QCEW Research Data for the Local Level

Kevin Cooksey
AUBER 2019 Fall Conference
October 13, 2019
Outline

- Background on QCEW
  - Housekeeping (background, publications, etc.)
  - Recent Accomplishments
- QCEW Research Data
  - Foreign Direct Investment
  - Nonprofit Sector
- Web Demonstration (technology permitting)
QCEW
Quarterly Census of Employment and Wages
QCEW

- Quarterly Census of Employment and Wages
- Fed/State cooperative program
  - Unemployment Insurance (UI) tax filings
  - Employment, Wages, Industry, Geography, Administrative Info
- Covers roughly 97% of US businesses
  - Establishment as unit of analysis
QCEW Scope

- 97% of employees on nonfarm payrolls
- 10 million establishments
  - 9.9 million in the private sector
  - 300,000 in the public sector
- 148 million workers
  - 126 million in the private sector
  - 22 million in the public sector
Data Collection: UI Tax Filing

- Unemployment Insurance (UI)
- What is excluded?
  - Self-employed, unpaid family employees
  - Some agricultural employees, some student workers
  - Elected officials
  - Members of the Armed Forces
QCEW to BED

- Business Employment Dynamics (BED) is a set of statistics measuring changes in employment at the establishment level on a quarterly basis
  - Job churn
  - Creative destruction

- Data Source: Longitudinal, linked microdata from the Quarterly Census of Employment and Wages (QCEW)
  - BLS staff review UI administrative data for outliers and longitudinal linkages (including mergers/acquisitions)
  - Businesses are assigned a unique numeric identifier when they are loaded to the Longitudinal Database (LDB) that allows us to track them over time
The Many Uses of QCEW

**General Economic Uses**
- Gross Domestic Product (BEA)
- Personal Income (BEA)-- largest single input
- State Revenue Projections
- Economic Forecasting

**Programmatic Uses**
- UI Tax Rate & Actuarial Analysis
- Federal Funds Allocation
  $321 Billion
  (HUD, USDA, HCFA/CHIP)
- UI-Covered Employment
- Local Area Unemployment
- Social Security Administration

**Benchmarking**
- (Employment Base)

**Sampling**
- Consumer Price Index
- Occupational Employment Statistics
- Occupational Safety and Health Statistics
- Job Openings & Labor Turnover Survey
- Industrial Price Program
- National Compensation Survey
- Occupational Requirements Survey

**Other Agencies and States**
- Energy Information Administration (EIA)
- NAWS/DOL
- NASS: Rural Innovation Survey
- States: Job Vacancies, Green Jobs Wage and Benefits Surveys

**Census Bureau**
- LEHD: QCEW is essential matching key and source of geography and industry and link to other datasets, and employment
- Business Register: Sharing to reduce costs, burden and improve consistency
- Industry Code Sharing (3 M/year)
- COS: Multi-unit sharing - reduces cost and improves consistency
- CPS Redesign: QCEW used after decennial Census to improve sample design

**State and Local Government**
- Services Planning
- Transportation planning
- Emergency planning

**Economic Development Indicators**
- Cluster Analysis
- Shift Share
- Industry Diversity Indexes
- Location Quotients
- Local Impact analysis
- Site planning decisions

**BLS Publications**
- County Employment and Wages
  - Quarterly Release: County by detailed NAICS
  - Annual Employment and Wages
  - Special publications
  - Hurricane maps

**Business Employment Dynamics**
- Job Creation/Destruction
- Quarterly and Annual
- Size Class Dynamics
- Firm and establishment births/deaths-- Survival Rates

**Monthly Labor Review Articles**
- Spotlight on Statistics
- The Economics Daily

**The Economics Daily**
- Federal Funds Allocation
  $321 Billion
  (HUD, USDA, HCFA/CHIP)
One BLS Program—many outputs
# QCEW News Release Dates

<table>
<thead>
<tr>
<th>Reference Period</th>
<th>News Release</th>
<th>Data Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Quarter 2019</td>
<td>November 20, 2019</td>
<td>December 4, 2019</td>
</tr>
<tr>
<td>Third Quarter 2019</td>
<td>February, 19, 2020*</td>
<td>March 4, 2020*</td>
</tr>
<tr>
<td>Fourth Quarter 2019</td>
<td>May 20, 2020*</td>
<td>June 3, 2020*</td>
</tr>
<tr>
<td>First Quarter 2020</td>
<td>August 19, 2020*</td>
<td>September 2, 2020*</td>
</tr>
<tr>
<td>Second Quarter 2020</td>
<td>November 18, 2020*</td>
<td>December 2, 2020*</td>
</tr>
</tbody>
</table>

*Projected. Dates may change after review by the BLS Office of Publications and Special Studies.*
## BED News Release Dates

<table>
<thead>
<tr>
<th>Reference Period</th>
<th>News &amp; Data Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Quarter 2019</td>
<td>October 30, 2019</td>
</tr>
<tr>
<td>Second Quarter 2019</td>
<td>January 29, 2020*</td>
</tr>
<tr>
<td>Third Quarter 2019</td>
<td>April 29, 2020*</td>
</tr>
<tr>
<td>Fourth Quarter 2019</td>
<td>July 29, 2020*</td>
</tr>
</tbody>
</table>

*Projected. Dates may change after review by the BLS Office of Publications and Special Studies.*
But wait— there’s more!
Research Data:
Foreign Direct Investment (FDI)
“Matching” Project

- Matching project of benchmark year 2012 BEA Foreign Direct Investment in the U.S. and 2012 QCEW data
  - Results in expanded industry and geographic detail
  - Potential for more timely FDI employment and wage estimates
  - No additional respondent burden
Highlights

Companies with foreign ownership:

- Employ 5.52 million workers
  - 5.0% of the workforce
- Pay on average $74,953 a year
  - About 1½ times better
Industries with the highest share of overall FDI employment
Europe accounts for most FDI employment

*Seven world regions as defined by BEA*

<table>
<thead>
<tr>
<th>Region</th>
<th>Employment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>3,499,043</td>
<td>63%</td>
</tr>
<tr>
<td>6</td>
<td>935,608</td>
<td>17%</td>
</tr>
<tr>
<td>5</td>
<td>671,036</td>
<td>12%</td>
</tr>
<tr>
<td>4</td>
<td>269,749</td>
<td>5%</td>
</tr>
<tr>
<td>3</td>
<td>80,762</td>
<td>1%</td>
</tr>
<tr>
<td>2</td>
<td>56,971</td>
<td>1%</td>
</tr>
<tr>
<td>1</td>
<td>4,033</td>
<td>0%</td>
</tr>
</tbody>
</table>

Total employment attributed to companies with foreign ownership: 5,517,202
Top 5 countries with highest level of . . .

. . . total private employment in companies with foreign ownership

- United Kingdom: 873,635
- Canada: 671,036
- Japan: 664,211
- Germany: 605,244
- France: 444,328

. . . manufacturing employment in companies with foreign ownership

- Japan: 288,409
- Germany: 174,631
- Canada: 161,563
- United Kingdom: 161,241
- Switzerland: 115,276
The East and South have a greater share of employment by companies with foreign ownership.

Distribution of states:
- up to 2.5% (2 states)
- 2.5 - 5.0% (25 states)
- 5.0 - 7.5% (23 states)
- 7.5 - 10.0% (1 state)
A county-level view of employment share

Distribution of counties
3,142 U.S. counties
- up to 2.5%
  128 counties
- 2.5 - 5.0%
  294 counties
- 5.0 - 7.5%
  169 counties
- 7.5 - 10.0%
  68 counties
- greater than 10.0%
  47 counties
No publishable data
2,436 counties
Ten largest counties in terms of . . .

. . . the highest *level* of employment in companies with foreign ownership

<table>
<thead>
<tr>
<th>Rank</th>
<th>Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>49,492</td>
</tr>
<tr>
<td>2</td>
<td>51,288</td>
</tr>
<tr>
<td>3</td>
<td>61,207</td>
</tr>
<tr>
<td>4</td>
<td>63,727</td>
</tr>
<tr>
<td>5</td>
<td>65,624</td>
</tr>
<tr>
<td>6</td>
<td>73,012</td>
</tr>
<tr>
<td>7</td>
<td>108,941</td>
</tr>
<tr>
<td>8</td>
<td>133,982</td>
</tr>
<tr>
<td>9</td>
<td>147,852</td>
</tr>
<tr>
<td>10</td>
<td>175,100</td>
</tr>
</tbody>
</table>

. . . the highest *share* of employment in companies with foreign ownership

<table>
<thead>
<tr>
<th>Rank</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17%</td>
</tr>
<tr>
<td>2</td>
<td>20%</td>
</tr>
<tr>
<td>3</td>
<td>20%</td>
</tr>
<tr>
<td>4</td>
<td>20%</td>
</tr>
<tr>
<td>5</td>
<td>21%</td>
</tr>
<tr>
<td>6</td>
<td>22%</td>
</tr>
<tr>
<td>7</td>
<td>22%</td>
</tr>
<tr>
<td>8</td>
<td>29%</td>
</tr>
<tr>
<td>9</td>
<td>34%</td>
</tr>
<tr>
<td>10</td>
<td>40%</td>
</tr>
</tbody>
</table>
Research Data:
Nonprofit Sector
Highlights

Nonprofits (501 c 3s):

• Employ 12.5 million workers
  - 10.2% of the workforce
  - $670 billion in total annual wages
• Pay on average $53,667 a year
• Health Care and Social Assistance industry accounted for about 67 percent of all 501(c)(3) nonprofit employment.
Employment in nonprofits grew at a steady rate
Share of Nonprofit Employment by State in 2017

Percent of Employment Attributed to Nonprofits

- 0 - 5%
- 5 - 10%
- 10 - 15%
- 15% and above

Nationally 10.2%

Highest
- Washington, DC 25.6%
- Vermont 19.1%
- Maine 18.1%

Lowest
- Nevada 2.8%
- Alabama 5.1%
- Texas 5.1%
County-Level Share of Nonprofit Employment in 2017

Percent of Employment Attributed to Nonprofits

- 0 - 5%
- 5 - 10%
- 10 - 15%
- 15% and above

Distribution of publishable counties

- Up to 5.0%
  331 counties
- 5.0 - 10.0%
  562 counties
- 10.0 - 15.0%
  430 counties
- Greater than 15.0%
  352 counties
Show me the Data!

Nonprofit Data: https://www.bls.gov/bdm/nonprofits/nonprofits.htm

Foreign Direct Investment: https://www.bls.gov/fdi/