

Local Employment Dynamics

The Keys to Unlocking Powerful Labor-Force Information



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Longitudinal Employer-Household Dynamics Program

Center for Economic Studies

U.S. Census Bureau

Overview

- Basic summary of LED Partnership and LEHD program
- Hands-on demonstrations of data tools for accessing the QWI: LED Extraction Tool and QWI Explorer
- Hands-on demonstration of OnTheMap and the OnTheMap for Emergency Management Applications

LED vs. LEHD

- LED: Local Employment Dynamics
 - Partnership between Census and States
 - Begun in late 1990s with a few states – now 53 partner states/territories
 - States voluntarily submit quarterly data (UI Wage Records and QCEW reports)
- LEHD: Local Employer-Household Dynamics
 - Census processes and develops public use products
 - 3 data products
 - 4 web-based data tools

LEHD Processing: Merging Data

Quarterly Census of Employment and Wages (QCEW)

Employer and Establishment (Single/Multi-unit)

Geography Industry Ownership

UI Account Number (SEIN)

Business Dynamics Statistics (BDS)

Firm age and size

Unemployment Insurance Earnings Records

Employer-Worker
(most states)
OR
Establishment-Worker
(Minnesota only)

Earnings Job history

PIK (encoded SSN)

Census, Surveys, Other Administrative Records

Demographics
Place of Residence

Here's a Story...



Data Products

- **Quarterly Workforce Indicators (QWI)**
 - Employment, Job Creation, Job Destruction, Hires, Separations, Turnover, Earnings
 - By industry, county, and worker characteristics
- **LEHD Origin Destination Employment Statistics (LODES)**
 - Employment and Workplace-Residence Connections
 - Detailed geography + firm/worker characteristics
 - Broken in three categories
 - Origin Destination
 - Residential Area Characteristics
 - Worker Area Characteristics
- **Job-to-Job Flows (Beta)**
 - Job-to-Job Flows (J2J) is a new set of statistics on worker reallocation in the United States. It provides data on worker flows resulting from job change as well as hires and separation from and to persistent nonemployment spells. Also included in the new statistics are origin-destination data on workers changing jobs

Data Tools

LED Extraction Tool

LED Extraction Tool - Quarterly Workforce Indicators (QWI)

1. Geography | 2. Firm Characteristics | 3. Worker Characteristics | 4. Indicators | 5. Quarters | 6. Summary and Export

State: District of Columbia (Counties 1, Metro/Metropolitan Areas: 2, Workforce Investment Areas: 1)

Search: Geography Type: Areas

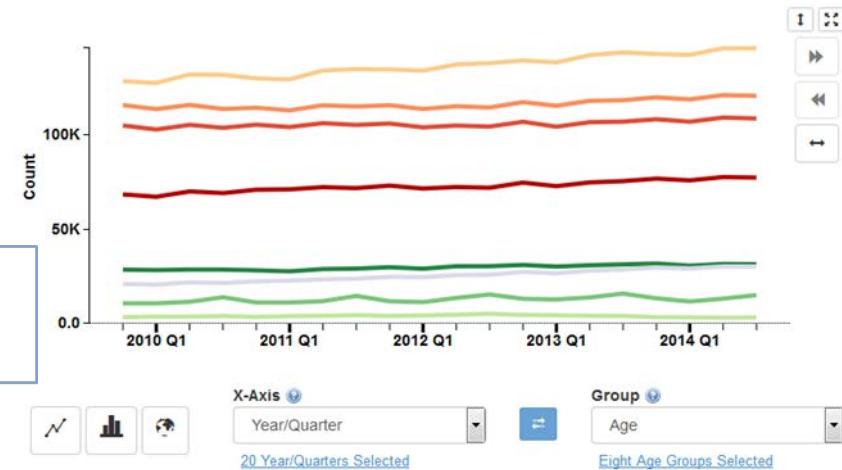
States: Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming

Counties: 11 District of Columbia, 1147900 Washington-Arlington-Alexandria, DC-VA-MD-WV (DC part), 1159995 Nonmetropolitan, nonmicropolitan

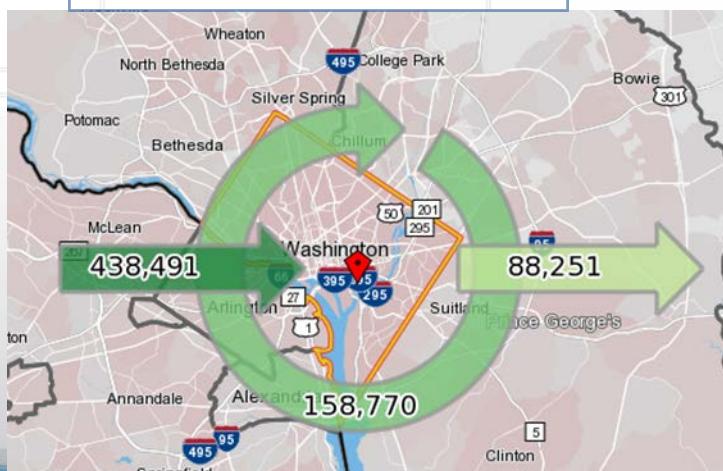
Metropolitan Areas: 1

Workforce Investment Areas: 1

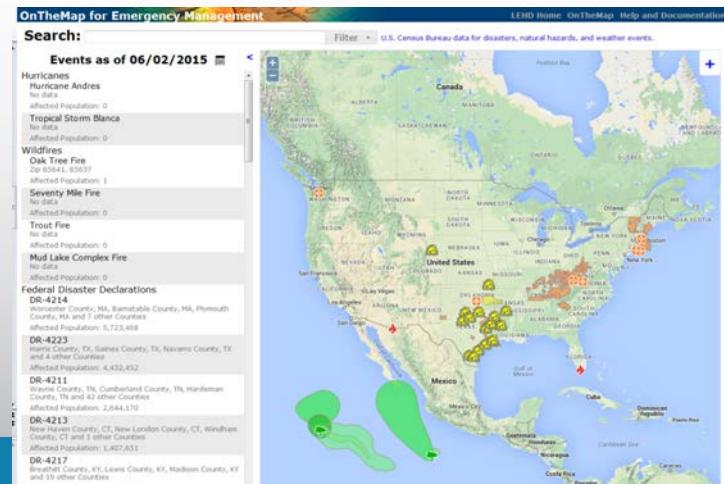
QWI Explorer



OnTheMap



OnTheMap for Emergency Management



Who Uses Our Data Tools?

- Transportation Planners
- Policy Makers
- City Planners
- State Planners
- Economists
- Emergency Management Professionals

LED Extraction Tool

LED Extraction Tool - Quarterly Workforce Indicators (QWI)

1. Geography | 2. Firm Characteristics | 3. Worker Characteristics | 4. Indicators | 5. Quarters | 6. Summary and Export

State

Search:

Alabama
Alaska
Arizona
Arkansas
California
Colorado
Connecticut

District of Columbia
Florida
Georgia
Hawaii
Idaho
Illinois
Indiana
Iowa
Kansas
Kentucky
Louisiana
Maine
Maryland
Michigan
Minnesota

Connecticut
Counties: 8, Metro/Metropolitan Areas: 7, Workforce Investment Areas: 5

Geography Type **Areas**

Search:

Check All | Check None |

States
Counties
Metro/Metropolitan Areas

Workforce Investment Areas

09 Connecticut
0914860 Bridgeport-Stamford-New Haven, CT
0925540 Hartford-West Hartford-East Hartford, CT
0935300 New Haven-Milford, CT
0935980 Norwich-New London, CT
0945860 Tinton, CT
0949340 Worcester, MA-CT (CT part)
0999999 Nonmetropolitan, nonmicropolitan

LED Extraction Tool - Quarterly Workforce Indicators (QWI)

1. Geography | 2. Firm Characteristics | 3. Worker Characteristics | 4. Indicators | 5. Quarters | 6. Summary and Export

Estimated Results Size

Number of Rows: 2,000
Size of CSV: 1 KB
Size of ZIP: Less than a Megabyte.
Run Time: Less than a Minute.

Request Progress

Your data request is complete. Access the Current results to the right.

Submission Waiting Processed 100% Finished

Additional Information

Basic QWI Information
[QWI Data Schema](#) 198k
[QWI 101](#) 203k

Comprehensive QWI Information
[Detailed QWI Definitions](#) 272k
[The LEHD Infrastructure Files and the Creation of the Quarterly Workforce Indicators document](#) 768k

Data Notices/Updates
[QWI Data Vintage Notices](#) 168k
[QWI Restructuring](#) 100k
[Firm Age/Size Release Notice](#) 95k

For more information, go to [LED Extraction Tool Help and Documentation](#).

Query Results

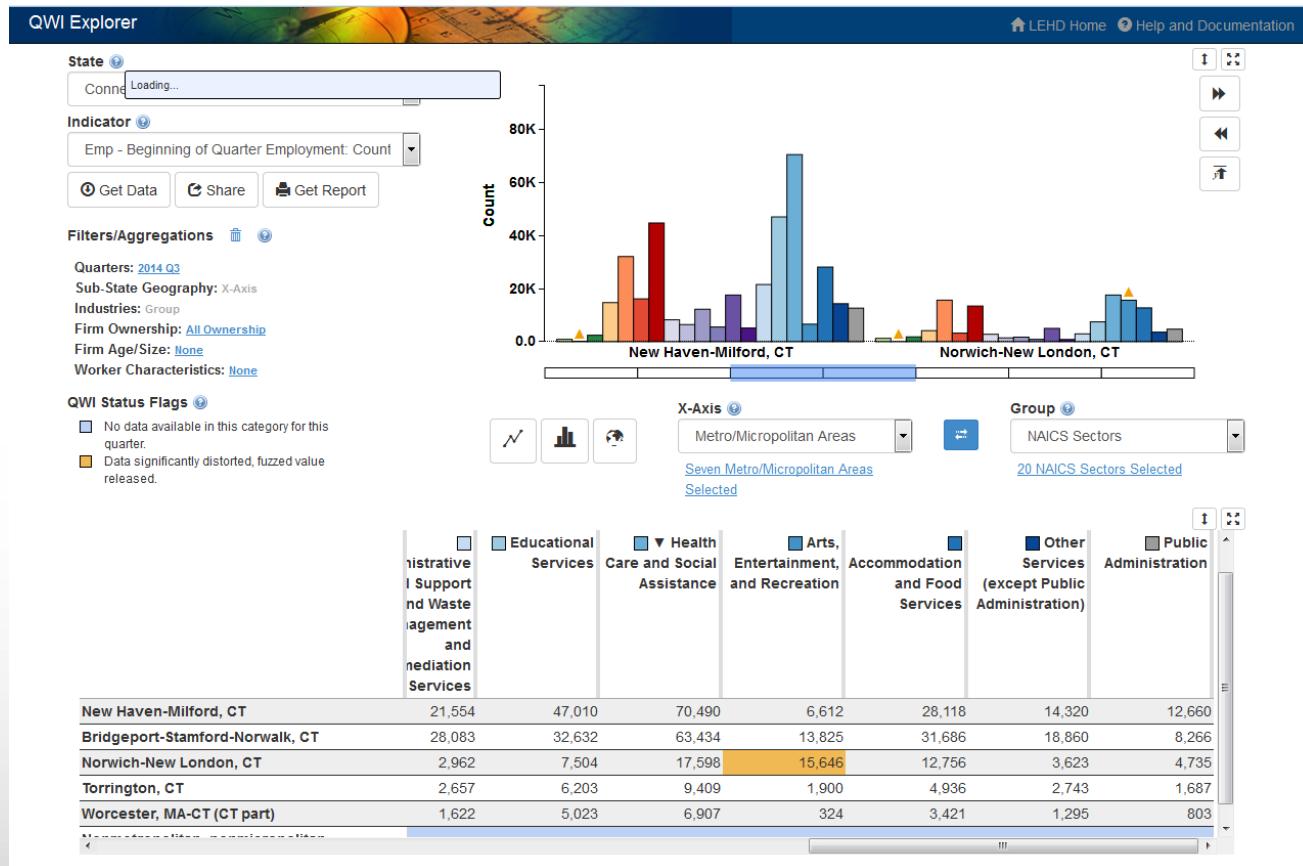
Current
 CT 7 Metro/Metrop. 21 Sectors, All, Sex/Age
 Rows returned: 2,793
 Uncompressed Size: Less than a Megabyte
 Download: [Excel Metadata \(ZIP\)](#) | [CSV & Metadata \(ZIP\)](#)

Previous

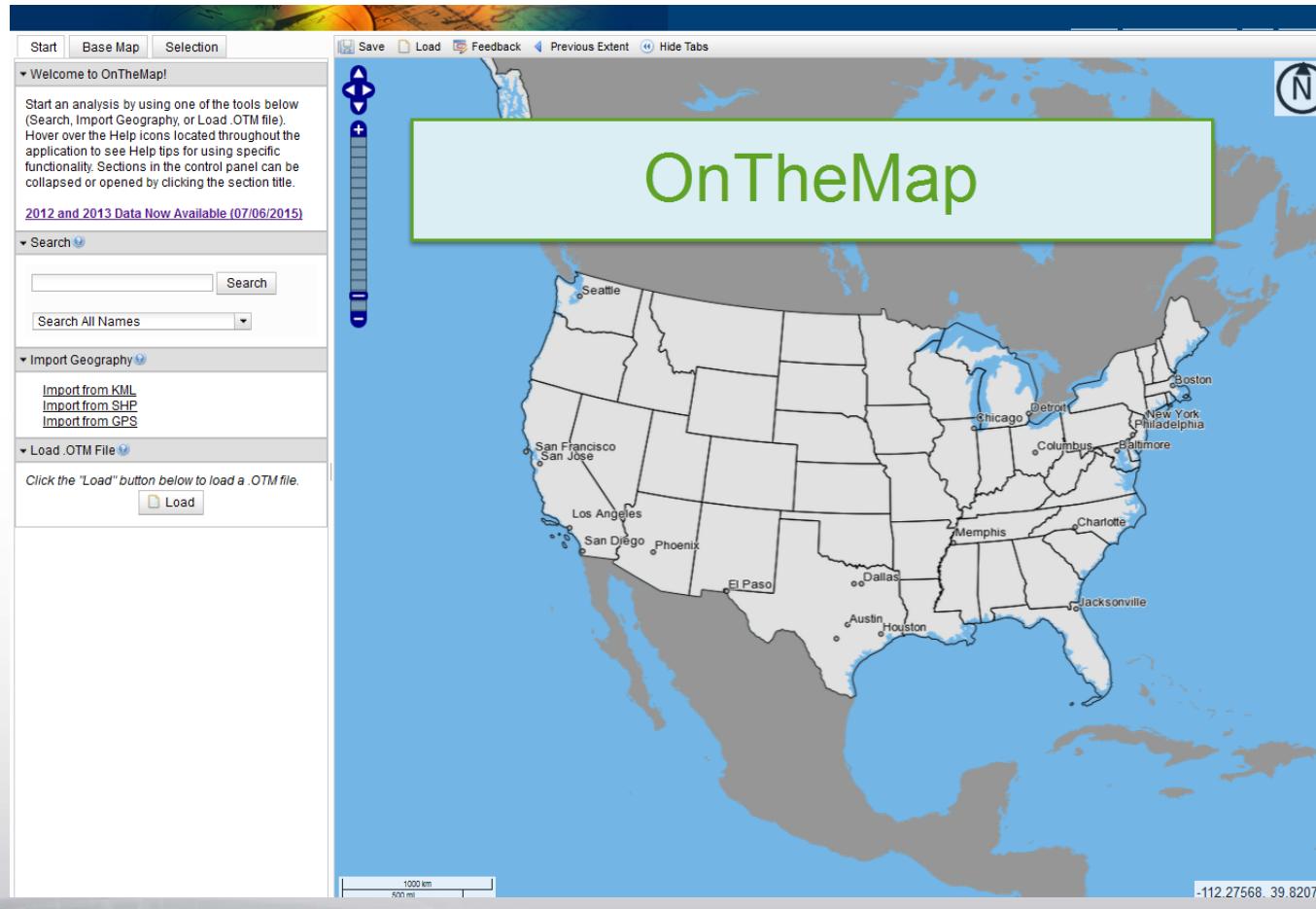
Current Request ID: e55d499c59e4495870f41132add3099

[Save Settings](#) [Return to Quarters](#)

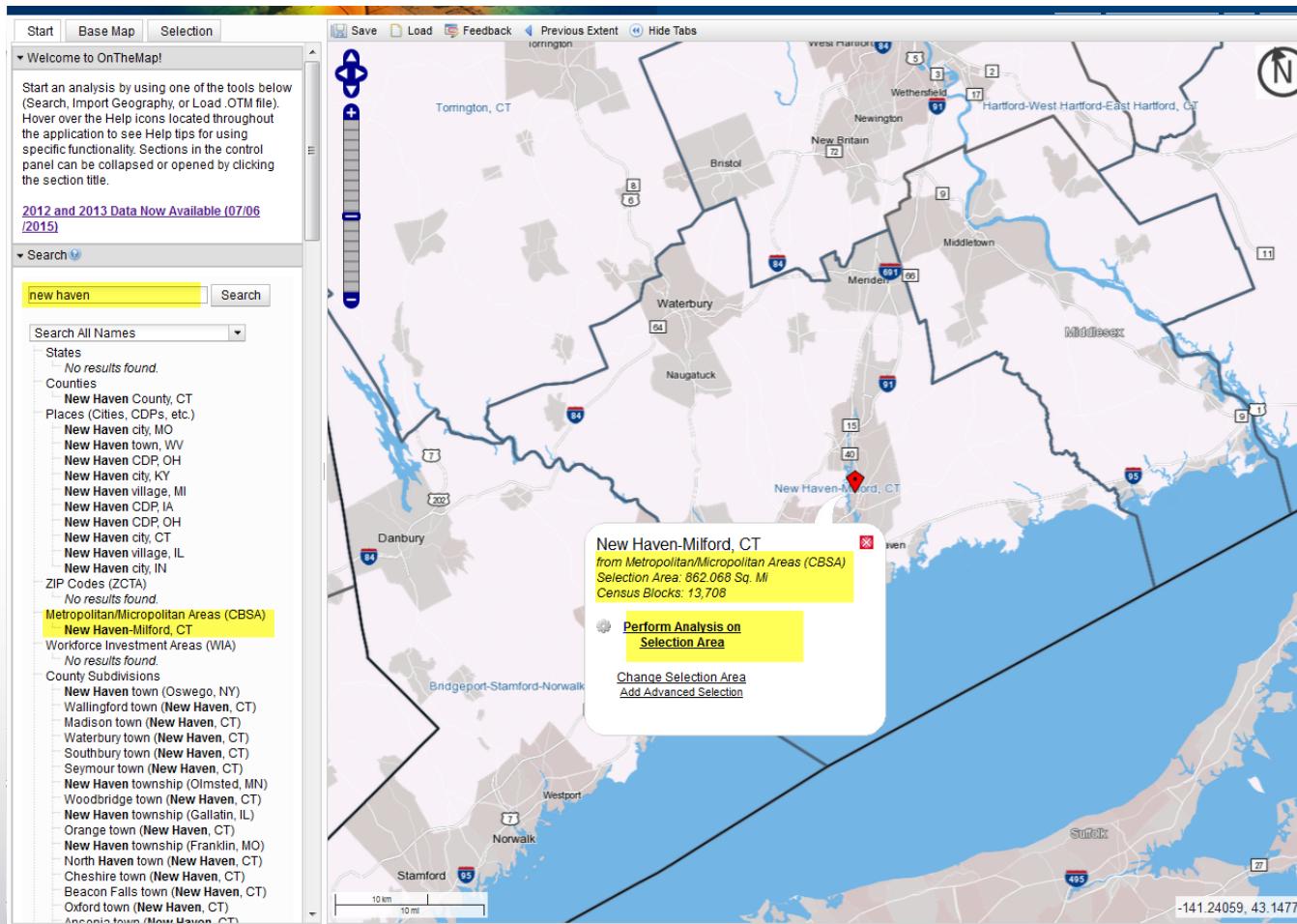
QWI Explorer



OnTheMap.ces.census.gov



Getting Started



Analysis Settings

Analysis Settings

Area Profile Analysis in 2013 by Primary Jobs

Home/Work Area

Determines whether the selection area is analyzed on where workers live ("Home") or where workers are employed ("Work").

- Home
- Work

Analysis Type

Determines the type of results that will be generated for the selected area.

Area Profile

Labor Market Segment:

All Workers

Area Comparison

Areas to Compare:

Places (Cities, CDPs, etc.)

Labor Market Segment:

All Workers

Distance/Direction

Destination

Destination Type:

Places (Cities, CDPs, etc.)

Inflow/Outflow

Note: Home/Work choice does not affect results

Year

Determines the year(s) of data that will be processed in the analysis.

- 2013
- 2012
- 2011
- 2010
- 2009
- 2008
- 2007
- 2006
- 2005
- 2004
- 2003
- 2002

Job Type

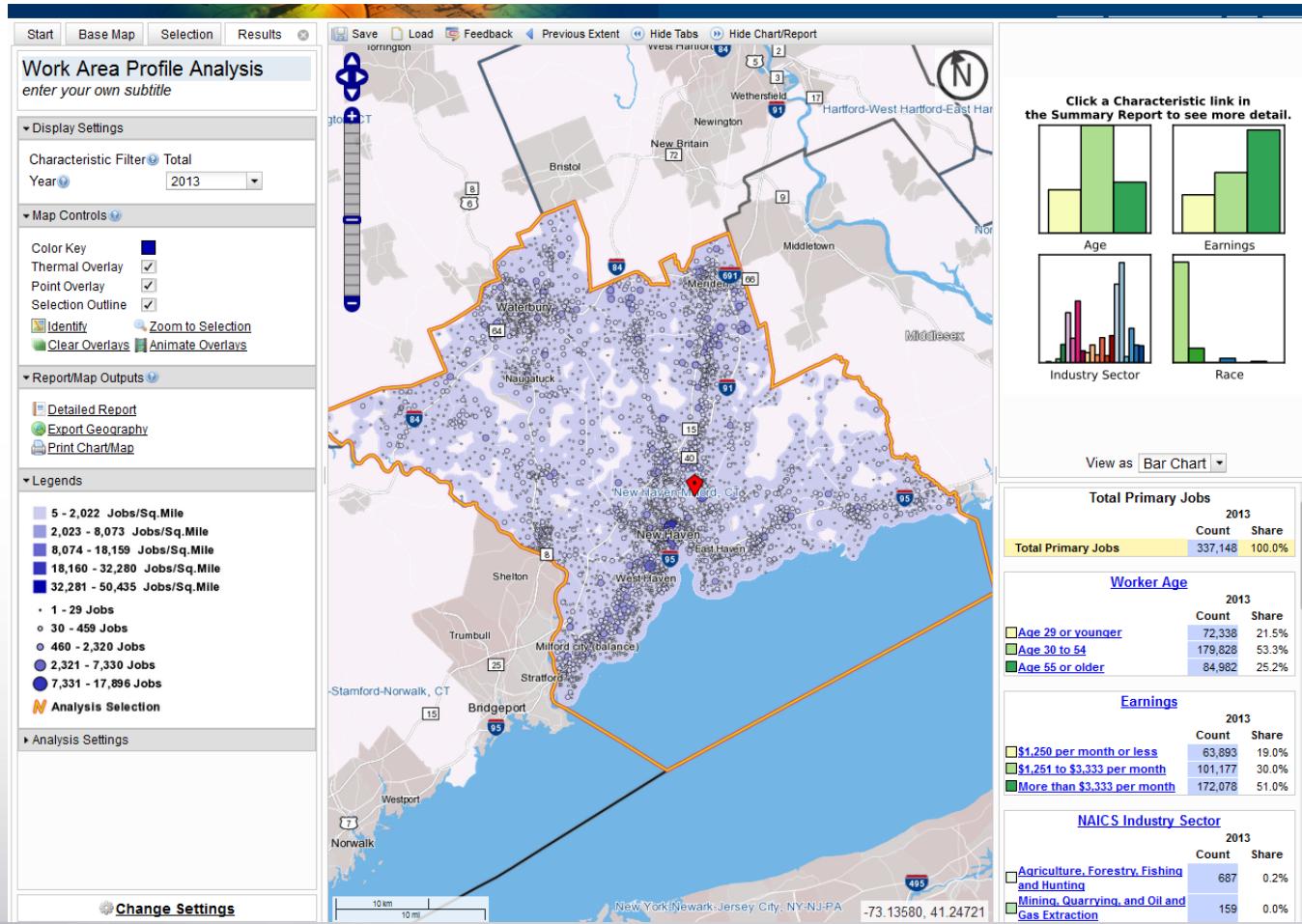
Determines the scope of jobs that will be processed in the analysis.

- All Jobs
- Primary Jobs
- All Private Jobs
- Private Primary Jobs

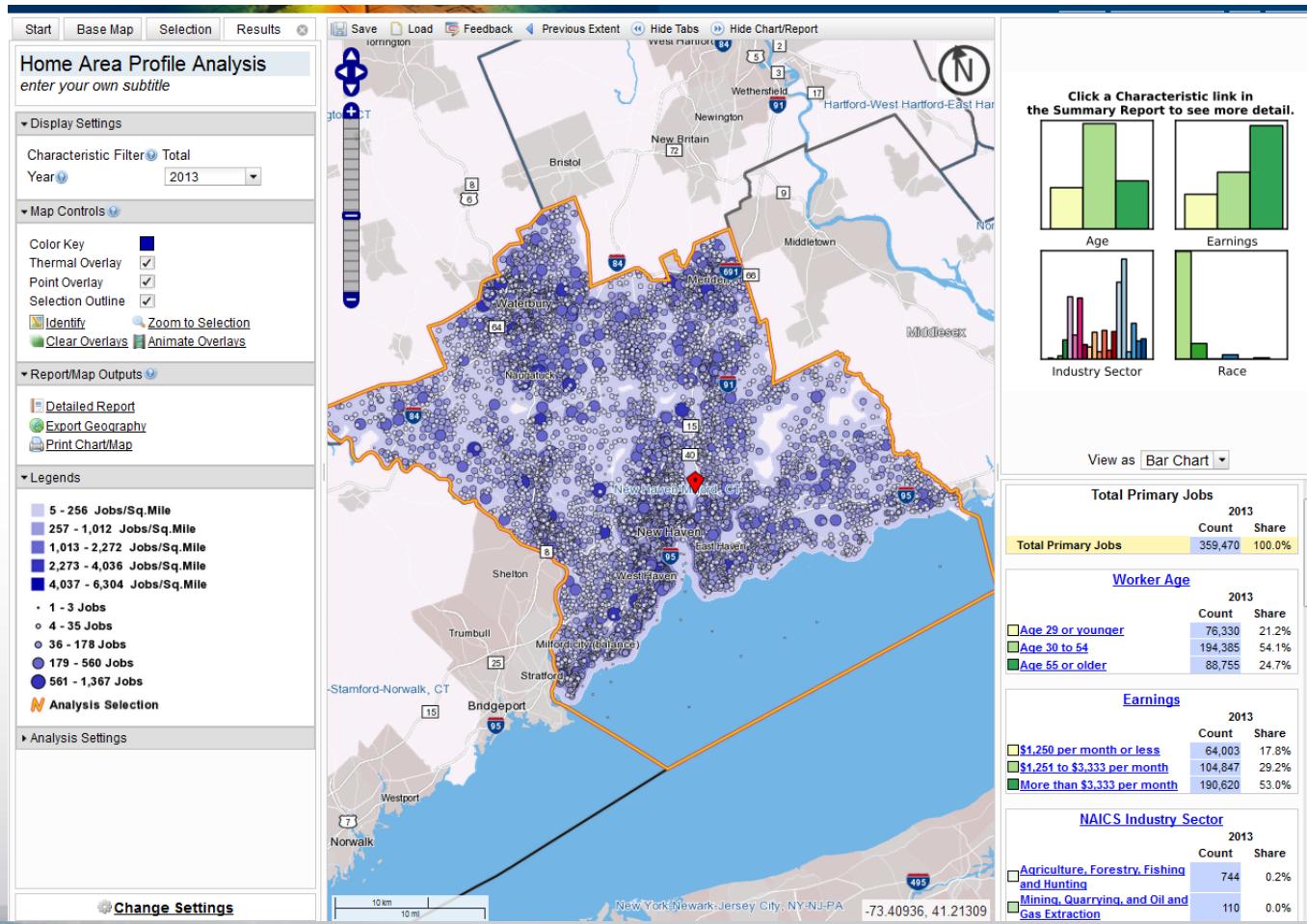
Cancel

Go!

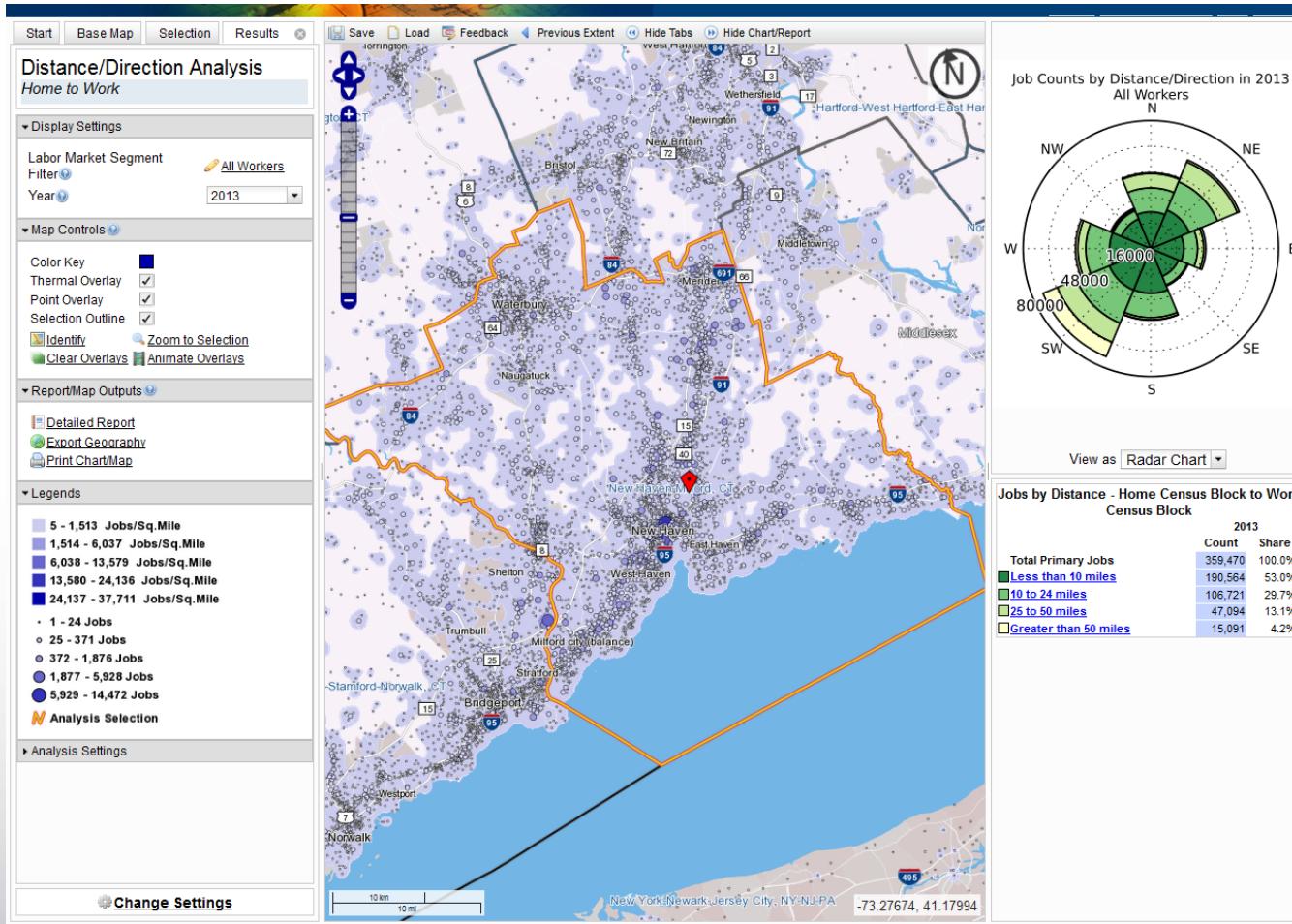
Results



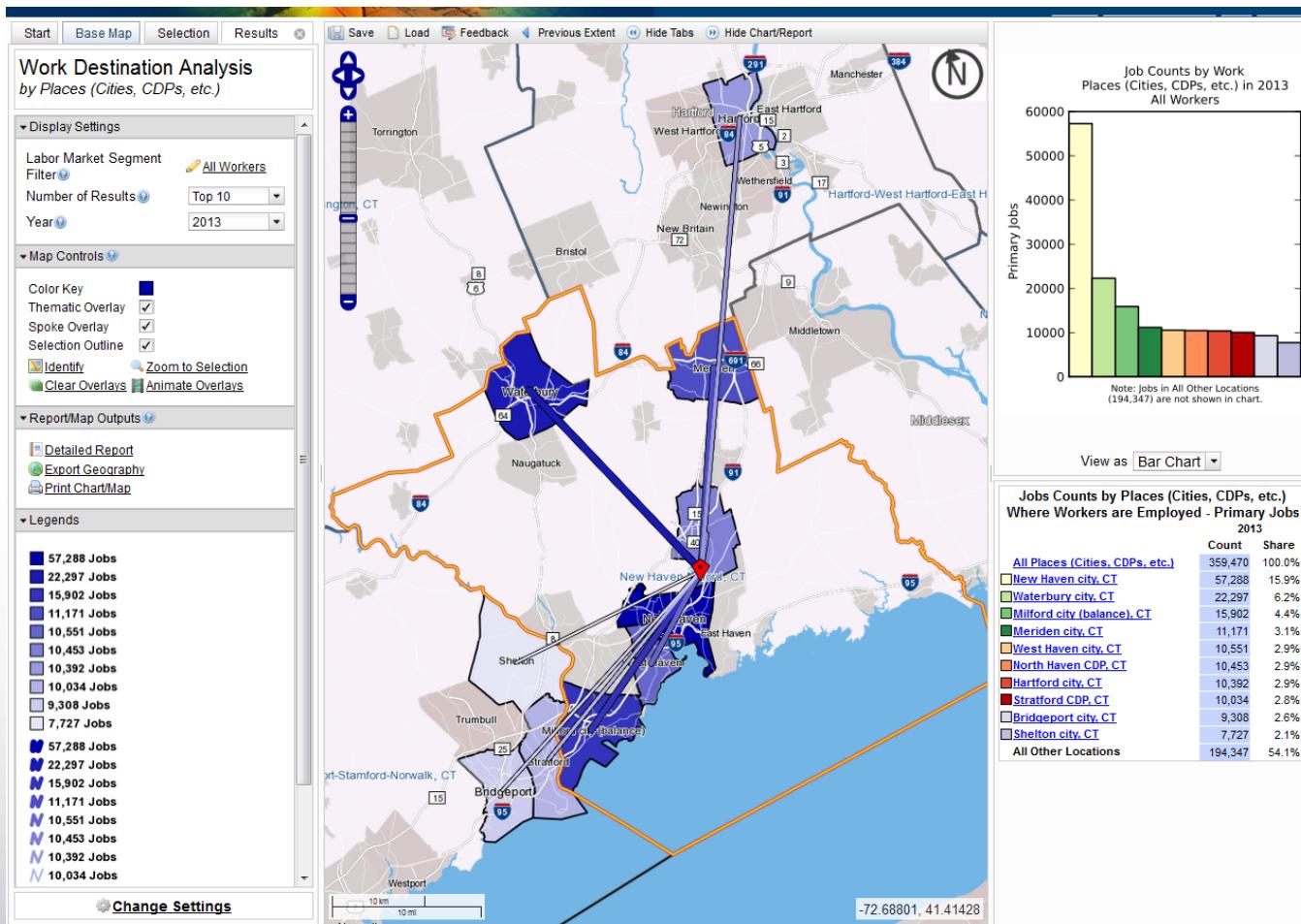
Home Area Comparison



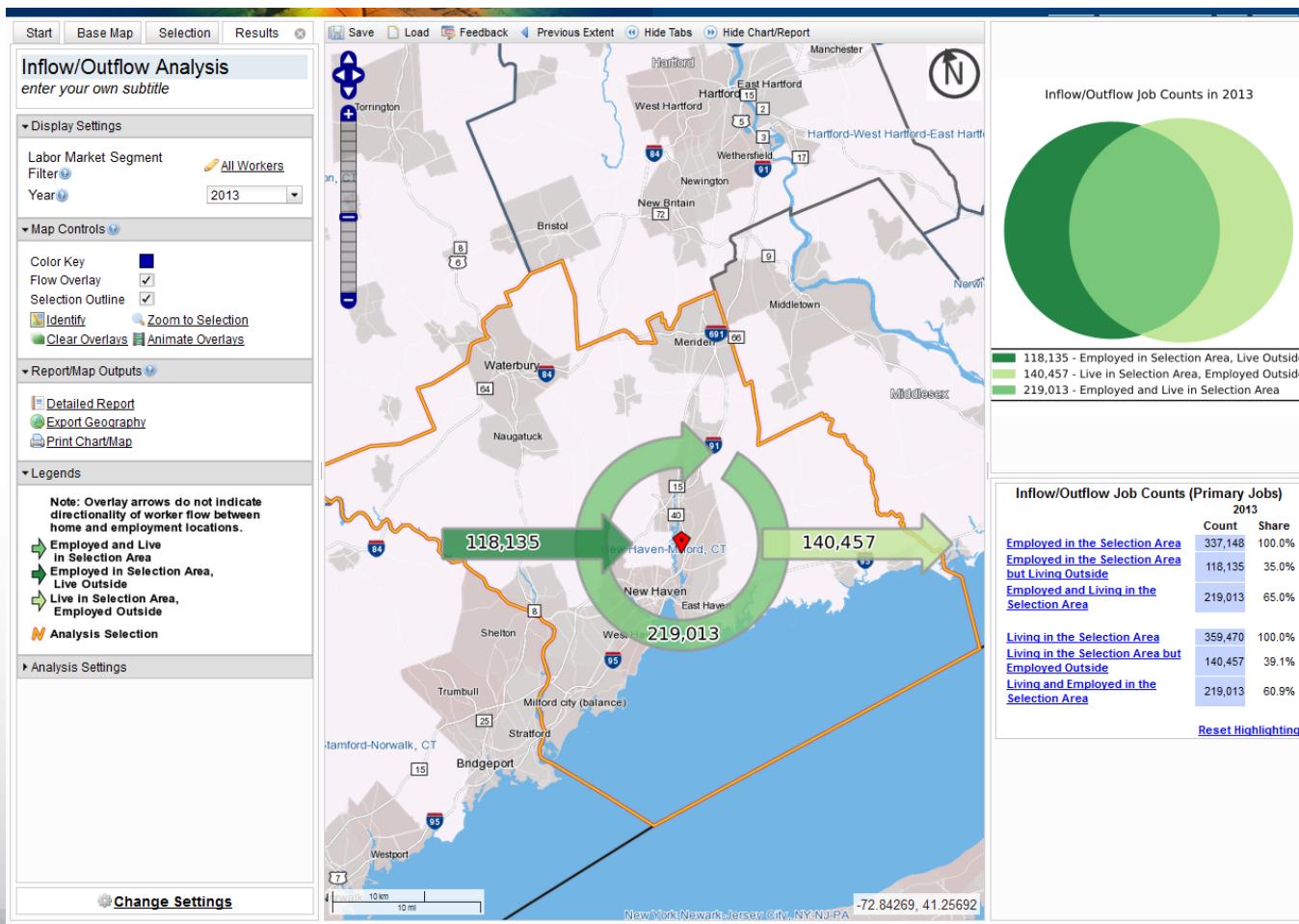
Distance/Direction



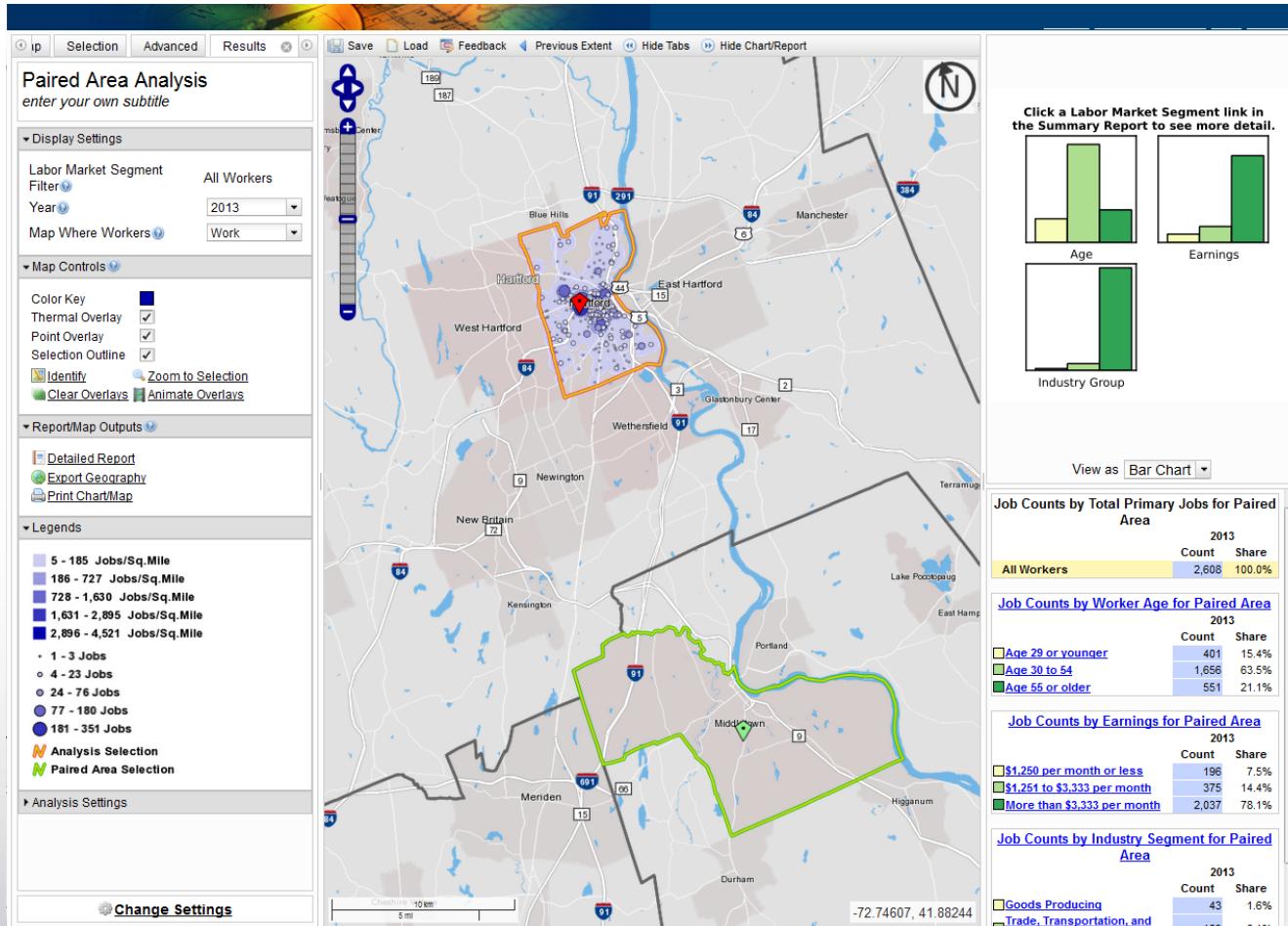
Destination



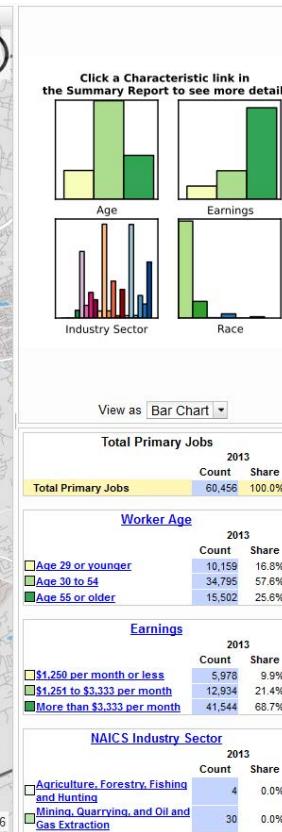
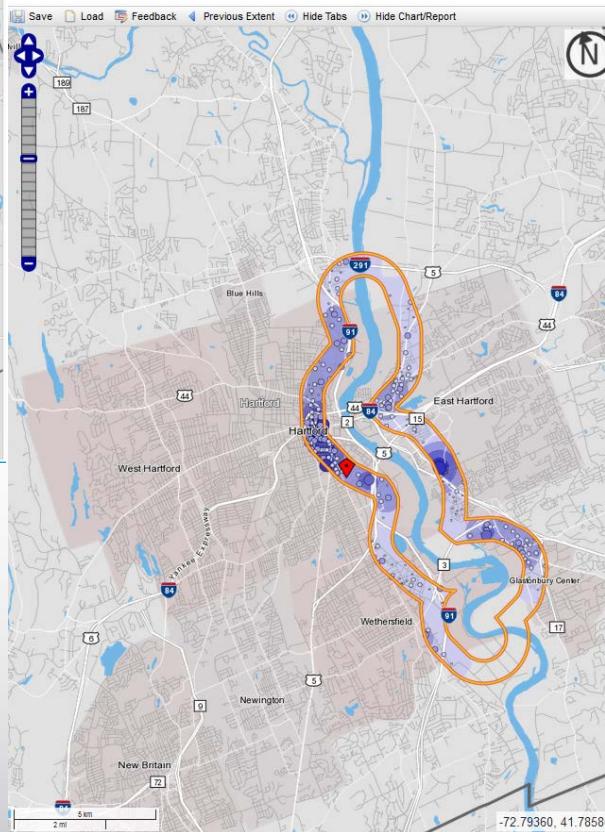
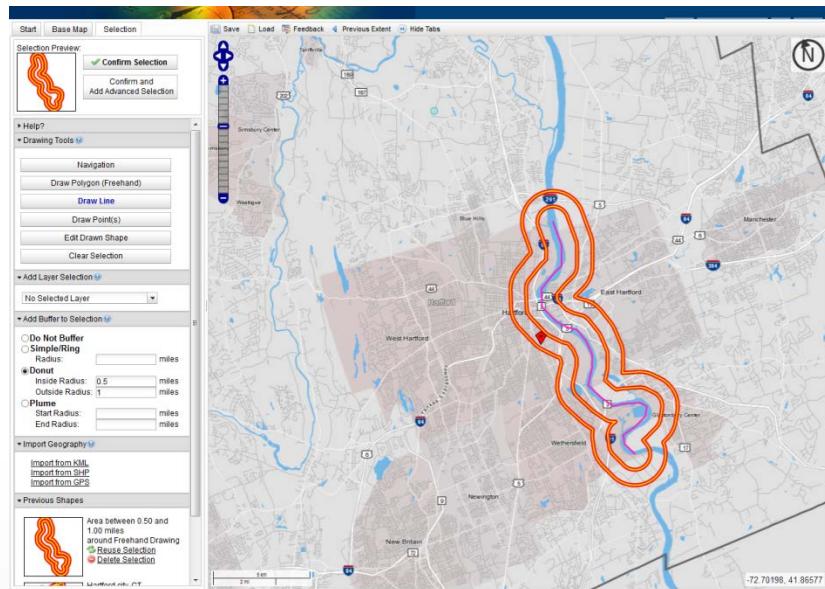
Inflow/Outflow



Paired Area Analysis



Selection Tab



OnTheMap for Emergency Management



Hurricanes, Floods,
Winter Storms



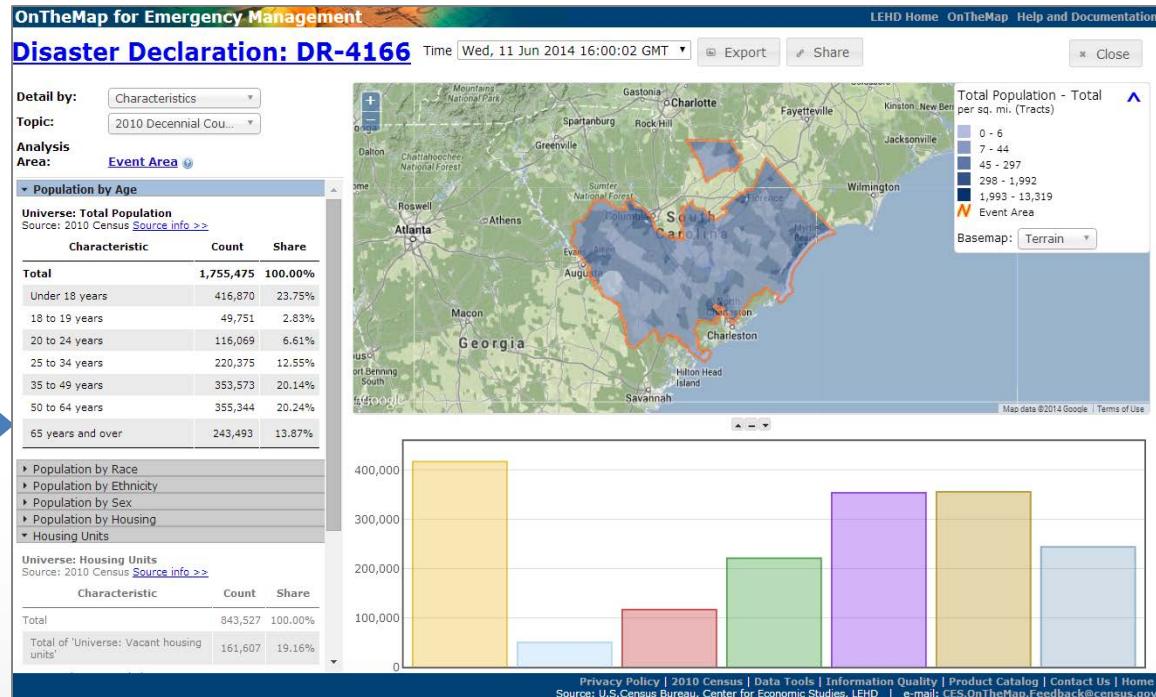
Disaster Areas



Wildfires



Demographic &
Economic Data

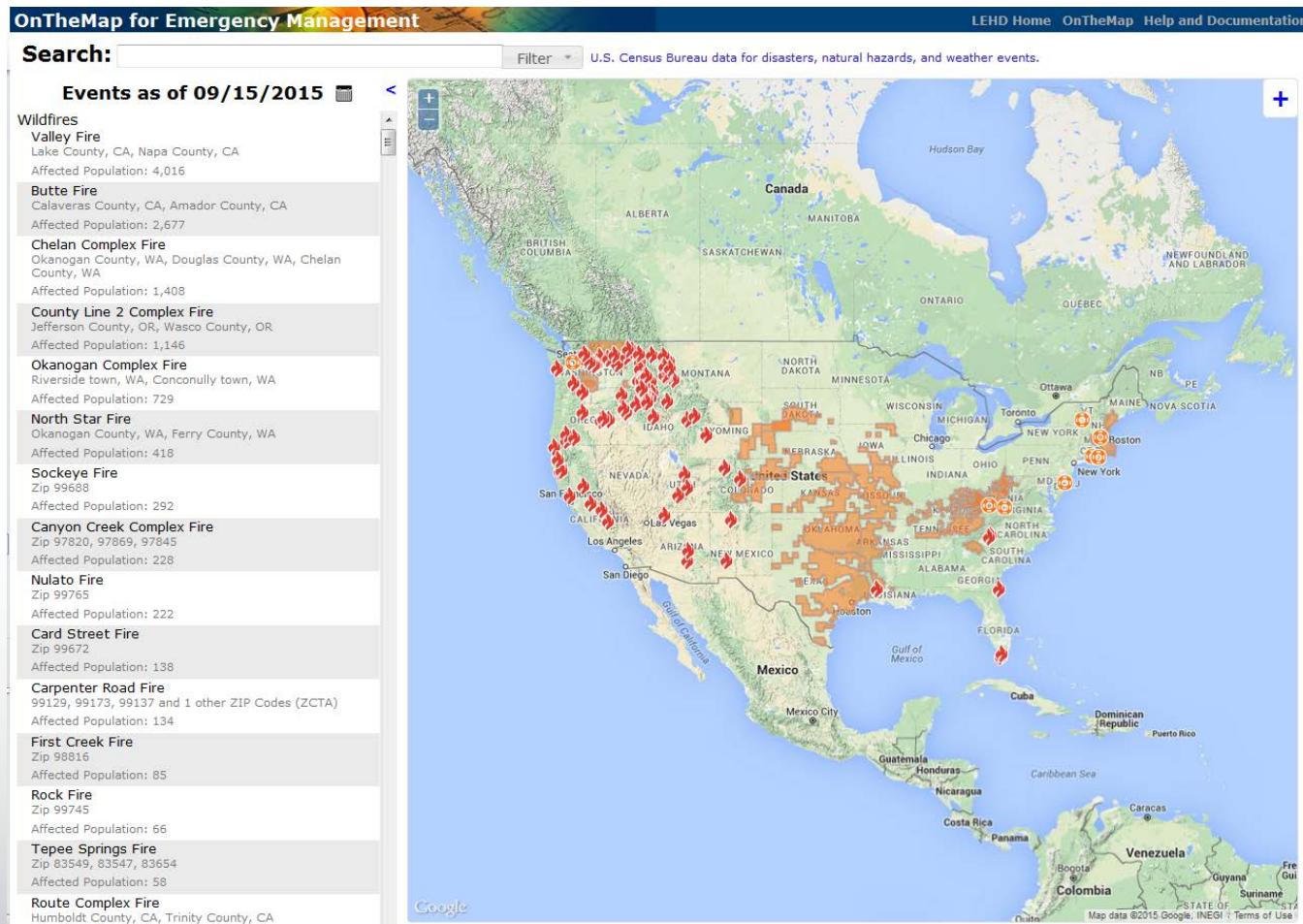


New Public Data Service for Emergency Preparedness & Response

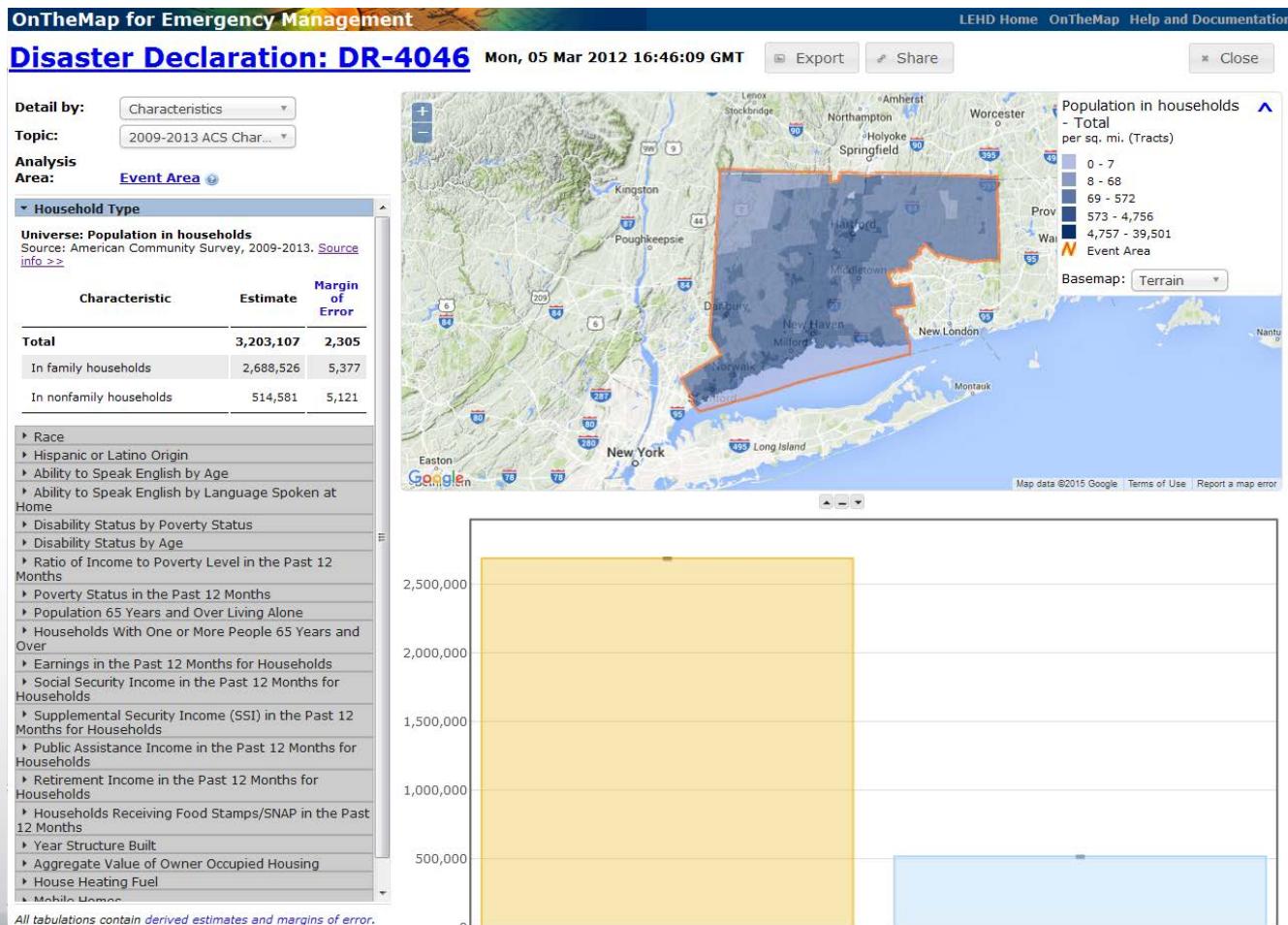
- Comprehensive Reports
- Real-time Data Updates
- Easy-to-use & Interoperable
- Historical Event Archive
- Flexible Analyses & Visualizations



<http://onthemap.ces.census.gov/em/>



Disaster Declaration: 4046



FEMA



FEMA

What are you looking for?



Plan, Prepare & Mitigate

Before, During & After a Disaster

Disaster Survivor Assistance

Apply for Assistance, Disaster Declarations

Response & Recovery

Tools, Teams, Individual & Public Assistance

Topics & Audiences

Grants, How to Help, Private Sector, Tribal

Blog, Newsroom, Videos & Photos

News Releases, Social Media, FEMA App

About FEMA

Offices, Careers, Employee Info, Policies, FAQs



Disaster Survivor Assistance > Disaster Declarations > Connecticut Severe Storm (DR-4046)

Follow FEMA:



[Disaster Declaration](#)

Connecticut Severe Storm (DR-4046)

Incident period: October 29, 2011 to October 30, 2011

Major Disaster Declaration declared on November 17, 2011

[Designated Areas](#)

[Disaster Federal Register Notices](#)

[FOIA Statistics](#)

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[Updates and Articles](#)

[Blog](#)

[News Releases](#)

Updates and Articles, Blogs, and News Releases

January 18, 2012

Updates

[Public Assistance Operations Continue](#)

Operations in Connecticut are progressing at a steady pace. As of today, 247 Requests for Public Assistance have been received and "kickoff" meetings began this week.

December 30, 2011

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Geographic Information



Google Earth



PDF of Map



FEMA Data Feeds

Import to OnTheMap

Use the following tools to import a shape as your selection.

Click the shapes on the map to select and unselect them or use as your selection.

Import from KML Import from SHP Import from GDB

Cancel Import

Zoom To Imported Shapes

Select All Points

Select All Lines

Select All Polygons

Clear Selection

Continue with Selected Features

Click the 'Load' button below to load a DTM file

Load DTM File

Start Base Map Selection

Selection Preview:

Confirm Selection

Confirm and Add Advanced Selection

Help?

Drawing Tools

Navigation

Draw Polygon (Freehand)

Draw Line

Draw Point(s)

Edit Shape

Clear Selection

Add Layer Selection

No Selected Layer

Add Buffer to Selection

Do Not Buffer

Simple/Ring

Radius: miles

Donut

Inside Radius: miles

Outside Radius: miles

Plume

Start Radius: miles

End Radius: miles

Import Geography

Import from KML

Import from SHP

Start Base Map Selection

Save Load Feedback Previous Extent Hide Tabs

Selection Area

Shape from dec_4046 km2

Selection Area 944 631 Sq. Mi

Census Blocks 6,640

Perform Analysis on Selection Area

Change Selection Area

Add Advanced Selection

Help and Documentation

You are here: [Census.gov](#) > [Business & Industry](#) > [Center for Economic Studies](#) > [Longitudinal Employer-Household Dynamics](#) > [Applications](#) > Help

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Longitudinal Employer-Household Dynamics

Main Applications Data Learn More Research State Partners Partner with Us

Applications

- QWI Explorer
- OnTheMap
- OnTheMap for Emergency Management
- LED Extraction Tool

Useful Links

- Center for Economic Studies
- QWI Data
- LODES Data
- LED Workshop

Contact Information

Email us:
CES.Local.Employment.Dynamics@census.gov

or

Call us at [\(301\) 763-8303](tel:(301)763-8303)

[Further contact information](#)

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OnTheMap Help and Documentation

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Analysis Guides

[Area Profile Analysis Guide](#) (805 KB) – Describes how to generate Area Profile Analysis results for workers employed in Columbia, MO.

[Area Comparison Analysis Guide](#) (889 KB) – Describes how to generate Area Comparison Analysis results using Census tract for workers employed in Fond du Lac, WI.

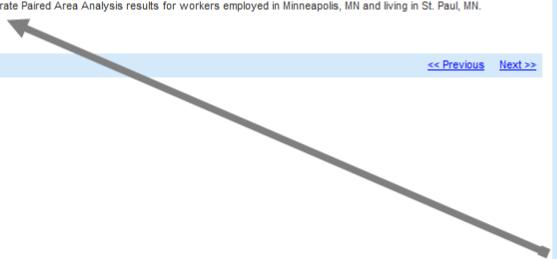
[Distance/Direction Analysis Guide](#) (478 KB) – Describes how to generate Distance/Direction Analysis results for workers employed in Albany, NY.

[Destination Analysis Guide](#) (568 KB) – Describes how to generate Destination Analysis results by county subdivisions for workers employed in Albany NY.

[Inflow/Outflow Analysis Guide](#) (366 KB) – Describes how to generate Inflow/Outflow Analysis results for workers employed in Albany, NY.

[Paired Area Analysis Guide](#) (797 KB) – Describes how to generate Paired Area Analysis results for workers employed in Minneapolis, MN and living in St. Paul, MN.

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Start OnTheMap



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[Major Enhancements](#)

[Release Schedule](#)

[Mapping Terms](#)

[Report Terms](#)

[System Requirements](#)

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[Data Sources](#)

[Confidentiality Protection](#)

[Geographic Data Sources](#)

[Download the Data](#)

[Data Notices](#)

Tutorials

[Getting Started/Overview](#)

Analysis Guides (This link is highlighted with a red box)

[More Tutorials](#)

FAQs and Bugs

[Frequently Asked Questions](#)

[Known and Unresolved Bugs](#)

[Resolved Bugs](#)

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Thank You

- Local Employment Dynamics
 - lehd.ces.census.gov
- Contact
 - Earlene.KP.Dowell@census.gov
- Tools
 - QWIExplorer.ces.census.gov
 - LEDExtract.ces.census.gov
 - OnTheMap.ces.census.gov
 - OnTheMap.ces.census.gov/em.html