

Many Eyes on Local Employment Dynamics

Local Employment Dynamics

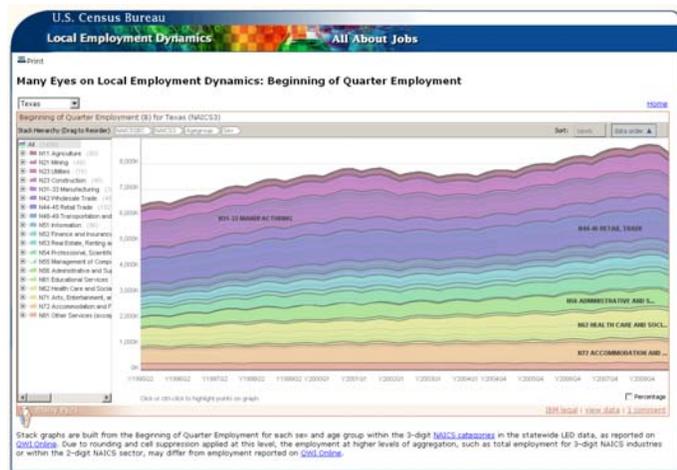
All About Jobs

“Data Visualization” is an increasingly common term referring to the web-based communications of large amount of information clearly and effectively through inter-related maps and graphics.

[OnTheMap](#) is an example of how potential commuting patterns for about 150 million American workers traveling between 8 million census blocks of origin and 8 million blocks of destination may be visualized under the direct control of a novice data user.

Many Eyes is an IBM public use research project for which a number of interactive tools have been developed to encourage sharing and conversation around visualizations. The Many Eyes website is located at <http://manyeyes.alphaworks.ibm.com/manyeyes/>.

The Local Employment Dynamics (LED) Partnership continues to strive for innovation in information delivery and has deployed one of the Many Eyes tools (Stack Graph) as a pilot to visualize one of its Quarterly Workforce Indicators (QWI). The indicator – Employment at the Beginning of Quarter¹ – is shown for a combination of 47 states, 19 2-digit industry sectors according to the North American Industry Classification System (NAICS), 90 3-digit NAICS industry subsectors, 8 worker age groups, 2 worker genders, and up to 20 years of quarterly time series data. The user may reorder the hierarchy of the Stack Graph by simple mouse drags.



There are between 1,408 and 1,456 Stack Graphs on employment for each state or a total of over 68,000 for 47 states; there is the same number of graphs for percentages of employment.

This innovative pilot application may be accessed, free of charge, at http://lehd-test.did.census.gov/ManyEyes/2009Q1/ManyEyes_3Naics.php.

The Stack Graph displays only one of 30 QWIs and is not currently integrated with other indicators or applications. The intent of this pilot is to demonstrate another of LED’s data visualization technique (in addition to OnTheMap) and to stimulate insight and discussion for additional development of future LED information delivery.

Public release of the Many Eyes pilot is scheduled for the 2010 annual workshop on March 10-12. Comments about the Many Eyes pilot should be sent to CES.Local.Employment.Dynamis@census.gov.

¹ Stack Graphs are built from the Beginning of Quarter Employment for each sex and age group within the 3-digit NAICS categories in the statewide LED data, as reported on *QWI Online*. Due to rounding and cell suppression applied at this level, the employment at higher levels of aggregation, such as total employment for 3-digit NAICS industries or within the 2-digit NAICS sector, may differ from employment reported on *QWI Online*.