



Let's Go beyond IPEDS: Review National Public Data Resources for Institutional Research

**Prepared for the ConnAIR Spring 2024 Meeting
11:30 am – Noon Session**

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**Storrs, CT
May 10, 2024**



- Education
 - Ph.D. in Economics
 - M.S. in Quantitative Economics
 - Master in Public Policy
 - Fields: Higher Education Economics, Labor Economics
 - Selected research projects:
 - Housing market impacts on college choices
 - Effectiveness of non-tenure-track professors
 - Student evaluation of teaching
- Research and Planning Analyst
 - Joined UConn's BPIR in 2017 as a GA
 - Data analysis:
 - National public data
 - Administrative data
 - Empirical model development (time-series forecasting, classification, causal evaluation, etc.)

Overview and Highlights



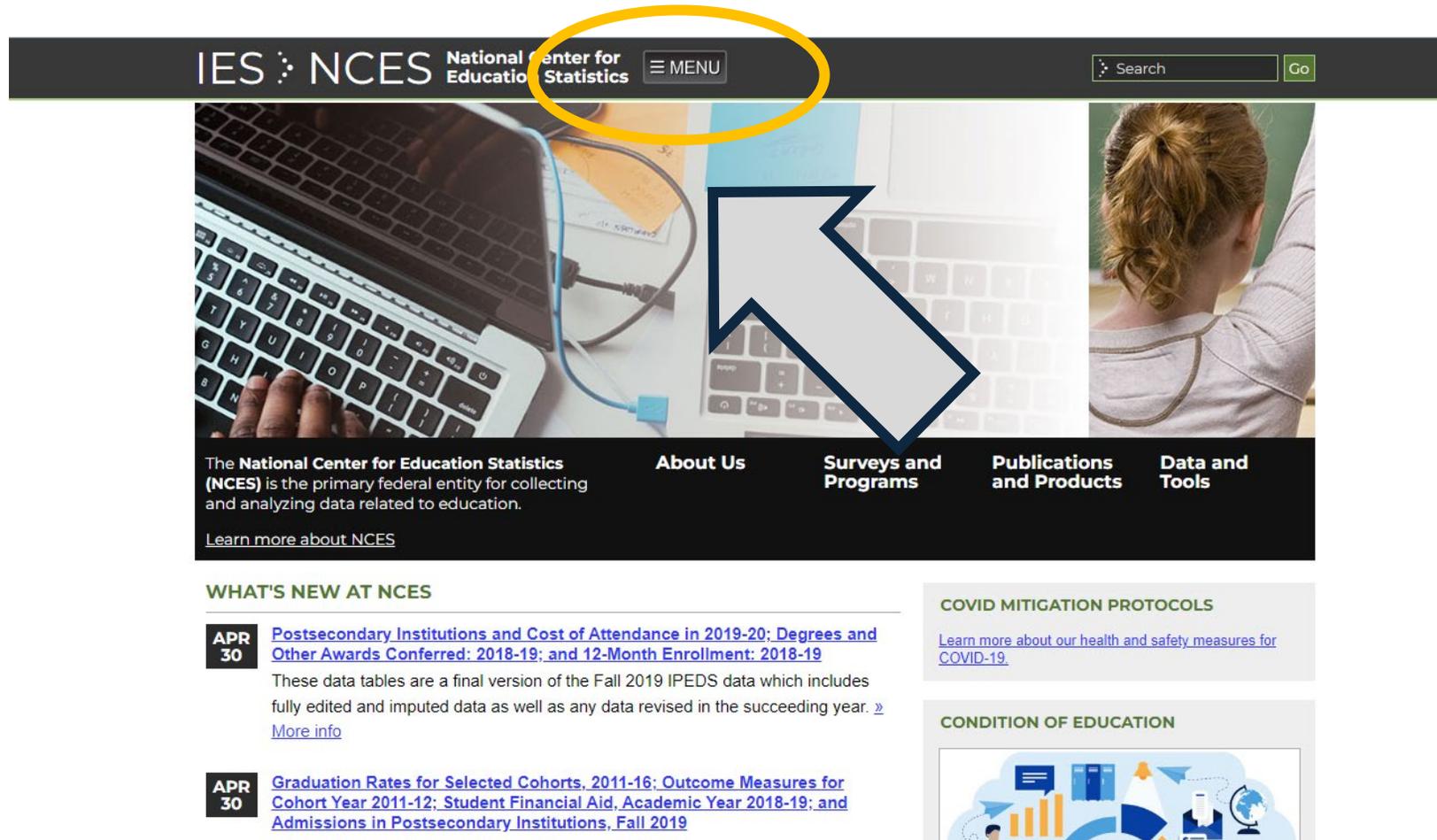
- Let's go beyond IPEDS: more NCES data for understanding students' situations in college
 - National longitudinal surveys
 - Beginning postsecondary students
 - Student aid studies
- Let's even go beyond NCES data – U.S. population and its labor market
 - Young adults who are likely to enroll in higher education institutions
 - College populations
 - College graduates

Overview and Highlights



- Let's go beyond IPEDS: more NCES data for understanding students' situations in college
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Besides IPEDS, What Else Is Available in NCES?



The screenshot shows the NCES website homepage. The header includes the logo 'IES | NCES National Center for Education Statistics' and a 'MENU' button, which is circled in yellow. A search bar with a 'Go' button is also present. Below the header is a large banner image featuring a laptop, a person's hands typing, and a person's back. A large blue arrow points from the banner towards the navigation menu. The navigation menu includes links for 'About Us', 'Surveys and Programs', 'Publications and Products', and 'Data and Tools'. Below the navigation menu is a section titled 'WHAT'S NEW AT NCES' with two news items dated 'APR 30'. The first item is 'Postsecondary Institutions and Cost of Attendance in 2019-20; Degrees and Other Awards Conferred: 2018-19; and 12-Month Enrollment: 2018-19'. The second item is 'Graduation Rates for Selected Cohorts, 2011-16; Outcome Measures for Cohort Year 2011-12; Student Financial Aid, Academic Year 2018-19; and Admissions in Postsecondary Institutions, Fall 2019'. To the right of the news items are two boxes: 'COVID MITIGATION PROTOCOLS' and 'CONDITION OF EDUCATION'.

IES | NCES National Center for Education Statistics MENU

Search Go

The National Center for Education Statistics (NCES) is the primary federal entity for collecting and analyzing data related to education.
[Learn more about NCES](#)

About Us Surveys and Programs Publications and Products Data and Tools

WHAT'S NEW AT NCES

APR 30 [Postsecondary Institutions and Cost of Attendance in 2019-20; Degrees and Other Awards Conferred: 2018-19; and 12-Month Enrollment: 2018-19](#)
These data tables are a final version of the Fall 2019 IPEDS data which includes fully edited and imputed data as well as any data revised in the succeeding year. [More info](#)

APR 30 [Graduation Rates for Selected Cohorts, 2011-16; Outcome Measures for Cohort Year 2011-12; Student Financial Aid, Academic Year 2018-19; and Admissions in Postsecondary Institutions, Fall 2019](#)

COVID MITIGATION PROTOCOLS
[Learn more about our health and safety measures for COVID-19.](#)

CONDITION OF EDUCATION

PowerStats Platform on NCES



The screenshot shows the top navigation bar of the NCES website. The header includes the IES and NCES logos, the text "National Center for Education Statistics", a "MENU" button, and a search bar with a "Go" button. Below the header is a main navigation menu with several categories. The "Data & Tools" category is circled in yellow, and the "Online Analysis" sub-item within it is also circled in yellow. The "Online Analysis" section lists several tools: ACS-ED Tables, Data Lab, Elementary Secondary Information System, International Data Explorer, IPEDS Data Center, and NAEP Data Explorer. To the right of the main menu is a sidebar with links for Contact, Tools, ED.gov, Newsflash, NCES Blog, and social media icons for X and Facebook. At the bottom of the page, there is a footer with a description of NCES and a link to "Learn more about NCES".

IES NCES National Center for Education Statistics MENU Search Go

Surveys & Programs
Data & Tools
Fast Facts
News & Events
Publications & Products
About Us

Downloads
Microdata/Raw Data
Online Analysis
School and College Search
Comparison Tools
Questionnaire Tools
Geographic Tools
Other Tools

Online Analysis
ACS-ED Tables
Data Lab
Elementary Secondary Information System
International Data Explorer
IPEDS Data Center
NAEP Data Explorer

Contact
Tools
ED.gov
Newsflash
NCES Blog
X
Facebook
Kids' ZONE

(NCES) is the primary federal entity for collecting and analyzing data related to education.
[Learn more about NCES](#)

Programs and Products Tools

* PowerStats logo is for reference only; we do not represent this organization.

PowerStats Platform on NCES

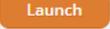
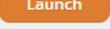
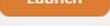
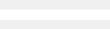
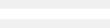
All Populations ▾

All Topics ▾

 Trends Available

 Search by Keyword

Choose a dataset below for information about the populations and topics covered. Then launch the dataset you would like to analyze in PowerStats. For studies with more than one data collection, you will need to select the collection you want to use. You can change datasets or data collections at any time.

	 Baccalaureate and Beyond (B&B)	B&B collection: <u>2016/2020</u> ▾	
	 Beginning Postsecondary Students (BPS)	BPS collection: <u>2012/2017</u> ▾	
	 Early Childhood Longitudinal Study: Birth Cohort (ECLS-B)		
	 Education Longitudinal Study (ELS)	ELS collection: <u>High School Seniors 2004</u> ▾	
	 High School and Beyond (HSB)		
	 High School Longitudinal Study (HSLs)		
	 National Education Longitudinal Study of 1988 (NELS:88)		
	 National Household Education Survey: Adult Education Survey (AE-NHES)		
	 National Household Education Survey: Adult Training and Education Survey (ATES)		
	 National Household Education Survey: Early Childhood Program Participation (ECPp)	ECPp collection: <u>2019</u> ▾	
	 National Household Education Survey: Parent and Family Involvement in Education (PFI)	PFI collection: <u>2019</u> ▾	
	 National Postsecondary Student Aid Study, Graduate (NPSAS:GR)	NPSAS:GR collection: <u>2020</u> ▾	
	 National Postsecondary Student Aid Study, Undergraduate (NPSAS:UG)	NPSAS:UG collection: <u>2020</u> ▾	
	 National Postsecondary Student Aid Study-Administrative Collection (NPSAS-AC)	NPSAS-AC collection: <u>2020</u> ▾	

PowerStats Platform on NCES

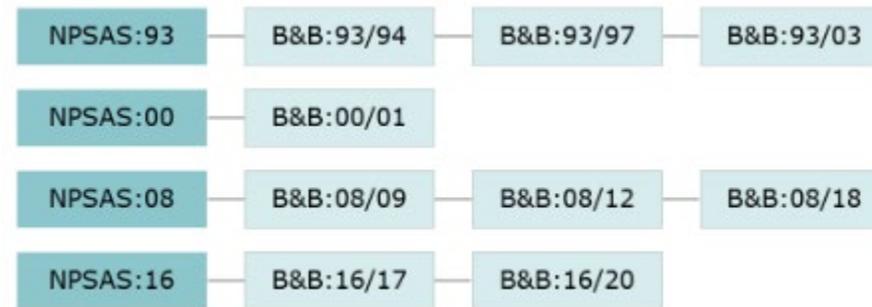
All Populations ▾ All Topics ▾ Trends Available

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☆	+ Baccalaureate and Beyond (B&B)	B&B collection: 2016/2020 ▾	Launch
☆	+ Beginning Postsecondary Students (BPS)	BPS collection: 2012/2017 ▾	Launch
☆	+ Early Childhood Longitudinal Study: Birth Cohort (ECLS-B)		Launch
☆	+ Education Longitudinal Study (ELS)	ELS collection: High School Seniors 2004 ▾	Launch
☆	+ High School and Beyond (HSB)		Launch
☆	+ High School Longitudinal Study (HSLs)		Launch
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☆	+ National Household Education Survey: Early Childhood Program Participation (ECPp)	ECPp collection: 2019 ▾	Launch
☆	+ National Household Education Survey: Parent and Family Involvement in Education (PFI)	PFI collection: 2019 ▾	Launch
☆	+ National Postsecondary Student Aid Study, Graduate (NPSAS:GR)	NPSAS:GR collection: 2020 ▾	Launch
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Baccalaureate and Beyond (B&B)

- **Nationally representative** longitudinal study of students who completed the requirements for a bachelor's degree.
- Follows graduating seniors **1, 4, and 10** years after completion.
- The National Postsecondary Student Aid Study (NPSAS) serves as the base year for each cohort.



- Four cohorts have been followed. Students in the most recent cohort completed their bachelor's degree in 2015–16 and were followed in 2017 and 2020. Data are now available from the 2020 follow up.

Baccalaureate and Beyond (B&B)

Key Data Elements:



Student demographic characteristics



Institutional characteristics



Enrollment histories



Detailed information on college financing



Collegiate experiences



Degrees earned



Employment experiences*



Family formation



Undergraduate transcripts (for 1993 and 2008 cohorts)

* Employment data has added focuses on graduates entering the teacher labor market.

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Why Population and Labor Market Data?

- Application Area:



Enrollment Projection

Academic Program Optimization



Salary & Employment Negotiation

Student Career Services



- Many consulting products rely on nothing but these public data resources.
- Pinpoint real demands from the national and regional labor market.

Yes! We Can Do It!



American Community Survey

What is American Community Survey (ACS)?

The American Community Survey (ACS) is an ongoing survey that provides vital information on a yearly basis about our nation and its people. Information from the survey generates data that help inform how trillions of dollars in federal funds are distributed each year.



Survey Questions:



Occupation



Jobs and Employment



Education Attainment



Veterans



Family Members



Housing

* U.S. Census Bureau logo is for reference only; we do not represent this organization.

Current Population Survey

What is Current Population Survey (CPS)?

The Current Population Survey (CPS) is one of the oldest, largest, and most well-recognized surveys in the United States. It is immensely important, providing information on many of the things that define us as individuals and as a society – our work, our earnings, and our education.



Survey Methodology:



50 states + **D.C.**



Voluntary

Survey Questions:



Occupation



**Jobs and
Employment**



**Education
Attainment**



**Education
Details**



**Family
Members**



Housing

* U.S. Census Bureau logo is for reference only; we do not represent this organization.

American Community Survey vs. Current Population Survey

ACS

Entire **Population**: **Social**, **Economic**, **Housing** characteristics

Areas with over **65,000** populations

1,924,527 addresses in 2005

Household population and military

Continuously throughout the year*

CPS

Selected **Subpopulation** and Focus on **Timely** estimations for **Income**, **Health**, **Poverty**...

Nation, regions, and states for Selected Characteristics.

99,000 households in 2005

The universe excludes other military in households and in group quarters (barracks), and people living in institutions.

Monthly interviews conducted from **February** to **April** ask about income in the previous calendar year. The survey's 12-month estimates are centered on July 1.

* The reference period for select questions (like income and the number of weeks worked) is the 12-month period prior to the response month

Two ways to download the ACS and the CPS data – Census Bureau



Measuring America's People, Places, and Economy

We Believe in the Power of Quality Data to Impact Public Life

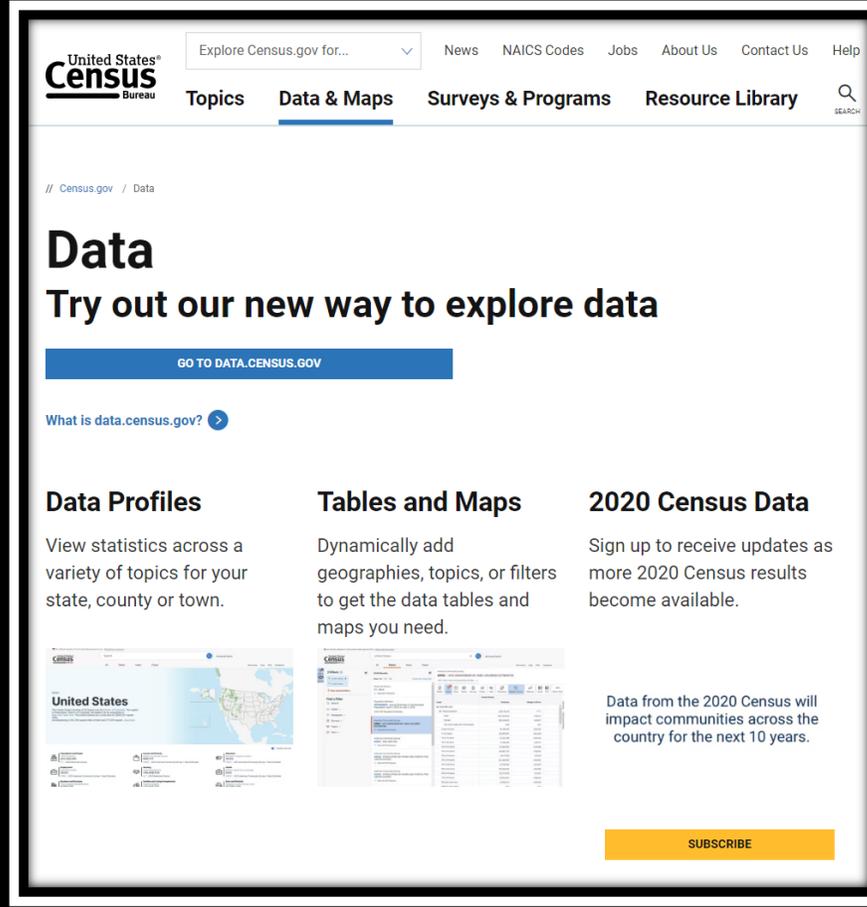
Quick Links

- [Data Profiles](#)
- [2020 Census Results](#)
- [Verify a Survey](#)
- [Census Blogs](#)
- [Census Careers](#)
- [2022 Economic Census](#)
- [International Database \(IDB\)](#)
- [Find NAICS Codes](#)

Census Live

April 30, 2024

2030 Census Planning Webinar: Join our webinar about 2030 Census planning on Tuesday, April 30 at 2 p.m. EDT.



United States Census Bureau

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Data

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What is data.census.gov? >

Data Profiles

View statistics across a variety of topics for your state, county or town.

Tables and Maps

Dynamically add geographies, topics, or filters to get the data tables and maps you need.

2020 Census Data

Sign up to receive updates as more 2020 Census results become available.

Data from the 2020 Census will impact communities across the country for the next 10 years.

[SUBSCRIBE](#)

Two ways to download the ACS and the CPS data - IPUMS

IPUMS

ABOUT | PROJECTS | SUPPORT | IMPACT | BLOG

IPUMS provides census and survey data from around the world integrated across time and space. IPUMS integration and documentation makes it easy to study change, conduct comparative research, merge information across data types, and analyze individuals within family and community contexts. Data and services available free of charge.

IPUMS USA

U.S. Census and American Community Survey microdata from 1850 to the present. [Learn More](#)

VISIT SITE

IPUMS CPS

Current Population Survey microdata including basic monthly surveys and supplements from 1962 to the present. [Learn More](#)

VISIT SITE

IPUMS INTERNATIONAL

World's largest collection of census microdata covering over 100 countries, contemporary and historical. [Learn More](#)

VISIT SITE

IPUMS RESEARCH AWARD WINNERS

The winners of the 2023 IPUMS Research Awards have been announced

LEARN MORE

IPUMS GLOBAL HEALTH

Health survey data from around the world, including harmonized data collections for DHS, MICS, and PMA. [Learn More](#)

VISIT SITE

IPUMS NHGIS

Tabular U.S. Census data and GIS boundary files from 1790 to the present. [Learn More](#)

VISIT SITE

IPUMS IHGIS

Tabular and GIS data from population, housing, and agricultural censuses around the world. [Learn More](#)

VISIT SITE

DATA-INTENSIVE RESEARCH CONFERENCE

July 31-August 1
Minneapolis, MN + Virtual

Conference program is now available and registration is open

LEARN MORE

IPUMS USA

HOME | SELECT DATA | MY DATA | SUPPORT

DATA CART
YOUR DATA EXTRACT
0 VARIABLES
0 SAMPLES

SELECT SAMPLES | SELECT HARMONIZED VARIABLES | HARMONIZED VARIABLES | DISPLAY OPTIONS

HOUSEHOLD | PERSON | A-Z | SEARCH

AN "X" INDICATES THE VARIABLE IS AVAILABLE IN THAT DATASET.

ECONOMIC CHARACTERISTIC VARIABLES -- HOUSEHOLD [TOP]

Add to cart	Variable	Variable Label	Type	Codes	2022	2021	2016	2011	2006	2000	1990	1980	1970	1960	1950	1940	1930	1920	1910	1900	1880	1870
					acs	acs	acs	acs	acs	lpcst	lpcst	lpcst	lpcst	met2	met1	lpcst						
+	FARM	Farm status	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	FARMSCHD	Farm schedule	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	OWNERSHP	Ownership of dwelling (tenure)	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	LANDOWN	Own or rent the land, Puerto Rico	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	LANDRNPR	Amount paid for land rent, Puerto Rico	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	MORTGAGE	Mortgage status	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	MORTGAG2	Second mortgage status	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	COMMUSE	Commercial use	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	LANDRENT	Rent includes land used for farming	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	FARMPROD	Sales of farm products	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	GROWNPR	Produce fruits, vegetables, or livestock for home consumption, Puerto Rico	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	ACREPROP	Acreage of property	H	codes	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X
+	ACREHOUS	House acreage	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	ACRENONE	Acreage of nonfarm house	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	MORTOTAL	Total monthly mortgage payment	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
+	MORTAMT1	First mortgage monthly payment	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	MORTAMT2	Second mortgage monthly payment	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	TAXINCL	Mortgage payment includes property taxes	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	INSINCL	Mortgage payment includes property insurance	H	codes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
+	PROPTXIN	Annual property tax and insurance cost	H	codes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IPUMS enables researchers to access the data with maximum flexibility and more....

- Time frames and timely publications of CPS
- **Specify focusing population groups**
- Multiple-year samples for time-series analysis

Bureau of Labor Statistics Data Tool

The Bureau of Labor Statistics (BLS) of the U.S. Department of Labor is the principal federal agency responsible for measuring labor market activity, working conditions, and price changes in the economy. Its mission is to collect, analyze, and disseminate essential economic information to support public and private decision making.....

BLS 2019b



Measure the US Labor Market in Various Dimensions



List for All Survey Hosted by BLS



Occupational Employment and Wage Statistics

- *The OEWS survey draws its sample from state unemployment insurance (UI) files.*
- *The OEWS survey sample is stratified by metropolitan and nonmetropolitan area, industry, and size.*
- *To provide the most occupational coverage, larger employers are more likely to be selected than smaller employers.*

Resources: https://www.bls.gov/oes/current/oes_tec.htm

* The Bureau of Labor Statistics logo is for reference only; we do not represent this organization.

Bureau of Labor Statistics Data Tool - Continued

Applications in IR Professions:

- The Occupational Coding System
 - Standard Occupation Classification (SOC)
 - “Federal statistical standard” – just like CIP
 - All workers are classified into one of 867 detailed occupations
 - **CIP SOC Crosswalk** – developed by NCES
- The Industry Coding System
 - North American Industry Classification System (NAICS)
- Information regarding occupation profiles
 - Job description
 - Typical degree requirement
 - Median salary

Tables Created by BLS

May 2023

- [Occupation Profiles](#)
- National ([HTML](#)) ([XLS](#))
- State ([HTML](#)) ([XLS](#))
- Metropolitan and nonmetropolitan area ([HTML](#)) ([XLS](#))
- National industry-specific and by ownership ([HTML](#)) ([XLS](#))
- All data ([XLS](#)) ([TXT](#))
- [Research estimates by state and industry](#)
- [Additional OEWS data sets](#)
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Thanks for Joining

Q & A

*More questions:
yizhi.zhu@uconn.edu*