

Overview of Administrative Data Matching to Postsecondary Studies at the National Center for Education Statistics

Sean Simone, Ph.D.

Tracy Hunt-White, Ph.D.

Longitudinal Studies Branch

National Center for Education Statistics

Institute of Education Sciences

U.S. Department of Education

Agenda

- Introduction to postsecondary sample surveys:
 - National Postsecondary Student Aid Study (NPSAS)
 - Baccalaureate and Beyond Study (B&B)
 - Beginning Postsecondary Students Longitudinal Study (BPS)
- Current use of Administrative Data
- Potential use of Administrative Data

Introduction to Postsecondary Sample Survey Data

Introduction to Postsecondary Data

- Generating a nationally representative descriptive portrait of students enrolled in postsecondary education
 - Who are these students?
 - Where are they enrolling?
 - How are they paying for college?
 - Student, institutional, and federal financing
 - What are they experiencing in the postsecondary “environment?”

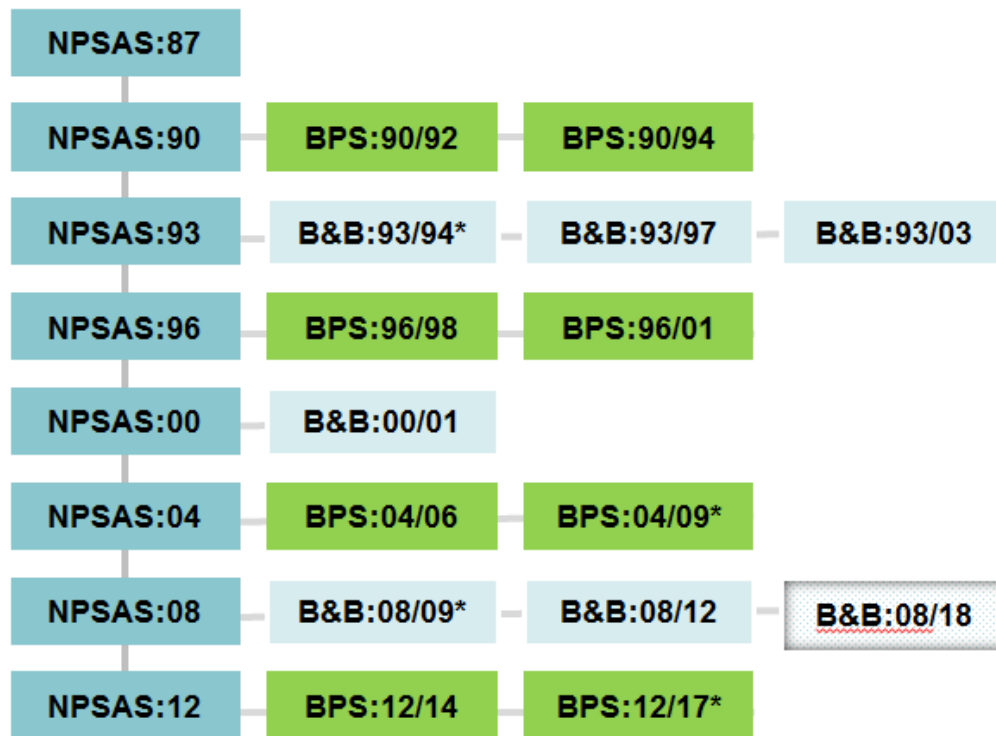
Introduction to Postsecondary Data

- Generating a nationally representative descriptive portrait of students enrolled in postsecondary education
 - What outcomes are they attaining?
 - Educational awards
 - Labor market outcomes
 - Further education and training

Introduction to Postsecondary Data

Study	Periodicity	Target Population	Main Purpose
National Postsecondary Student Aid Study (NPSAS)	Cross-sectional; Conducted every 3-4 years	All students enrolled in Title IV participating institutions in a given academic year	Examine student financing of their college education
Beginning Postsecondary Students Longitudinal Study (BPS)	Follows a cohort up to 6 years after entering college	First-time beginning college students	Examine persistence and degree attainment
Baccalaureate and Beyond Longitudinal Study (B&B)	Follows a cohort up to 10 years	Students graduating with a bachelor's degree	Examine labor market outcomes, graduate education, and life after college

Introduction to Postsecondary Data



- NPSAS serves as the base year for two longitudinal studies
 - Beginning Postsecondary Students Longitudinal Study (BPS)
 - Baccalaureate and Beyond Longitudinal Study (B&B)

* Postsecondary education transcripts (PETS) collected.

Overview

National Postsecondary Student Aid Study	Beginning Postsecondary Students Longitudinal Study	Baccalaureate and Beyond Longitudinal Study
Study of student financial aid and demographics	Study of persistence and attainment	Study of workforce outcomes, family formation, and graduate school

Overview

National Postsecondary Student Aid Study	Beginning Postsecondary Students Longitudinal Study	Baccalaureate and Beyond Longitudinal Study
Study of student financial aid and demographics	Study of persistence and attainment	Study of workforce outcomes, family formation, and graduate school

NPSAS Overview

- Legislatively mandated data collection to study the federal government's \$180B per year investment in financing students' postsecondary educations
- Heavily used by policymakers, analysts, and researchers to understand programs like the Pell Grant and the Stafford Loan

NPSAS Overview

Purpose of the Study

U. S. DEPARTMENT OF EDUCATION

- Legislatively mandated data collection to make sense of the federal government's \$100B per year investment in ~~financing~~ ^{and financing}

National Postsecondary Student Aid Study

- Heavily used by policymakers, analysts, and researchers to understand programs like the Pell Grant and the Stafford Loan

NPSAS Overview

- Purpose: To examine how students and their families pay for college
 - For NPSAS:12, it is a nationally representative sample of undergraduate and graduate students attending postsecondary institutions in the 2011-12 academic year
- Secondly: To examine the characteristics of students enrolled in all levels of postsecondary education

NPSAS Overview

- Two-Stage Sampling Design
 - Stage 1 – Institution sample
 - Stratify all Title IV institutions by institution type, select institutional sample with probabilities proportional to a measure of size
 - Stage 2- Student sample
 - Stratify enrollment lists that are gathered from the sampled institutions by student type; then select student sample

Overview

National Postsecondary Student Aid Study	Beginning Postsecondary Students Longitudinal Study	Baccalaureate and Beyond Longitudinal Study
Study of student financial aid and demographics	Study of persistence and attainment	Study of workforce outcomes, family formation, and graduate school

BPS Overview

- To generate two key indicators of student progress:
 - The proportion of students who complete a course of study at their first institution within 150% of normal time to degree (NTD); and
 - The proportion of students who complete *anywhere* within 150% NTD.
- To unpack the persistence phenomenon

BPS Overview

- Subsample NPSAS respondents who are identified as “first-time beginning” students
 - Cohort of first beginners, not based on age or transition from high school
 - Representative of postsecondary students, so higher proportion of “non-traditional” students
 - About 16,500 respondents

BPS Overview

Base Year NPSAS:04	First Follow-up BPS:04/06	Second Follow-up BPS:04/09	Postsecondary Education Transcript Study
Student demographic characteristics	Degrees or certificates earned	Degrees or certificates earned	
Pre-college characteristics	Social and academic integration	Early workforce outcomes (if applicable)	
Enrollment histories	Enrollment histories	Enrollment histories	
College financing (all sources)	College financing (federal only)	College financing (federal only)	

BPS Overview

- Institutional characteristics
- Detailed information on college financing for the first year
- Collegiate experiences
- As of BPS:04/06/09, academic transcripts

Overview

National Postsecondary Student Aid Study	Beginning Postsecondary Students Longitudinal Study	Baccalaureate and Beyond Longitudinal Study
Study of student financial aid and demographics	Study of persistence and attainment	Study of workforce outcomes, family formation, and graduate school

B&B Overview

- To better understand the early labor market and graduate school experiences of students graduating with a baccalaureate degree
- Secondarily, to better understand the early career experiences of teachers

B&B Overview

- Subsample NPSAS respondents who are identified as graduating seniors
 - Some practical overlap with NCES's elementary/secondary longitudinal studies, but:
 - Different population and longer follow-up
 - Some practical overlap with NSF's *Recent College Graduates* survey, but:
 - Longitudinal and includes non-STEM graduates
 - About 15,000 respondents

B&B Overview

Base Year NPSAS:08	Postsecondary Education Transcript Study	First Follow-up B&B:08/09	Second Follow-up B&B:08/12	Third Follow-up B&B:08/18
Student demographic characteristics		Degrees or certificates earned / graduate enrollment	Graduate enrollment	Graduate enrollment
Anticipated employment		Employment history, compensation & working conditions	Employment history, compensation & working conditions	Employment history, compensation & working conditions
Family formation		Family formation	Family formation	Family formation
College financing (All sources)		College financing & cumulative debt	College financing & cumulative debt	College financing & cumulative debt

B&B Overview

- An explicit focus on teachers
- Comparison of STEM graduates to other graduates
- Choices to take further education
- Academic transcripts

Administrative Data Sources

Data Sources

Source	NPSAS	BPS	B&B
Student Interview	X	X	X
Institutional Records			
Institution Enrollment Lists	X		
Institution Student Records	X		
Undergraduate Transcripts		X	X
Department of Education Administrative Records			
Central Processing System (FAFSA)	X	X	X
National Student Loan Data System (NSLDS)	X	X	X
Integrated Postsecondary Education Data System (IPEDS)	X	X	X
Common Core of Data/Private School Survey		X	X

Data Sources

Source	NPSAS	BPS	B&B
External Administrative Records			
National Student Clearinghouse	X	X	X
American College Testing (ACT)	X	X	
College Board	X	X	X

New Data Elements

- Initiatives that are underway
 - Veterans
 - Employment and Earnings
 - Tax Credits

Potential Sources of Data

- Potential sources of data for matching:
 - Social Security Administration (Pilot in progress)
 - Internal Revenue Service
 - New York Federal Reserve Bank Consumer Credit Panel/Equifax
 - U.S. Department of Health and Human Services National Directory of New Hires

Potential Sources of Data

- Potential sources of data for matching:
 - Assessment Data/Test Data from developers (Education Testing Service, Prometric, College Board, etc.)
 - Department of Labor Unemployment Insurance Records and/or wage records (WRIS & WRIS2)

Potential Sources of Data

- Potential sources of data for matching:
 - State data:
 - Individual State Unemployment Insurance Records and/or
 - Student Longitudinal Data Systems

Challenges

- Confidentiality laws have been narrowly construed and prohibit matching by statistical agencies and researchers
- Many agencies/entities do not have the staff to support requests for data matching
- Legal and executive staff may be needed to review such requests

Considerations

- Coverage
- Quality
- Data elements
- Timeliness
- Costs
- Benefit to data provider

Postsecondary Sample Data

The screenshot shows the DATALAB website interface. At the top, there is a navigation bar with links for Publications & Products, Surveys & Programs, Data & Tools, Fast Facts, School Search, News & Events, and About Us. The main content area is titled 'DATALAB Postsecondary & Pre-Elementary Education Data'. It is divided into several sections: 'PowerStats' (Create, save and share tables and regressions...), 'College & Career Tables Library' (Browse through 5,000+ tables...), 'QuickStats' (Quickly create simple tables...), and 'IPEDS ANALYTICS: Delta-Cast Project Database' (Download IPEDS institutional data...). A 'What's New' section on the right lists recent updates, including the 2011-12 National Postsecondary Student Aid Study (NPSAS-12) Student Financial Aid Estimates for 2011-12 tables and the 2009-2013 data available in PowerStats and QuickStats. There are also sections for 'Questions?' and 'Codebooks'. The footer contains the U.S. Department of Education logo, the National Center for Education Statistics logo, and the IES logo.

- QuickStats for simple table generation
 - nces.ed.gov/datalab
- PowerStats for table generation
 - nces.ed.gov/datalab
- Restricted-use micro-level data file
 - nces.ed.gov/statprog/instruct.asp

Postsecondary Sample Data

<http://nces.ed.gov/datalab>

The logo for QuickStats features the word "QuickStats" in a blue, sans-serif font. A small orange star is positioned above the letter "i" in "Quick". Below the text is a solid blue horizontal line.

QuickStats

Quick & easy to use to generate percentages, averages tables, and simple graphs using frequently used variables. (Limited to 1 column and 1 row variable.)

The logo for PowerStats features the word "PowerStats" in an orange, sans-serif font. Above the word are several thin, curved lines radiating upwards, resembling a power symbol or a signal. Below the text is a solid orange horizontal line.

PowerStats

Complex averages, percentages, medians, and centiles tables. Linear and logistic regressions. Choose from complete lists thousands of variables.

The logo for TrendStats features the word "TrendStats" in a green, sans-serif font. Below the word is a thick orange line that starts with a jagged, sawtooth pattern and then continues as a straight line ending in an arrowhead pointing to the right. Below this is a solid green horizontal line.

TrendStats

Averages, medians, and percentages tables over time. Choose from variables that are repeated in certain studies.

NewsFlash

<http://ies.ed.gov/newsflash>



INSTITUTE OF EDUCATION SCIENCES U.S. Department of Education

NewsFlash Staff Contact Site In

Centers	Publications & Products	Data Files and Tools	Featured Sites	Funding Opportunities	Events	What's New	A
---------	-------------------------	----------------------	----------------	-----------------------	--------	------------	---

News Flash

An e-mail-based alert service designed to inform you about all new content posted to the IES website including news from its four Centers and programs within Centers such as the Regional Educational Laboratory Program.

Simply enter your e-mail address to receive alerts in the areas of interest you select.

Note: IES, its Centers, and its programs will use the information

E-Mail:

Subscribe

Login

Select areas of interest by checking all appropriate boxes

Institute of Education Sciences (IES) [Check All](#) | [Uncheck All](#)

General IES News and Information [Check All](#) | [Uncheck All](#) (for IES)

National Center for Education Evaluation (NCEE) [Check All](#) | [Uncheck All](#) (for NCEE)

National Center for Education Research (NCER) [Check All](#) | [Uncheck All](#) (for NCER)

National Center for Education Statistics (NCES) [Check All](#) | [Uncheck All](#) (for NCES)

National Center for Special Ed Research (NCSER) [Check All](#) | [Uncheck All](#) (for NCSE)