National Quarterly Workforce Indicators

June 22, 2015
Motivation

- QWI a unique source integrating many of the different measures that are of interest in labor market analysis, from the *same source* data
- Example: Gross work and job flows are difficult to measure on a consistent basis without fully integrated micro-data at the job (employer-employee link) level
- Gross flows are very heterogeneous even within very detailed industry, geography, establishment size, ... or demographic group
The Problem
National QWI

- Initially developed at Cornell University
  - Based on public-use data only
  - Aggregation algorithm published
- Integration into LEHD led by Lars Vilhuber and Camille Norwood
Availability
Official LEHD version

- Conforming to QWI V4.x data schema
  - All current QWI variables, identical names
  - Conforming file naming conventions
  - Soon: Accessible through QWI Explorer, LED Extraction tool
- Currently available on LEHD data page

http://go.usa.gov/3EDUG
# Cross-tabulations

<table>
<thead>
<tr>
<th>Industry</th>
<th>Demographics</th>
<th>Firm age/ size</th>
<th>Owner-ship</th>
<th>Latest or planned beta Release</th>
<th>Current or Planned production release</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAICS Sector</td>
<td>SA, SE</td>
<td>F</td>
<td>P</td>
<td>R2015 Q1</td>
<td>R2015Q3</td>
</tr>
<tr>
<td>NAICS Sector</td>
<td>RH</td>
<td>F</td>
<td>P</td>
<td>R2015 Q2</td>
<td>R2015Q3</td>
</tr>
<tr>
<td>NAICS Sector</td>
<td>SA, SE, RH</td>
<td>FA, FS</td>
<td>P</td>
<td>R2015 Q3</td>
<td>R2015Q4</td>
</tr>
<tr>
<td>NAICS (3-digit)</td>
<td>SA, SE, RH</td>
<td>F,FA, FS</td>
<td>P</td>
<td>R2015 Q3</td>
<td>R2015Q4</td>
</tr>
<tr>
<td>all</td>
<td>SA, SE, RH</td>
<td>FA, FS</td>
<td>LSP</td>
<td>R2015 Q4</td>
<td>R2016Q1</td>
</tr>
</tbody>
</table>
Samples
New features
New features

• QWI in rates instead of levels (e.g. Hiring rate instead of Count of Hires)
• Variability measures
  • Standard errors
  • And a few additional measures
    • (see http://go.usa.gov/3EDUG for info)
• Formalized schema
  • Machine-readable definitions of all metadata in central location
End-of-quarter hiring rate for men 35-44

Data series pre-computed as a rate

Easy to compute confidence bands

United States Census Bureau
U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov
Schema documentation
http://lehd.ces.census.gov/data/schema/v4.1b-draft/lehd_public_use_schema.html
Thank you

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