasibility of developing large-scale data collection efforts on a given topic or to supplement other NCES postsecondary surveys.

Design:

PEQIS employs a standing sample (panel) of approximately 1,500 postsecondary education institutions and a panel of 51 state higher education agencies. The first two PEQIS surveys were initiated in the fall of 1992. PEQIS number 1, requested by the Office of Policy and Planning/ED, is a study of the financial climate at colleges and universities and its effect on their institutional missions. PEQIS number 2, requested by the Office of Special Education and Rehabilitative Services/ED, augments a congressionally mandated study of deaf and hard of hearing students in postsecondary education.

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Other Activities

Postsecondary Coordination Activities

SHEEO/NCES Postsecondary Education Coordination Network

This project provides coordination and communication between NCES and state postsecondary education agencies to enhance and expedite NCES data collection and dissemination activities. Project activities include meetings with the Network Advisory Committee and an annual national meeting and IPEDS workshop with the Network representatives from the State Higher Education Executive Officers agencies. The Network issues a quarterly bulletin containing information about NCES and state activities, provides an advisory service summarizing developing education issues and related data needs, and maintains a library service providing information about state and federal postsecondary education data collections. In addition, there is a personnel exchange service that provides funds for staff of state education agencies to visit each other to share technical assistance information regarding their data collection and dissemination efforts. The Network Director visits state agencies, attends postsecondary association meetings, and makes recommendations regarding new and developing issues in need of national data to inform education policymakers.

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Panel on Postsecondary Education

A panel on postsecondary education is made up of representatives from postsecondary education associations, colleges and universities, state education agencies, and other federal agencies who attend annual meetings coordinated by the American Council on Education. Topics for discussion include Postsecondary Education Statistics Division projects in the planning and developmental stages and new postsecondary issues which may affect NCES data collections.

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Panel on Postsecondary Education
Plans for Postsecondary Education:

NCES will continue to collect data for all IPEDS components, except the Early Estimates System which has been discontinued. However, the forms used to collect the data will be modified starting in 1993. State and institutional representatives will review and discuss these changes at an IPEDS workshop in FY 1993. IPEDS will continue to provide a sampling frame for other postsecondary surveys such as the National Postsecondary Student Aid Study. The Postsecondary Education Quick Information System will be used to collect data for addressing emerging and focused issues that the ongoing data collection systems are unable to provide.

Other plans call for NPSAS to serve as the base for two new postsecondary longitudinal surveys: Beginning Postsecondary Students (BPS) and Baccalaureate and Beyond (B&B). The BPS survey began in 1990 and is described in chapter 5. B&B will study the educational and work-related achievements of a postsecondary graduating cohort as the members continue on to graduate or professional education, or enter the work force. Since this new study will be a longitudinal survey and will not begin until 1993, it is discussed in the "Plans" section of chapter 5.

In the October 1991 CPS School Enrollment Supplement, some questions were added on student mobility in postsecondary education. For example, "Has the student changed from one school to another and why?"

A feasibility study is being conducted to produce an automated data system for a nationwide electronic records transfer system. The "Standardization of Postsecondary Education Electronic Data Exchange (SPEEDE)" is being designed for the development of a set of data elements and definitions in American National Standards Institute format to be used in the pilot electronic transfer of student records between districts and from districts to postsecondary institutions. Data elements are included in five different areas: demographics, academic history, special programs and services, health, and test information.

Also, the Student-Right-to-Know and Campus Security Act (SRK) of 1990 (P.L. 101-542), originally required postsecondary institutions (starting in July 1993) to make available to students and prospective students the institutions' graduation and/or completion rates for full-time, degree-seeking undergraduates. It also requires institutions that award athletically-related student aid to report rates for athletes and other students. As required by P.L. 101-542, a report was completed in FY 92 by the Secretary of Education to address institutions' ability to report graduation/completion rates by academic major, schools within institutions, and a variety of student characteristics. An analysis of institutions' ability to report other outcome measures of completers, such as employment in a related field was included in this report. This report Postsecondary Student Outcomes: A Feasibility Study was published by NCES in February, 1992.

In response to the legislation, and based on the findings from the feasibility study, NCES is planning to collect, compile, and report graduation/completion rates of postsecondary institutions beginning in 1994 or 1995.
DESIGN:

To implement the first phase of this activity in the summer of 1992, NCES established a survey development working group to advise NCES in the design of a reporting format for institutional graduation/completion rate data. Based on input from the working group, as well as on specifications contained in the proposed regulations for the SRK, initial design issues have been resolved.

The basic methodology is for institutions to track a cohort of students from initial entrance into the institution through, at minimum, 150 percent of the time it normally takes to complete the longest degree program at the institution. Institutions will be asked to report separately the percentage of the cohort completing, continuing, or transferring over a three-year period. The graduation/completion rates will be collected by level (e.g., associate, bachelor’s), race/ethnicity, and gender. The graduation/completion data will be evaluated for consistency and comparability across institutional sectors.

Institutional graduation/completion rate data will eventually be collected from the universe of all postsecondary institutions in the United States eligible for Title IV financial aid. The universe of postsecondary institutions is determined by the 1992 Integrated Postsecondary Data System (IPEDS) Institutional Characteristics (IC) survey.

POLICY AND RESEARCH ISSUES:

The passage of the SRK legislation is a clear indication that there is serious concern over outcomes for students in postsecondary education, as well as the overall effectiveness of postsecondary institutions. Because of the widespread interest in this area, the collection of graduation/completion rate data will be included as a component of the IPEDS once it is demonstrated that the component will yield consistent, comparable, and valid data, and will be routinized sufficiently so it will not be a major disruption for on-going IPEDS surveys.

For more information on Institutional Graduation/Completion Rates contact:

Nancy B. Schantz
Postsecondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5652
Telephone number (202) 219-1590

Education leaders and a study of the reliability and validity of education facilities data collection policymakers recognize that there is a need to assess the state of education facilities of both elementary and secondary school districts and postsecondary institutions. Facilities data are required to assess the need for renovation, new buildings, room utilization, etc. Before such an assessment can take place, however, facilities definitions, coding conventions, and data forms must be available and tested. The purpose of this study is to assess the extent to which data providers are able to provide complete, accurate, and reliable facilities data. To this end data providers at the school district and postsecondary institution levels will fill out the facilities
survey form using a recently developed manual that is designed to insure standard definitions and coding conventions. These data will be evaluated for inter- and intra-rater consistency and validity by comparisons with experts' and other standardized ratings. The results of this exercise will be used to determine: 1) changes needed in the data collection instrument; 2) changes needed in the manual; and 3) training needed for the data provider.

DESIGN:

Data from the common core of data and Integrated Postsecondary Education Data System will be used to draw a sample of school districts and postsecondary institutions. The information from these data bases will be used to stratify school districts and postsecondary institutions in the selection of a sample. Approximately 260 school districts and postsecondary institutions will participate in the study.

For more information on the Facilities Study contact:

Peter Stowe
Postsecondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5652
Telephone number (202) 219-1363
Postsecondary Education Statistics

Selected Publications and Tabulations:

*Undergraduate Financing of Postsecondary Education: A Report of the 1987 National Postsecondary Student Aid Study* (June 1988)

*Employment Outcomes of Recent Master’s and Bachelor’s Recipients* (August 1988)

*Completions in Institutions of Higher Education, 1986-87* (December 1988)

*Student Financing of Graduate and Professional Education: A Report of the 1987 National Postsecondary Student Aid Study* (March 1989)


*Profiles of Handicapped Students in Postsecondary Education, 1987* (June 1989)

*Occupational and Educational Outcomes of 1985-86 Bachelor’s Degree Recipients* (August 1989)

*Institutional Policies and Practices Regarding Faculty in Higher Education* (January 1990)

*A Descriptive Report of Academic Departments in Higher Education Institutions* (January 1990)

*Faculty in Higher Education Institutions, 1988* (March 1990)

*E.D. TABS: Characteristics of Stafford Loan Recipients, 1988* (June 1990)

*Trends in Racial/Ethnic Enrollment in Higher Education, Fall 1978 through Fall 1988* (June 1990)


*College Costs 1989-90: Basic Student Charges at 2-Year and 4-Year Institutions* (August 1990)

*Profile of Undergraduates in American Postsecondary Institutions* (September 1990)


*1989-90 Directory of Postsecondary Institutions, Volumes 1 and 2* (September 1990)

*National Estimates of Higher Education Statistics, Fall 1990* (December 1990)


*National Postsecondary Statistics, Collegiate and Non-Collegiate, Fall 1990* (March 1991)


*State Higher Education Profiles, 1989* (May 1991)

*FRSS: College-Level Remedial Education in the Fall of 1989* (June 1991)

*E.D. TABS: Enrollment in Higher Education* (July 1991)

Profiles of Faculty in Higher Education, 1988 (August 1991)
Classification of Instructional Programs, 1990 Update (August 1991)
National Higher Education Statistics, Fall 1991 (December 1991)
Adult Education Profile for 1990-91 (January 1992)
E.D. TABS: Trends in Racial/Ethnic Enrollment, Fall 1990 (January 1992)
Basic Student Charges at Postsecondary Institutions: Academic Year 1990-91 (February 1992)
E.D. TABS: Fall Staff in Postsecondary Institutions, 1989 (February 1992)
Feasibility Study for Postsecondary Right-To-Know Reporting (March 1992)
Quality of Postsecondary Education Student Responses (May 1992)
Methodology Report for the 1990 National Postsecondary Student Aid Study (May 1992)
Parental Financial Support for Undergraduate Education (May 1992)
E.D. TABS: Salaries of Full-Time Institutional Faculty, 1990-91 (June 1992)
E.D. TABS: Salaries, Tenure, and Fringe Benefits of Full-Time Institutional Faculty (June 1992)
E.D. TABS: Key Statistics on the Non-Collegiate Sector of Postsecondary Education, 1990 (July 1992)
National Postsecondary Statistics, Collegiate and Non-Collegiate, Fall 1991 (July 1992)
E.D. TABS: Key Statistics on the Non-Collegiate Sector of Postsecondary Education, 1990 (July 1992)
Current Funds Revenues and Expenditures of Institutions of Higher Education: Fiscal Years 1982 through 1990 (July 1992)
Profile of Undergraduates in U.S. Postsecondary Education Institutions (September 1992)
Trends in Persistence (September 1992)
Quality of Postsecondary Education Student Responses (September 1992)
Beginning Postsecondary Students Field Test Report (September 1992)
IPEDS Glossary (June 1992)
Data Files:

Residence of First-Time Students in Higher Education (April 1988)
National Postsecondary Student Aid Study, 1987 (June 1988)
Fall Staff in Postsecondary Institutions, 1987 (February 1990)
1988 National Survey of Postsecondary Faculty (March 1990)
Enrollment in Occupationally Specific Program, 1989 (December 1990)
Completions in Postsecondary Institutions, 1988-89 (December 1990)
   (February 1991)
Public Library Statistics: 1990 (March 1991)
Fall Enrollment in Postsecondary Institutions, 1989 (May 1991)
Faculty Salaries, Tenure, and Fringe Benefits in Postsecondary Institution for 1989-90
   (May 1991)
Financial Statistics of Postsecondary Institutions, FY 1989 Imputed and Unimputed (2 Tapes)
   (May 1991)
   (2 Tapes) (June 1991)
National Postsecondary Student Aid Study: FY 1989-90 (October 1991)
Faculty Salaries, Tenure, and Fringe Benefits in Postsecondary Institutions for
   1990-91 (January 1992)
1989-90 Completions in Postsecondary Education (January 1992)
Basic Statistics from Non-Collegiate Institutions, 1990 (February 1992)
Fall Enrollment in Postsecondary Institutions, 1990 (March 1992)
1989-90 Completions in Postsecondary Education (July 1992)
Financial Statistics of Postsecondary Education Institutions, FY 1991
   (July 1992)
Basic Statistics from Non-Collegiate Institutions, 1990 (July 1992)
Institutional Characteristics of Postsecondary Institutions, 1990-91 (August 1991)
1987 RCG Transcript Data File (September 1992)
National Postsecondary Student Aid Study, NPSAS:87 CD-ROM is now available, it includes
   table generation systems for undergraduate (in-school) students. NPSAS has table generation
   systems for graduate and first-professional students, as well. The data were collected from
   43,176 students.
The CD-ROM also includes state records, questionnaire responses, and transcripts.
National Postsecondary Student Aid Study, NPSAS:90 CD-ROM is now available, it includes
   table generation system for undergraduate, graduate and first-professional students. The data
   were collected on more than 61,000 undergraduates and graduates and from parents of about
   16,000 younger, dependent, unaided students. Both CD-ROMs include students who received
   financial aid as well as those students who did not receive financial aid.
1990 NPSAS general information diskette (June 1992). This diskette includes information on
   NPSAS: 90 CD-ROM, Methodology Report, and the user manuals for the table generation
   systems.
# Data Collection Calendar for Postsecondary Education

## Surveys

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### Integrated Post-Secondary Data System

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### Year of Data Collection

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- **National Post-secondary Student Aid Study**: X X X X X
- **Recent College Graduates**: X X
- **National Survey of Postsecondary Faculty**: X X
- **Survey of Earned Doctorates in the United States**: X X X X X X X X X X X
Educational Assessment

Assessing the educational outcomes of American students is a major concern of NCES. This is achieved primarily through the National Assessment of Educational Progress (NAEP). For 2 decades, NAEP has regularly collected and reported information on the knowledge, skills, and attitudes of a national sample of both age- and grade-representative populations in a variety of school subjects.

Insights into the educational practices and outcomes of the United States are also obtained by comparing them with other countries. This is achieved through the International Education Statistics program at NCES, which provides systematic statistical data on the educational experiences and trends in other countries. Information comparing the public expenditures for schooling, participation rates of school-age children, and education achievement levels of the various national populations are disseminated in the major reports of NCES.

Another way to study the outcomes of education is to investigate the courses of study that students have taken. Three NCES surveys have collected data on courses of study in high school: the 1982 High School and Beyond (HS&B) transcript study, the 1987 High School Transcript Study, and a 1990 High School Transcript Study. The information gathered from the transcript studies has proven quite useful and such studies will be continued in the future. Also postsecondary transcripts are part of longitudinal studies at NCES, and the recent College Graduate Study.

NCES has a new program to assess educational outcomes among adults through the National Adult Literacy Survey. In 1992 NCES conducted a full-scale, household-based literacy survey of adults age 16 and over.

Data Uses:

NAEP data have been employed in numerous ways by researchers, educators, policymakers, and the general public. Researchers have used NAEP data to describe performance trends in all subject areas, especially basic skills; to study achievement in the arts; and to analyze instructional practices and to conduct other research projects. Policymakers cite NAEP data to illustrate the state of the American educational system. Educators have used the results to develop standards for improved mathematics and science curricula. Elected officials have used NAEP data to call for educational reform.

NCES receives many requests for information about education in other countries such as school achievement levels, school completion rates, school expenditure levels, and higher education enrollment rates. Policymakers, such as chief state school officers, governors, and local school officials, also want to know the average level of achievement in other countries. Most requests are for data concerning highly developed countries (e.g., Australia, Canada, England, France, Germany, and Japan).

High school transcript data have been used for a variety of assessment purposes. In its 1983 report, *A Nation at Risk* the National Commission on Excellence in Education recommended a specific minimal course of study in high school. In response to this report, NCES analyzed the High School and Beyond (HS&B) transcript study, comparing the course-taking patterns of high school students graduating in 1982 to the curriculum recommended by the Commission. NCES
paper has related the course-taking patterns of students in 1982 to selected characteristics of their schools. The 1990 High School Transcript Study is being developed to compare the course-taking patterns of students in 1990 with similar patterns in 1987 and 1982. Extensive analyses of vocational education enrollments and of course-taking patterns of handicapped high school students have been conducted through the National Assessment of Vocational Education (NAVE).
Surveys and Studies:

National Assessment of Educational Progress:

The National Assessment of Educational Progress (NAEP) was mandated by Congress (GEPA, Section 406) to continuously monitor the knowledge, skills, and performance of the nation’s children and youth. Under this legislation, NAEP is required to provide objective data about student performance at national and regional levels.

In 1988, Congress amended this legislation to establish the National Assessment Governing Board (NAGB). The purpose of NAGB is to provide policy guidance for the execution of NAEP. The Board is composed of national and local elected officials, chief state school officers, classroom teachers, local school board members, and leaders of the business community, among others. Specifically, it has been charged by Congress to perform the following duties: select subject areas to be assessed; identify appropriate achievement goals for each age group; develop assessment objectives; design a methodology of assessment; and produce guidelines and standards for national, regional, and state comparisons.

Prior to 1990, NAEP was required to assess reading, mathematics, and writing at least once every 5 years. The current legislation requires assessments in reading and mathematics at least every 2 years, in science and writing at least every 4 years, and in history or geography and other subjects selected by the Board at least every 6 years.

DESIGN:

NAEP was begun in 1969 and has periodically assessed students aged 9, 13, and 17 and at various grade levels. In 1983, a number of changes were made to the design to improve its utility to policymakers. The student samples were expanded to include both age- and grade-representative populations. The sample, since 1988, has been drawn from the universe of 4th, 8th, and 12th graders for the elementary and secondary school students survey; from the teachers of those students for the teacher survey; and from the school administrators at those elementary and secondary schools for the school characteristics and policy survey. A variation of matrix sampling (balanced incomplete block spiraling) was begun in packaging and administering assessment booklets. This method was used so that the results from a large number of items could be generalized to an entire population. Approximately 2,600 students respond to each block of items.

The subject areas assessed have included: reading, writing, mathematics, science, citizenship, U.S. history, geography, social studies, art, music, literature, computer competence and career and occupational development. From time to time, NAEP has conducted special assessments in other educational areas such as health, energy, consumer math, and young adult literacy. NAEP also has collected background information from students, teachers, and administrators, and has related these data to student achievement. Cognitive performance data and non-cognitive data are reported for the nation, and for various subgroups categorized by variables such as region, gender, race/ethnicity, parental education type of school, and type and size of community. Also initiated in 1983 was the reporting of performance data by scaled
proficiency levels (see "scale scores" below). In 1993, NAEP will begin the practice of reporting achievement levels in subjects as the levels are developed.

All questions undergo extensive reviews by subject-area and measurement specialists, as well as careful scrutiny to eliminate any potential bias or lack of sensitivity to particular groups. They are then field tested, revised, and administered to a stratified, multi-stage probability sample. The individuals sampled are selected so that their results may be generalized to the entire country. Once the data have been collected, scored, and analyzed, NAEP publishes and disseminates the results.

In recent years when reporting results, NAEP has utilized "scale scores." These scores are a device summarizing both the proficiency or level of understanding of a subject, and the nature of that understanding into a single number, reflecting a mean score, with corresponding standard deviation. For example, in mathematics, the levels of proficiency are described as follows: a) Level 150—simple arithmetic facts; b) Level 200—beginning skills and understanding; c) Level 250—basic operations and beginning problem solving; d) Level 300—moderately complex procedures and reasoning; e) Level 350—multi-step problem solving and algebra.

Over the past three assessment cycles NAEP has developed scales for mathematics, reading, writing, science, civics, history, and geography. These scales allow NAEP to report comparable results across ages and across assessments. In addition, the scale scores allow NAEP to report the proportion of students at different proficiency levels in the various subject areas. This permits educators, policymakers, and the general public to see the types of skills and knowledge American students demonstrate at different levels of proficiency in a subject area.

Currently, NAEP is conducted every other year in even-numbered years. In 1988, NAEP assessed student performance in reading, writing, civics, and U.S. history and conducted a small special interest assessment in geography; in 1990, reading, writing, science, and mathematics were assessed, and in 1992, reading, mathematics, and writing were assessed. NAEP has been designed to produce a representative sample at the national level. In the 1990 assessment, data were collected from a national probability sample of over 45,000 students per age/grade or a total of about 146,000 students in nearly 2,100 schools. Data were also collected from these students' principals and a sample of their teachers. Representative state-level data were produced for the first time for participating states from the trial state assessment in 1990 for mathematics at the 8th-grade level. In 1992, state level data were collected in fourth grade reading and mathematics and eighth grade mathematics.
COMPONENTS:

Elementary and Secondary School Students Survey:
Assessed areas including reading, writing, mathematics, science, civics, U.S. history, music, geography, social studies, art, literature, computer competence, and career and occupational development. Special assessments in other educational areas such as health, energy, consumer math, and young adult literacy.

School Characteristics and Policy Survey:
School data including: enrollment, curriculum testing and objective setting-practices, school administrative practices, school conditions and facilities, special services and programs. School administrator data including: race/ethnicity, sex, undergraduate field of study, years as principal, administrative experience, teaching experience.

Teacher Survey:
Teacher including: classroom instructional practices, race/ethnicity, sex, age, undergraduate field of study, teaching certification, full-time teaching experience, employment status, and subject matter specialization.

POLICY AND RESEARCH ISSUES:

A study group of policymakers was formed by the Secretary of Education in 1986 to examine NAEP. This study group produced the publication, The Nation's Report Card. It stated that policymakers were keenly interested in NAEP student assessment data because the data address the outcomes of education, specifically, the level of educational achievement. The group emphasized, however, that NAEP should produce data that are representative not only at the national level, but also at the state level. New legislation enabled NAEP to begin pilot testing assessments at the state level during 1990. Such state-level results promise to make NAEP more useful for policymakers and the public. (See the "Plans" section of this chapter for a further explanation.)

In addition to performance results in subject areas, NAEP collects basic descriptive information about students, teachers, administrators, schools, and communities. This information can be used to address the following four educational policy issues that are of concern to educators, policymakers, and researchers: a) Instructional practice—What instructional methods are being used and how do these relate to achievement? b) Students-at-risk—How many students appear to be at-risk, in terms of achievement, and what are their characteristics? c) Teacher work...
force—What are the characteristics of teachers of various subjects? d) Education reform—What, if any, policy changes are being made by our nation's schools?

Over the past 20 years, NAEP has generated more than 200 reports spanning 11 instructional areas. It is the nation's only ongoing, comparable, and representative assessment of what American students know and can do. A summary of NAEP findings since its inception through 1990 is available in the publication, Trends in Academic Progress, released in January 1992.

For further information on the National Assessment of Educational Progress contact:

Gary W. Phillips
Education Assessment Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5653
Telephone number (202) 219-1761
International Education Statistics:

NCES carries out a variety of activities to provide statistical data for cross-national comparisons on education. Through comparisons with other countries, it is possible to learn more about the status of education in the United States and to generate new ideas for improving American education.

NCES plays a central role among organizations involved in collecting and interpreting international data and has devoted staff and funds for international education studies. NCES is actively involved in the Organization for Economic Cooperation and Development (OECD), based in Paris, France, and in the International Association for Evaluation of Educational Achievement (IEA), based in the Hague, Netherlands. NCES also supports the Board on International Comparative Studies in Education at the National Academy of Sciences. The Board discusses U.S. participation in international education studies and provides advice on measures to improve these studies.

Recent Activities:

OECD International Education Indicators Project

NCES has been working cooperatively with the member countries of the Organization for Economic Cooperation and Development (OECD) since 1988 to develop an education indicator reporting system. The project's goal is to improve the comparability of education data across the 24 OECD countries and to develop, collect, and report on a key set of indicators about the condition of education in these countries.

The indicators will include measures of student enrollment and achievement, labor force participation, school and school system features, attitudes and expectations, costs and resources. The first report containing data for some of these topics, Education at a Glance, was released in September 1992. These indicators will be refined and other indicators will be developed.

Second International Assessment of Education Progress (IAEP-2):

NCES recently sponsored the Second International Assessment of Education Progress (IAEP-2) that was conducted by Educational Testing Service (ETS) in 1990-91. A total of 20 countries surveyed the mathematics and science performance of 13-year-old students and 14 countries assessed 9-year-olds in mathematics and science.
Some countries, including the United States, also conducted a probe of geography achievements of 13-year-olds. There also was an experimental investigation of students’ abilities to use equipment and materials to solve mathematics and science problems. In addition to assessing achievement, IAEP-2 collected information on educational system characteristics, classroom practices, home characteristics, and student characteristics and attitudes. Typically, a representative sample of 3,300 students from 110 different schools was selected from each country population at each age level and one-half were assessed in mathematics and one-half in science. A total of about 175,000 9- and 13-year olds were tested.

IEA Reading Literacy Study:

In the 1990-91 school year, a Reading Literacy Study was conducted in 34 countries, including the United States, by the International Association for Evaluation of Educational Achievement (IEA). NCES helped support the development and implementation of this study. Students in intact classes at the grade level where the modal age was 9 or 14 years old were asked to demonstrate how well they read and how well they understand what they read. At the same time, information was sought from teachers and schools about the factors which lead some children to become better readers than others. The populations and sample sizes varied from country to country. In the United States, the sample included approximately 10,000 4th graders and 5,000 9th graders from 400 schools.
POLICY AND RESEARCH ISSUES:

There is a great deal of interest in the findings of international student assessment studies and in the development of education indicators which facilitate comparisons among national systems of education. This interest has been spurred by increased concern about global economic competition and the role education plays in ensuring economic power.

The assessment studies provide answers to the question of how other countries educate their children and with what success. Such comparisons lead to re-examinations of our own teaching practices and challenge the conventional wisdom underlying them. The impetus for much of the educational reform movement of the 1980s came from the international comparisons reported in *A Nation At Risk*. The assessments not only compare the performance of American students with that of their peers in other nations, but also provide insights into the factors that influence performance.

The OECD educational indicators data will provide more comparable information about the activities and outcomes of educational systems and institutions in member countries. Such data can lead to improvements in accountability and policymaking. These data are increasingly relevant to policy formulation due to the growing political, economic, and cultural ties among countries.

For further information on international education statistics contact:

Eugene Owen  
Data Development Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5650  
Telephone number (202) 219-1746
High School Transcript Studies:

Three high school transcript studies have been conducted since 1980. The first was part of the High School and Beyond (HS&B) first followup survey in 1982 (see chapter 5 for more information on HS&B). About 12,000 transcripts were collected from school records for HS&B sophomore cohort students who were seniors in 1982. In 1983, the National Commission on Excellence in Education recommended a specific minimal course of study in high school. In 1988, the U.S. Department of Education evaluated the way the nation responded to the call for school reform. In its report, American Education: Making It Work, the recommended curriculum was compared with the actual course-taking patterns of 12th-grade students. The data came from the 1987 High School Transcript Study which surveyed approximately 22,700 seniors who had participated (as 11th graders) in the 1986 National Assessment of Educational Progress (NAEP). The 1990 High School Transcript Study, done in conjunction with NAEP, will continue to track changes in the curricular patterns of high school students. Data files and documentation will be released early in 1993.

To ensure maximum compatibility, the procedures and formats used in previous studies for editing, coding, error resolution, and documentation were also used for the 1990 transcript data. This consistency will enable users to compare cohorts with a minimum of effort. The 1990 study will reflect modifications in course-taking over the last 3 years.

DESIGN:

The 1990 High School Transcript Study consisted of systematically transcribing about 23,000 transcript records to determine the course-taking patterns of 12th grade high school students selected from the 1990 NAEP assessment sample. With this connection, test results will be linkable to course-taking patterns. All transcript information was collected by field personnel; no personal contacts were made with students.

For the 1990 study, the following three summary tables were developed: 1) the percentage of high school graduates earning minimum credits in new basics courses in 1990 and the comparison of the totals to 1982 and 1987; 2) the mean number of credits (Carnegie units) that graduates earned in each major subject field in 1990; and 3) the number of students receiving credit in 1990 in secondary subjects for courses in the NCES' Classification of Secondary School Courses (CSSC).

The coded data were compatible with the data produced in the 1982 HS&B Transcript Study and the 1987 High School Transcript Study. This standardization and comparability will be useful in later analyses to compare the results of the three studies. It also has the cost advantage of avoiding unnecessary duplication of design work that has already been performed.
COMPONENTS:

The 1990 High School Transcript Study

Student characteristics: dates when attended and left school; graduate or not when left school; high school programs in which enrolled; completion status of curricular programs (particularly vocational programs); days absent; honors awarded, disciplinary actions recorded; grade point average; standardized test scores; and student rank in relation to class size.

Course level characteristics: subject matter of the course; period of time the course was taken; grade earned; credits earned; whether the course was taken at an Area Vocational Technical Center; and whether the course was designed for honors, exceptional, or special education students.

POLICY AND RESEARCH ISSUES:

High school transcript data inform researchers and policymakers about the course-taking patterns of students. Since the report, *A Nation At Risk*, there have been a number of other critics advocating the strengthening of the high school core curriculum. Students have been encouraged to increase their academic load with courses in English, mathematics, science, social studies, computers, and foreign languages. As NCES conducts more transcript studies, overall trends in course-taking patterns can be traced. Transcript data are measures of exposure, rather than measures of learning. More research is needed to determine what effect this content exposure has on student achievement. The current study will allow investigation of the relationship between course-taking patterns and performance on the 1990 NAEP.

For more information on the high school transcript studies, contact:

1982 Study: Paula Knepper
Postsecondary Education Statistics Division
(202) 219-1914

1987 Study: Andrew Kolstad
Education Assessment Division
(202) 219-1773

1990 Study: Patricia Dabbs
Education Assessment Division
(202) 219-1933

National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5653
National Adult Literacy Survey:

Literacy assessments inform policymakers about the extent of basic skills in using printed information that the adult population needs to function in society, to achieve one's goals, and to develop one's knowledge and potential. Recently, concern has mounted that inadequacies in the literacy of American workers are reducing the competitiveness of the American economy and preventing some Americans from exercising the rights and responsibilities of citizenship. The National Adult Literacy Survey will provide an accurate benchmark for measuring the literacy capabilities of adults.

DESIGN:

The 1992 National Adult Literacy Survey (NALS) defines literacy as "using printed and written information to function in society, to achieve one's goals, and to develop one's knowledge and potential." Literacy is be measured along three dimensions: 1) prose literacy—the ability to understand and use information from connected texts that include editorials, news stories, poems, and the like; 2) document literacy—the ability to locate and use information contained in documents, such as job applications or payroll forms, bus schedules, maps, tables, indexes, and so forth; 3) quantitative literacy—the ability to apply arithmetic operations to numbers embedded in printed materials, such as balancing a checkbook, figuring a tip, completing an order form, or determining the amount of interest from a loan advertisement.

Because policymakers need to assess a broad range of abilities in the population, but do not need to diagnose literacy problems of individuals, the 1992 assessment has been designed to cover a broad range of skills. It would take any one individual about 4 hours to complete the entire assessment. To keep the burden on any one individual to less than an hour, the assessment was cut into 13 pieces, with only 3 pieces given to each respondent. The designs used balanced incomplete block spiraling, as in NAEP, to assign systematically the parts of the assessment to individuals in a way that maximizes the information yield and permits generalizing the sample results to the U.S. population. The responses to the items are pooled and reported by proficiency scales on the three dimensions of literacy. All questions underwent extensive review by subject area and measurement specialists, as well as scrutiny to eliminate any bias or lack of sensitivity to particular groups.

The National Adult Literacy Survey was administered in the summer of 1992 in person by trained interviewers to a nationally representative probability sample of about 15,000 individuals aged 16 and older and to 1,000 adults incarcerated in federal and state prisons. In addition, 12 states funded sample supplements in order to obtain literacy estimates for their state populations. Once the data have been scored and analyzed, the results will be published and the data made available to the public by the end of January 1994.

This is the first national study of literacy for all adults since the Adult Performance Level surveys of the early 1970s. The next NALS will be conducted in 1997.
COMPONENTS:

**National Adult Literacy Survey:**
Assessed areas including: prose literacy; document literacy; and quantitative literacy. Other information includes race/ethnicity; age; sex; educational and occupational background; and reading habits.

POLICY AND RESEARCH ISSUES:

There has been serious concern about the literacy level of the American work force, as described in a number of national reports published since 1980, including *A Nation At Risk*, *Toward a More Perfect Union*, *The Subtle Danger*, *Work Force 2000*, *The Bottom Line*, and *Literacy: Profiles of America's Young Adults*. These reports have emphasized the need to increase our nation's standard of literacy in order to maintain our standard of living and to compete in global markets. This concern about literacy culminated in 1990, when President Bush and the governors adopted six national education goals, including: "By the year 2000, every adult American will be literate and will possess the knowledge and skills necessary to compete in a global economy and exercise the rights and responsibilities of citizenship." National programs to improve adult skills need to be based on knowledge about the nature and severity of the deficits in literacy. The role of the National Adult Literacy Survey is to provide the elementary facts needed to begin understanding our nation's literacy problem.

For further information on the 1992 National Adult Literacy Survey contact:

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Plans for Educational Assessment:

At the time this publication went to press, national assessments in NAEP had not been reauthorized beyond 1994 and state-level assessments beyond 1992. Therefore, the exact timing and content of future NAEP assessments is uncertain. Current plans are for an assessment in 1994 of three subjects at the national level and one at the state level pending authorization of a state assessment.

NAEP has been evaluating the national performance of students on achievement tests in specific subject areas since 1969. However, since the curricula are changing, NAEP must also change. A consensus process was used to develop 1994 assessments in mathematics, reading, and science. NAEP is also incorporating new assessment techniques. In 1990, about 2.5 million open-ended items were scored in connection with the mathematics assessment. In addition, the 1992 writing assessment, an assessment consisting totally of open-ended items, will be scored with primary trait, holistic, and writing mechanics scoring procedures. Other new assessment techniques have included the use of calculators in the 1990 mathematics assessment and a special study on the use of timed mathematics items to measure students' ability to estimate the correct answer.

NAEP is a national assessment program; however, it has been expanded to include voluntary trial state assessments. The first state-level assessment collected data in 1990 from 37 participating states, two territories, and the District of Columbia. In 1992, NAEP conducted a trial state mathematics assessment for the 4th and 8th grades, as well as a trial state reading assessment for the 4th grade. NCES will provide continuing reviews of NAEP through an independent evaluation of the trial state assessments, a NAEP technical review panel, and validation studies. Additionally, NCES will solicit public comment on the conduct and usefulness of NAEP by holding open meetings across the country.

NCES is currently participating in the development of another IEA study, the Third International Mathematics and Science Study (TIMSS). The first phase of TIMSS will be conducted in 1995. The second phase is planned for the end of the decade. About 50 countries are involved in the planning effort. The purpose of TIMSS is to assess mathematics and science achievement and to provide background information about how the characteristics of different educational systems and learning environments relate to achievement.

Cognitive tests will be administered to three populations: 9-year-olds, 13-year-olds, and students in the last year of secondary education. TIMSS will also collect information on educational system characteristics, classroom processes, curriculum content, the school environment including teacher and student characteristics, and other topics from national ministries, schools, and teachers. The final design is expected to include problem-solving tasks and laboratory experiments, classroom observations, and case studies of key educational policy issues.
When the first results from TIMSS are available in 1996, they will be used to check on progress toward the fourth national education goal regarding mathematics and science achievement. In addition to comparative findings on student achievement, three research issues that will be addressed by TIMSS are:

1. The content and form of instruction that leads to higher achievement.

2. The way different countries respond to student ability differences, e.g., tracking, retention, remedial programs, etc.

3. The values, efforts, motivation, and discipline factors that affect learning.

In addition to the new studies, two work groups are continuing data development activities that were started in 1991. One group is developing a plan to assess postsecondary student learning to obtain measures for monitoring postsecondary student performance. The other group is developing postsecondary education price and cost indexes. The institutional price index will be used to track changes in the prices of postsecondary education goods and services. The student cost index will measure changes in the tuition, living, and other costs required of students to attend postsecondary institutions.
Educational Assessment

Selected Publications and Data Files:

National Assessment of Educational Progress:

*America's Challenge: Accelerating Academic Achievement, A Summary of Findings from 20 Years of NAEP* (September 1990)
The Civics Report Card (1990)
The U.S. History Report Card (1990)
*Geography Learning of High School Seniors* (1990)
Learning to Read in Our Nation's Schools (1990)
Learning to Write in Our Nation's Schools (1990)
The State of Mathematics Achievement, *NAEP's 1990 Assessment of the Nation and the Trial Assessment of the States* (June 1991)
The State of Mathematics Achievement, *Executive Summary, NAEP's 1990 Trial State Assessment of the Nation and the Trial Assessment of the States* (various reports) (June 1991)
Individual Reports on Each of the 40 States and Jurisdictions Participating in the 1990 NAEP Trial State Assessment (June 1991)
*NAEP Facts: The Use of Calculators and Computers in School* (March 1992)
*School Effects on Educational Achievement in Mathematics and Science: 1985-86 National Assessment of Educational Progress* (May 1992)
*Reading In and Out of School: Factors Influencing the Literacy Achievement of American Students in Grades 4, 8, and 12 in 1988 and 1990* (May 1992)
*Exploring New Methods for Collecting Students' School-Based Writing: NAEP’s 1990 Portfolio Study* (May 1992)
*Challenges to Teaching Reading and Writing: 20 minute videotape available from National Audio-Visual Center.*
The NAEP Guide: *A Description of the Content and Methods of the 1990 and 1992 Assessments* (November 1991)
*Reading Framework for the 1992 National Assessment of Educational Progress* (February 1992)
*Questions Raised by the 1990 NAEP Trial State Assessment Results* (August 1992)
1990 NAEP Summary Report (September 1992)
Mathematics Achievement and Classroom Instructional Activities, 1990 Trial State Assessment in Math (September 1992)
Mathematics Achievement and Individual Background (September 1992)
National Assessment of College Student Learning: Issues and Concerns (July 1992)

NAEP Data Files:

Public use data files are available for each assessment in NAEP, including Trial State Assessments.

International Education:

The Underachieving Curriculum: Assessing U.S. School Mathematics from an International Perspective (January 1987)
International Comparisons of Teacher Salaries: An Exploratory Study (July 1988)
International Conference on Cross-National Education Indicators (August 1988)
A World of Differences: An International Assessment of Mathematics and Science (February 1989)
International Math and Science Assessment: What Have We Learned (January 1992)
How in the World Do Students Read? (September 1992)
Learning Mathematics (February 1992)
Learning Science (February 1992)
Learning About the World (June 1992)
Performance Assessment: An International Experiment (July 1992)
IEA Reading Literacy (September 1992)
IEA Reading Literacy Public Use Data Tape (September 1992)

High School Transcript Studies:

How Well Do High School Graduates of Today Meet the Curriculum Standards of the National Commission on Educational Excellence? (September 1983)
An Analysis of Course Offerings and Enrollments as Related to School Characteristics (April 1984)
American Education: Making It Work (May 1988)
What Americans Study (Published by ETS) (1989)
Participation in Secondary Vocational Education (January 1992)
### Data Collection Calendar for Educational Assessment

<table>
<thead>
<tr>
<th>Surveys</th>
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<td>National Adult Literacy Survey</td>
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\(^1\)Proposed subject areas for 1994; mathematics only at state level.

\(^2\)No authorization; proposed national assessment in three subjects and proposed state-level in two subjects.
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National Longitudinal Studies

The National Longitudinal Studies program at NCES was established to provide ongoing, descriptive information about what is occurring at the various levels of education and the major transition phases of students’ lives. In this way, intervening processes can be studied. To do this requires the periodic examination of educational and occupational attainment, aspirations, attitudes, and motivations during the pivotal years before, during, and after high school and college. With extensive questioning over succeeding years, longitudinal studies have made long-range comparisons between what individuals expect and what actually occurs. Consequently, such studies are critical to understanding the processes by which education leads individuals to develop their abilities and their roles in society.

The National Longitudinal Study of 1972 began with that year’s high school senior class and followed them through 1986. Three other longitudinal studies are being conducted currently. The High School and Beyond study began with both the sophomore and senior classes of 1980. The National Education Longitudinal Study of 1988 began with the 8th grade class of 1988. The Beginning Postsecondary Students longitudinal survey started with postsecondary students who began their postsecondary education in 1989-1990. A new longitudinal study, the Baccalaureate and Beyond Study, will be conducted in 1993-94 and two additional longitudinal studies are being planned, the Early Childhood Longitudinal Study and the National Education Longitudinal Study of 1998.

Data Uses:

The National Longitudinal Study of the High School Class of 1972 (NLS-72) data have been widely used for investigating educational policy issues. For example, in the early 1980s, a congressional agency turned to these data to develop a model for estimating the costs of tuition tax credits. More recently, capsule descriptions of this cohort have been produced and attrition rates from college have been studied, as have transitions from high school and college into the workplace. Postsecondary attainment, access, and financial aid studies have all used NLS-72. Studies have noted that the NLS-72 studies have produced data which yield significant insights into contemporary America.

The enlarged scope of High School and Beyond (HS&B) has provided even more data than NLS-72 for examining a wide variety of education policy issues. Like NLS-72, HS&B has produced a number of capsule descriptions of high school students. Additionally, HS&B data have been used to study the achievement of Hispanic students, discipline and order in high schools, economic issues such as students working while in school, comparisons of public and private schools, and course-taking patterns of American high school students. They also make it possible to compare the students of 1980 with those of 1972. The National Assessment of Vocational Education (NAVE) utilized the findings from the HS&B study in a number of their
reports. For example, NAVE used HS&B data for studies which attempted to measure high school curricular experiences as they relate to vocational education; course enrollment patterns; and student financial aid as it relates to postsecondary vocational education.

The National Education Longitudinal Study of 1988 (NELS:88) completed the second followup data collection in 1992. Data from this survey are being used to study transition patterns of 8th grade students as they move through school (e.g., moving from public to private school, dropping out of school, transitioning into high school). Other research issues being addressed include:

1) students' academic growth over time and the family, community, and classroom factors that promote or inhibit such growth;

2) the process of dropping out of school;

3) the role of the school in helping the disadvantaged;

4) the school experiences and academic performance of language minority students; and

5) the process of attracting students to the study of mathematics and science.
Surveys and Studies:

National Longitudinal Study of the High School Class of 1972:

Young people’s success in making the transition from high school or college to the work force varies enormously for reasons only partially understood. Some cling to dependency; others move into self-determination smoothly. The National Longitudinal Study of the High School Class of 1972 (NLS-72) base year study together with the five followup surveys attempted to provide data to allow researchers to study how these transitions evolve.

Design:

NLS-72 was designed to produce representative data at the national level on the cohort of students who were in the 12th grade in 1972. The sample for the base year NLS-72 was 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. A sample of schools was selected in the first stage. In the second stage, a random sample of 18 high school seniors was selected within each participating school.

Data were collected by mail, telephone, and personal interviews. In addition, the survey obtained school transcript data on high school curriculum, credit hours in major courses, grade point average, standardized test scores, and related information for each senior. To conduct intensive studies of disadvantaged students, NCES oversampled schools in low income areas and schools with significant minority enrollments.

The size of the student sample was increased during the first followup survey because base year nonrespondents were recontacted at that time. Those who provided base year information were retained, and included in later followup efforts. Consequently, in 1972 there were 16,683 respondents, but in the first followup in 1973, the number jumped to 21,350. The number of respondents in subsequent followups in 1974, 1976, 1979, and 1986 were 20,872; 20,092; 18,630; and 12,841 respectively (only a subsample of the original sample was contacted in 1986).

In addition to the followups, a number of supplemental data collection efforts were undertaken. For example, a Postsecondary Education Transcript Study was undertaken in 1984, and the fifth followup survey in 1986 included a supplement for those who become teachers.
COMPONENTS:

Base Year Survey:
Age; sex; racial/ethnic background; physical handicap; socioeconomic status of family and community; school characteristics; future education and work plans; test scores; school experience; school performance; work status; work performance and satisfaction.

Followup Surveys
Age; sex; marital status; community characteristics; education and work plans; educational attainment; work history; attitudes and opinions; postsecondary school characteristics; grade average; credits earned; financial assistance for postsecondary education.

POLICY AND RESEARCH ISSUES:

NLS-72 can provide information about quality, equity, and diversity of educational opportunity and the effect of those factors on cognitive growth, individual development, and educational outcomes. It can also provide information about changes in educational and career outcomes and other transitions over time. The NLS-72 data cover the sampled cohort from 1972-86.

For further information on the National Longitudinal Study of 1972 contact:

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High School and Beyond:

New education issues arose after NCES began its longitudinal study of the 1972 senior class. Declining test scores and minimum competency testing, for example, caused concern among parents and educators alike. The rate at which many students dropped out of high school before graduation was also a concern. Increased opportunities in secondary school vocational education opened new vistas for youths attentive to their futures. And, anxiety over access to postsecondary and vocational education sharpened the focus on the education experiences of Hispanic and other minority youths.

To examine these and other issues, NCES initiated a second longitudinal study, High School and Beyond (HS&B), to complement the first. HS&B studied the high school students of 1980. It attempted to collect the same types of data gathered in the National Longitudinal Study of the High School Class of 1972. However, the second study differed from the first in two significant ways. First, it addressed many newer elements of the educational process. Second, it included a sophomore cohort as well as a senior cohort. Adding the sophomore cohort made it possible to address the issue of high school dropouts and to study changes and processes during high school.

DESIGN:

The study design provided for a highly stratified national probability sample of over 1,100 secondary schools as the first stage units of selection. Certain types of schools were oversampled to make the study more useful for policy analyses: public schools with a high percentage of Hispanic students; Catholic schools with a high percentage of minority group students; alternative public schools; and private schools with high achieving students. The initial national sample for High School and Beyond was considerably larger than that employed in NLS-72. In this stage, 36 seniors and 36 sophomores were selected in each school. Parents of these students were also sampled. In schools with fewer than 36 students in either of these groups, all eligible students were selected. The base year of this survey, which was conducted early in 1980, collected data from over 30,000 seniors and 28,000 sophomores.

The longitudinal design of the study called for followup surveys of substantial subsets of the two cohorts at 2-year intervals. Data collection for the first followup began in spring 1982. Subsequent followups were also undertaken in 1984 and 1986, and another followup was conducted in 1992. The first followup survey conducted in 1982 sampled almost 40,000 students (12,000 seniors and 27,000 sophomores), the second in 1984 sampled approximately 27,000 students (12,000 seniors and 15,000 sophomores), and the third in 1986 sampled almost 27,000 students (also 12,000 seniors and 15,000 sophomores). The 1992 followup collected data from almost 15,000 sophomores. In 1993 a new Postsecondary Education Transcript Study will be conducted for the sophomore cohort.

Data collection instruments in the base-year survey included: 1) sophomore and senior student questionnaires with a series of cognitive tests, 2) school questionnaires filled out by an official in each participating school, 3) teacher comment checklists filled out by a teacher of the sampled student, 4) second language questionnaires, and 5) parent questionnaires filled out by
a sample of parents from both cohorts. The student questionnaires focused on individual and family background, high school experiences, work experiences, and future plans. Cognitive tests administered to students measured both verbal and quantitative abilities. Sophomore tests included brief achievement measures in science, writing, and civics, while seniors were asked to respond to tests measuring abstract and nonverbal abilities. The parent questionnaire elicited information about how family attitudes and financial planning affect educational goals. The school questionnaire gathered information about enrollment, staff, educational programs, facilities and services, dropout rates, and special programs for handicapped and disadvantaged students. The teacher comment checklist provided teacher observations on students participating in the survey.

The first followup of sophomores provided insights into the school dropout problem and into the influence of the last 2 years of high school on student attitudes and aspirations. The second followup in 1984 included a Postsecondary Education Transcript Study of the senior cohort. The later followups of the sophomore cohort made it possible to trace the consequences of dropping out, and the extent to which dropouts later return and complete high school. In brief, HS&B provides information on the educational, vocational, and personal development of young people as they move from high school into postsecondary education or the work force into and then into adult life. The initial study (NLS-72) laid the groundwork for comparison with HS&B. It recorded the economic and social conditions surrounding high school seniors in that year and, within that context, their hopes and plans. It has since measured the outcomes while also observing the intervening processes. High School and Beyond allows researchers to monitor changes by retaining the same goals, measuring the economic returns of postsecondary education for minorities, delineating the need for financial aid, etc. By comparing the results of the two studies, researchers can determine how hopes, plans, and outcomes differ in response to changing conditions or remain the same despite such changes.

Additional concerns of HS&B encompass issues that surfaced since NLS-72 began: How did the availability (or lack thereof) of student financial aid alter student plans for further education? Did middle-income families alter their attitude toward postsecondary education? These questions, as well as concerns about declining test scores, youth employment, and bilingual education are addressed, along with a host of others.

COMPONENTS:

Student Questionnaires:

Age; sex; racial/ethnic background; religion; socioeconomic status of family and community; school experiences; test scores; school performance; future educational plans; family status and orientations; work experience and satisfaction; future occupational goals; plans for and ability to finance postsecondary education; and cognitive tests.
School Questionnaire:

Enrollment; staff; educational programs; facilities and services; dropout rates; and special programs for handicapped and disadvantaged students.

Teacher Comment Checklist:

Teacher observations about the student.

Parent Questionnaire:

Family attitudes; family income; employment, occupation; salary; financial planning; and how these affect postsecondary education and goals.


Sophomores: similar information as collected in the base year survey plus high school transcripts and data on dropping out. Seniors (not surveyed in 1992 followup): age; sex; marital status; community characteristics; work plans; educational attainment; work history; attitudes and opinions; postsecondary school and program characteristics; postsecondary transcripts and credits earned; type of financial aid for postsecondary education.

Policy and Research Issues:

The base year survey of HS&B and the followup surveys have addressed the issues of educational attainment, employment, family formation, personal values, and community activities since 1980. For example, a major study on high school dropouts used HS&B data to demonstrate that a large number of dropouts return to school and earn a high school diploma or an equivalency certificate. Other examples of issues and questions that can be addressed with HS&B data are: a) How, when, and why do students enroll in postsecondary education institutions? b) Did those who (while in high school) expected to complete the baccalaureate (BA) degree actually do so? c) How has the percentage of recent graduates from a given cohort who enter the work force in their field changed over the past years? d) What are the long-term effects of not completing high school in the traditional way? How do employment and earnings event histories of traditional high school graduates differ from those who did not finish high school in the traditional manner? e) Do individuals who attend college earn more than those who do not attend college? What is the effect of student financial aid? f) What
percentage of college graduates are eligible or qualified to enter a public service profession such as teaching?  g) How many enter the work force full time in the area for which they are qualified?  h) How and in what ways do public and private schools differ?

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National Education Longitudinal Study of 1988:

The National Education Longitudinal Study of 1988 (NELS:88) was the third major longitudinal study sponsored by the NCES. The two studies that preceded NELS:88 (the National Longitudinal Study 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. Taken together, the longitudinal studies provide not only measures of educational attainment, but also rich resources in determining the reasons for and consequences of academic success and failure. NELS:88 seeks to expand on this base of knowledge by following children starting at an earlier age (8th grade) and by updating information throughout the 1990s.

DESIGN:

The base year sample of 1988 eighth graders was constructed to be representative at the national level. Two-stage probability sampling was used to select schools and students. The first stage involved stratified sampling of some 1,000 public and private schools from a universe of approximately 40,000 schools containing 8th grade students. The second stage included random samples of approximately 24-26 students per school. Some 25,000 8th graders and their parents, their teachers, and their school principals were surveyed. When the student sample was selected, one parent, one school principal, and two teachers of each student were also selected as subsamples. Hispanic and Asian students were oversampled to permit analysis of the performance of language minority students.

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 participation in postsecondary education). In the base year, four cognitive tests (i.e., reading, science, history/government, and math) were administered in addition to the student questionnaire, a parent questionnaire, a teacher questionnaire, and a school administrator questionnaire.

The design for the NELS:88 First Followup Survey included student, school administrator, teacher, and dropout questionnaires. Students took cognitive tests in reading, science, history/government, and math. The tests were designed to reflect 10th grade course work, but also had enough overlapping items with the 8th and 12th grade tests to permit measurement of academic growth. Selected teachers of each sampled student provided information about the student's study habits and performance and about instructional practices in the student's classes. The NELS:88 First Followup was conducted between February and May of 1990.
During the spring of 1992, NCES surveyed this 8th grade cohort again. This Second Followup Survey included student, school administrator, parent, teacher, and dropout questionnaires. Students and dropouts also took cognitive tests in reading, science, social science, and math.

For those researchers interested in school effects analyses, NCES is also sponsoring a School Effects Supplement. In 250 of the NELS:88 schools, additional students and teachers have been added. This file should be available in the fall of 1993.
COMPONENTS:

Base Year (1988)

Student Questionnaire:
Family background items; interaction with parents regarding in- and out-of-school activities; educational and occupational goals; perceptions about self and school; participation in classes and activities; and self-reported grades. Four cognitive tests: reading, math, science, and history/government.

Parent Questionnaire:
Socio-demographic characteristics; participation in student course selection; long-range educational planning; in- and out-of-school activities; establishing home discipline and interaction with the school; family educational expenses; and sources of income for children’s education.

School Administrator Questionnaire:
School characteristics: grade span; school type; enrollment and major program orientation; policies and practices; admission procedures and tuition; grading; testing and minimum course credits; gifted and talented programs; activities; and school climate. Student characteristics: average daily attendance; migration; race/ethnicity; single parent households; limited English proficiency classes; and special student services such as remedial classes and job-training. Teaching staff characteristics: size; race/ethnicity; salary; degree; and percentage of language assistance classes.

Teacher Questionnaire:
Student information: personal characteristics; behavior; academic performance; attitudes; problems and handicaps. Class information: homework assigned; use of instructional materials; choice of textbook/workbook; curriculum; and topical coverage. Teacher information: sex; race/ethnicity; age; experience; certification; degree; foreign language proficiency; in-service education; classroom preparation; parent contact; perception of school climate; and experience teaching gifted and talented children.
First Followup (1990)

Student Questionnaire:
School experiences and activities; plans for the future; language use; opinions about self; attitudes; religion; finances; family composition. Four cognitive tests: reading, math, science, and history/government.

Dropout Questionnaire:
Same as Student Questionnaire except school experiences and activities section asks reasons for leaving school, grade at the time, and if the student returned to school.

Teacher Questionnaire:
Student information: academic performance; behavior; homework; absenteeism; parental involvement; language minority status. Class information: enrollment; composition; homework assigned; class schedule; teaching materials, methods, and objectives. Teacher information: sex; race/ethnicity; subjects taught; and degrees held. School climate information: cooperation among staff, shared beliefs; and problems.

School Questionnaire:
School characteristics: grade span; enrollment; control of school; community location; calendar system; programs, facilities and services; absenteeism. Student characteristics: race/ethnicity; single-parent homes; limited English proficiency; free lunch programs; busing; 10th grade dropouts. Teaching staff characteristics: meetings; departmentalization; chairpersons; full-time teachers; salaries; race/ethnicity; degrees. School admission policies and practices: grading and/or testing structure; school programs; school climate.
Second Followup (1992)

Student Questionnaire:

School experiences and activities; age; social development; opinions about self; attitudes; occupational expectations and aspirations; money and work; language use; early graduate supplement; and school structure.

Parent Questionnaire:

Family background; child’s school life; parental behavior concerning student course selection; student educational outcomes; long-range educational planning; contact with child’s school; family life; friends; activity in the community; child’s future plans; postsecondary aspirations; parent involvement; in- and out-of-school activities; family educational expenses; and sources of income for child’s education.

School Administrator Questionnaire:

School characteristics: school environment and policies; total enrollment; grade span; school type; school activities; school programs and services; grading and testing structure; school climate Student characteristics: average daily attendance; race/ethnicity; single parent households; limited English proficiency classes; and special student services such as remedial classes and job-training. Teacher staff characteristics: size; full-time and part-time; salary; degree; and percentage of language assistance classes.

Teacher Questionnaire:

Student information: academic performance; behavior; homework; absenteeism; parent involvement; language minority status. Class information: enrollment; composition; homework assigned; class schedule; teaching materials; methods; and objectives. Teacher information: sex; race/ethnicity; experience; certification; degree; in-service education. School climate information: cooperation among staff; shared beliefs and problems.
**Dropout Questionnaire:**

How time is spent; past educational activities; reasons for dropping out; family reactions, peer group support; plans and aspirations for returning to school.

**Policy and Research Issues:**

The longitudinal design of this study permits the examination of change in young people’s lives and the role of schools in promoting growth and positive life outcomes. For example, NELS:88 data can be used to investigate:

- The transition from elementary to secondary school. The survey will permit the investigation of ways students are assigned to curricular programs and courses and how such assignments affect their academic performance as well as future career and postsecondary education choices.

- The students’ academic growth over time. Family, community, school, and classroom factors that promote such growth can be studied. The goal is to identify school and classroom characteristics and practices that promote student learning. The effects of changing composition of the family, which is evidenced by increasing numbers of working mothers and families headed by single parents, also can be studied.

- The features of effective schools. By surveying students, teachers, and school administrators, NELS:88 will enable an assessment of student educational outcomes. It will be possible to identify those school attributes that are associated with student academic achievement and other selected student behavior. For those researchers interested in school effects analyses, NCES is also sponsoring a School Effects Supplement. In 250 of the NELS:88 schools, additional students and teachers have been added. This file should be available in the fall of 1993.

- The process of dropping out of school, as it occurs from 8th grade on. NELS:88 provides the unprecedented opportunity to study young dropouts on a national scale; to examine the contextual factors associated with dropping out, especially those related to the school; and to profile the movement of students in and out of school, including alternative high school programs.

- The role of the school in helping the disadvantaged. Given the factors of increasing teenage pregnancy rates, increasing poverty among children, and the growing proportion of language minority students, there is a need for research on the school experiences of the disadvantaged and the approaches that hold the greatest promise for assisting them. By design, the NELS:88 sample contains an ample number of disadvantaged students to study this issue.
The school experiences and academic performance of language minority students. NELS:88 has oversampled Hispanics and Asians/Pacific Islanders to allow meaningful analyses of these subpopulations. Specifically, the data will provide information on variation in achievement levels and bilingual education needs and experiences.

Attracting students to the study of mathematics and science. The data will show the math and science preparation students receive nationwide and the degree to which interest in these subjects is captured. Information will also be available on whether they are encouraged by their teachers and school to study advanced mathematics and science.

Further information on the National Education Longitudinal Study of 1988 may be obtained from:

Jeffrey A. Owings
Elementary and Secondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1777
Beginning Postsecondary Student Longitudinal Study:

To complement the high school cohort longitudinal studies and to improve data on participants in postsecondary education, the Beginning Postsecondary Student Longitudinal Study (BPS) has been started. Because older students, in addition to recent high school graduates, are increasingly included in postsecondary education, high school cohort studies are not representative of all postsecondary participants at a given point in time. BPS includes these "nontraditional" as well as "traditional" students and is representative of all beginning students in postsecondary education (PSE).

The BPS survey will enhance and expand the base of information available regarding persistence, progress, and attainment from initial time of entry into postsecondary education through leaving and entering the work force. By starting with a cohort which has already entered postsecondary education, BPS is able to address issues of persistence, progress, and attainment, as well as issues related to transitions between undergraduate and graduate education and transitions between PSE and work. By following a PSE cohort (rather than a single age elementary or secondary school cohort), BPS will be able to determine to what extent, if any, students who start PSE later differ in their progress, persistence, and attainment. Because students who delay entry into PSE have different experiences prior to entry than students who enter immediately after high school, their transitions between levels of education and work may also be different. BPS will follow first-time, beginning students for at least 6 years at 2-year intervals to allow adequate time for completion and transition.

DESIGN:

The BPS is based on the National Postsecondary Student Aid Study (NPSAS). NPSAS is a large, nationally representative sample of institutions, students, and parents (see NPSAS description in chapter 3 for further information). As such, it provides a highly efficient and cost-effective way of identifying a nationally representative sample of beginning students in PSE. In addition, data from all components of NPSAS (the Student Record Abstract, the Student Interview, and the Parent Survey) are available as base year data for the BPS sample.

BPS will follow NPSAS beginning students at 2-year intervals beginning with NPSAS:90. About 7,000 students who began their PSE career in the 1989-90 academic year responded to NPSAS:90 and were included in the first BPS (BPS:90/92) in the spring of 1992 and will be in the second BPS (BPS: 90/94) in the spring of 1994. NPSAS:90 collected data for over 6,000 parents of those students. In addition to the student data which will be collected every 2 years, BPS will collect postsecondary transcripts and financial aid records covering the entire undergraduate period to provide complete information on progress and persistence. Data release from the first BPS is anticipated by the fall of 1993. New BPS cohorts will be selected from alternating NPSAS surveys.
COMPONENTS:

Base Year (1990):

NPSAS Student Record Abstract (from institutional records):

Major field of study; type and control of institution; financial aid; cost of attendance; age; sex; race/ethnicity; family income.

NPSAS Student Interview:

Reasons for school selection; current marital status; employment and income; community service; background and preparation for college; college experience; future expectations.

NPSAS Parent Survey:

Parent’s race/ethnicity; marital status; age; level of education achieved; income; occupation; financial support provided to children; methods of financing child’s PSE expenses.

BPS Followup Surveys (every 2 years):

Year in school; persistence in enrollment; academic progress; change in field of study; institution transfer; education-related experiences; current family status; expenses and financial aid; employment and income; employment-related training; community service; political participation; graduate school plans; entry and progress in graduate school; future expectations.
POLICY AND RESEARCH ISSUES:

BPS will greatly expand the knowledge about persistence, progress, and attainment after entry into PSE. It will also directly address issues concerning access to graduate school, entry into the work force, and rates of return. Its unique contribution will be the inclusion of non-traditional (or older) students at the same rate as occurs in PSE today. This will provide the ability to identify better the differences (if any) between traditional (recent high school graduates) and non-traditional (older) students in aspirations, progress, persistence, and attainment.

Among the questions BPS can address related to persistence are: Do students who are part-time or discontinuous attenders have the same educational goals as full-time, consistent attenders? Are they as likely to attain similar educational goals? Are students who change majors more or less likely to persist? Are nontraditional students more or less likely to persist than their more traditional counterparts?

In the area of progress and curriculum, questions addressed by BPS could include: What is the "normal" rate of academic progress? How has that changed over time? What educational experiences are related to "normal" and consistent progress? Is likelihood of transfer related to academic major?

Attainment/outcome questions include: At what rate do those who intend to complete an educational program at or below the baccalaureate level do so? What educational experiences encourage completion? How long does it take to complete the program?

Questions which BPS can address about access to graduate and professional programs concern timing, the application process, and entry into the program. BPS will also be able to provide information on rate of return questions, particularly those associated with immediate entry into the work force after completion of a program of less than 4 years.

Further information on BPS may be obtained from:

Paula R. Knepper
Postsecondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5652
Telephone number (202) 219-1914
Baccalaureate and Beyond Longitudinal Study:

The Baccalaureate and Beyond Longitudinal Study (B&B) will provide information concerning education and work experiences after the bachelor's degree. It will continue to provide cross-sectional information 1 year after bachelor's degree completion (comparable to the Recent College Graduate survey), while at the same time providing longitudinal data concerning entry into and progress through graduate level education, and the work force. A special emphasis of B&B will be on those entering public service areas, particularly teaching.

B&B will provide information on entry into, persistence and progress through, and completion of graduate level education information not available through followups involving high school cohorts or even college entry cohorts, both of which are restricted in the number who actually complete the bachelor's degree and continue their education. B&B will follow each cohort over a 12-year period, allowing a unique opportunity to gather information concerning delayed entry into graduate level education, times to completion of graduate education, and the interactions between work and education at the graduate level.

DESIGN:

The B&B is based on the National Postsecondary Student Aid Study (NPSAS) described previously. NPSAS is a large, nationally representative sample of institutions, students, and parents. As such, it provides a highly efficient and cost-effective way of identifying a nationally representative sample of baccalaureate degree completers in PSE. By using NPSAS as the base year for B&B longitudinal studies, two additional advantages are realized: 1) there is coordination between the recurring cross-sectional studies and the longitudinal studies; and 2) there is coordination among the postsecondary longitudinal studies. The information collected through NPSAS allows the accurate identification of baccalaureate degree completers. Further, data from all components of NPSAS (the Student Record Abstract, the Student Interview, and the Parent Survey) are available as base year data for the B&B sample.

B&B will follow NPSAS baccalaureate degree completers at 1, 3, 6, 9, and 12 years after completion, beginning with NPSAS:93. About 16,000 students who completed their degree in the 1992-93 academic year will be included in the first B&B (B&B:93/94). NPSAS:93 will also provide data for over 10,000 of their parents. In addition to the student data which will be collected every two years, B&B will collect postsecondary transcripts and financial aid records covering the undergraduate period, providing complete information on progress and persistence at both the undergraduate and graduate levels. New BPS cohorts will be selected from alternating NPSAS surveys.
COMPONENTS:

Base Year (1992):

NPSAS Student Record Abstract (from institutional records):

Major field of study; type and control of institution; financial aid; cost of attendance; family income; sex, race/ethnicity.

NPSAS Student Interview:

Undergraduate and major GPA; date of first enrollment; financial aid; loan burden for undergraduate education; activities related to selection and entry into graduate school; activities related to obtaining employment after graduation; qualifications to teach; current marital status; employment and income; demographic information; college experiences; future expectations.

NPSAS Parent Survey:

Parent’s race/ethnicity; marital status; age; level of education achieved; income; occupation; financial support provided to children; methods of financing student’s PSE expenses; involvement in student’s selection of graduate school; involvement in student obtaining job after graduation.

B&B Followup Surveys:

Entry into graduate school; persistence in enrollment; periods of attendance; graduate loan burden; academic progress; change in field of study; education-related experiences; financial aid; current family status; entry into the work force; employment related training; entry and persistence in teaching; community service; political participation; further education plans; future expectations.
POLICY AND RESEARCH ISSUES:

B&B will greatly expand the knowledge about persistence, progress, and attainment after entry into graduate education. It will also directly address issues concerning entry into the work force and rates of return. Its unique contribution will be the longitudinal perspective on the graduate education/work interaction and the longer range information concerning newly qualified teachers and their entry into and continuation in the field. Questions which B&B can address concerning access to graduate or professional programs concern timing, the application process, and entry into the program. Attainment/Outcome questions include completion time of BA, timing of entry into the work force, and relationship of education to area of employment. B&B will also be able to inform the rate of return questions, particularly those associated with immediate entry into the work force after completion of the bachelors degree, issues concerning the interaction between education and work, and issues associated with entry into public service areas such as teaching and relative career advancement.

Further information on BPS may be obtained from:

Paula R. Knepper  
Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652  
Telephone number (202) 219-1914

Plans for Longitudinal Studies:
Plans for Longitudinal Studies:

Postsecondary Plans

The third followup for NELS:88 is scheduled for 1994 when most of the cohort will be in the work force or participating in postsecondary education. A new Postsecondary Education Transcript Study of the High School and Beyond survey (HS&B) sophomore cohort is planned for 1993. The Beginning Postsecondary Student Longitudinal Survey (BPS), initiated in 1990, will continue to follow the student sample at 2-year intervals.

Early Childhood and Middle School Needs

In an attempt to be responsive to the information needs of the many education constituency groups concerned with students who are below the postsecondary level, NCES is currently planning two new studies that will follow children at the preprimary/elementary and the middle/secondary levels. These studies will collect data across important transition points (e.g., preprimary to elementary school; middle/junior high school to high school).

The first of these studies, the Early Childhood Longitudinal Study (ECLS), will collect information on the education experiences of young children and will be used to answer questions concerning how children's health, family, and educational histories affect their chances of succeeding in school. NCES is considering several alternative designs (e.g., birth cohort, kindergarten cohort, synthetic cohort) for this study of the early experiences of young children. The age/grade level(s) that NCES selects for beginning this new longitudinal survey will be based on recommendations and findings from NCES-sponsored design work and commissioned papers. Once it is successfully implemented, ECLS will provide researchers and policymakers with an array of data on the early experiences of all children that may be used to examine the relationships between these experiences and children's later learning, attitudes, and behavior.

The second of these initiatives, the National Education Longitudinal Study of 1998 (NELS:98), will begin with a new cohort of middle/junior high school or secondary school students in 1998. The actual beginning point (grade) selected for NELS:98 will depend on recommendations and findings from NCES-sponsored design work and commissioned papers. NELS:98 will be designed to provide data about critical transitions experienced by young people as they develop, attend school, and move both within and out of the school system. Survey instruments will be administered to students and the school principal, parents, and teachers of sampled students.
National Longitudinal Study Statistics

Selected Publications, Tabulations, and Data Files:

National Longitudinal Study of the High School Class of 1972:

A Descriptive Summary of 1972 High School Seniors: Fourteen Years Later (August 1988)
Postsecondary Enrollment, Persistence, and Attainment for 1972, 1980, and 1982 High School Graduates (December 1988)
Student Progress in College: NLS-72 Postsecondary Education Transcript Study, 1984 (February 1989)
Trends in Postsecondary Credit Production, 1972 and 1980 High School Graduates (June 1990)
A College Course Map: Taxonomy and Transcript Data (October 1990)
Light and Shadows on College Athletes: College Transcripts and Labor Market History (December 1990)
Women at Thirtysomething: Paradoxes of Attainment (June 1991)
Careers in Teaching: Following Members of the High School Class of 1972 In and Out of Teaching (July 1991)
The Way We Are: The Community College as American Thermometer (February 1992)
Portrait of the At-Risk Eighth Grader (February 1992)
High School and Beyond 1992 Field Test Methodology Report (May 1992)
Supplementary Addendum to NLS-72 Postsecondary Education Transcript Files: Data User’s Manual for Revised Transcript, Term, and Course Files (June 1992)
NLS-72 Data Files:

Merged Base Year, First, Second, Third, and Fourth Followup of High School Class of 1972
NLS-72 Fifth Followup

NLS-72 CD-Rom (Forthcoming)
The CD should include all questionnaire and testing data, fifth follow-up teaching supplement, school and counselor files, postsecondary institution characteristics, and revised postsecondary transcripts. The CD includes an enhanced electronic codebook with codes, labels, frequencies, and item wording, and software to create fully labeled SPSS-PC and PC-SAS code. Users may search electronically through variable labels or item wording for desired variables. The compact disks are structured to work within MS-DOS on an IBM-compatible computer with 20 megabytes or more of free hard-disk storage space.

National Education Longitudinal Study of 1988:

A Profile of the American Eighth Grader: NELS:88 Student Descriptive Summary
(June 1990)
E.D. TABS: Eighth Grader's Reports of Courses Taken During the 1988 Academic Year by Selected Student Characteristics (July 1990)
NELS:88 Base Year Sample Design Report (August 1990)
E.D. TABS: The Tested Achievement of the National Education Longitudinal Study of 1988 Eighth Grade Class (April 1991)
Psychometric Report for the NELS:88 Base Year Test Battery (April 1991)
A Profile of Schools Attended by Eighth Graders in 1998 (September 1991)
Quality of Eighth Grade Student Responses to NELS:88 Base Year Questionnaire (September 1991)
Language Characteristics and Academic Achievement: A Look at Asian and Hispanic Eighth Graders in NELS:88 (February 1992)
Profile of American Eighth Grade Mathematics and Science Instruction (June 1992)
A Profile of Parents of Eighth Graders (July 1992)
Characteristics of At-Risk Students in NELS:88 (August 1992)
NELS:88 First Follow-up Student Data Files User's Manual, volume I (August 1992)
NELS:88 First Follow-up Student Component User's Manual, volume II (August 1992)
NELS:88 First Follow-up Teacher Component (December 1992)
NELS:88 First Follow-up Student Profile (Forthcoming)
NELS:88 First Follow-up Dropout Descriptive Report (Forthcoming)
HSB/NELS 10th Grade Comparisons (Forthcoming)
NELS:88 Data Files

Parent Base Year Data File
School Base Year Data File
Teacher Base Year Data File
Student Base Year Data File

Student First Followup Data File
Dropout First Followup Data File
School First Followup Data File
Teacher First Followup Data File
High School and Beyond:

High School and Beyond Financial Aid Supplement: Sophomore Cohort (April 1988)
College Students Who Work (June 1988)
A Descriptive Summary of 1980 High School Sophomores Six Years Later (June 1988)
High School and Beyond Sophomore Cohort Postsecondary Education Transcript Study (July 1988)
A Descriptive Summary of 1980 High School Seniors Six Years Later (July 1988)
Postsecondary Institutions Offering Vocational/Technical Programs: Analysis Findings from High School and Beyond, 1980-1986 (September 1988)
Enrollment in Postsecondary Education of 1980 and 1982 High School Graduates (October 1988)
Postsecondary Enrollment, Persistence, and Attainment for 1972, 1980, and 1982 High School Graduates (December 1988)
The Relationship Between Postsecondary and High School Course-Taking Patterns: The Preparation of 1980 High School Sophomores Who Entered Postsecondary Institutions by 1984 (December 1990)
Trends in Postsecondary Credit Production, 1972 and 1980 High School Graduates (June 1990)
High School & Beyond 1992 Field Test Methodology Report (September 1992)
Participation in Secondary Vocational Education, 1982-87 (January 1993)

**HS&B Data Files:**

1980 Senior Cohort Third Followup (1986) Data File (October 1987)
Sophomore Cohort Postsecondary Education Transcript Study Data File (September 1988)

High School and Beyond CD-ROM
The CD includes all questionnaire and testing data from both cohorts (base year through third follow-up), school data from principals in 1980 and 1982, postsecondary spells of attendance, postsecondary institution characteristics, and student financial aid. Sophomore-only data include parent responses, high school friends, language, high school transcripts, and postsecondary transcripts. The CD includes an enhanced electronic codebook with codes, labels, frequencies, and item wording, and software to create fully labeled SPSS-PC and PC-SAS code. Users may search electronically through variable labels or item wording for desired variables.
# Data Collection Calendar for Longitudinal Studies

## Surveys

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<th>Base Year and Years of Followup Studies</th>
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### National Longitudinal Study of 1972

| B3 F4 F F F |

### High School and Beyond

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### National Education Longitudinal Study of 1988

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### Beginning Post-secondary Students

| NPSAS F F F F |

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3 Base year

4 Followup survey
### Base Year and Years of Followup Studies

**Baccalaureate and Beyond**

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Vocational Education

In 1984, NCES began to develop plans for a new system to collect information on vocational education. The new Data on Vocational Education (DOVE) system was presented to House and Senate Committee staff in January 1987. This new system derives data about vocational education from existing NCES secondary and postsecondary surveys (see the Surveys and Studies section of this chapter for a list of the surveys). A beneficial aspect of the system is that it allows researchers to compare students who are concentrating in vocational education with those students who are not concentrating in vocational education.

One of the greatest changes that NCES made in its data collection system for vocational education at the secondary level was how it collects data about enrollment. Instead of relying on reports from states that categorize students as being either vocational or nonvocational, NCES is collecting high school transcripts that indicate how much vocational education students take. This method of obtaining the data provides a more accurate picture of participation in vocational education, particularly since previous transcript studies showed that 98 percent of all graduating high school students had completed at least one course in vocational education in both 1982 and 1987.

Data Uses:

The primary use of the DOVE system is to report on the status of vocational education. NCES has published a considerable number of reports on a range of vocational topics, including students, teachers, and institutions. These publications are listed in the section on selected publications in this chapter. These publications include Vocational Education in the United States: 1969 - 1990, a recent NCES publication that synthesizes NCES vocational education data at both the secondary and postsecondary levels. In addition, the DOVE system was the primary data source for the National Assessment of Vocational Education (NAVE), a congressionally mandated evaluation of federal vocational education programs. For example, NAVE used the High School and Beyond data for studies which attempted to measure high school curricular experiences as they relate to vocational education; vocational education course enrollment patterns; and student financial aid for postsecondary vocational education.
Surveys and Studies:

Listed below are the primary databases and components that are used by NCES for the analysis of vocational education issues. Only brief summaries of the surveys of interest are presented in this chapter. If a more complete description of a survey or component is needed, the reader should refer to the appropriate chapter. (NOTE—In this chapter, all major surveys are underlined, followed by the components of that particular survey. The surveys are grouped by category—secondary, postsecondary, and longitudinal studies.)

Secondary Data Collection:

High School Transcript Study:

Complete high school transcripts including courses taken, grades, and credits earned. Personal data elements include: race/ethnicity; sex; age; and type and severity of handicapping condition.

Schools and Staffing Survey (SASS):

Teacher Questionnaire:

Demographic characteristics; teaching preparation and qualifications; career history and plans; teaching assignments; working conditions; and perceptions of school environment and the teaching profession.

School Administrator Questionnaire:

Background characteristics/qualifications and perceptions of school climate and conditions.

Teacher Demand and Shortage Questionnaire:

For public school districts and private schools: aggregate demand for teachers by level; measures of teacher shortage; district and school policies on teacher salaries, compensation, retirement, hiring, and other factors affecting supply and demand.
Postsecondary Data Collection:

Integrated Postsecondary Education Data System (IPEDS):

Completions:
Postsecondary awards by level, by sex, race/ethnicity, and by field of study including vocational fields of study.

Institutional Characteristics and Enrollment:
Types, sizes, and characteristics of institutions that offer vocational programs; full- and part-time enrollment by sex.

Salaries, Tenure, and Fringe Benefits of Full-time Instructional Faculty:
Number of full-time instructional faculty by rank, sex, tenure status, and length of contract; salaries and fringe benefits of full-time instructional faculty.

Financial Statistics:
Current fund revenues by source (e.g., tuition and fees, government, private gifts); current fund expenditures by function (e.g., instruction, research, plant maintenance and operation); physical plant assets and indebtedness; and endowment investments.

Fall Enrollments in Occupationally Specific Programs:
Full- and part-time enrollments by sex; completers and early leavers by sex; length of program; change in enrollment; and full- and part-time staff by sex and assignment.
National Postsecondary Student Aid Study (NPSAS):

Student Survey:

Participation in vocational education; level; major field of study; type and control of institution; financial aid; cost of attendance; age; sex; race/ethnicity; marital status; and income.

Out-of-School Student Loan Recipient Survey (1987-88 only):

Major field of study; years attended and degrees received (if any); type and control of institution; financial aid; age; sex; race/ethnicity; marital status; income; and employment history (occupation, industry, and salary).

Student Record Abstract:

Year in school; major field of study; type and control of institution; financial aid; cost of attendance; grade point average; age; sex; race/ethnicity; marital status; income; employment; and salary.

Longitudinal Surveys:

National Longitudinal Survey of 1972 (NLS-72):

Ability; socioeconomic background; enrollment and attainment; geographic mobility; labor force outcomes; military outcomes; and marriage and family. Includes high school and postsecondary transcripts.

High School and Beyond (HS&B):

Student characteristics; school experiences; future education plans; school enrollment; staff; special programs; teacher observations on students; characteristics and attitudes of parents, high school and postsecondary transcripts.
National Education Longitudinal Study of 1988 (NELS:88):

Educational achievement and outcomes based on student, school administrator, teacher, parent, and dropout questionnaires. Includes a study of high school transcripts. Substantial analysis of vocational and nonvocational students will not begin until the second followup survey in 1992.

Further information on Vocational Education may be obtained from:

James Houser
Data Development Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5651
Telephone number (202) 219-1419
Plans for Vocational Education:

The transcript studies, the longitudinal studies, and SASS are the primary sources of vocational data in secondary education. High school transcript data are collected and will be collected every 4 years in association with NAEP. NELS:88 will conduct followups every 2 years with high school transcript data collected after 1992, the second followup. A fourth followup of HS&B was conducted in 1992. SASS will be conducted every 3 years with the next collection scheduled for 1994.

At the postsecondary level, IPEDS, NPSAS, and the longitudinal studies are the primary sources for vocational education data. Most of the IPEDS surveys will be conducted annually, while NPSAS will be conducted every 3 years, with the next survey occurring in 1993. As noted above, NELS:88 will continue with followup studies, as will Beginning Postsecondary Students.

NCES has contracted for analyses of these data sets to provide new comparisons of vocational and nonvocational activities. Upcoming reports include a comparison of participation rates in secondary vocational education among 1982, 1987, and 1990 graduates. Another report will examine the academic advancement of students completing various amounts of vocational and nonvocational courses.
Selected Publications:

Profile of 1972 High School Graduates Who Were Vocational Students at the Postsecondary Level (March 1988)
The Postsecondary Education of 1972 Seniors Completing AA Degrees and Certificates (March 1988)
Credits Earned by Field of Study and Level of Attainment for Postsecondary Vocational Students Who Were High School Graduates in 1972 (April 1988)
Enrollment and Aid Status of Postsecondary Vocational Students Who Were High School Graduates in 1972 (April 1988)
Field of Entry, Timing, and Completion for Postsecondary Vocational Students Who Were High School Graduates in 1972 (April 1988)
Nation at Risk Update Study, Preliminary (comparisons of courses taken by 1982 and 1987 high school graduates) (May 1988)
Enrollment, Completion, Attrition, and Vocational Course-Taking Patterns in Postsecondary Education: A Summary Comparison of 1972 and 1980 High School Graduates Entering Two-year Institutions (August 1988)
Highest Educational Degree Attained by 1972 High School Seniors by Sex, Race, Type of High School, and Type of Community, as of Spring 1986 (September 1988)
Highest Educational Degree Attained by 1980 High School Seniors, by Sex, Race, Type of Community, and Type of High School, as of Spring 1984 (September 1988)
Postsecondary Institutions Offering Vocational/Technical Programs: Analysis Findings from High School and Beyond (1980-1986) (September 1988)
State Policies Concerning Vocational Education (November 1988)
Postsecondary Vocational Education of 1980 High School Seniors: The Two-Year Associate of Arts Degree (April 1989)
Profiles of Handicapped Students in Postsecondary Education, 1987 (June 1989)
Secondary Vocational and Nonvocational Classes in Public Schools (June 1990)
A Comparison of Vocational and Nonvocational Teachers in Grades 9 through 12 (February 1992)
Students at Less-Than-4-Year Institutions (September 1992)
Biennial Congressional Report on the Status of Vocational Education Data Collection and Reporting (September 1992)
Adult Literacy and Lifelong Learning, Participation in Adult Education 1991 (September 1992)
Library Statistics Program

The NCES mandate to collect library statistics is included in the Hawkins-Stafford Elementary and Secondary School Improvement Amendments of 1988 (PL 100-297). NCES collects and disseminates statistical information on public, academic, and elementary and secondary school libraries.

The role played by libraries of all types in education has not been adequately measured, as evidenced by: 1) the ad hoc nature of past data collection efforts in terms of frequency of collection and library components surveyed and 2) the lack of extant descriptive and outcome data. Measuring progress toward the national education goals must include contributions of libraries to all objectives of the goals: readiness for school, literacy and lifelong learning, student achievement in core subjects, and high school completion.

Data Uses:

Today these data provide the only current, national descriptive data on the status of libraries. These data are used by federal, state, and local officials, professional associations, and local practitioners for planning, evaluation, and policymaking. These data are also valuable to researchers and educators for developing conclusions concerning the state and best use of libraries and their resources.
Surveys and Studies:

Public Library Statistics:

Nationwide public library statistics are collected and disseminated annually through the Federal-State Cooperative System for public library data (FSCS). FSCS completed the collection of 1991 data in July 1992. Statistics are collected from nearly 9,000 public libraries.

DESIGN:

Beginning its fifth year of electronic data collection, FSCS is an example of the synergy that can result from combining federal and state cooperation with state-of-the-art technology. FSCS was the first national NCES data collection in which the respondents supplied the information electronically and in which data were also edited and tabulated completely in machine-readable form. The software (the most recent version is called DECPLUS) is cost-effective and has improved data quality.

The respondents are the over 9,000 public libraries identified in the 50 states and the District of Columbia by state library agencies. At the state level, FSCS is administered by State Data Coordinators, appointed by the chief officer of each state library agency. The State Data Coordinator collects the requested data from local public libraries and submits these data to NCES. An annual training conference sponsored by NCES is provided for the State Data Coordinators, and a steering committee representing State Data Coordinators and other public library constituents is active in the development of FSCS data elements and software. Technical assistance to states is provided by phone and in person by the FSCS Steering Committee and by NCES staff and contractors. All 50 states and the District of Columbia have submitted their annual 1989, 1990 and 1991 data. Data are available for individual public libraries and are also aggregated to state and national levels.

NCES has also developed the first comprehensive, public library universe file. This automated file, to be updated annually, is part of DECPLUS. It includes identifying information of all known public libraries (including outlets), all state libraries, and some library systems and cooperatives. Beginning in 1994 this resource will be available for drawing samples for special surveys on such topics as literacy, access for the disabled, and library construction, etc.
COMPONENTS:

FSCS Public Library Statistics:

Staffing; service outlets; operating income and expenditures; size of collection; and service measures, such as reference transactions, interlibrary loans, circulation, and public service hours.

PLUS:

Outlet name; address; city; county; ZIP code; telephone number; library system relationship; legal basis code; population of legal service area; outlet type; metropolitan status code; population served by outlet; and number of bookmobiles.

POLICY AND RESEARCH ISSUES:

Libraries provide essential learning resources that strengthen and perpetuate formal and informal education. Valid, reliable, and timely statistics are essential for effective use by policymakers in determining the investment of public resources in library development and operations.

Library and information science covers a diverse and rapidly changing field. Data collection activity which seeks to inform decisionmaking must be sensitive to the changes taking place within the library community, and its policymakers and researchers. In November 1991, NCES initiated an effort to promote the use of public library statistics among researchers and policymakers by holding a public library statistics seminar for these groups.

Also, the new universe file, PLUS, will make it possible to do surveys on topics of policy and research importance such as access for Americans with disabilities, networks and cooperatives, and library construction.

Further information on public library statistics may be obtained from:

Carrol Kindel or Adrienne Chute  
Postsecondary Education Statistics Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5652  
Telephone numbers (202) 219-1371 or (202) 219-1772
Academic Library Survey:

NCES surveyed academic libraries on a 3-year cycle between 1966 and 1988. Since 1988, the Academic Libraries Survey (ALS) has been a component of the Integrated Postsecondary Education Data System (IPEDS, see chapter 3) and is on a 2-year cycle. ALS provides data on about 3,500 academic libraries. In aggregate, these data provide an overview of the status of academic libraries nationally and statewide.

DESIGN:

The survey collects data on the libraries in the entire universe of accredited higher education institutions and on the libraries in nonaccredited institutions with a program of 4 years or more. ALS produces descriptive statistics on academic libraries in postsecondary institutions in the 50 states, the District of Columbia and the outlying areas.

NCES has developed IDEALS, a software package for states to use in submitting ALS data to NCES. IDEALS was used by 40 states in 1990. Like FSCS, ALS has an advisory Committee. A librarian in each state helps state IPEDS coordinators collect, edit, and submit ALS data to NCES.

COMPONENTS:

Academic Library Survey:

- Total operating expenditures
- Full-time-equivalent library staff
- Service outlets
- Total volumes held at the end of the fiscal year
- Circulation
- Interlibrary loans
- Public service hours
- Patron count
- Reference transactions per typical week

POLICY AND RESEARCH ISSUES:

ALS data provide information for policymakers and researchers on trends in total operating expenditures on academic libraries, services available to students, and adoption of new technologies such as giving students and researchers electronic access to bibliographic information. The survey also provides information on the staffing of academic libraries.
Further information on academic library statistics may be obtained from:

Jeffrey Williams
Postsecondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5652
Telephone number (202) 219-1362
School Library Statistics:

The last national survey exclusively on school library media centers was conducted in school year 1985-1986. NCES started asking questions on libraries in public and private schools as part of the Schools and Staffing Survey (SASS, see chapter 2). In the 1990-91 SASS, NCES field-tested two new questionnaires for school libraries.

DESIGN:

The most recent information on school libraries has been collected from a sample of public and private elementary and secondary schools in SASS. A few questions on school libraries were included in the 1990-91 SASS questionnaires. In addition, new questionnaires on the school library media center and on the school library media specialist were field-tested in the 1990-91 SASS. See the plans section of this chapter for information on the implementation of these questionnaires.

COMPONENTS:

1990-91 SASS: Items on School Libraries:

School Questionnaire:

Number of students served and number of professional staff and aides.

Teacher Demand and Shortage Questionnaire:

At the school district level, number of full-time-equivalent librarians/media specialists, vacant positions, positions abolished, and approved positions.

School Administrator Questionnaire:

Amount of librarian input in establishing curriculum.
POLICY AND RESEARCH ISSUES:

Data will provide a national picture of school library collections, expenditures, technology, and services. This information will be used by federal, state, and local policymakers and practitioners in assessing the status of school library media centers in the United States. The information will contribute to the assessment of the federal role in supporting school libraries.

The library media specialist questionnaire will provide, for the first time, a national profile of the school library media specialist work force.

Further information on school library statistics may be obtained from:

Jeffrey Williams
Postsecondary Education Statistics Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5652
Telephone number (202) 219-1362
Plans for the Library Statistics Program:

NCES plans to continue collecting public library data through FSCS and to update the public library universe file annually. Efforts will be made to improve data quality, for example, by developing clearer definitions and improving state and local training. As data quality improves, NCES also hopes to do more sophisticated analyses of FSCS data including measuring changes, making regional, size, and input/output comparisons, and mapping data. Beginning in 1993, data collection efficiency will be improved by collecting PLUS data as part of the annual data collection for public libraries with enhanced software called DECPLUS. Improved dissemination of data is also planned.

The collection of academic library data through IPEDS will be continued also. NCES plans to improve the quality of the data by promoting the use of IDEALS software for data collection. New data elements focusing on electronic access and other new technologies may be added to the survey. The ALS reports will contain more detailed analyses of the data.

NCES will continue school library data collection through SASS. In addition, a followup survey of turnover and retention issues among school librarians may be conducted. Full-scale implementation of the public and private school library media questionnaires is planned for the 1994 SASS. A sample of about 7,000 public and private elementary and secondary schools will be surveyed. Data from one of the questionnaires will provide a national picture of school library media center facilities, collections, equipment, technology, staffing, income, expenditures, and services. The data from the other questionnaire will profile the school library media specialist work force, including demographic characteristics, academic background, work load, career histories and plans, compensation, and perceptions of the school library media specialist profession and workplace. There will also be data on cooperative activities between librarians and teaching staff in developing course materials.

Several topical surveys are also planned. In 1993, under the sponsorship of Library Programs, NCES will conduct a fast response survey on public library services to children and young adults. NCES plans to pretest 2 additional surveys in 1993, one on state library agencies and the other on federal libraries. The state library survey is a cooperative effort between NCES and COSLA and the federal library survey is a cooperative effort between NCES and the staff of the Federal Library and Information Center Committee (Library of Congress).
Library Statistics Program

Selected Publications and Tabulations:


Data Files:

Public Libraries in Forty-four States and the District of Columbia: 1988 (March 1990)
Public Libraries Data, 1990 (July 1992)
Academic Libraries: 1990 Data Diskette (February 1993)
## Data Collection Calendar for Library Statistics Program

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Annual Publications of NCES

NCES annually produces three major publications which enjoy wide circulation: The Condition of Education, Digest of Education Statistics, and Projections of Education Statistics. These publications present statistics on a wide array of education topics. They are used in a number of diverse ways by policymakers, researchers, and the general public.

The Condition of Education:

NCES gathers and publishes information on the status and progress of education in the United States. The federal authorization (enacted in 1974, but with antecedents to 1867) for these activities states that the Center will "collect, collate, and from time to time, report full and complete statistics on the condition of education in the United States." This legislation mandated an annual statistical report from the Secretary of Education. In 1988, the Hawkins-Stafford Elementary/Secondary School Improvement Amendments delegated that reporting responsibility to the Commissioner of Education Statistics.

In 1975, The Condition of Education was created in response to this mandate. The publication attempted to present, in a single volume, an overview of education in the United States. The format of The Condition of Education was designed to present statistical information in an accessible manner for a general audience. The Condition, by analyzing statistical studies and data, investigated the context of education in this country, educational attainment, financing of education, enrollments, attitudes about school, the supply of teachers, and other related undertakings. The Condition also presented statistics on postsecondary education in the United States, which focused on educational attainment, the financing of postsecondary education, enrollments, age, and data on persistence in postsecondary education. Tables and required technical notes were also included.

In the late 1980s, the Condition became an "indicators" publication which includes data on a limited number of topics of interest and concern in education today. All possible indicators are not published in a given edition of the Condition. No more than 60 indicators are presented in each year's report. The indicators include a basic core that can be repeated with information every year, supplemented by a more limited set of indicators based on periodic or one-time studies. In contrast, the Center's other major compendium, the Digest of Education Statistics (see separate description in this chapter), includes more than 395 statistical tables, plus figures and appendices. The indicators, therefore, represent a consensus of professional judgement on the most significant national measures of the condition and progress of education at the time, but tempered, necessarily, by the availability of current and valid information.

The concept of education indicators has gained the attention of the U.S. Congress, national organizations, states, and localities. To assist the Center in conceptualizing and developing a set of education indicators useful to policymakers and researchers, the Congress mandated that NCES
convene a special study panel of experts to "make recommendations concerning the determination of education indicators for study." The report of the panel was transmitted to Congress in August 1991. Its recommendations may result in structural or content changes for future editions of the *Condition*.

The utility of this report should also increase as more diverse, high quality data become available, especially as new time series can be constructed. Elementary and secondary education data will be enhanced by revisions in the basic data collected about public schools in the Common Core of Data and by continuation and expansion of the Schools and Staffing Survey (SASS, see chapter 2) which covers both public and private schools. Also, more postsecondary data will become available from new surveys such as the Adult Education component of the National Household Education Survey and the postsecondary longitudinal surveys (see chapters 3 and 5).

For more information on *The Condition of Education* contact:

Nabeel A. Alsalam  
Data Development Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5650  
Telephone number (202) 219-2252
Digest of Education Statistics:

The Digest of Education Statistics (Digest) is the primary resource publication on education statistics. It contains a wealth of information on all levels of education from preprimary through graduate education. This reference volume is intended for use by researchers, policy analysts, business, media, students, educators, and the general public. The Digest has expanded through its long history, as NCES has adopted a policy of continuous development without sacrificing important trend information.

The development of the Digest occurred over an extended period of time. For 40 years, from 1916-18 to 1956-58, the statistical component of the Office of Education prepared and published the Biennial Survey of Education in the United States. Most of the important data collected by the Office was placed in the Biennial Survey, which was a resource used by researchers, planners, and others interested in the field of education statistics. After 1958, publication of the Biennial Survey ceased, but the need for a document summarizing the various types of data collected by the Office of Education continued. Thus, in 1962, the first edition of the Digest was issued.

The 1992 Digest is the 28th in this series of publications. (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 preprimary 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 NCES. It contains a considerable amount of material tabulated exclusively for the Digest such as summaries of federal funds for education and detailed tabulations on degrees conferred by colleges and universities. The publication contains information on schools, 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 Comparisons of Education," and "Learning and Technology." To qualify for inclusion in this publication, material must be nationwide in scope and of current interest and value. The introductory sections supplement the tabular materials in chapters 1 through 7 by providing brief overviews of current trends in American education. Each chapter contains an introduction to statistical materials describing that sector of education, as well as a series of short paragraphs that describe the most significant data in the chapter. Charts are provided to further illuminate important data.

Recently, NCES has begun a program to make the Digest even more comprehensive. To make data analysis more convenient, a machine-readable version has been developed. The diskette version of the Digest is now being expanded to include other NCES publications such as The Condition of Education, Youth Indicators and Historical Trends: State Education Facts. The data are packaged with software that allows computerized search and retrieval of specific data. NCES has also created Education Statistics: A Pocket Digest to make basic education
statistics available in a two-page flyer. The *Pocket Digest* includes statistics on enrollments, expenditures, faculty, degrees, and population characteristics in an abbreviated form.

The *Digest* strives for clarity, consistency, and comparability. It places high value on the major recurring surveys with the objective of providing trend data that researchers and policymakers can use to measure changes over time. It seeks to preserve the major series of education statistics originating with NCES and elsewhere and to make them readily available to a wide audience of users.

For more information on the *Digest of Education Statistics* contact:

Thomas D. Snyder  
Data Development Division  
National Center for Education Statistics  
555 New Jersey Avenue NW  
Washington, DC 20208-5650  
Telephone number (202) 219-1689
Projections of Education Statistics:

The National Center for Education Statistics is the official federal source of education projections at the national level. Projections are made in the areas of: enrollments; graduates and earned degrees conferred; instructional staff; and expenditures in elementary and secondary schools and institutions of higher education. The principal publication dealing with projections is the Projections of Education Statistics (Projections). The report provides national projections of statistics about elementary and secondary schools and institutions of higher education. Included are data on enrollments, graduates, degrees, instructional staff, and expenditures for the past 15 years, and projections for the next 12 years. The report also contains a methodology section that describes models and assumptions used to develop these projections. Most of the projections are based on three alternative sets of assumptions. Although the middle alternative is the preferred set of projections, the other (high and low) alternatives provide a range of possible outcomes.

A summary of these projections is available in a pocket-sized folder called Pocket Projections. This brochure is a quick reference for projections of key education statistics. The information provided in the report is used by researchers and policy planners in education and related areas. The projections are particularly targeted for individuals in business, industry, government, the media, and educators whose work requires information on projected developments and trends affecting American education.

For more information on the Projections of Education Statistics and projection methodology contact:

Debra E. Gerald and William J. Hussar
Statistical Standards and Methodology Division
National Center for Education Statistics
555 New Jersey Avenue NW
Washington, DC 20208-5654
Telephone number (202) 219-1581
OTHER GENERAL PUBLICATIONS OF NCES

A Guide to Improving the National Education Data System (October 1990)
Youth Indicators, 1991 (April 1991)
Education Counts: An Indicator System to Monitor the Nation's Educational Health (September 1991)
"Pocket Digest" (January 1992)
"American Education at a Glance" (March 1992)
NCES Statistical Standards (June 1992)
Historically Black Colleges and Universities, 1976-90 (July 1992)
"Pocket Condition" (November 1992)