

Impacts and Recovery Using the Longitudinal Employer-Household Dynamics Data Tools

Washington State Data Center
Annual Meeting
September 29, 2020

Presented by:
Earlene K.P. Dowell



Agenda

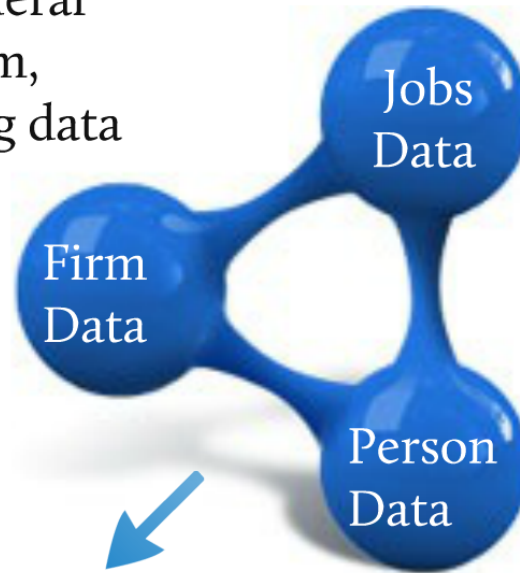
- LEHD Introduction
- Accessing the Longitudinal Employer-Household Dynamics Program's Data Tools
- QWI - QWI Explorer
- LODS - OnTheMap
- J2J Data Flows – J2J Explorer
- OnTheMap for Emergency Management
- PSEO - PSEO Explorer
- VEO - VEO Explorer

The screenshot shows the U.S. Census Bureau website. At the top is a navigation bar with the 'Census' logo, a search bar, and links for 'BROWSE BY TOPIC', 'EXPLORE DATA', 'LIBRARY', 'SURVEYS / PROGRAMS', 'INFORMATION FOR...', 'FIND A CODE', and 'ABOUT US'. The main content area features a large hero image of a diverse group of people on a rooftop, with the headline 'Counties in South and West Lead Nation in Population Growth' and a 'Read More' button. To the right, a 'POPULATION CLOCK' shows the current population of the USA as 328,837,726 and the West as 7,570,189,090. Below this is a section for 'U.S. CENSUS BUREAU ECONOMIC INDICATORS' with links to 'Advance International Trade Goods', 'Advance Retail Inventories', 'Advance Wholesale Inventories', and 'Manufacturers' Goods'. A 'Latest News' section follows, with articles such as 'New Earnings and Employment Data for College Graduates', '2017 Census of Governments Data & Individual State Descriptions Report', and 'U.S. Census Bureau Releases 2018 Voting and Registration Data'. At the bottom, there's a section titled 'America Counts: Stories Behind the Numbers' with articles like 'Moves to and From the South and West Dominate Recent Migration Flows', 'The Impact of the Tech Boom on Housing', 'Behind the 2018 U.S. Midterm Election Turnout', and 'The Opioid Crisis and Grandparents Raising Grandchildren'.

<https://www.census.gov/>

What are LEHD and LED?

An innovative federal statistical program, collecting existing data and ...



New linked national jobs data for the U.S.

The LEHD Program at Census

..linking it together to provide new information sources at low cost

Longitudinal Employer-Household Dynamics (LEHD)

Where Data is Published:

| Data Product | Explore the data, answer questions, or get visualizations | Bulk data for use in analysis process/software | Live queries for building web applications |
|--------------|---|---|--|
| QWI | QWI Explorer | LED Extraction Tool and Raw data download | Census Bureau API |
| LODES | OnTheMap OnTheMap for Emergency Management | Raw data download | Future development |
| J2J | J2J Explorer | Raw data download | Future Development |
| PSEO | PSEO Explorer | Raw data download | Future Development |
| VEO | VEO Explorer | Raw data download | Future Development |

Baby Boomers in Healthcare and Retail Trade

Are You A Baby Boomer Looking For Work? Where To Find The Best Opportunities



Sheila Callaham Contributor @
Diversity & Inclusion
I write about combatting ageism in the workplace.

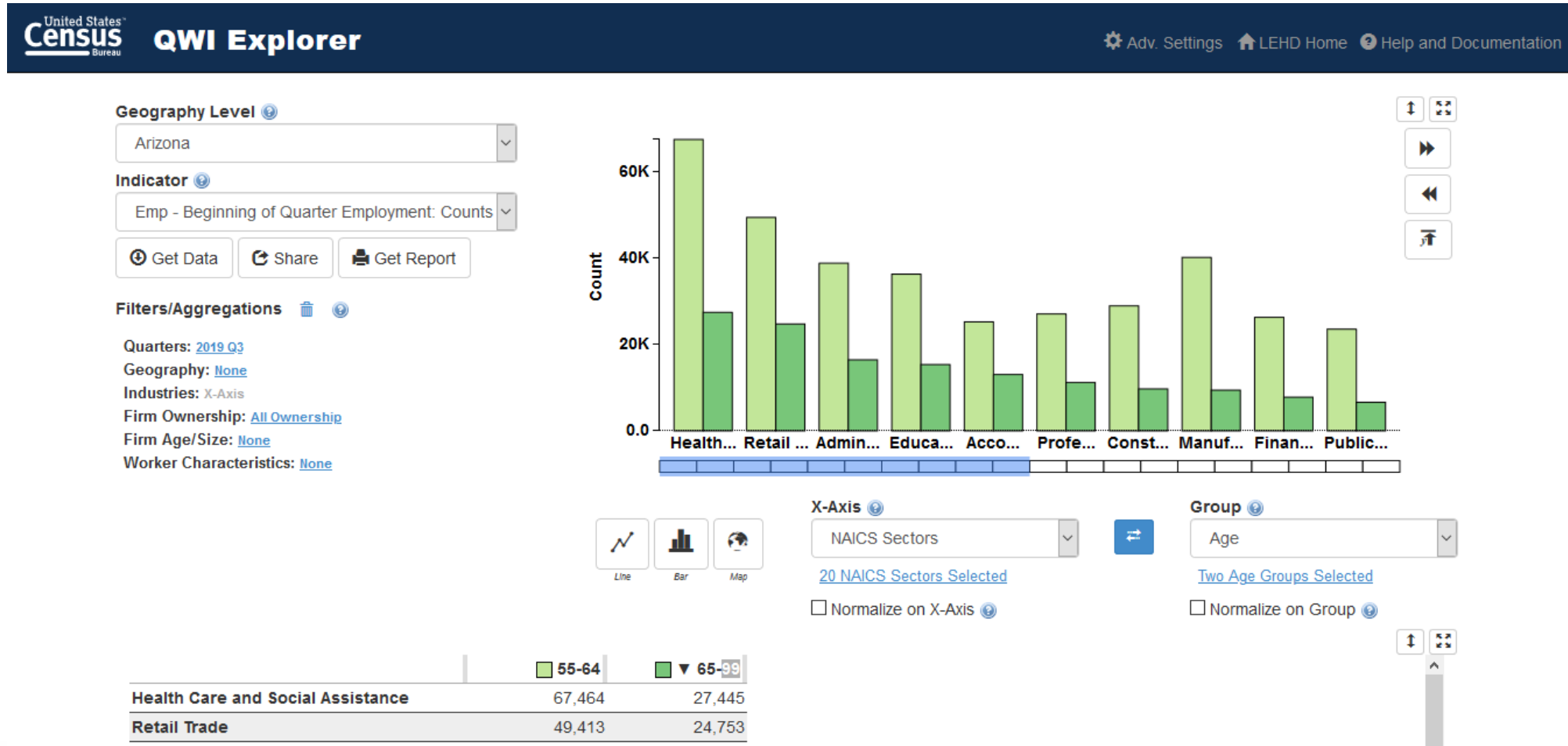


Two industries show the most promise for older people looking for work. The BLS report containing data from 1994 to 2016 indicates an increase in workers aged 65 and 69 in healthcare (up 18%) and retail trade (up 14%). Carol Hymowitz, a recognized expert on longevity and diversity in the workplace, writes in her article, “How Health Care Employers Are Welcoming Older Workers,”

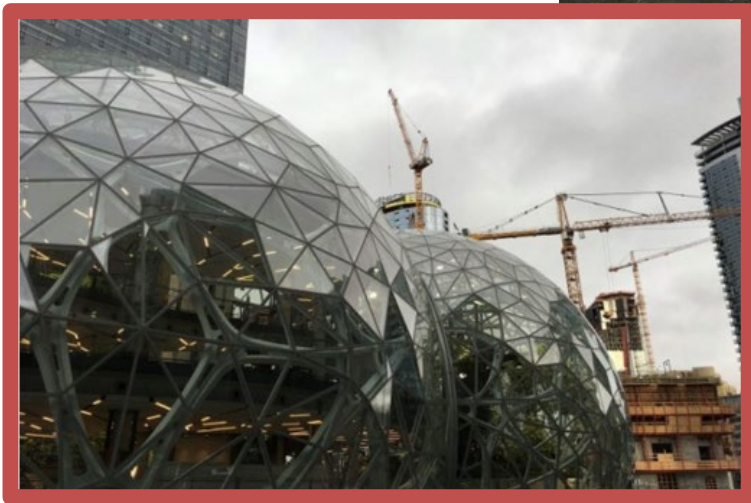
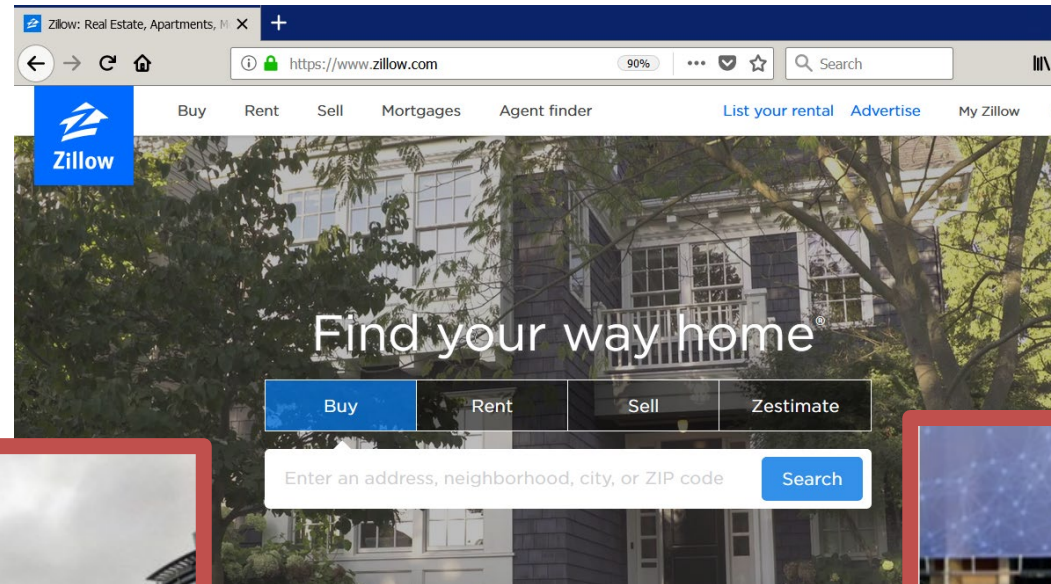
the growing health care industry has taken a progressive approach to hiring and retaining older workers because it's challenged by shortages of employees at every rank. To keep talent and attract new hires, hospitals and outpatient clinics are offering a variety of flexible work arrangements, including part-time schedules, telecommuting and job sharing. Others are rehiring retirees as contract workers.

<https://www.forbes.com/sites/sheilacallaham/2019/03/21/are-you-a-baby-boomer-looking-for-work-where-to-find-the-best-opportunities/#1629432360bd>

<https://qwiexplorer.ces.census.gov/>



How Zillow Is Connecting the Dots with LEHD



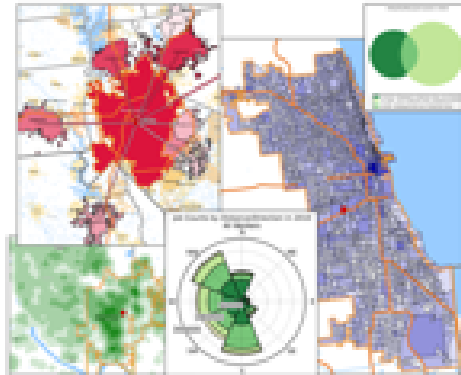
OnTheMap and LODES

OnTheMap.CES.Census.Gov

OnTheMap

Recognized by United Nations as a major
U.S. statistical innovation

- ✓ Where do workers live?
- ✓ Where do residents work?
- ✓ What are the commuter flows of a particular area?
- ✓ Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex
- ✓ Analyze/report by firm characteristics: NAICS Sector, firm age, and firm size

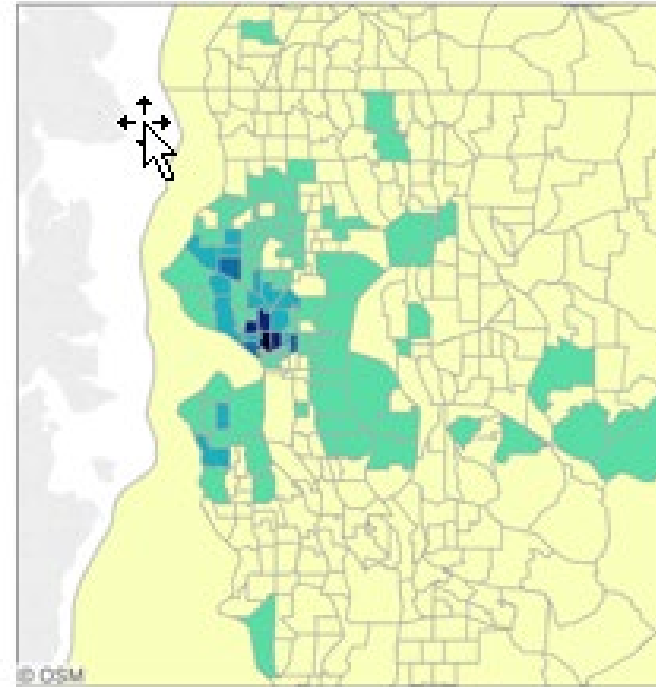


- ✓ 2002-2015 annual data
- ✓ 50 states available (plus DC)
- ✓ User-selected areas
- ✓ Based on Census Blocks
- ✓ Disclosure protection
- ✓ Flexible Inputs/Outputs

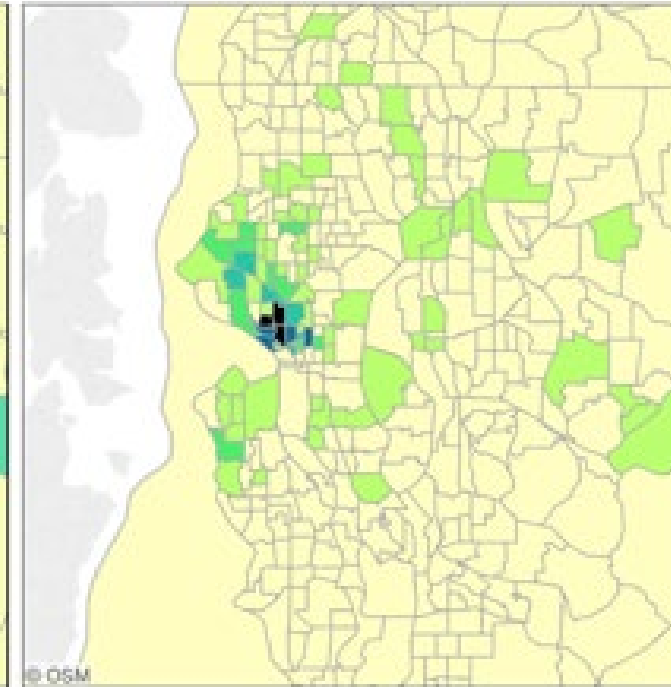
South Lake Union and nearby areas have both the greatest density and the largest growth in residents who work in South Lake Union.

Distribution of SLU workers
across census tract of residence, 2015

Average annual change in number of SLU workers
by residence census tract, 2011-2015

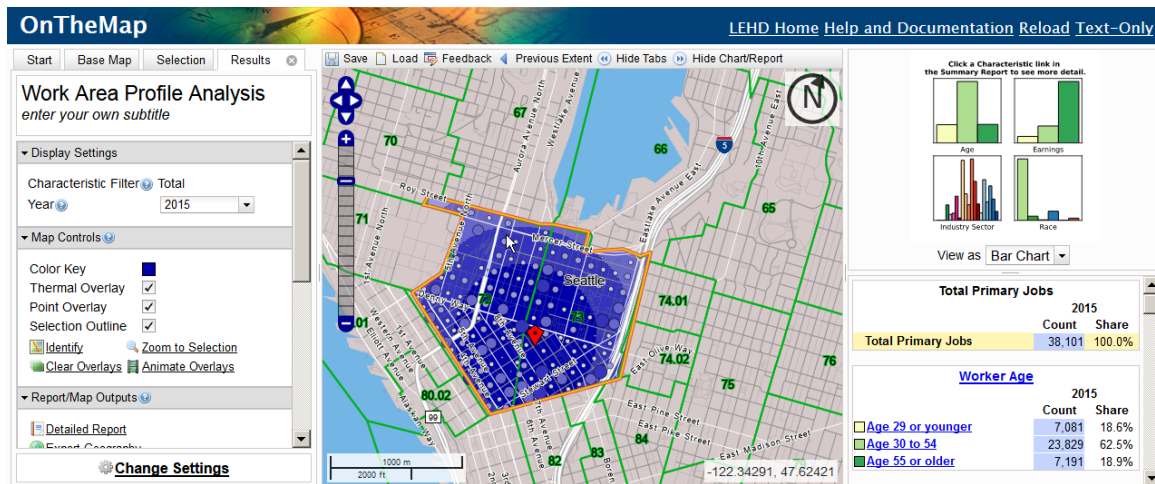


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Amazon Effect



Gene Balk / FYI Guy

Is the 'Amazon effect' on rising rents in North Seattle real?

Originally published April 1, 2018 at 8:00 am | Updated April 1, 2018 at 2:50 pm



Cranes tower above Seattle's University District neighborhood as a building boom continues there.

(Diane Thompson / The Associated Press)

Rents in Seattle north of the Ship Canal have breached a costly threshold for a couple of reasons, including the Amazon boom.

By Gene Balk / FYI Guy

Seattle Times staff columnist

Share story

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The days when you could save a few bucks by renting north of the Ship Canal are rapidly drawing to a close, according to a new report from Seattle-based Zillow.

Is it another example of the "Amazon effect" that's driving up rents in some city neighborhoods?

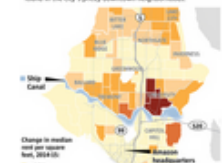
In the stretch from Ballard to the University District, rents shot up sharply between 2014 and 2015, according to data from Zillow, a national real-estate company. Nearly every census tract in this area saw its median price per square foot spike by double digits in that one-year period, increases ranging from 11 to 24 percent.

To be sure, there were similar increases in the far north and south ends of the city, such as Lake City and Rainier Valley. These, however, are some of the least expensive sections of Seattle. So as folks get priced out of the more central neighborhoods, demand here is growing. Even with the jump in rents, these areas are still significantly cheaper.

But the neighborhoods along the

Rents soaring north of Ship Canal

From Ballard to the University District, median rents per square foot posted double-digit gains, per Zillow, according to a Zillow analysis. The gray's rents are fast approaching levels found in the city's pricier downtown neighborhoods.

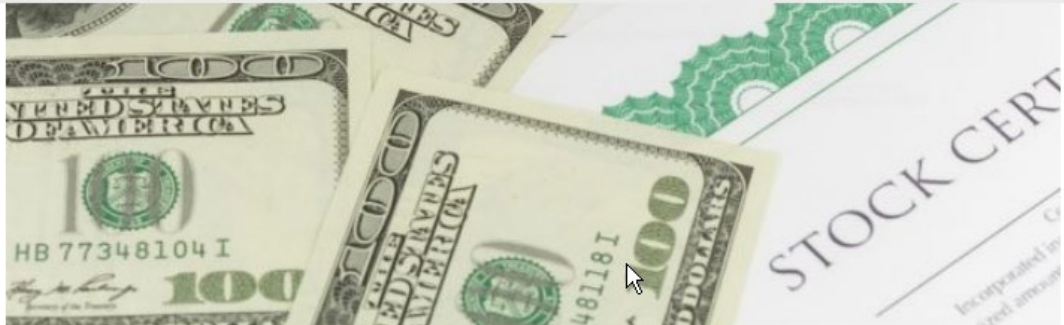


Facebook Headquarters - Menlo Park



Zillow Research

Buying/Selling Renting Policy/Politics Visuals Latest Data Markets



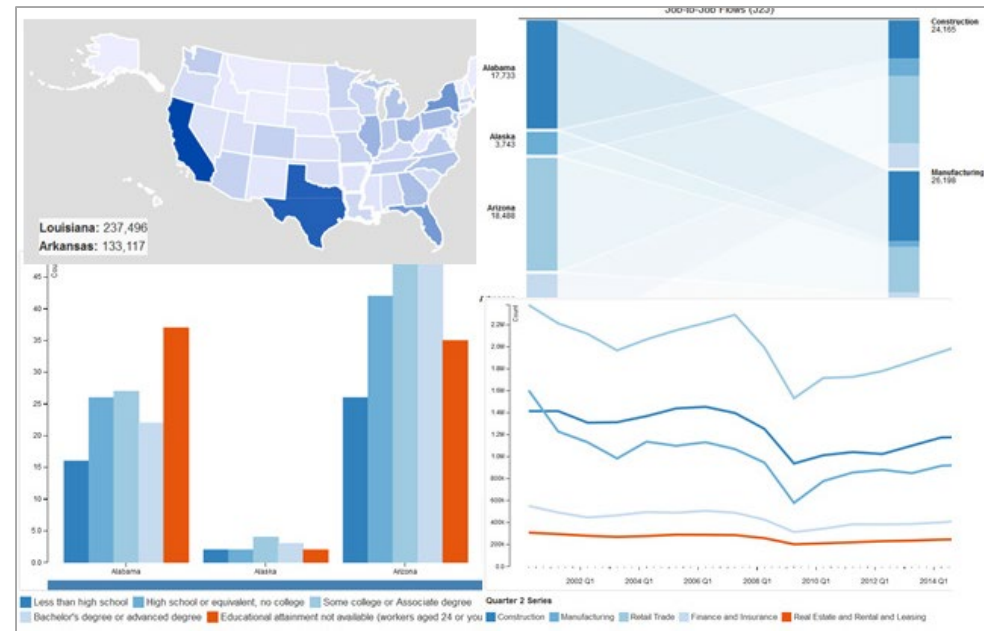
Post-IPO, Home Values Grew Faster in Areas Home to Lots of Facebook Employees

By [Jeff Tucker](#) on Feb. 4, 2019

- Every 10 Facebook employees living in a given census tract at the time of Facebook's IPO in May 2012 were associated with an additional 1.6 percentage points of home value increase over that year.
- Between March 2012 and March 2013, home values around likely Facebook employees climbed 21 percent, compared to 17 percent in all other Bay Area census tracts.
- This faster growth translated into an extra \$29,800 in appreciation for the typical home in these Facebook-employee-heavy areas compared to homes in the rest of the Bay Area.

J2J Explorer

- ✓ 40 Measures of Worker Reallocation
- ✓ Six Visualization Modules with a flexible dashboard interface
- ✓ Export reports to Excel or CSV
- ✓ Trace worker movements through industries, geographic labor markets, and to/from employment
- ✓ Analyze/report by origin and destination geographies: national and state-level tabulations

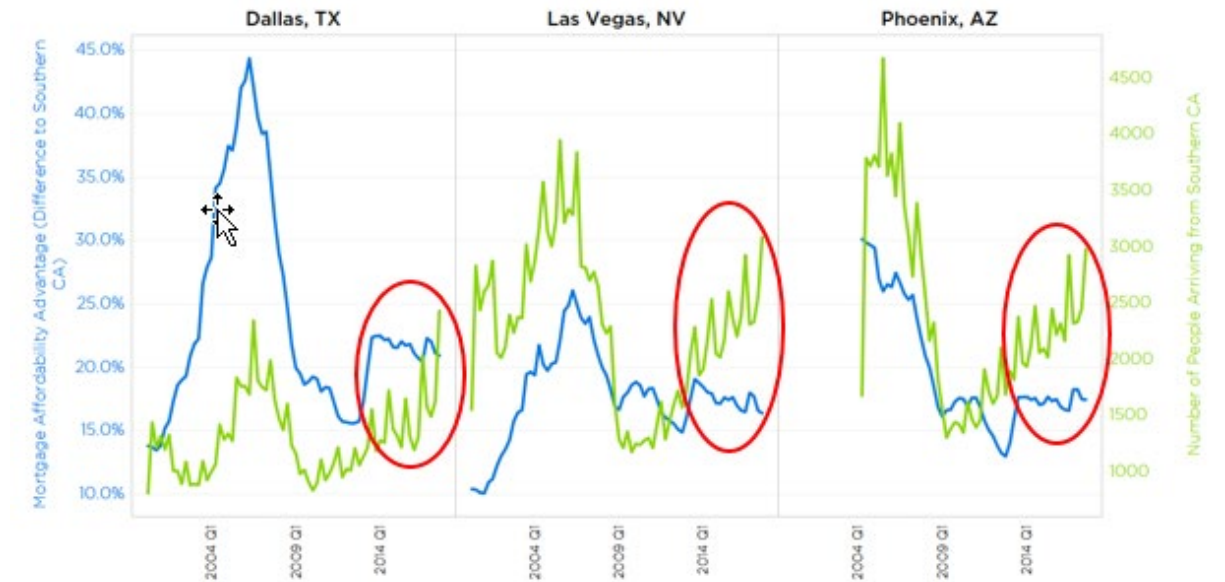


- ✓ Analyze/report by origin and destination firm characteristics: NAICS Sector, firm age, and firm size
- ✓ Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex
- ✓ Data updated every quarter

California Exodus



J2J: Regional Migration and Housing Affordability



Start with the Guided Entry

Job-to-Job Flows Explorer (Beta)

LEHD Home Help

Guided Entry

1. Start Here

Frame your question by selecting from the three dropdowns below; then click one of the blue links on the right to go to your customized results.

Hires to

California

Information

2. Then Choose an Analysis

Analysis of Job-to-Job Flows

From (Origin Job)

To (Destination Job)

Which States?

California

Which Industries?

Information

Analysis of Hires Over Time

Are hires to jobs in California Information coming from nonemployment or another job?

Not sure? Try one of these recommended options:

Which age groups are driving worker reallocation out of New England states?

Are workers without a college degree in North Dakota more likely to be hired from another job or from persistent nonemployment?

What states and firm ages are workers in California start-ups hired from?

Which industries have the highest connectivity in terms of national job flows?

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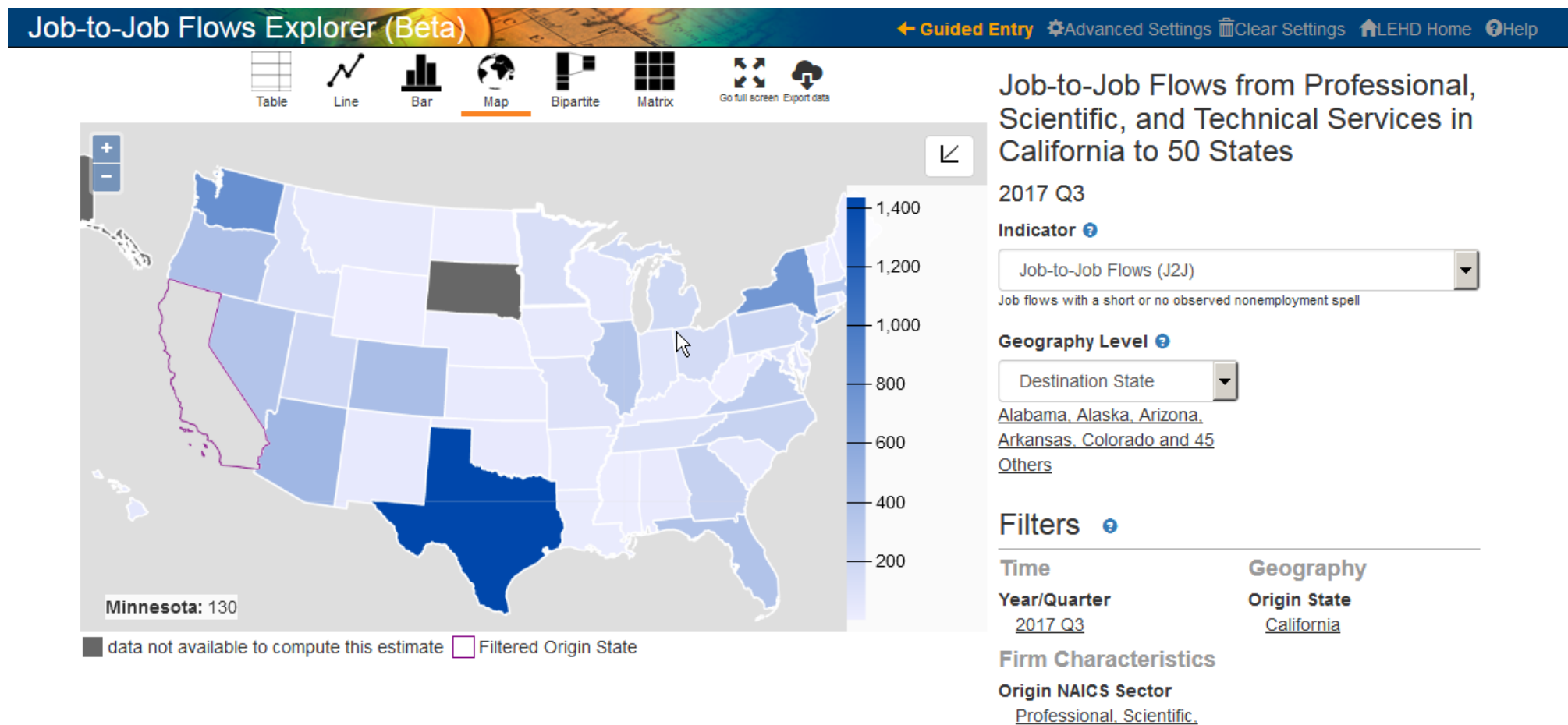
Source: U.S. Census Bureau, Center for Economic Studies, LEHD | e-mail: CES.J2J.Feedback@census.gov

United States[™]
Census
Bureau

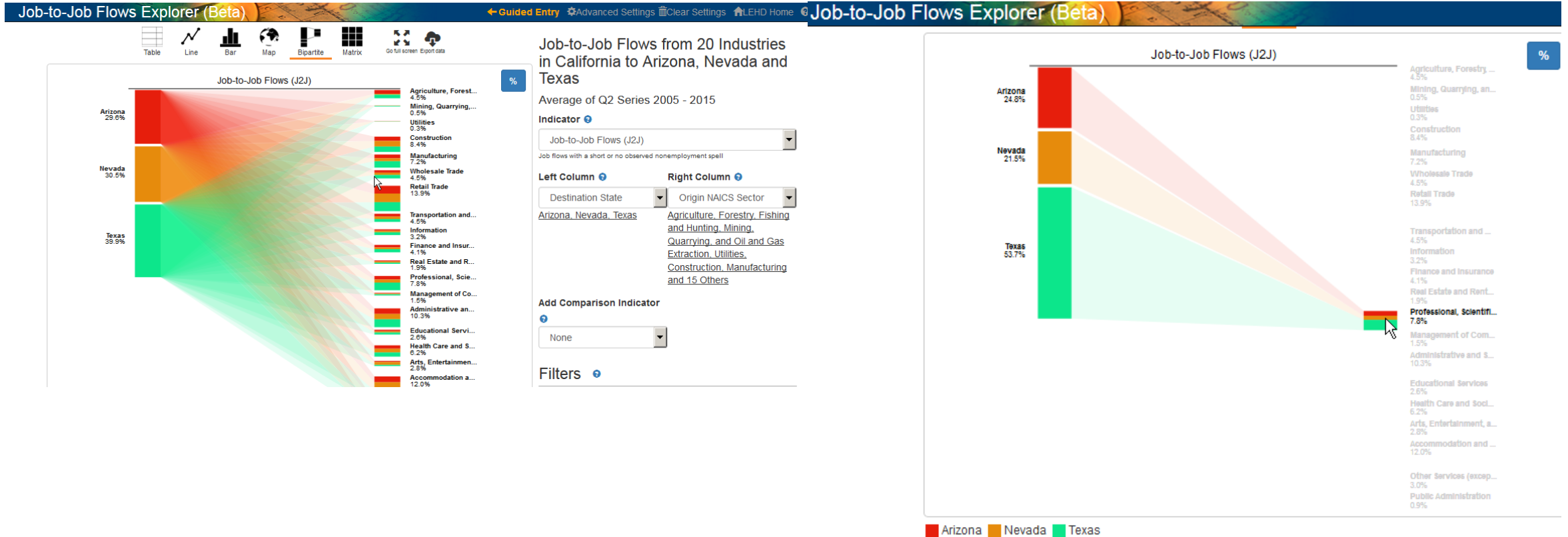
U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

13

J2J Explorer



Bipartite



OnTheMap for Emergency Management



Hurricanes, Floods,
Winter Storms



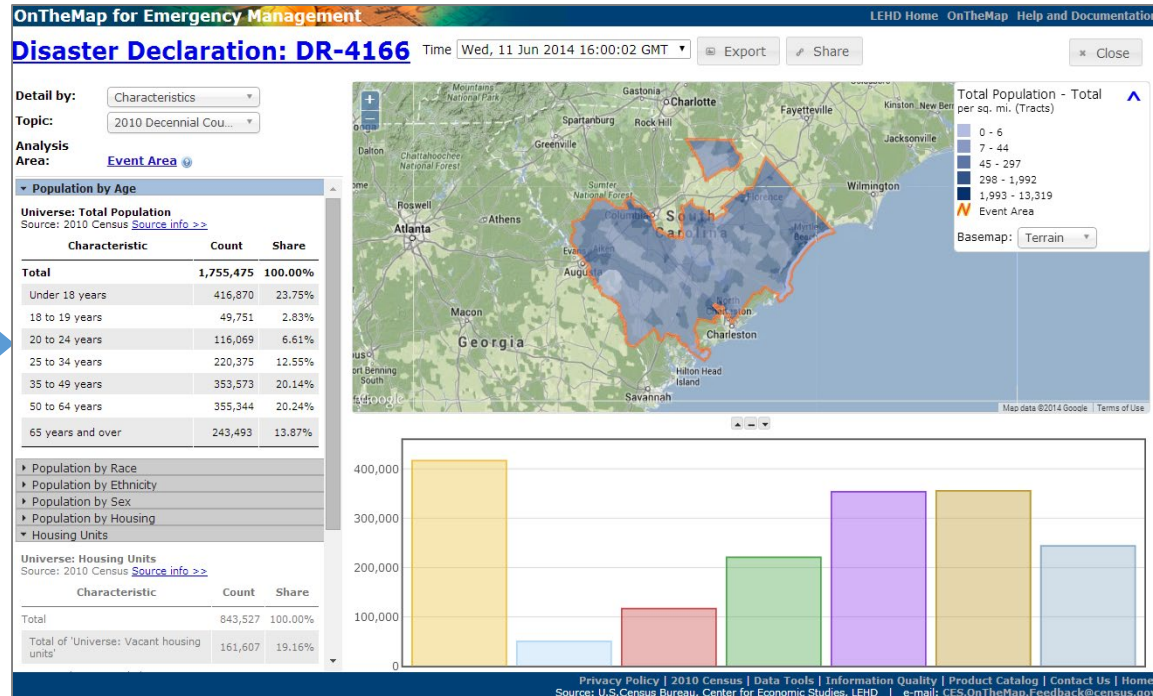
Disaster Areas



Wildfires



Demographic &
Economic Data



New Public Data Service for Emergency Preparedness & Response

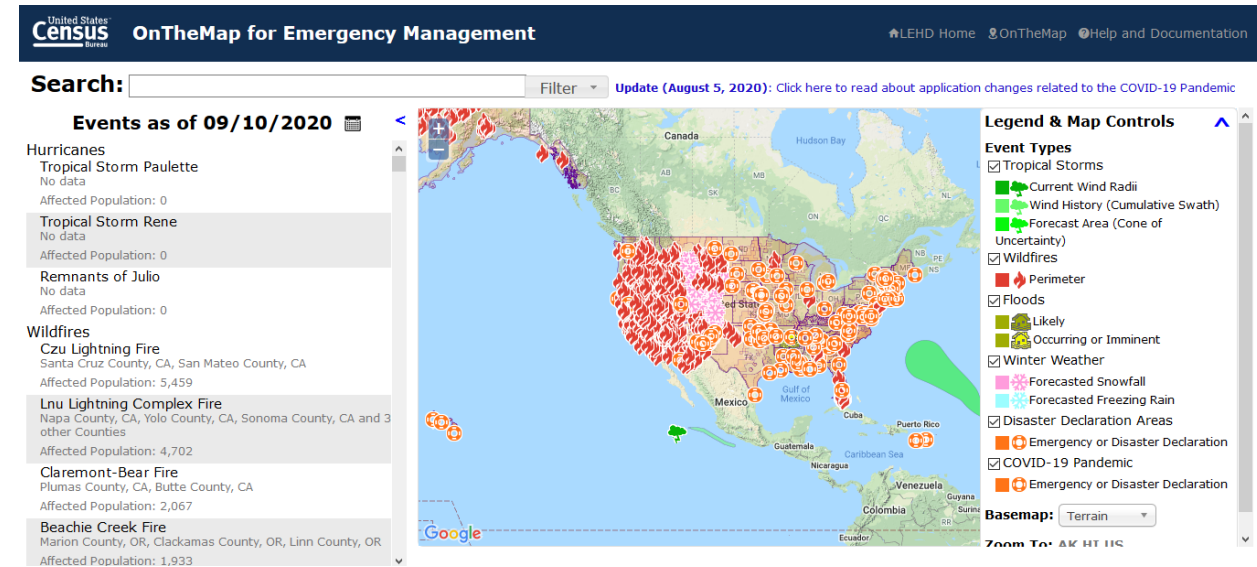
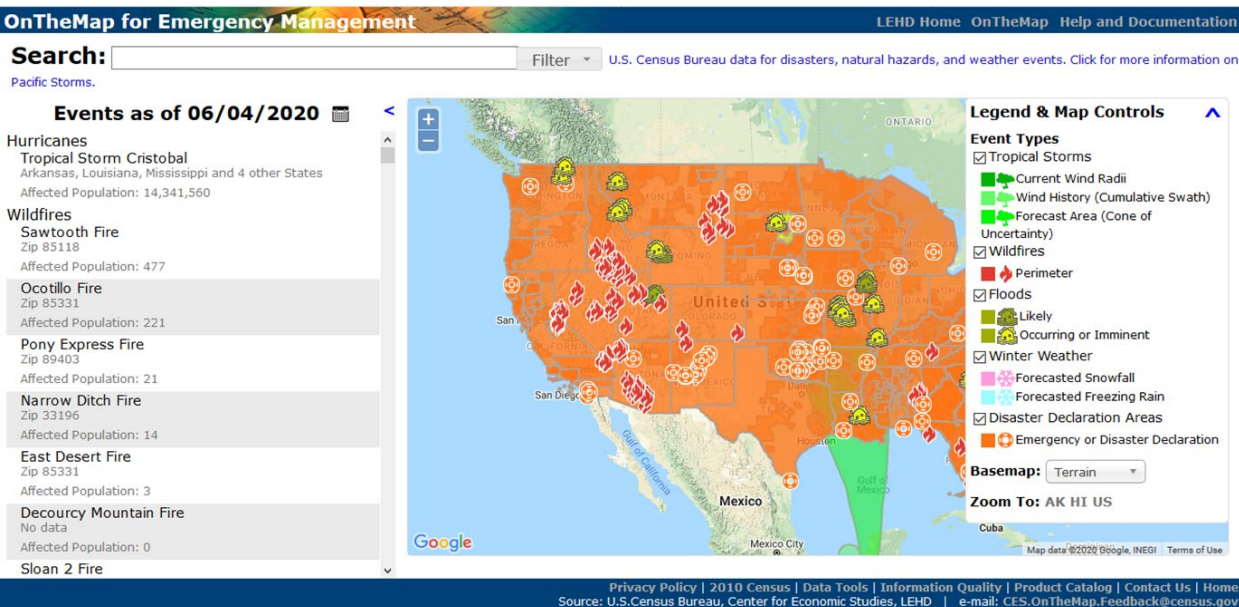
- Comprehensive Reports
- Real-time Data Updates
- Easy-to-use & Interoperable
- Historical Event Archive
- Flexible Analyses & Visualizations



<https://onthemap.ces.census.gov/em/>

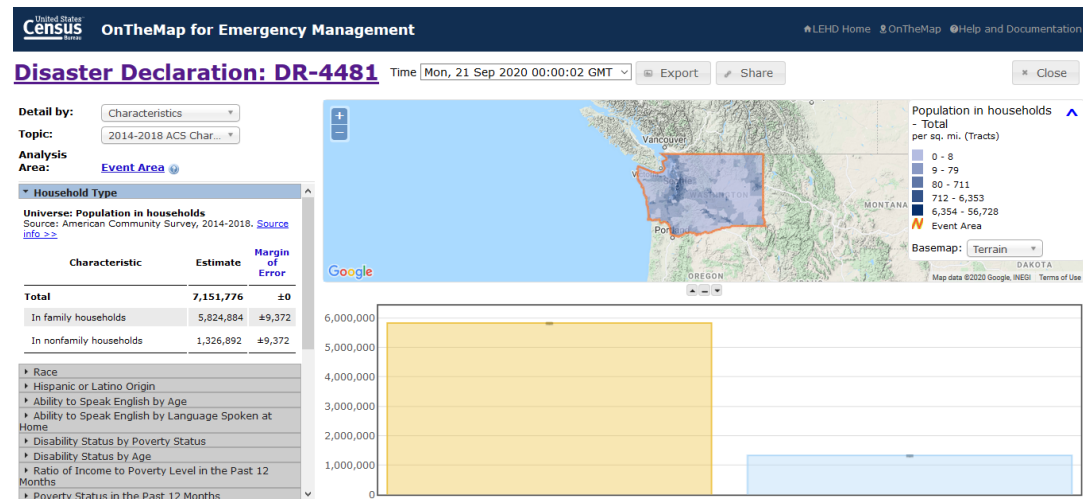
• Before

• After



OnTheMap for Emergency Management

DR-4481



FEMA



Post Secondary Employment Outcomes - PSEO

A joint pilot project between university systems, state higher education systems, and the Census Bureau, the Post-Secondary Employment Outcomes (PSEO) are experimental tabulations providing national earnings statistics for graduates of post-secondary institutions.

- PSEO Provides
 - 25th, 50th, and 75th percentiles of annual earnings for college and university graduates.
 - Employment by industry and region of the country.
 - By degree level, degree major, and post-secondary institution.
 - One year, five years, and 10 years after graduation.

- Current PSEO partners:
 - The University of Texas system (2017)
 - Colorado Department of Higher Education (2017)
 - University of Michigan, Ann Arbor (2018)
 - University of Wisconsin, Madison (2018)
- Future Partners
 - Ohio
 - New York

LED in Action



Professional services, health care top industries for U-M graduates

ANN ARBOR—Ten years after earning a bachelor's degree from the University of Michigan, more graduates work in professional, scientific and technical service fields than any other classification.

The data were released today through a collaboration between U-M, the Institute for Research on Innovation and Science (IRIS), and the U.S. Census Bureau. IRIS partners with the U.S. Census Bureau to link data from participating universities to the Census Bureau's Longitudinal Employer-Household Dynamics dataset to produce detailed employment and geographical information on alumni. The data covered from 2001 to 2015.

U-M has publicly released data on the industries in which their graduates work. For bachelor's degree graduates (across all fields and years), the top industries for employment 10 years after graduation were:

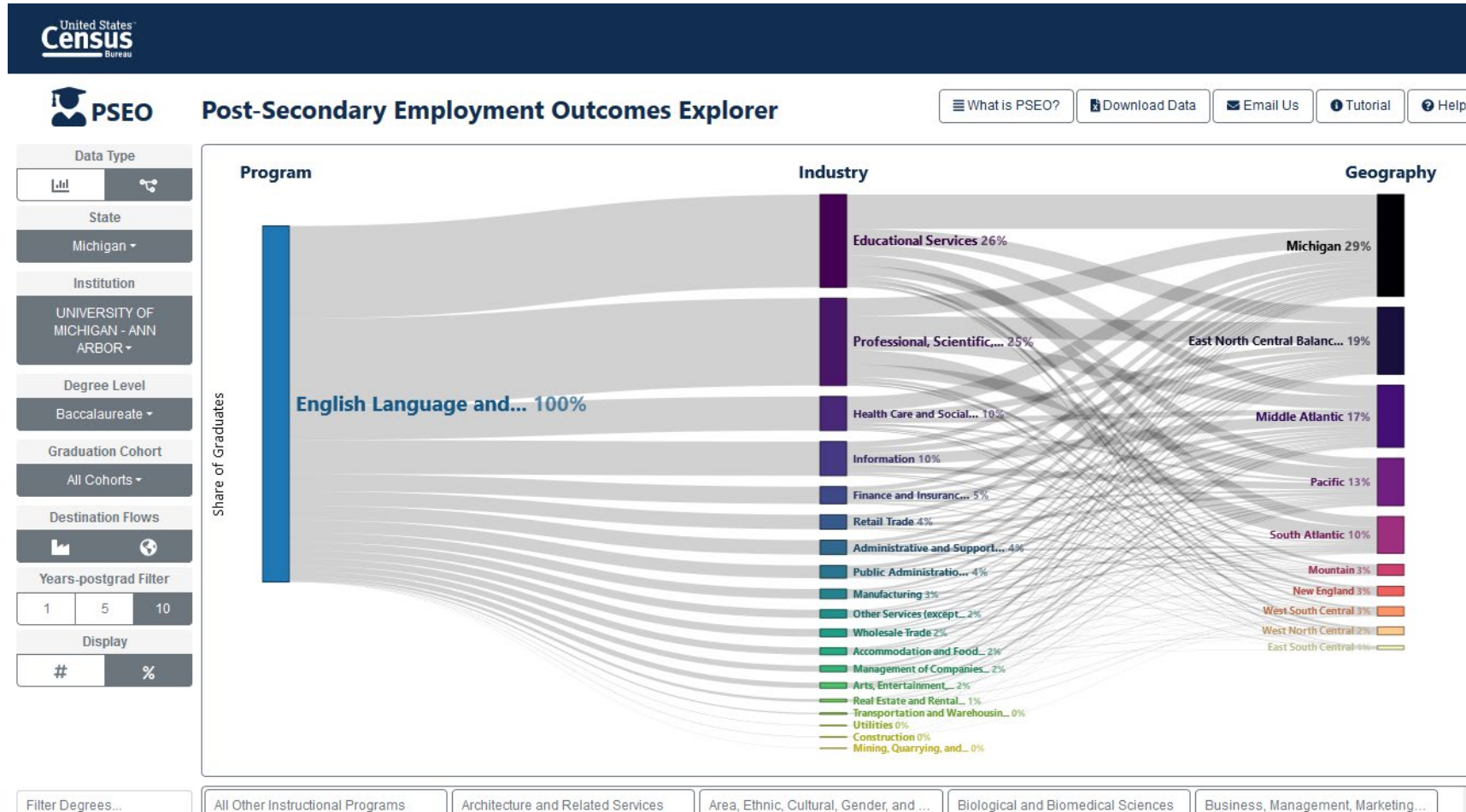
August 6, 2019

Contact: [Greta Guest](mailto:gguest@umich.edu)
gguest@umich.edu,
[Dan Meisler](mailto:dmeisler@umich.edu)
dmeisler@umich.edu

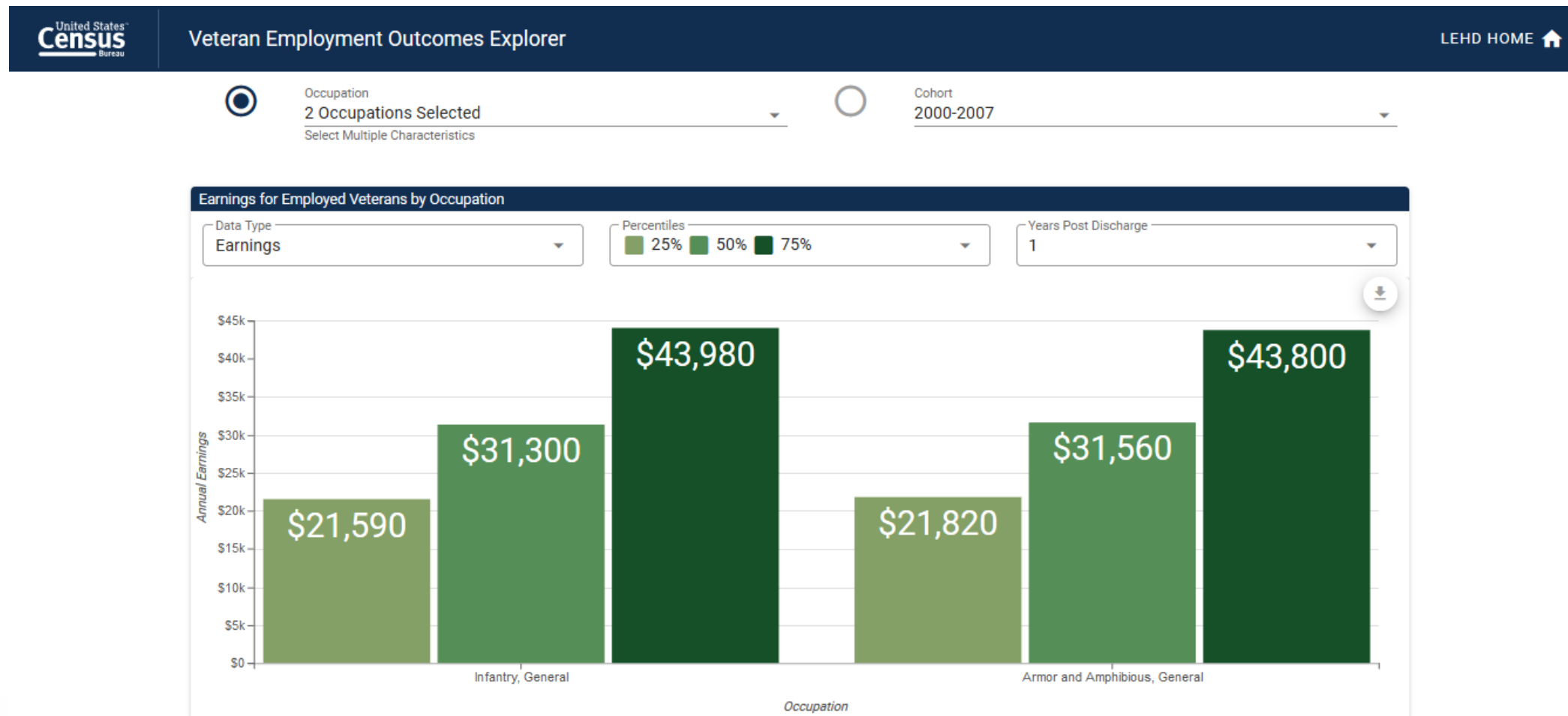
Share on:

<https://news.umich.edu/professional-services-health-care-top-industries-for-u-m-graduates/>

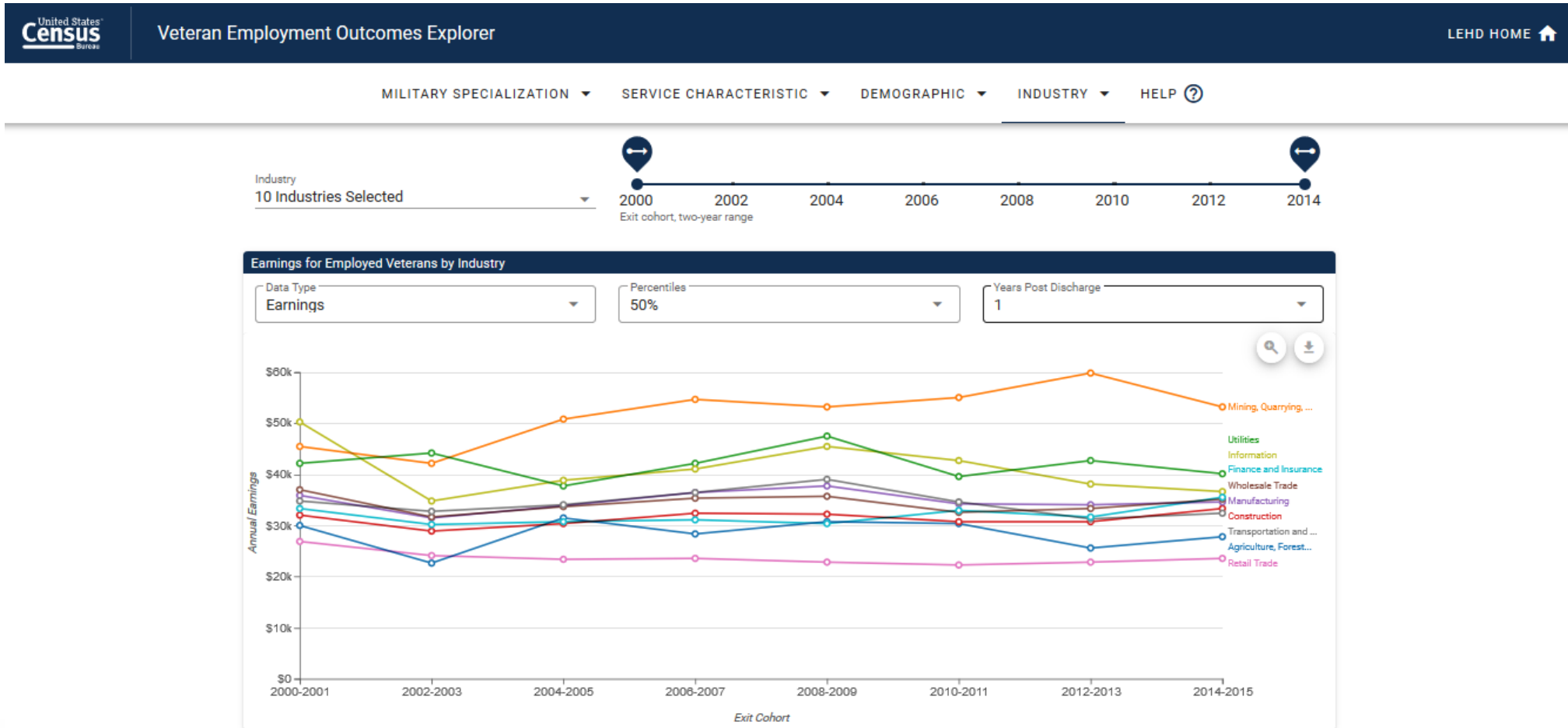
PSEO Explorer



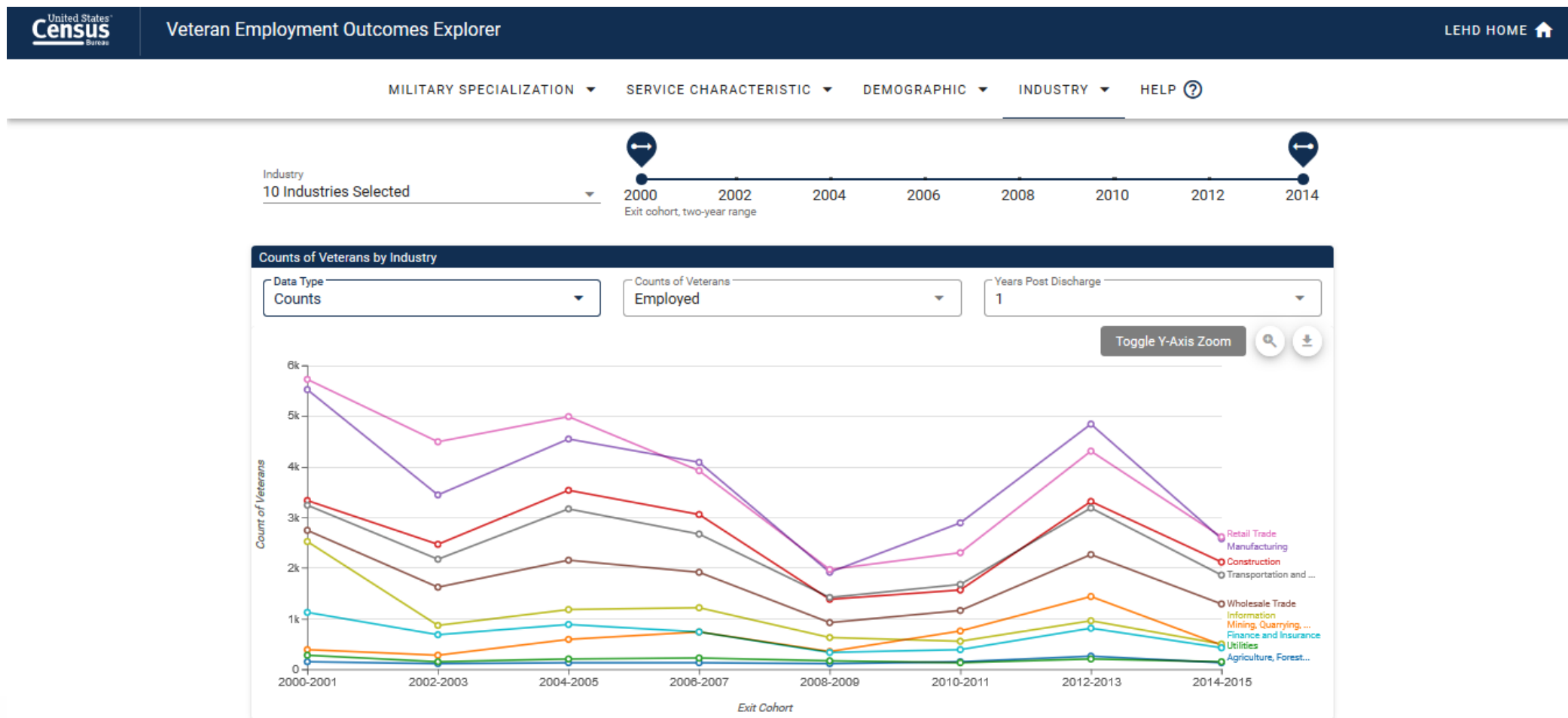
Veteran's Employment Outcome



Industry

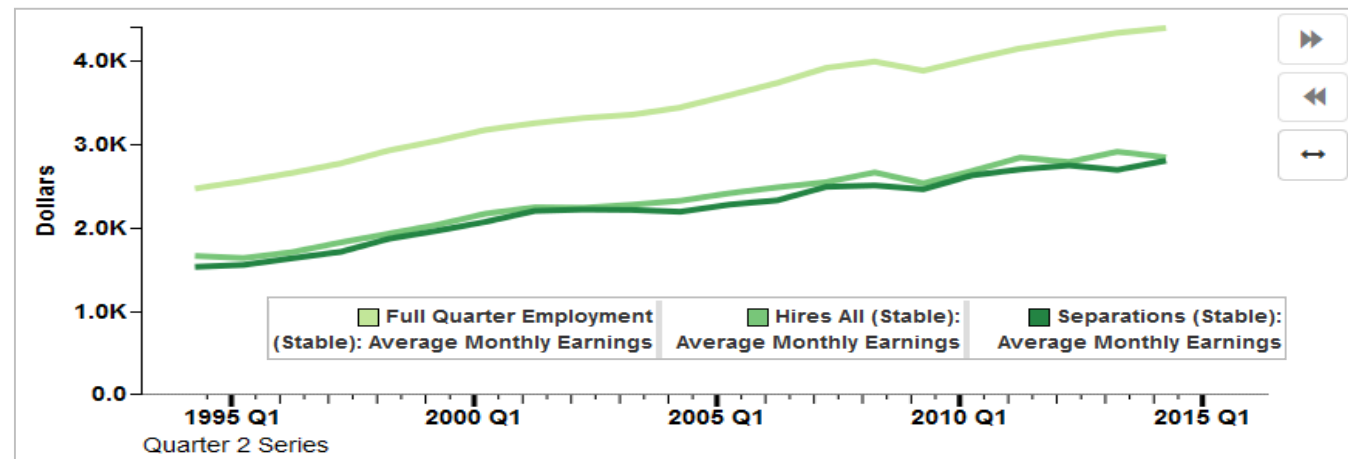


Employment Rates



Takeaways: Why Are LED Data Tools Important?

- Accessibility
- “Explorability”
- Provide context
- Visualizations lead to insight
- Promote/market the data
- Provide “value-add” for our state partners



Q & A and Thank You!

Contact me at:

Earlene.KP.Dowell@census.gov

(301)763-9628

