

# Data Access Tools

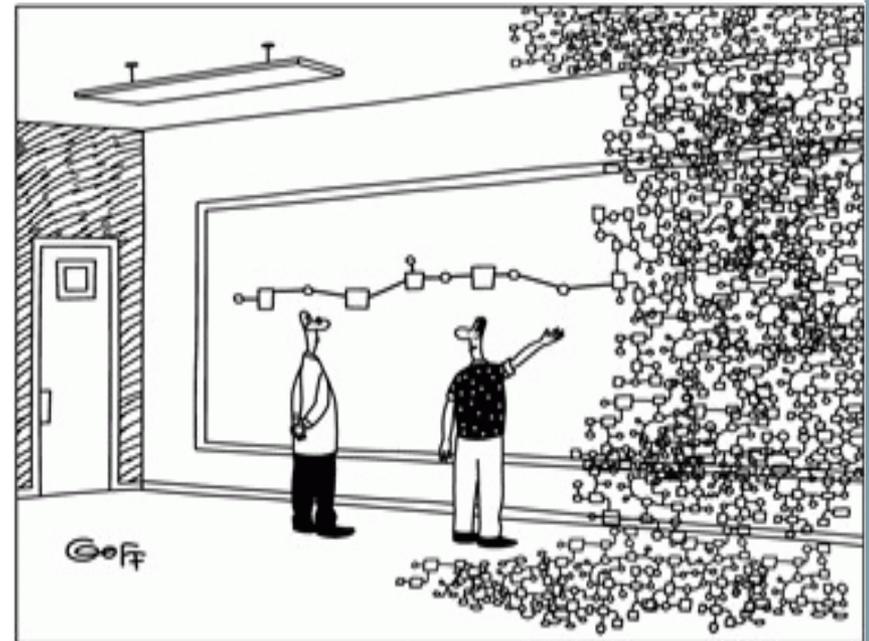
*How to gather the data you need.*

*Pam Schenker FL & Suzan Reagan NM*



# Agenda

- Census Bureau
  - American FactFinder
  - Data Ferrett
  - LEHD (QWI & On-the-Map)
  - Current Population Survey (CPS) Table Creator
  - CEDSCI
- Other Websites
  - Federal Programs
  - State & Local Programs
  - Census Training Webinars



“This is where it starts getting a little complicated.”

# Start at [www.census.gov](http://www.census.gov)

The screenshot shows the U.S. Census Bureau website homepage. At the top, there is a navigation bar with the following links: U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs. Below this is a search bar and a main navigation menu with categories: Topics (Population, Economy), Geography (Maps, Products), Library (Infographics, Publications), Data (Tools, Developers), and Surveys/Programs (Respond, Survey Data). The main content area features a large banner for "Demographic & Economic Profiles of Electorates by State" with a sub-headline: "The U.S. Census Bureau presents a variety of statistics that give an overall profile of the state's voting-age population and industries." Below the banner are three main sections: "Population Clock" showing U.S. Population (323,049,462) and World Population (7,307,337,475); "QUICKFACTS" with a "Did You Know" fact: "28.0% of persons in Harris County, Texas are under 18 years"; and "U.S. Census Bureau Economic Indicators" showing New Residential Construction (1,099,000 housing starts, -3.8% change) and Business Inventories (\$1.813.1 B, 0.1% change). Below these are "Latest News" and "Stat of the Day" sections. The "Latest News" section features a photo of a woman and the headline "Characteristics of Businesses and Characteristics of Business Owners" dated February 23, 2016. The "Stat of the Day" section is titled "Franchise Restaurants".

Scroll to the bottom and click *American FactFinder* under **Find Data**

## Basic Steps to use American FactFinder

1. Start at: <http://factfinder2.census.gov>
2. Advanced Search
3. “Geographies” make selection
4. “Topics” - select a data set
5. Select data tables
6. View selected
7. Print or download



# Census Population Estimates Program

**Warning:** Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

- ACS data are controlled to the population estimates program data.
- Population estimates are revised annually back to the most recent decennial census (Intercensal Estimates).
- After a decennial census, the population estimates are revised for the entire decade based on the new decennial census results.

<http://www.census.gov/popest/estimates.html>



# DataFerrett

- DataFerrett is a data analysis and extraction tool to customize federal, state, and local data to suit your requirements. Using DataFerrett, you can develop an unlimited array of customized spreadsheets that are as versatile and complex as your usage demands then turn those spreadsheets into graphs and maps without any additional software.
- Datasets include, but are not limited to the following:
  - American Community Survey
  - Current Population Survey
  - Small Area Health Insurance Estimates
  - Small Area Income and Poverty Estimates
  - Consumer Expenditure Survey
  - County Business Patterns
  - American Housing Survey
- <http://dataferrett.census.gov/>

# Longitudinal Employer-Household Dynamics (LEHD)

- LED Partnership between states (LMI shops) and the Census Bureau to share Unemployment Insurance earnings data and the Quarterly Census of Employment and Wages (QCEW) data with the Census Bureau. The LEHD program combines these administrative data, additional administrative data and data from censuses and surveys. From these data, the program creates statistics on employment, earnings, and job flows at detailed levels of geography and industry and for different demographic groups. In addition, the LEHD program uses these data to create partially synthetic data on workers' residential patterns.

## **Applications**

- [QWI Explorer](#)
- [OnTheMap](#)
- [OnTheMap for Emergency Management](#)
- [LED Extraction Tool](#)

## **Useful Links**

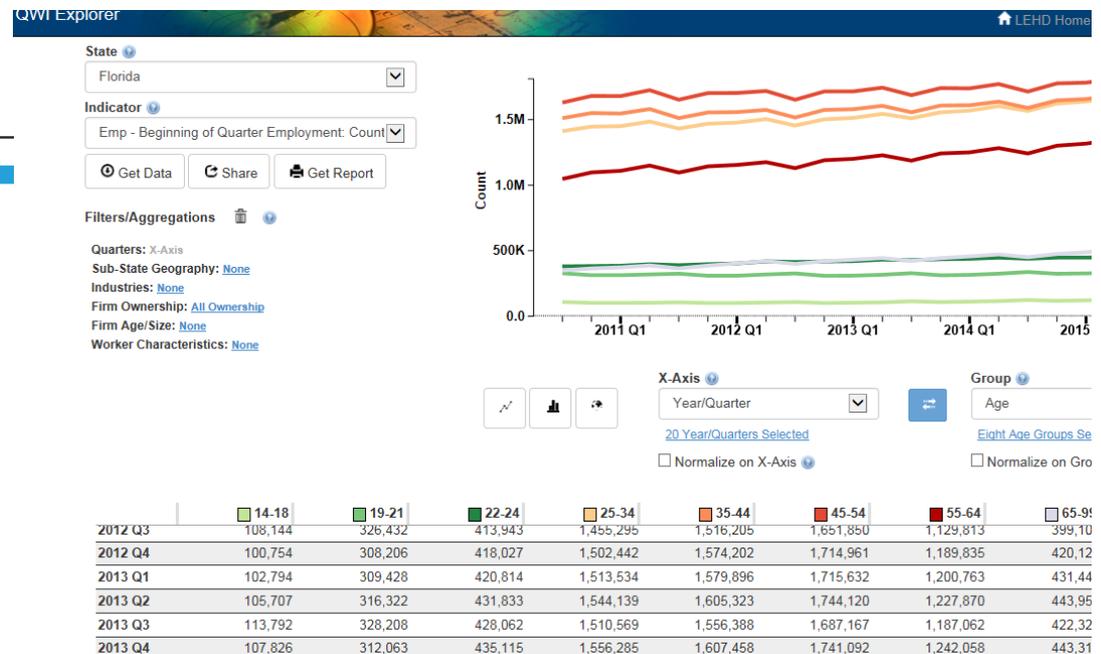
- [Center for Economic Studies](#)
- [QWI Data](#)
- [LODES Data](#)
- [LED Workshop](#)

# LEHD – Quarterly Workforce Indicators (QWI)

- QWI Explorer is a web-based analysis tool that enables comprehensive access to the full depth and breadth of the Quarterly Workforce Indicators (QWI) dataset. Through charts, maps and interactive tables, users can compare, rank and aggregate QWIs across time, geography, and/or firm and worker characteristics on the fly.
- QWI Explorer makes the entire QWI dataset available for visualization in line charts, bar charts, and thematic maps. The application's intuitive dashboard allows for the construction of pivot tables to compare and rank labor-force indicators such as employment, job creation and destruction, wages, and hires across a wide range of firm and worker characteristics. Potential analyses include a longitudinal look at wages by worker sex and age across counties, ranking job creation rates of young firms across NAICS industry groups, and comparing hiring levels by worker race and education levels across a selection of Metropolitan Areas.

• <http://qwiexplorer.ces.census.gov/>

Employment	
Emp - Beginning of Quarter Employment: Counts	
EmpEnd - End of Quarter Employment: Counts	
EmpS - Full-Quarter Employment (Stable): Counts	
EmpSpv - Full-Quarter Employment in the Previous Quarter: Counts	
EmpTotal - Employment - Reference Quarter: Counts	
Employment Change, Individual	
HirA - Hires All: Counts (Accessions)	
HirN - Hires New: Counts	
HirR - Hires Recalls: Counts	
Sep - Separations: Counts	
HirAEnd - End-of-Quarter Hires	
HirAEndR - End-of-Quarter Hiring Rate	
SepBeg - Beginning-of-Quarter Separations	
SepBegR - Beginning-of-Quarter Separation Rate	
HirAS - Hires All (Stable): Counts (Flow into Full-Quarter Employment)	
HirNS - Hires New (Stable): Counts (New Hires to Full-Quarter Status)	
SepS - Separations (Stable): Counts (Flow out of Full-Quarter Employment)	
SepSnx - Separations (Stable), Next Quarter: Counts (Flow out of Full-Quarter Employment)	
TurnOvrS - Turnover (Stable)	
Employment Change, Firm	
FrmJbGn - Firm Job Gains: Counts (Job Creation)	
FrmJbLs - Firm Job Loss: Counts (Job Destruction)	
FrmJbC - Firm Job Change: Net Change	
HirAEndRepl - Replacement Hires: Counts	
HirAEndReplR - Replacement Hiring Rate	
FrmJbGnS - Firm Job Gains (Stable): Counts	
FrmJbLsS - Firm Job Loss (Stable): Counts	
FrmJbCS - Job Change (Stable): Net Change	

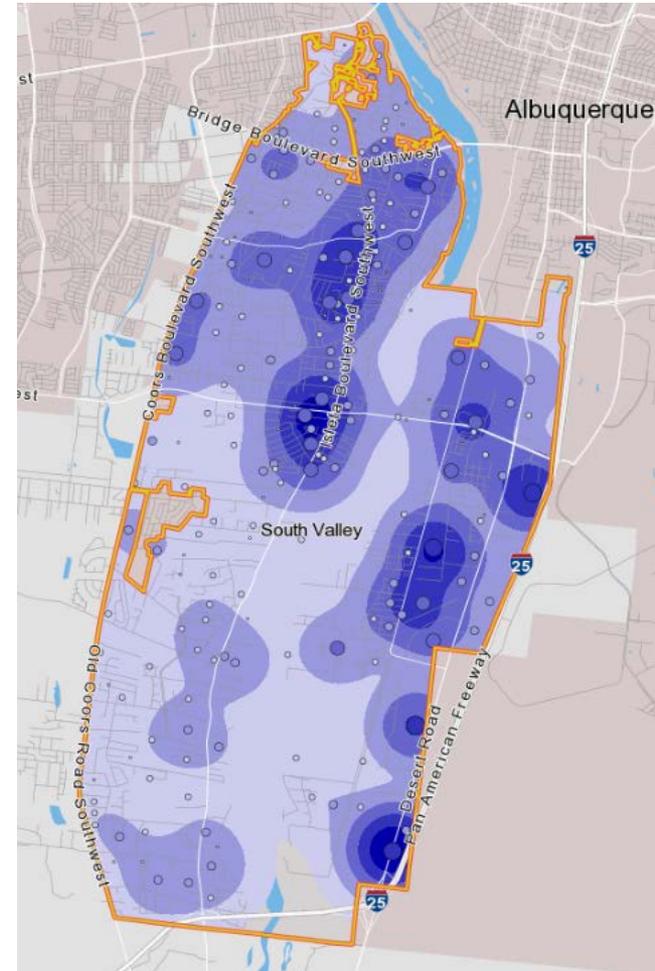


# LEHD – OnTheMap

OnTheMap

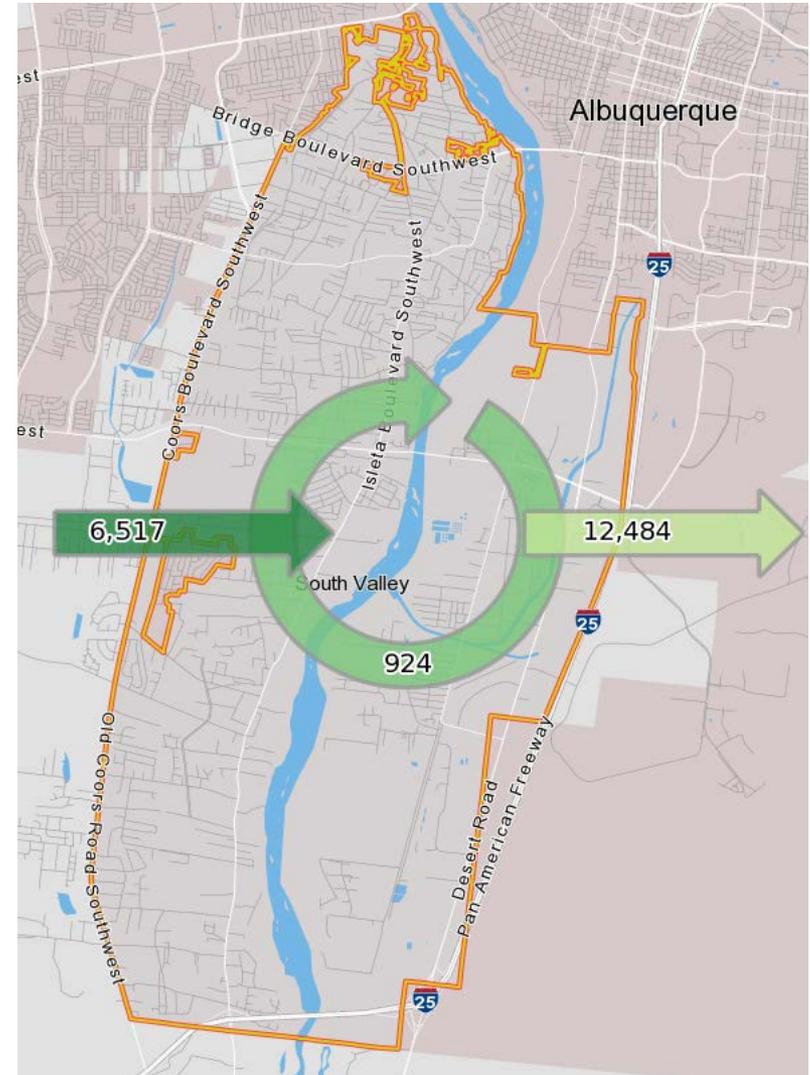
<http://onthemap.ces.census.gov/>

is an online mapping and reporting application showing where workers are employed and where they live with companion reports on worker characteristics and optional filtering by age, earnings, or industry groups. It provides an easy-to-use interface for creating, viewing, printing and downloading workforce related maps, profiles, and underlying data.



# Additional LEHD notes

- Based on 2002–2013 [LEHD Origin Destination Employment Statistics](#) (LODES), OnTheMap is a unique resource for mapping the travel patterns of workers and identifying small-area workforce characteristics.
- A total of 50 state partners are currently featured, showing data for 12 years (2002 through 2013). The latest version of OnTheMap was released in August 2015.



# Current Population Survey

- The **Current Population Survey (CPS)** is a monthly survey of households conducted by the Bureau of Census for the Bureau of Labor Statistics. It provides a comprehensive body of data on the [labor force](#), [employment](#), [unemployment](#), persons [not in the labor force](#), [hours of work](#), [earnings](#), and other [demographic](#) and [labor force characteristics](#).
- BLS has annual reports for States and Metro Areas
  - <http://www.bls.gov/cps/>

## Featured CPS Tables

### Most-Requested CPS Tables

- Employment status of the population, 1940s to date ([HTML](#)) ([PDF](#))
- Employment status by sex, 1970s to date ([HTML](#)) ([PDF](#))
- Employment status by detailed age ([HTML](#)) ([PDF](#))
- Employment status by educational attainment ([HTML](#)) ([PDF](#))
- Employment by detailed occupation, sex, race, and Hispanic ethnicity ([HTML](#)) ([PDF](#))
- Median weekly earnings by detailed occupation and sex ([HTML](#)) ([PDF](#))

[Annual tables](#) [Monthly tables](#) [Quarterly tables](#)

[All CPS Data Tables >>](#)

# Current Population Survey

- Current Population Survey (CPS) is collected by the Census Bureau for the US Department of Labor.
- Primary source of monthly labor force statistics. It is also used to collect data for a variety of other studies that keep the nation informed of the economic and social well-being of its people.
  - This is done by adding a set of supplemental questions to the monthly basic CPS questions. Supplemental inquiries vary month to month and cover a wide variety of topics such as child support, volunteerism, health insurance coverage, and school enrollment. Supplements are usually conducted annually or biannually, but the frequency and recurrence of a supplement depend completely on what best meets the needs of the supplement's sponsor.
- Subject Definitions can be found at:  
<http://www.census.gov/programs-surveys/cps/technical-documentation/subject-definitions.html>

# Current Population Survey

- CPS Table Creator

<http://www.census.gov/cps/data/cpstablecreator.html>

**CPS Table Creator**

Table Criteria:

**Data Options**

Get Count of: [Help](#)  
Persons - All

Number of Years: 1 Latest Year: 2015

One Table Showing Multi-Year Averages  
 Separate Table For Each Year

**Define Your Table**

**Statistics**

**Customized Formatting**

[« Hide Panel](#)

**Filters/Subsets:** [Help](#)  
All States All Sexes All Races All Origins All Nationalities Full/Part Time All Worker Status

The CPS Table Creator gives you the ability to create customized tables from the Current Population Survey's Annual Social and Economic Supplement.

- Complete the form to the left and press the "Get Table" button at the top or bottom of the form to create your table.
- To create a table, you must make one or more selections in the **Define Your Table** section. For all other sections, you may use the default selections or enter alternate selections to customize the table to meet your needs.
- For help in getting started, see the [detailed examples](#) of completing the form to create a table.

**Disclaimer:**  
*While tabulations may be conceptually the same as published estimates, in many cases they will not exactly match published estimates because the Table Creator uses the CPS public use file. The CPS public use file lacks some of the detailed income information, topcodes several categories of income, and suppresses some geographic identifiers in order to protect survey confidentiality.*

\* This tool is best viewed with normal font settings and in the Firefox web browser.

United States  
**Census**  
Bureau

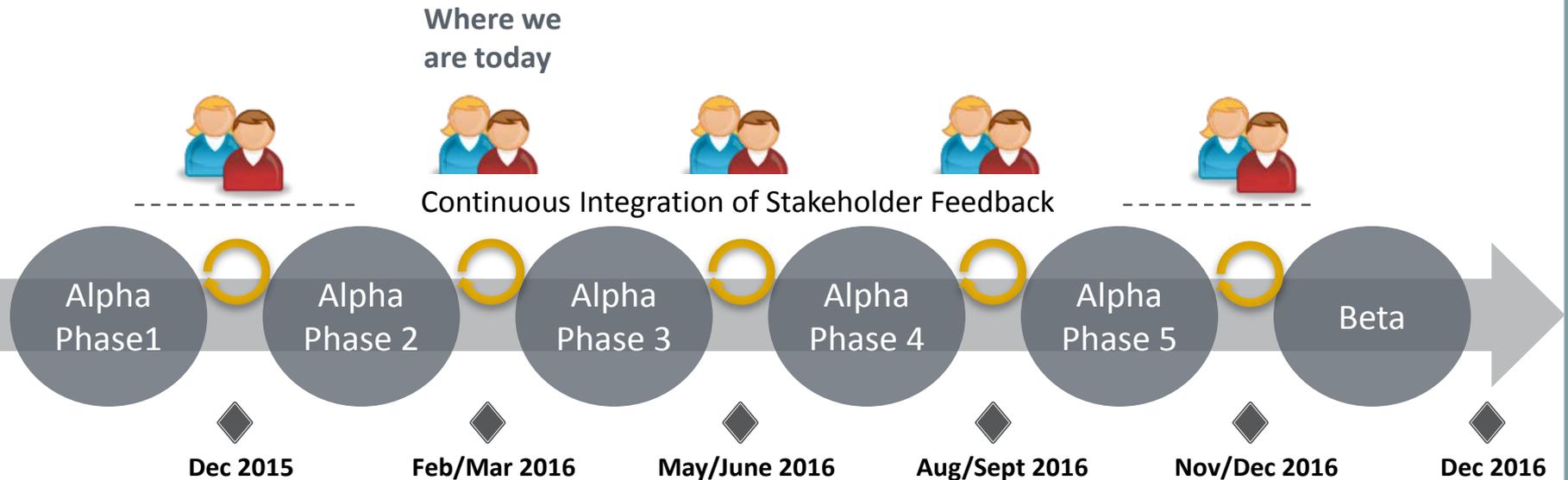
- Count of:  
Persons, Persons in Poverty, Persons by Family Type, Adult Civilian Persons, Adult Civilian Workers, Households
- Define your table:  
4 row and 4 column variables
- Statistics:  
Unweighted, Mean, Median, Minimum value, Maximum value
- Customized formatting:  
Age Ranges, Race, Income-to-Poverty Ratios, Units

# CEDSCI

- CEDSCI = Census Bureau's **Center for Enterprise Dissemination Services and Consumer Innovation**
- CEDSCI is looking to **centralize and standardize** the data, metadata, and software needed to build dissemination tools and **provide easy access** to public use content to improve the users' experience.
- Alpha Phase 2 is open for SDC leads to test and give feedback to the Census Bureau. Stakeholder Testing – now to May 31<sup>st</sup>
  - Webinar held on March 23, 2016

# CEDSCI's Iterative Approach

CEDSCI is being developed in an iterative process with stakeholder feedback driving continuous improvements along the way



# CEDSCI Enhancement Highlights

## Stakeholder Feedback



Ability to view or download tables without having to preview

Create an advanced search path with options like dataset and program since most people have no idea what these mean in terms of what they are looking for

Allow users to select geographies based on FIPS codes – to service experienced users

Ability to filter within the more geographies box by state and county

Improve the display of the table results with more prominent shading and provide users with the option to sort, filter, and page the list of table results

Option to select “All Counties”, “All States”, etc.

Include a keyword search that allows users to type in what they are searching for in addition to the Data Explore facets

Enhancements to allow users to manipulate data within a table: create custom tables, perform percentage calculations, or view more than one table at a time

Make Your Selection Box visible when scrolling down the page

# CEDSCI Alpha

## Current Category Selections ....

- Age
- Ancestry
- Computer and Internet Use
- Disability
- Foodstamps and SNAP
- Group Quarters
- Health Insurance Coverage
- Hispanic or Latino Origin
- Household Type and Relationship
- Housing Costs
- Journey to Work
- Labor Force Status
- Language Spoken at Home
- Living Quarters
- Migration
- Nativity and Foreign Born Population
- Population Total
- Poverty
- Race
- Rooms
- Sex
- Social Security Income
- Tenure
- Units in Structure
- Utilities
- Vacancy Status
- Value of Property
- Vehicles Available
- Veteran Status
- Year Structure Built

## Explore The Data

Clear Selection

**YOUR SELECTIONS**

^  
v

**TOPICS**

Enter a topic name

Category	Popular	Favorites
Acreage		
Age		
Agricultural Sales		
Ancestry		
Business On Property		
Computer And Internet Use		
Condominium Status And Fee		
Disability		
Education		
Foodstamps And Snap		
Group Quarters		

[Show More Options](#)

**LOCATIONS**

Enter a state, county or city

Search by state, county, city, and more geographies.

**MORE GEOGRAPHIES:**

- United States
- +** Region
- +** Division
- +** States
- +** County
- +** Economic Place
- +** County Subdivision
- +** City or Place
- +** Place/County Part
- +** Census Tract
- +** Alaska Native Regional Corporation
- +** American Indian Area/Alaska Native Area/Hawaiian Home Land
- +** Metropolitan Statistical Area/Micropolitan Statistical Area
- +** Combined Statistical area
- +** New England City and Town Area
- +** Urban Area
- +** Congressional District
- +** School District (Elementary)
- +** School District (Secondary)
- +** School District (Unified)

**NAICS**

Enter an industry name

Home

- 11 - Agriculture, forestry, fishing and ... >
- 21 - Mining, quarrying, and oil and gas ... >
- 22 - Utilities >
- 23 - Construction >
- 42 - Wholesale trade >
- 51 - Information >
- 52 - Finance and insurance >
- 53 - Real estate and rental and leasing >

**YEARS**

v +

**DATASETS**

v +

**PROGRAMS**

v +

[Get Data](#)

# CEDSCI Alpha Phase 1 & 2 Data

- ACS (Detailed Tables)
  - 1-Year (2012, 2013, 2014)
  - 3-Year (2012, 2013)
  - 5-Year (2012, 2013, 2014)
- ACS 1 Yr 2012-2014 Profile Tables
- ACS 3 Yr 2012-2013 Profile Tables
- ACS 5 Yr 2012-2014 Profile Tables
- Econ Census – EWKS (2012)
- County Business Patterns – CBP (2012, 2013)
- Non Employer Statistics (2012, 2013)
- SF1 2010 [Need to address additional summary levels]

# CEDSCI -- What's coming next

## **Features currently targeted for Phase 3:**

- Location Groupings (All States, All Counties, etc.)
- Thematic Map
- Sharing
- Additional Table Features
  - Sorting
  - Filtering
  - Download in .xls format
- Datasets
  - Pop Estimates 2014
  - SAHIE 2012-2013
  - SAIPE 2012-2013
  - SBO 2012

# The Census Bureau is ...

## More than just the Decennial Census

### **Some Census Products - Programs**

- Decennial Census
- American Community Survey
- Population Estimates
- Small Area Income and Poverty Estimates
- Small Area Health Insurance Estimates
- Economic Census
- Survey of Business Owners
- Nonemployer Statistics
- Economic Indicators
  - ( Several surveys, construction, manufacturing etc.)
- Census of Governments
- Survey of Income and Program participation
- Annual Survey of Schools System Finances
- Current Population Survey
- Housing – New Construction; Homeownership; Vacancies

# Federal Programs

- ✓ US Department of Commerce - Economics and Statistics Administration (ESA)  
<http://www.esa.doc.gov/about-economic-indicators>
- ✓ US Census: More than just Decennial - Economic Census+, Housing, Population & Demographics - [www.census.gov](http://www.census.gov)
- ✓ Bureau of Economic Analysis (BEA): Employment & Income- [www.bea.gov](http://www.bea.gov)
- ✓ US Department of Labor (DOL)- [www.dol.gov](http://www.dol.gov)
  - ✓ Bureau of Labor Statistics (BLS): Labor Market Information – [www.bls.gov](http://www.bls.gov)
  - ✓ Employment and Training Administration (ETA): UI and Jobs- [www.doleta.gov](http://www.doleta.gov)

*Federal programs data is generally standardized and comparable across states. However, it is important to understand limitations such as confidentiality.*

# Other Federal Data sites

- ✓ Federal Reserve: Banking system - FRED <http://research.stlouisfed.org/fred2/>
- ✓ Internal Revenue Service (IRS): Tax statistics – <http://www.irs.gov/uac/Tax-Stats-2>
- ✓ US Dept. of Health & Human Services (HHS): Healthcare data - [www.healthdata.gov](http://www.healthdata.gov)
- ✓ U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics - Education data - [nces.ed.gov/](http://nces.ed.gov/)
- ✓ US Government open source data program [www.data.gov/](http://www.data.gov/)

# Bureau of Labor Statistics Data

[www.bls.gov/](http://www.bls.gov/)

## Add program Acronym to go directly to program

- CES – Current Employment Statistics: Monthly Industry
- QCEW – Quarterly Census of Employment and Wages: Quarterly & Annual Industry
- LAU – Local Area Unemployment Statistics: Employment & Unemployment
- OES – Occupational Employment Statistics: Estimates and Projections
- CPI – Consumer Price Index: Monthly prices paid by consumers – Inflation measure



The screenshot shows a web browser window displaying the Bureau of Labor Statistics website. The browser's address bar shows 'www.bls.gov'. The website header features the 'UNITED STATES DEPARTMENT OF LABOR' logo and the 'BUREAU OF LABOR STATISTICS' logo. Navigation links include 'A to Z Index', 'FAQs', 'About BLS', 'Contact Us', and 'Subscribe to E-mail Updates'. A search bar is visible with the text 'Search BLS.gov'. A dark red navigation bar contains the following menu items: 'Home', 'Subjects', 'Data Tools', 'Publications', 'Economic Releases', 'Students', and 'Beta'.

## Other Data:

Pay & Benefits, Spending & Time Use, Productivity, Workplace Injuries, Import/Export Price Index

# Bureau of Economic Analysis Data

[www.bea.gov/](http://www.bea.gov/)

## Subjects:

Gross Domestic Product, Personal Income, Consumer Spending, Corporate Profits



The image shows a screenshot of a web browser displaying the Bureau of Economic Analysis (BEA) website. The browser's address bar shows the URL [www.bea.gov](http://www.bea.gov). The website header includes the U.S. Department of Commerce logo and the text "Bureau of Economic Analysis". Below the header, there is a navigation menu with tabs for "Home", "National", "International", "Regional", "Industry", and "Interactive Data". To the right of the navigation menu are links for "Contact Us", "FAQs", and "About BEA". The main content area features a horizontal row of six images: a factory, a stock market ticker, a woman and child, a large cargo ship, a person in a lab coat, and a construction site.

# IPUMS

<https://www.ipums.org/>

MINNESOTA POPULATION CENTER, UNIVERSITY OF MINNESOTA

## IPUMS USA

Home Select Data FAQ Help Login Data Cart

▼ DATA

Browse and Select Data  
Download or Revise Extracts  
Analyze Data Online  
IPUMS Registration

▼ DOCUMENTATION

Variables  
Samples  
User's Guide  
Geographic Tools  
FAQ

▼ RESOURCES

Enumeration Forms  
Published Census Volumes  
Errata and Revisions

▼ RESEARCH

Citation and Use  
Bibliography  
Related Sites

▼ CONTACT US

Help  
User Forum  
IPUMS Staff  
How to Help  
Donate to IPUMS



### Integrated Public Use Microdata Series

census microdata for social and economic research

IPUMS-USA is a project dedicated to collecting and distributing United States census data. Its goals are to:

- Collect and preserve data and documentation
- Harmonize data
- Disseminate the data absolutely free!

**Use it for GOOD -- never for EVIL**

▼ IPUMS IN THE NEWS

NYT "Where We Came From"  
IPUMS and the Civil War

▼ IPUMS-USA DATA UPDATES

New 1960 5% sample  
2013 and 2014 Multi-Year data  
1850 100% data  
1940 100% data

▼ OTHER IPUMS DATA

Complete Count Data  
Linked Samples 1850-1930  
1850-1860 Slave Samples

▼ OTHER MPC PROJECTS

IPUMS-CPS  
IPUMS-International  
NHGIS  
NAPP  
IHIS  
ATUS-X

Minnesota Population Center,  
University of Minnesota

## Integrated Public Use Microdata Series



### IPUMS-International

Harmonized data for 1960 forward,  
covering 560 million people in 258  
censuses from around the world.



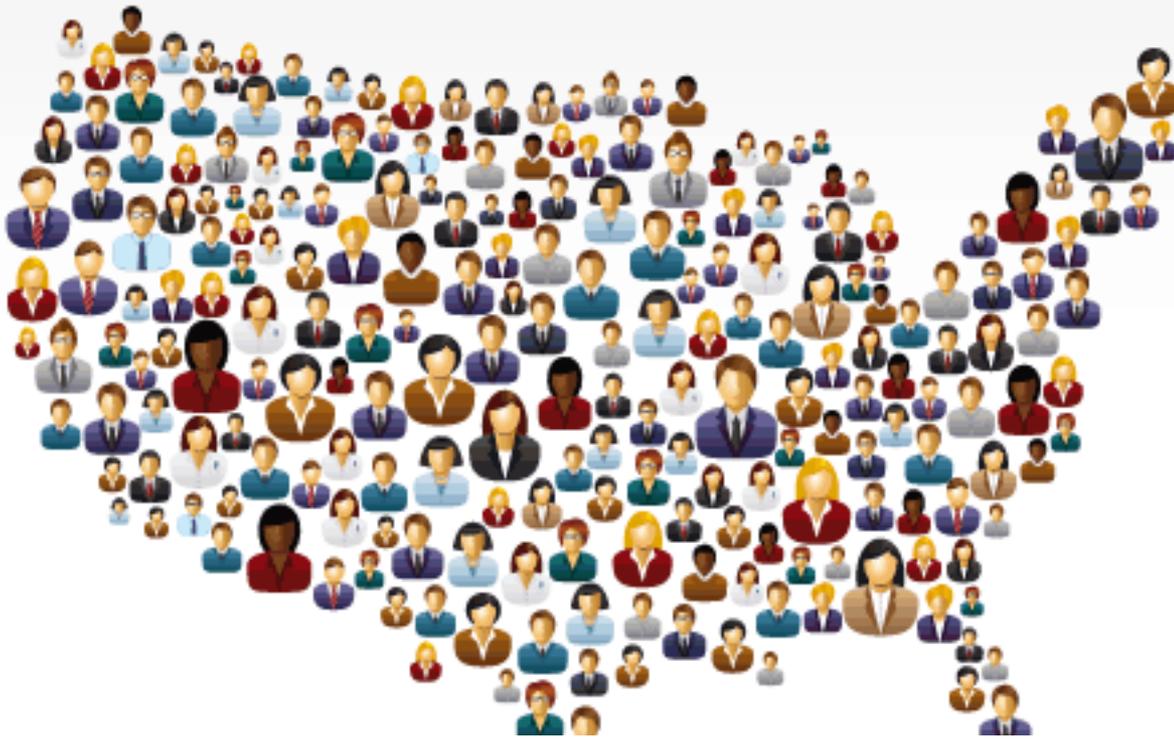
### IPUMS-USA

Harmonized data on people in the U.S.  
census and American Community Survey,  
from 1850 to the present.



### IPUMS-CPS

Harmonized data on people in the Current  
Population Survey, every March from 1962  
to the present.



## **State Government**

LMI – Shops <http://www.bls.gov/bls/ofolist.htm>

Health Data

Education Data

Tax Data

Source of members for your network!

## **County and Local Governments**

Permits

New Business

Crime Stats

Voting

Transportation

# Census Training Webinars

<https://census.webex.com/mw0401lsp13/mywebex/default.do?siteurl=census&service=7>



U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

The usage

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## Live Sessions

Search for sessions by presenter, topic, or words in the agenda:

 [Today](#) | **[Upcoming](#)** | [Daily](#) | [Weekly](#) | [Monthly](#) [English : New York Time](#)

# Who to Contact when you need assistance

- Census State Data Center Network – list of state leads and coordinating agencies:
  - <http://www.census.gov/about/partners/sdc/member-network.html>
  - This site also has:
    - Program guidelines, Strategic plan, Memorandum of Understanding
- Additional SDC Websites:
  - SDC Clearinghouse:
    - <https://sdcclearinghouse.wordpress.com/>
  - SDC Facebook:
    - <https://www.facebook.com/censusSDC>
- Our contact information appears at the end of this presentation.



# Thank You!

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