What’s New - Local Employment Dynamics

Updates from Census on new developments in LED products and applications

2019 LED Workshop
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Any opinions and conclusions expressed herein are those of the authors and do not necessarily represent the views of the U.S. Census Bureau. All tables and figures use publically available data.
What’s New and Coming Attractions
Updates from Census

Data Quality Improvements:
  • Wage Record Impute

New Products:
  • Post-Secondary Employment Outcomes (PSEO)
  • Veterans Employment Outcomes

New Application Enhancements:
  • Post-Secondary Employment Outcomes Data Visualization
  • Job-to-Job Flows Explorer

Updated Data:
  • LODES/OnTheMap Update

Mailing List Migration
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Unemployment Wage Record Imputation
Overview

The issue: UI employer non-response or incomplete response
  • Creates data quality problems in QWI, LODES, and J2J
  • Employment undercounts
  • Inflates hires and separations
  • Inflates non-employment spells in J2J

We contact states when we identify a large non-reporting event - but it often cannot be fixed.

Wage record imputation implemented in January 2019.
Unemployment Wage Record Imputation
Florida Hiring Rate (seasonally adjusted) 1998-2017
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It has long been recognized that we could substantially improve the post-secondary data infrastructure by combining existing systems.

One component of that system resides at the Census Bureau.

Workforce Data Sources:
-- **U.S. Census Bureau (LEHD data)**
-- IRS (W2, 1040, etc.)
-- state Unemployment Insurance wage records

The University of Texas system undertook a seven-year effort to get national earnings data for their graduates. They approached Census last, after someone told them about LEHD at a conference.

After many talks, we signed an agreement in 2017 to jointly develop what became the PSEO.

UT PSEO data was released to the public in March 2018.
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.

**Goal:**

- Provide students and parents better data on the return on investment to post-secondary degrees.

The PSEO provides:

- 25th, 50th, and 75th percentiles of annual earnings for college and university graduates.
- Employment by industry and region of the country (**New**: released August 8, 2019).
- By degree level, degree major, and post-secondary institution.
- One year, five years, and 10 years after graduation.
Post-Secondary Employment Outcomes (PSEO)

Expansion of Coverage

Current PSEO partners:

- The University of Texas system (2017),
- Colorado Department of Higher Education (2017),
- University of Michigan, Ann Arbor; University of Wisconsin, Madison (2018).

Negotiating MOUs with:

- Ohio Department of Higher Education,
- State Council of Higher Education for Virginia,
- Texas Higher Education Coordinating Board,
- Arizona Board of Regents,
- New York SUNY and CUNY systems,
- Indiana Commission of Higher Education,
- Utah System of Higher Education.
New related product planned release later in 2019
Where do veterans go after leaving service?

Veterans Employment Outcomes (VEO):
• Partnership with West Point
• ‘PSEO’-like statistics for Army veterans, 1, 5, and 10 years after exit.

We would like your input:
• Will be previewing the product in an afternoon breakout session – please attend if interested in these data
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Visualizing Post-Secondary Employment Outcomes (PSEO)
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• PSEO Employment Flows data released in early August 2019
• Visualization Module for PSEO Earnings updated to allow sorting by degree holder counts
• Visualization Module for PSEO Employment Flows currently under development
• Uses Sankey Diagram to show proportional flows between degree types, destination geographies, and destination industries
• Developed using D3, nodejs, PostGreSQL, html/javascript
Visualizing Post-Secondary Employment Outcomes (PSEO)

Employment Flows Live Demo!
Job-to-Job Flows (J2J)

- Job-to-Job Flows (J2J) are national statistics on job mobility in the U.S.
- With these data, users can learn more about workers entering and exiting nonemployment as well as those moving from one job to another.
- It fills an important gap that other available data sources do not currently cover.
J2J Explorer (Beta)

- Six Visualization Modules with a flexible dashboard interface
- Trace worker movements through industries, geographic labor markets, and to/from employment
- Analyze/report by OD geographies at the state and national level
- Analyze/report by OD firm characteristics (i.e. NAICS Sector, firm age, and firm size)
- Analyze/report by worker demographics: age, race, ethnicity, educational attainment, and sex
- Export reports to Excel or CSV
- Data updated every quarter
Coming Soon in J2J Explorer 1.0

Tabulations by Metro Area

Earnings Indicators

Job-to-Job Flows to Manufacturing in 430 Metro Areas

United States Census Bureau
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov
Other updates (in addition to Metro Areas and Earnings):

- There are now 59 measures!! (I know, it’s too many)
- Ability to cross Worker Characteristics with Firm Characteristics
- Rankings and Normalization Functionality
- Scheduled for release in October 2019
Coming Soon in J2J Explorer 1.0

A Comparison of Earnings Indicators for Job Flows from Seattle-Tacoma-Bellevue, WA to 20 Industries in Seattle-Tacoma-Bellevue, WA filtered by Sex

Average of 2017 Q1 - 2017 Q4
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Big News: **LODES for 2016 and 2017 were released last week.**
- Both in OnTheMap and raw data files.

**Additional releases:**
- Backfilled Wyoming data for 2014 and 2015
- Updated to TIGER 2018 (only affects the operation of OnTheMap and the geography crosswalk provided with LODES data)

**Other key points of the update:**
- Data for Alaska and South Dakota are not available in 2017
- Jobs for federal workers are not available in 2016 and 2017
- The default Job Type of OnTheMap was changed to “Private Primary Jobs”
https://onthemap.ces.census.gov/
Looking Ahead for LODES/OnTheMap

LODES

• 2018 Data
• Backfilling federal workers
• Backfilling historical state data
• Additional research to improve the data product (confidentiality protection, publication levels, etc.)

OnTheMap

• Planning for the next major application update

Feedback is encouraged: CES.OnTheMap.Feedback@census.gov
Want More Information LEHD Data and Data Tools?

We are holding concurrent training sessions this afternoon:

• J2J Data and J2J Explorer at 1:15pm and 2:30pm in Conference Room 2
• OnTheMap at 1:15pm and 2:30pm in Conference Room 3
• PSEO Q&A at 1:15pm and 2:30pm in Conference Room 4
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Updating the LEHD Mailing Lists

The following LEHD listservs will be retired shortly after the workshop:

- LEHD-General  lehd-general@lists.census.gov
- LEHD-OnTheMap  lehd-onthemap@lists.census.gov
- LED-QWI  led-qwi@lists.census.gov
- LED-Partners  led-partners@lists.census.gov

All existing members will be migrated to a new system and receive announcements from: “U.S. Census Bureau  census@subscriptions.census.gov”

Uses a system called GovDelivery
Updating the LEHD Mailing Lists

Preferences for all Census Bureau notifications managed in one place: https://public.govdelivery.com/accounts/USCENSUS/subscriber/new

Features include:

• Subscription options for each LEHD public dataset: LODES/OnTheMap, QWI, J2J, & PSEO (bolded are new)
• General and LED Partner subscriptions
• Deduplication of Announcement Emails
• Easily subscribe/unsubscribe
• Integrated access to other Census Bureau email lists