Census Training: Introduction and Updates on Local Employment Dynamics Data Products

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Presenter: Earlene Dowell
Longitudinal Employer-Household Dynamics Program
U.S. Census Bureau
What is Local Employment Dynamics (LED) data?

It is the set of public use statistics derived from the LEHD jobs microdata.

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

The LEHD Program at Census
..linking it together to provide new information sources at low cost.

New linked national jobs data for the U.S.
Local Employment Dynamics: Public Use Data Products

The Quarterly Workforce Indicators (QWI)
- Employment
- Job Creation, Job Destruction, Hires, Separations, Turnover
- By industry, county, CBSA, state, Workforce Investment Area (WIA) and worker characteristics

Job-to-Job Flows (J2J)
- Traces worker movement through industries, geographic labor markets, and to/from employment

OnTheMap/LEHD Origin-Destination Employment Statistics (LODES)
- Employment at the Census block level by where workers live and work
- Popular uses - local economic development, business site selection, and emergency planning

Post-Secondary Employment Outcomes (PSEO)
- New set of statistics on the earnings and employment outcomes of graduates of post-secondary institutions in the United States,
America Counts:

Impact of Tech Boom on Housing

Combining Census Bureau and Zillow Housing Data Show Rise in Rental Prices and Home Values in Tech-Rich Areas

Earlene K.P. Dowell | April 30, 2019

You've heard of the "Amazon Effect." Now you can see it.

By combining U.S. Census Bureau data and their own housing listings, economists from Zillow, an online real estate search engine, have been able to show just how much rental prices and home values have skyrocketed in areas across the country that are experiencing a tech boom.

Zillow combines housing data and Census Bureau data to help understand the link between housing prices and the tech boom.
How Zillow Is Connecting the Dots with LEHD
OnTheMap, LODES, and Labor Demand Shock
Amazon Effect
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

Mortgage Affordability Average (Difference in Southern)

Dallas, TX
Las Vegas, NV
Phoenix, AZ
Start with the Guided Entry
J2J Explorer
Bipartite
What Is Ahead for the Nation’s Aging Workforce?

- 17 percent for workers aged 14–24, a $245 increase from $1,431 to $1,676.
- 20 percent for workers aged 25–34, a $600 increase from $3,049 to $3,649.
- 32 percent for workers aged 35–44, a $1,254 increase from $3,939 to $5,193.
- 32 percent for workers aged 45–54, a $1,390 increase from $4,363 to $5,753.
- 41 percent for workers aged 55–64, a $1,629 increase from $3,928 to $5,557.
- 80 percent for workers aged 65–99, a $1,816 increase from $2,276 to $4,092.
QWI Explorer

✓ 32 Quarterly Workforce Indicators
✓ Flexible Pivot Table and Map/Chart interface
✓ Data on detailed interactions between firms and workers include employment, employment change (individual and firm), and earnings
✓ Analyze/report by worker demographics: age, earnings, race, ethnicity, educational attainment, and sex
✓ Analyze/report by firm characteristics: NAICS classification (sector, 3, 4), firm age, and firm size
✓ Quarterly data very current (9-12 months old)
✓ National and 50 states available (plus DC)
Average Monthly Earnings by Age

Full Quarter, Real Average Monthly Earnings by Age

Ages
45-54
55-64
35-44
65-99
25-34
14-24

Earnings in New Jersey
Industries of Older Workers
How Much are University of Michigan – Ann Arbor Graduates Earning?
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
To sum up:

The Longitudinal Employer-Household Dynamics Program links existing business and jobs data to create new sources of local, detailed, labor market information using the following data tools:

-- QWI
-- OnTheMap
-- J2J Explorer
Resources

• America Counts

• LED Webinars
  – https://www.youtube.com/watch?v=AhFi59Fbzlw

• Other
  – https://www.seattletimes.com/seattle-news/data/is-the-amazon-effect-on-rising-rents-real/
Q & A and Thank You!

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