

# Local Employment Dynamics

## The Keys to Unlocking Powerful Labor-Force Information



Earlene Dowell

Longitudinal Employer-Household Dynamics Program

Center for Economic Studies

U.S. Census Bureau

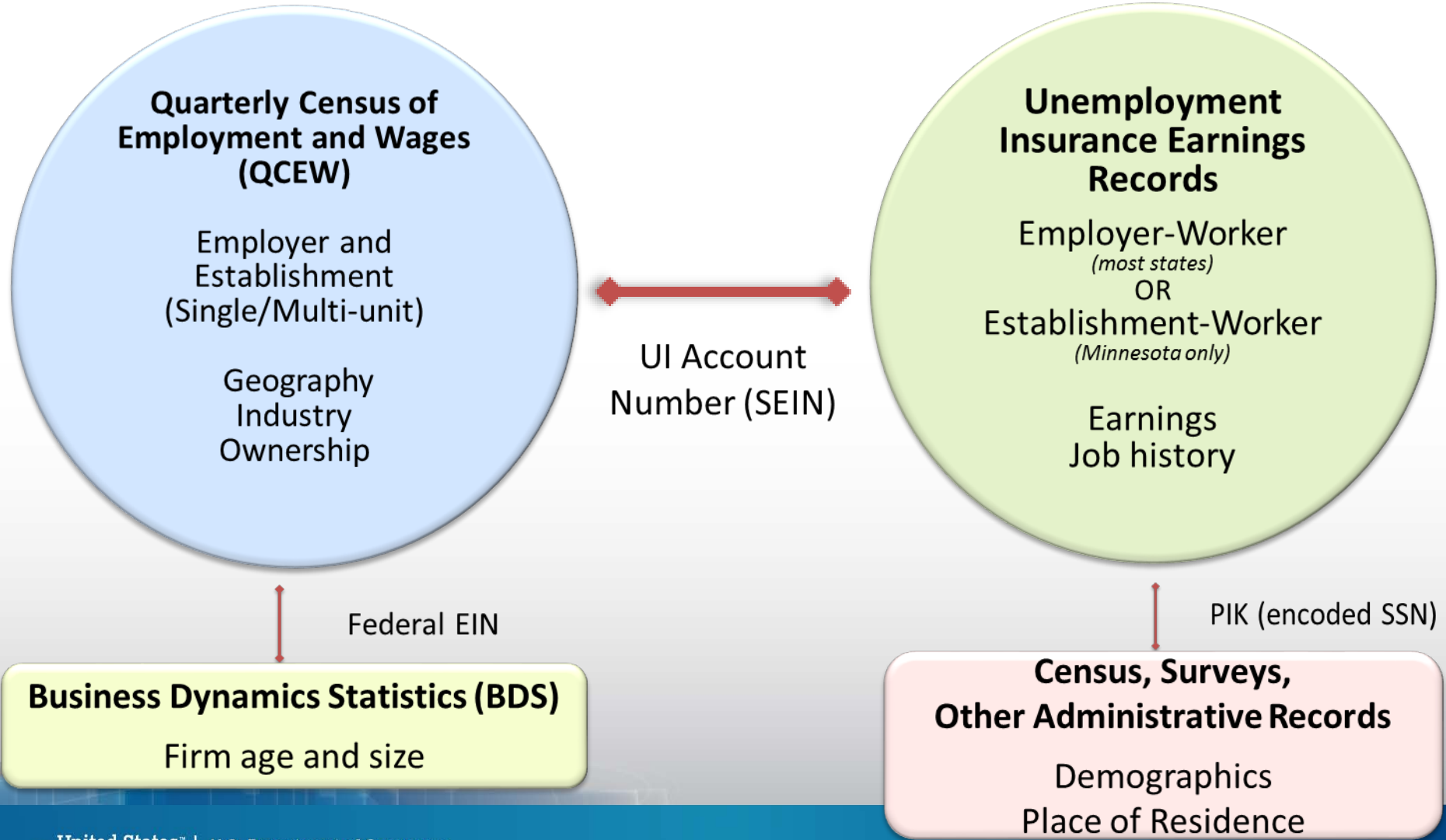
# Overview

- 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

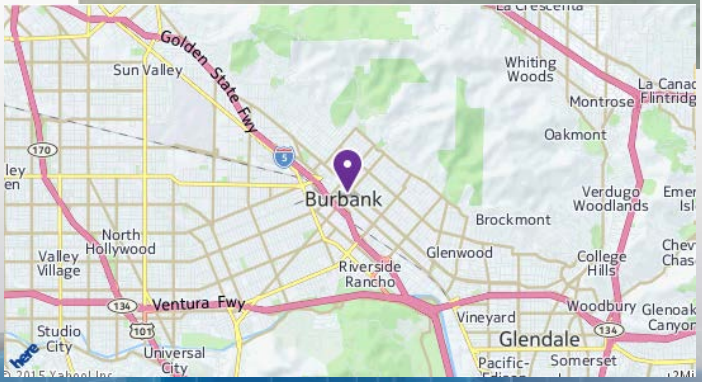
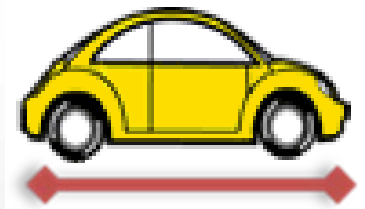
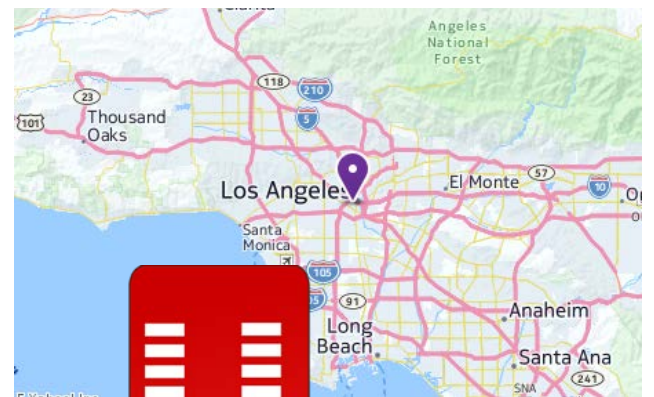
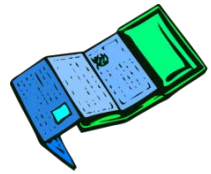
# LED vs. LEHD

- 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



# Here's a Story...

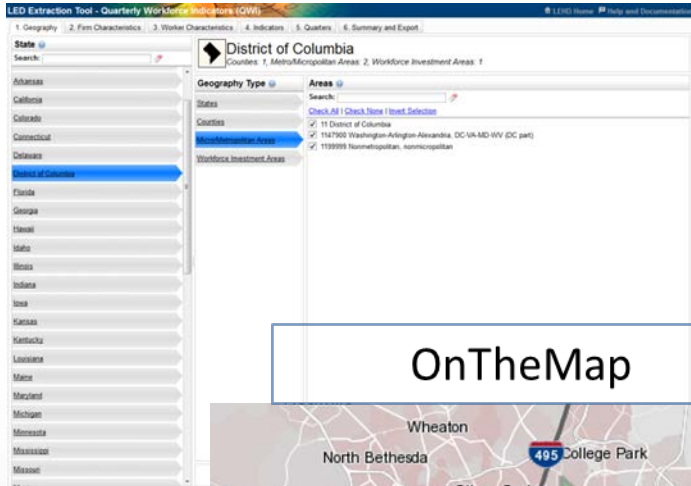


# Data Products

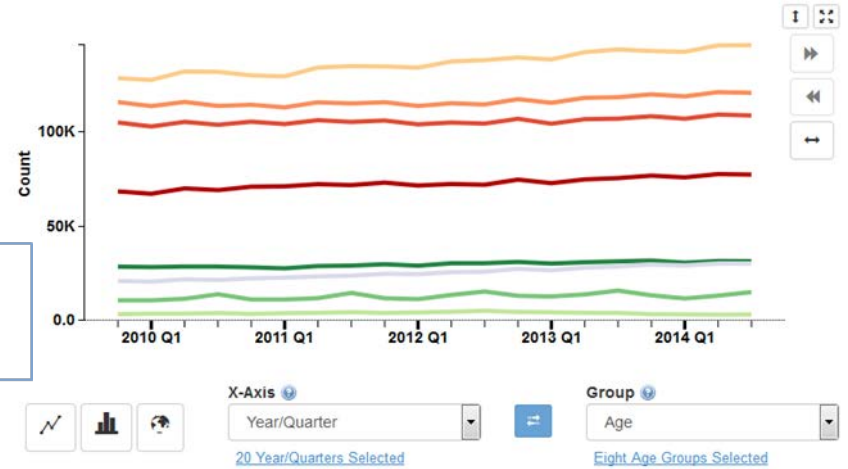
- **Quarterly Workforce Indicators (QWI)**
  - Employment, Job Creation, Job Destruction, Hires, Separations, Turnover, Earnings
  - By industry, county, and worker characteristics
- **LEHD Origin Destination Employment Statistics (LODES)**
  - Employment and Workplace-Residence Connections
  - Detailed 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

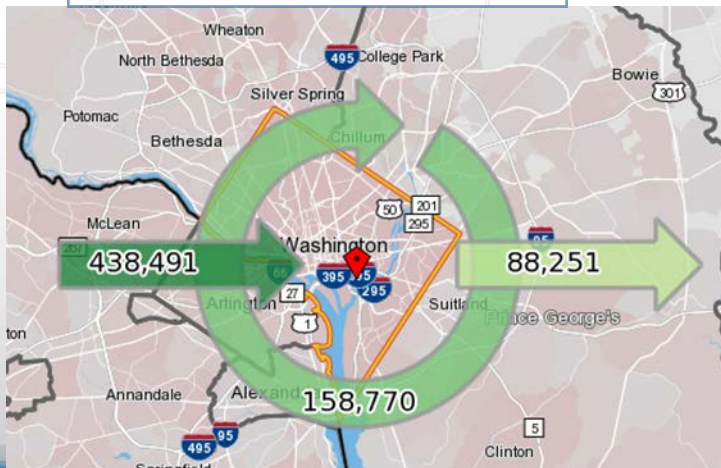
## LED Extraction Tool



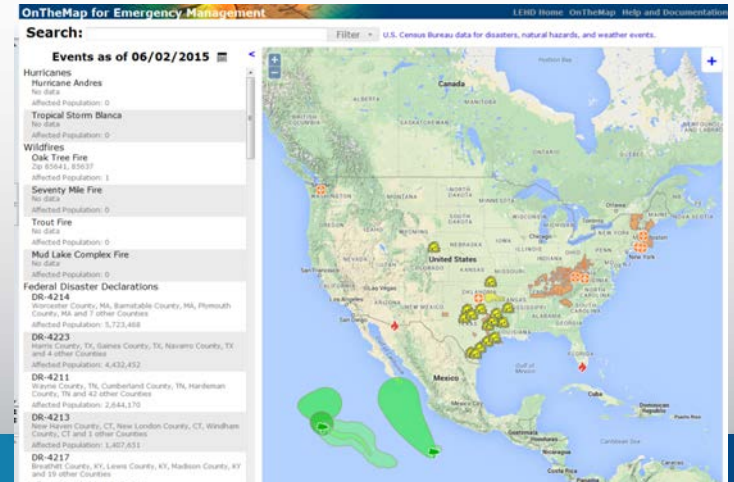
## QWI Explorer



## 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:** Connecticut

**Geography Type:** Areas

**Search:** [Search Box]

**Check All | Check None | Invert Selection**

**States:**  09 Connecticut

**Counties:**  0914860 Bridgeport-Stamford-Norwalk, CT  0925540 Hartford-West Hartford-East Hartford, CT  0935300 New Haven-Milford, CT

**Workforce Investment Areas:**  0935880 Norwich-New London, CT  0945880 Torrington, CT  0949340 Worcester, MA-CT (CT part)  0999930 Nonmetropolitan, nonmicropolitan

**Estimated Results Size**

Number of Rows: 2,000  
 Size of CSV: 1.8 MiB  
 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 (15, 199k)  
 QWI 101 (15, 203k)

**Comprehensive QWI Information**  
 Detailed QWI Definitions (15, 272k)  
 The LEHD Infrastructure Files and the Creation of the Quarterly Workforce Indicators document (15, 708k)

**Data Notices/Updates**  
 QWI Data Vintage Notices (15, 166k)  
 QWI Restructuring (15, 100k)  
 Firm Age/Size Release Notice (15, 95k)

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

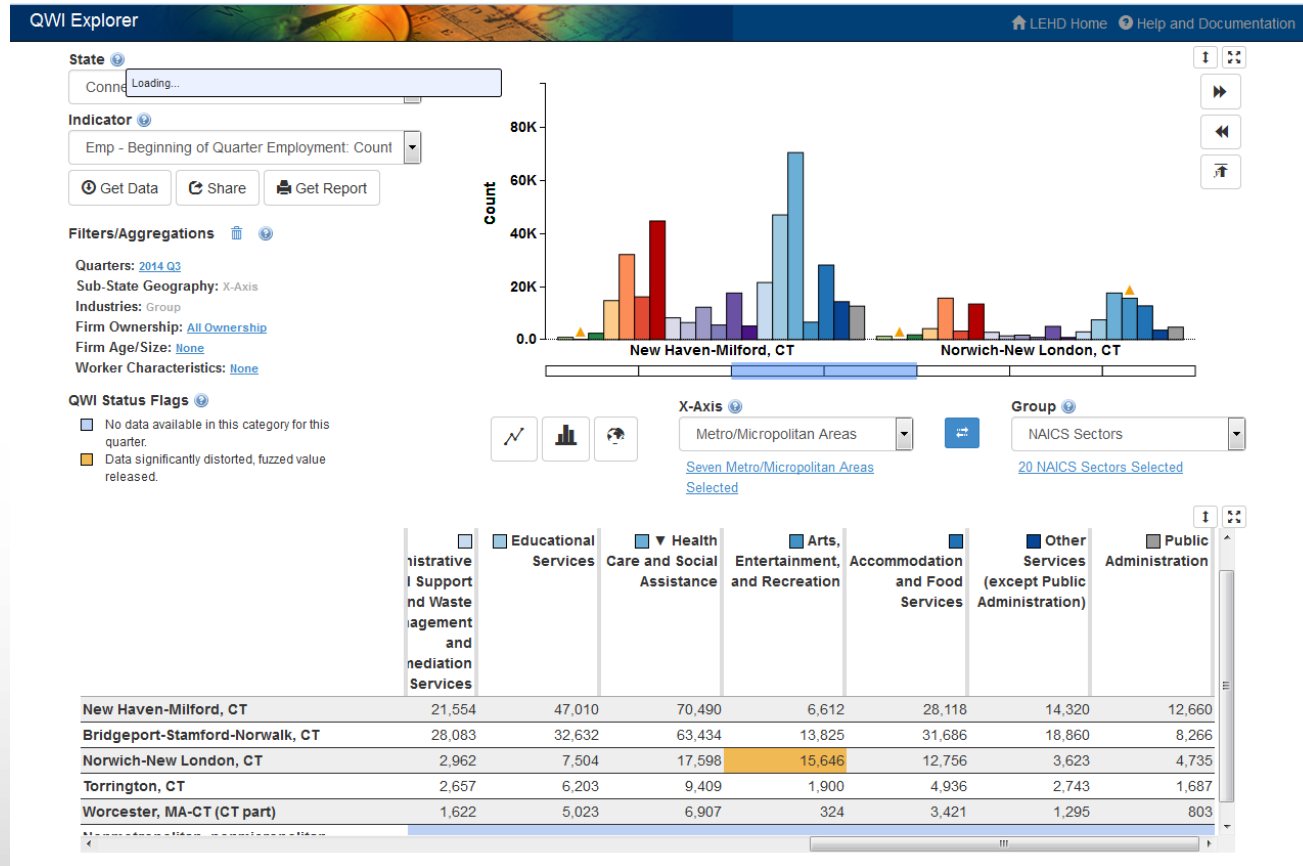
Current Request ID: e5d4f89c3e4495d70f4112ad6198b

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

Microsoft Excel spreadsheet showing a large data table with columns: P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH. The table contains rows of data for various demographic and economic indicators, such as sex, age, race, ethnicity, education, and firm characteristics.

P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	sex_label	agegrp	agegrp_la_race	race_label	ethnicity	ethnicity	education	education	firmage	firmage	firmsize	firmsize	year	quarter	Emp	Earns	sEmp	sEarns
2	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	399752	3485	1	1
3	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	238	2205	1	1
4	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	34	3958	1	1
5	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	1805	4798	1	1
6	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	12523	3315	1	1
7	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	64059	4000	1	1
8	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	20553	4745	1	1
9	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	46901	2042	1	1
10	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	9826	3100	1	1
11	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	19811	4094	1	1
12	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	27000	5394	1	1
13	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	6221	3049	1	1
14	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	26125	4647	1	1
15	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	15725	5559	1	1
16	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	24887	2416	1	1
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20	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	20998	1285	1	1
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33	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	61965	4021	1	1
34	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	6926	2892	1	1
35	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	25035	3844	1	1
36	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	6672	3628	1	1
37	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	27253	2051	1	1
38	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	47998	3422	1	1
39	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	77327	2561	1	1
40	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	6603	1898	1	1
41	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	33611	1071	1	1
42	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	19655	1916	1	1
43	All Sexes	A00	All Ages (.A0)	All Races	AD	All Ethnicities	ED	All Educations	AD	All Firm A	0	All Firm S	1996	2	34696	9130	1	1

# QWI Explorer



# OnTheMap.ces.census.gov

Start Base Map Selection Save Load Feedback Previous Extent Hide Tabs

Welcome to OnTheMap!

Start an analysis by using one of the tools below (Search, Import Geography, or Load .OTM file). Hover over the Help icons located throughout the application to see Help tips for using specific functionality. Sections in the control panel can be collapsed or opened by clicking the section title.

[2012 and 2013 Data Now Available \(07/06/2015\)](#)

Search

Search

Search All Names

Import Geography

[Import from KML](#)  
[Import from SHP](#)  
[Import from GPS](#)

Load .OTM File

Click the "Load" button below to load a .OTM file.

Load

OnTheMap

1000 km  
500 mi

-112.27568, 39.82075

# Getting Started


The screenshot displays the OnTheMap application interface. At the top, there are navigation tabs: Start, Base Map, and Selection. Below these are utility buttons: Save, Load, Feedback, Previous Extent, and Hide Tabs. The main map area shows a geographic region with various towns and cities labeled, including Torrington, CT, Waterbury, Middletown, and New Haven-Milford, CT. A red pin is placed on the New Haven-Milford area. A pop-up information box for 'New Haven-Milford, CT' is visible, containing the following text: 'from Metropolitan/Micropolitan Areas (CBSA)', 'Selection Area: 862,068 Sq. Mi', and 'Census Blocks: 13,708'. Below this text are three buttons: 'Perform Analysis on Selection Area' (highlighted in yellow), 'Change Selection Area', and 'Add Advanced Selection'. On the left side, there is a search panel titled 'Welcome to OnTheMap!' with instructions on how to use the search function. Below the instructions is a search input field containing 'new haven' and a 'Search' button. Underneath the search field is a dropdown menu labeled 'Search All Names' and a list of search results categorized by States, Counties, Places, ZIP Codes, Metropolitan/Micropolitan Areas (CBSA), Workforce Investment Areas (WIA), and County Subdivisions. The 'New Haven-Milford, CT' entry under the CBSA category is highlighted in yellow. At the bottom right of the map, there is a scale bar and coordinates: -141.24059, 43.14775.

# Analysis Settings

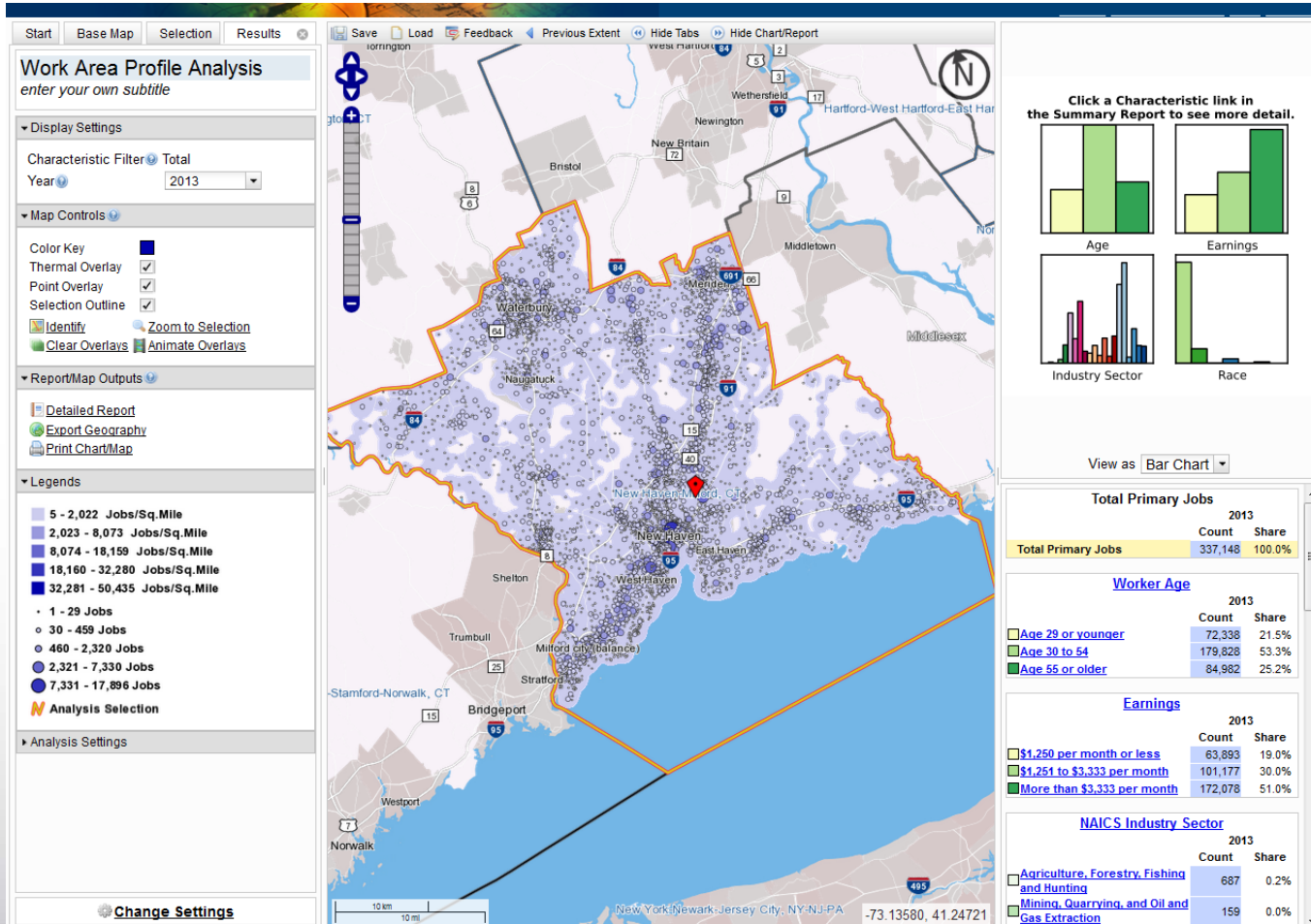
**Analysis Settings**

Area Profile Analysis in 2013 by Primary Jobs

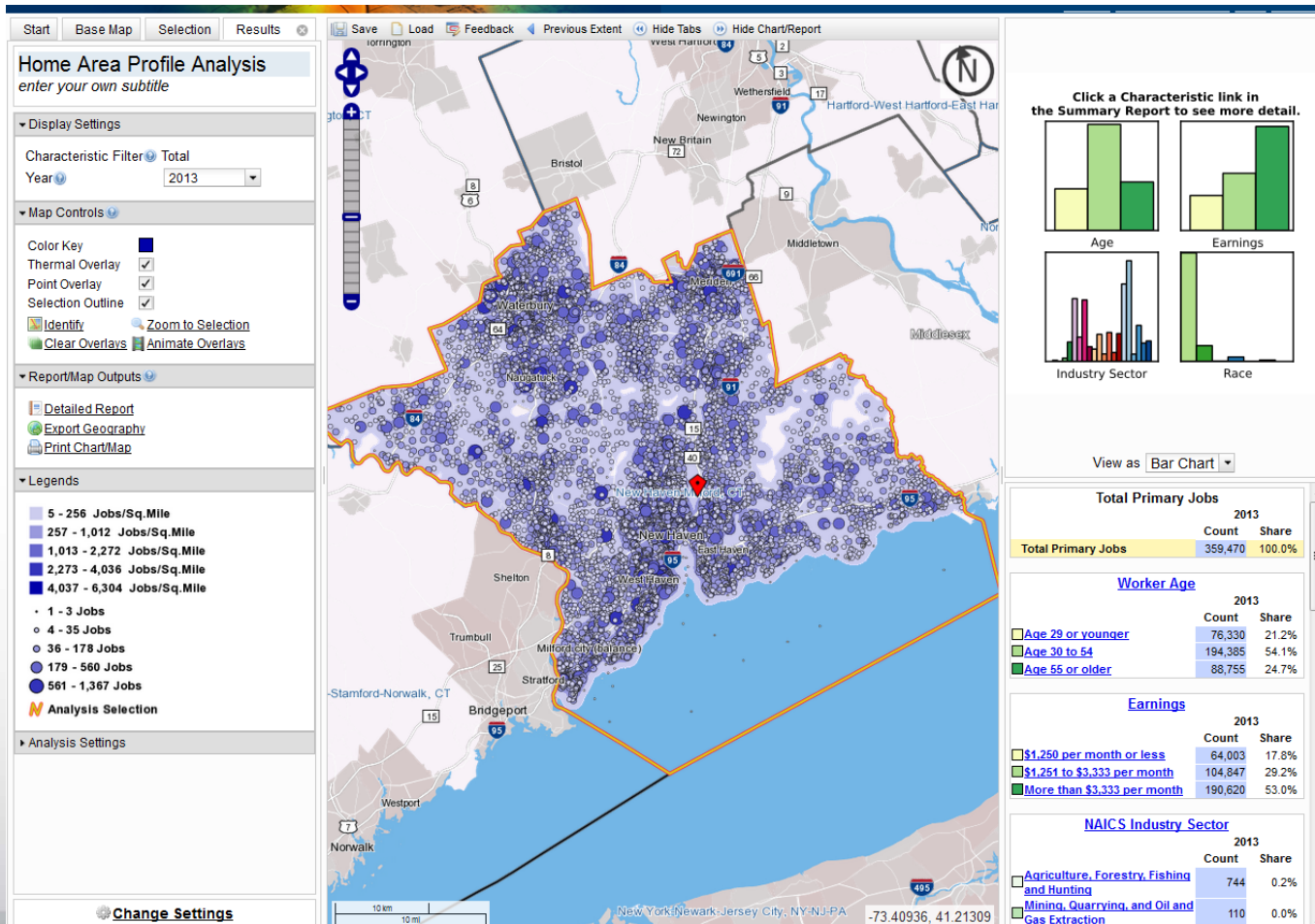
<b>Home/Work Area</b> Determines whether the selection area is analyzed on where workers live ("Home") or where workers are employed ("Work"). <input type="radio"/> Home <input checked="" type="radio"/> Work	<b>Analysis Type</b> Determines the type of results that will be generated for the selected area. <input checked="" type="radio"/> <b>Area Profile</b> Labor Market Segment: <input type="text" value="All Workers"/> <input type="radio"/> <b>Area Comparison</b> Areas to Compare: <input type="text" value="Places (Cities, CDPs, etc.)"/> Labor Market Segment: <input type="text" value="All Workers"/> <input type="radio"/> <b>Distance/Direction</b> <input type="radio"/> <b>Destination</b> Destination Type: <input type="text" value="Places (Cities, CDPs, etc.)"/> <input type="radio"/> <b>Inflow/Outflow</b> Note: Home/Work choice does not affect results	<b>Year</b> Determines the year(s) of data that will be processed in the analysis. <input checked="" type="checkbox"/> 2013 <input type="checkbox"/> 2012 <input type="checkbox"/> 2011 <input type="checkbox"/> 2010 <input type="checkbox"/> 2009 <input type="checkbox"/> 2008 <input type="checkbox"/> 2007 <input type="checkbox"/> 2006 <input type="checkbox"/> 2005 <input type="checkbox"/> 2004 <input type="checkbox"/> 2003 <input type="checkbox"/> 2002	<b>Job Type</b> Determines the scope of jobs that will be processed in the analysis. <input type="radio"/> All Jobs <input checked="" type="radio"/> <b>Primary Jobs</b> <input type="radio"/> All Private Jobs <input type="radio"/> Private Primary Jobs
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Cancel 

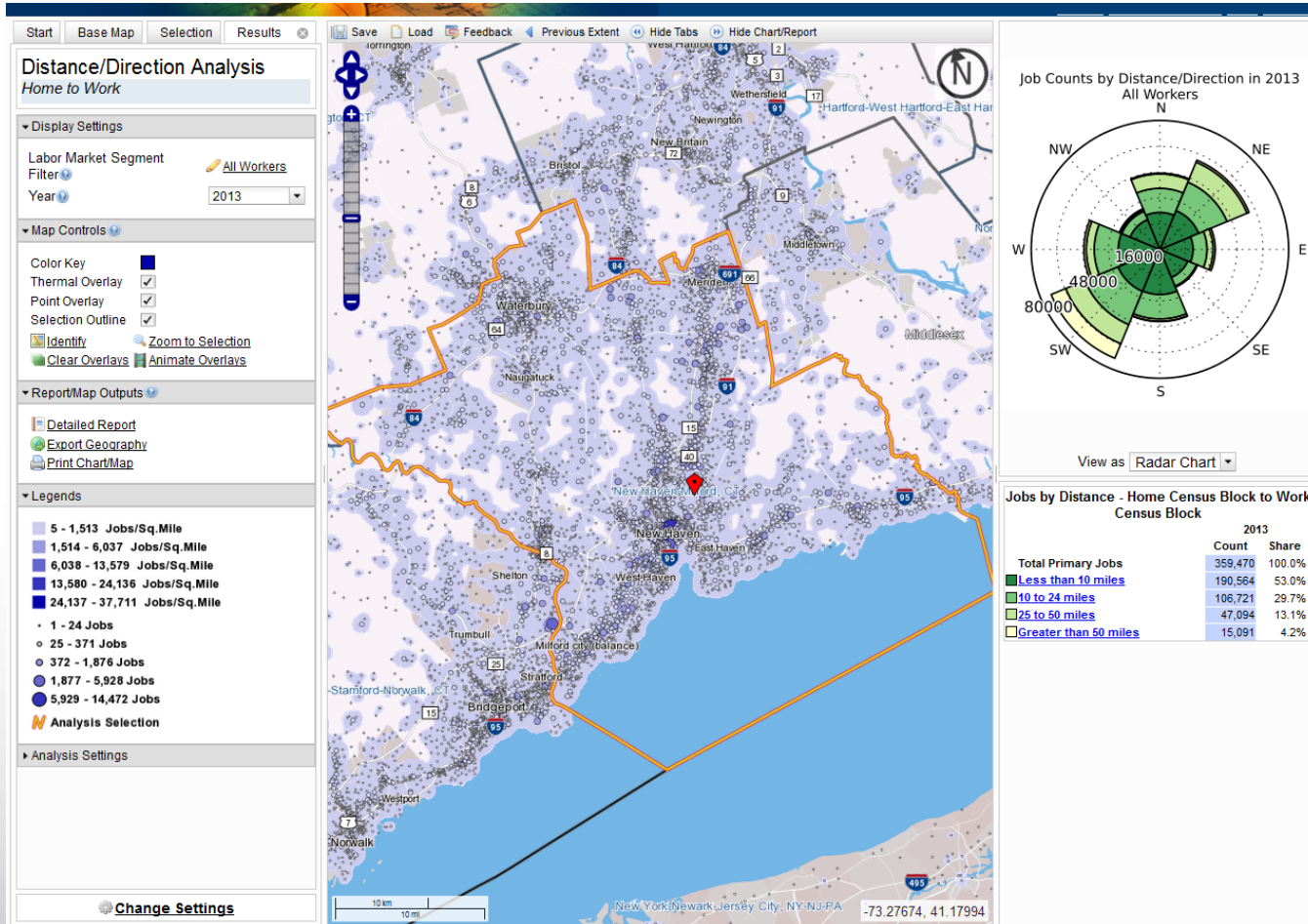
# Results



# Home Area Comparison

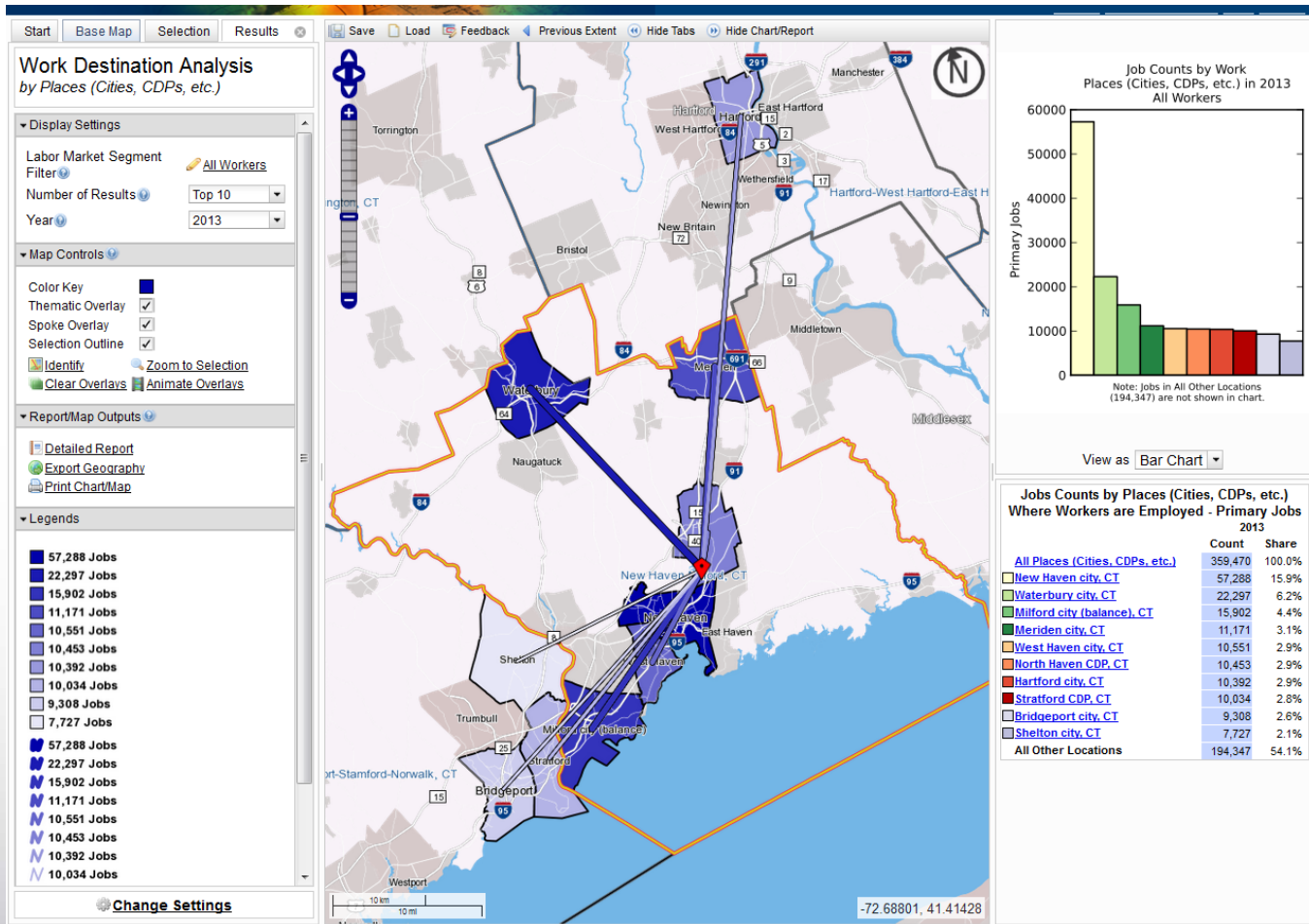


# Distance/Direction

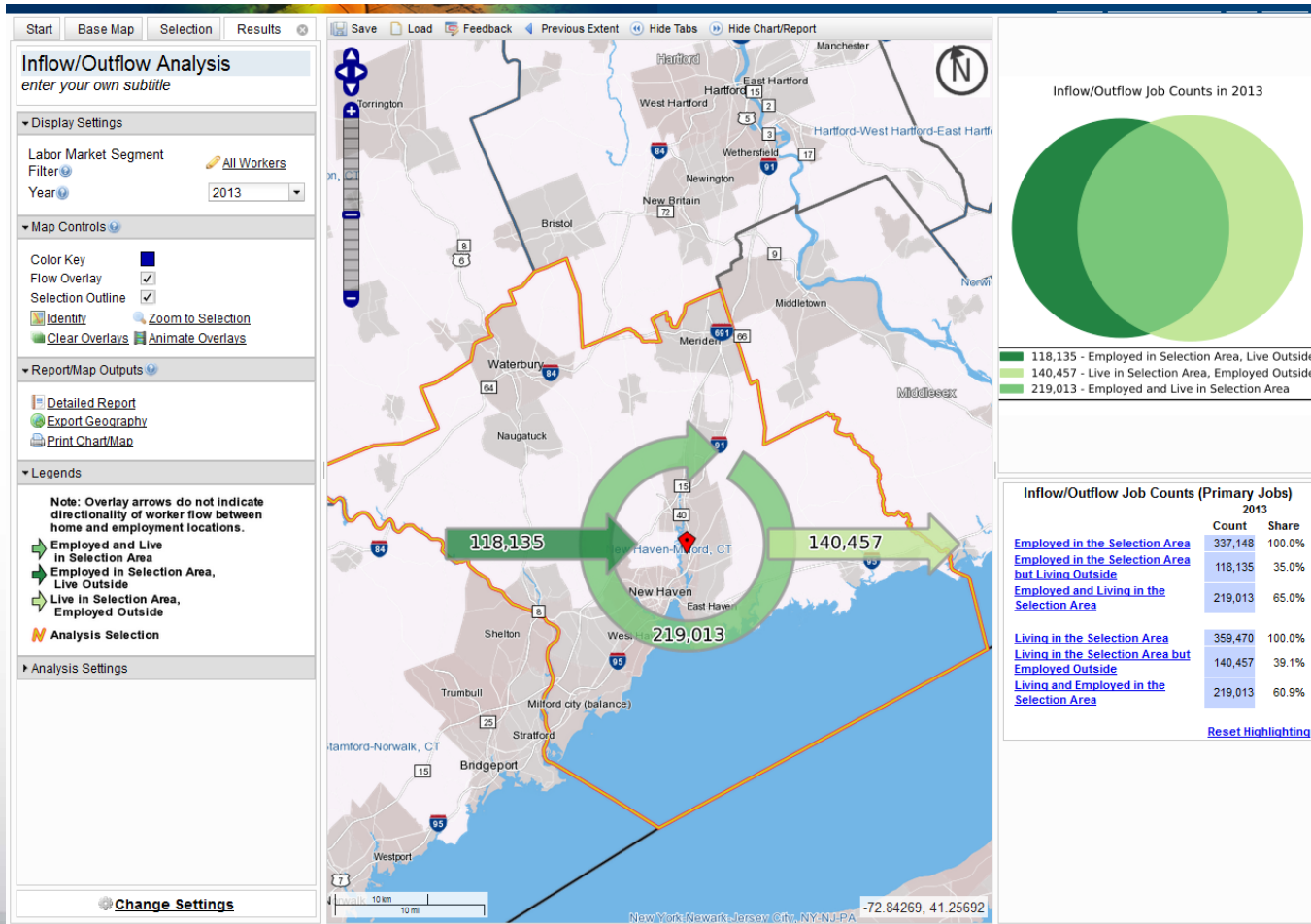




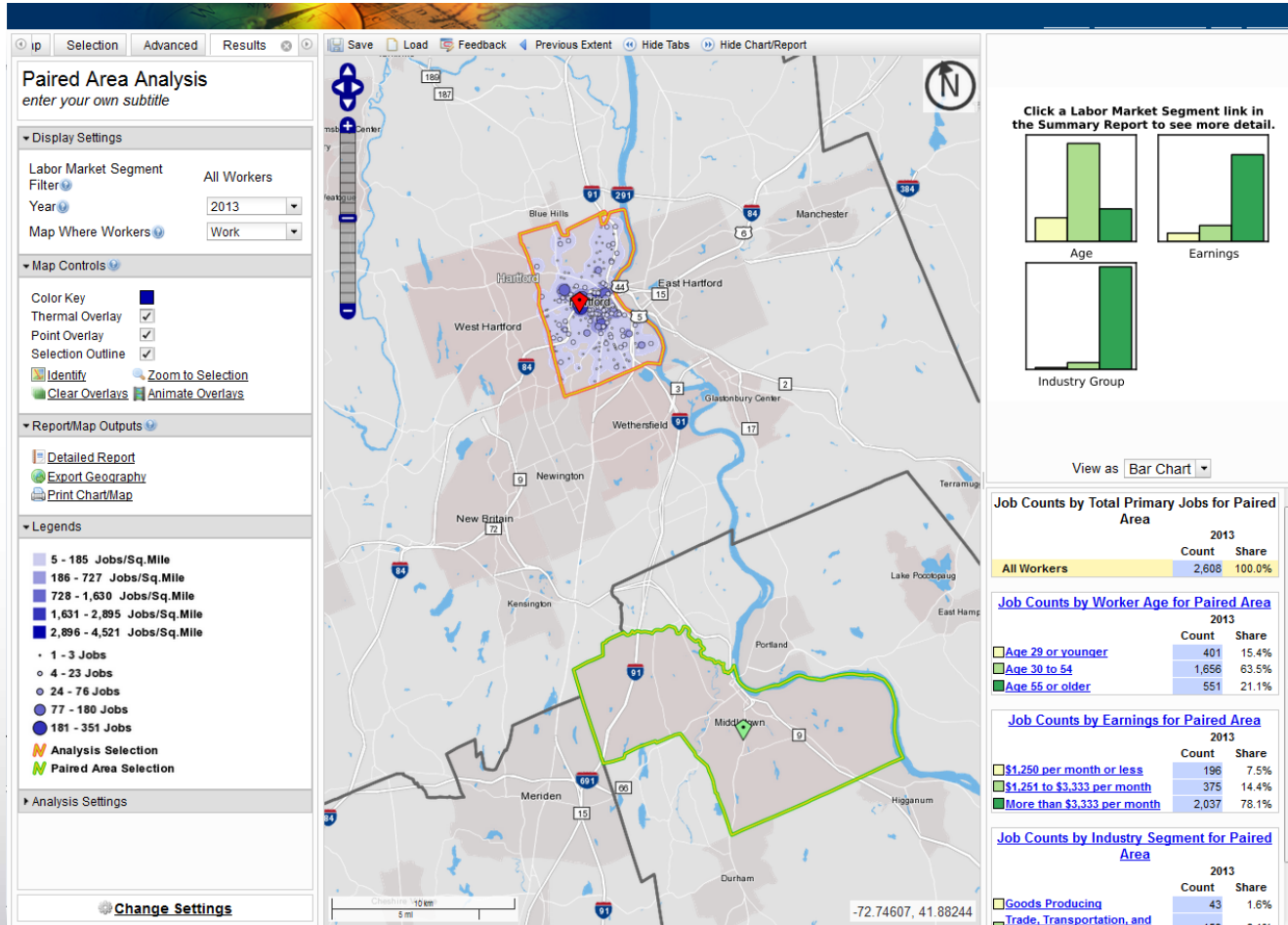
# Destination



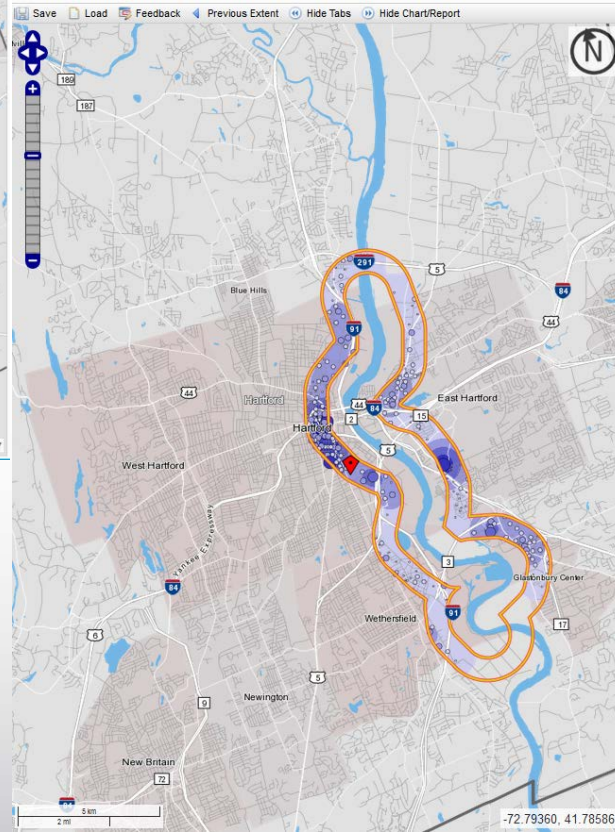
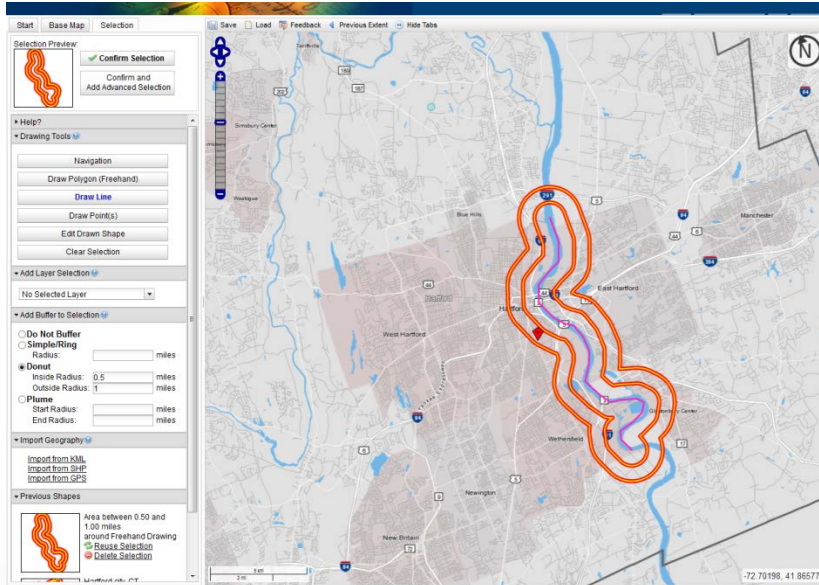
# Inflow/Outflow



# Paired Area Analysis



# Selection Tab



# OnTheMap for Emergency Management



Hurricanes, Floods,  
Winter Storms



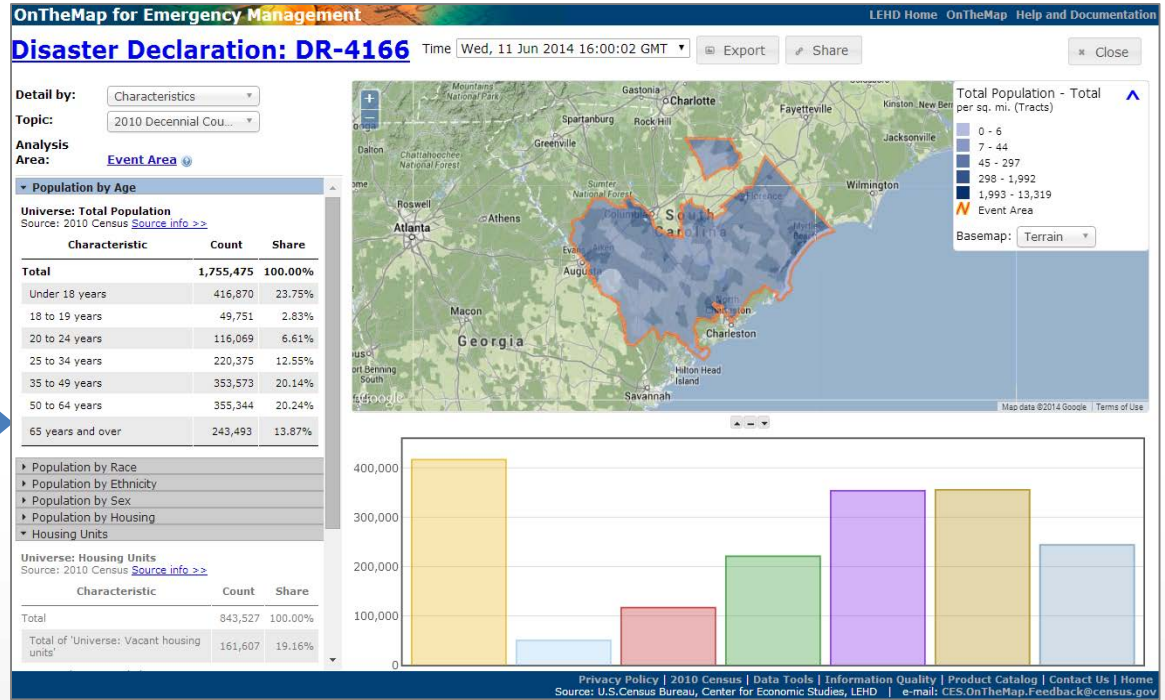
Disaster Areas



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/>


**OnTheMap for Emergency Management** LEHD Home OnTheMap Help and Documentation

**Search:**  Filter U.S. Census Bureau data for disasters, natural hazards, and weather events.

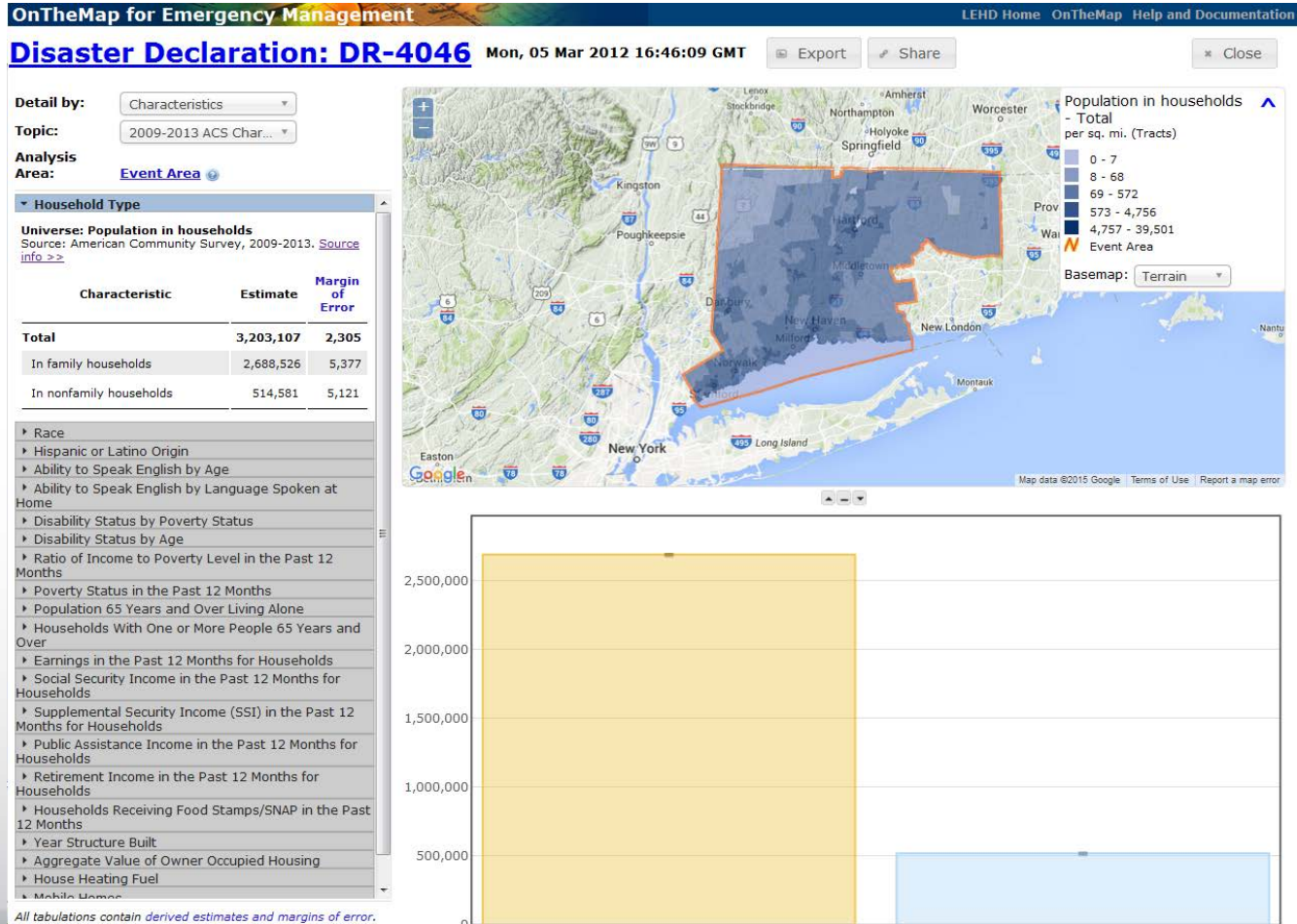
**Events as of 09/15/2015**

**Wildfires**

- Valley Fire**  
Lake County, CA, Napa County, CA  
Affected Population: 4,016
- Butte Fire**  
Calaveras County, CA, Amador County, CA  
Affected Population: 2,677
- Chelan Complex Fire**  
Okanogan County, WA, Douglas County, WA, Chelan County, WA  
Affected Population: 1,408
- County Line 2 Complex Fire**  
Jefferson County, OR, Wasco County, OR  
Affected Population: 1,146
- Okanogan Complex Fire**  
Riverside town, WA, Conconully town, WA  
Affected Population: 729
- North Star Fire**  
Okanogan County, WA, Ferry County, WA  
Affected Population: 418
- Sockeye Fire**  
Zip 99688  
Affected Population: 292
- Canyon Creek Complex Fire**  
Zip 97820, 97869, 97845  
Affected Population: 228
- Nulato Fire**  
Zip 99765  
Affected Population: 222
- Card Street Fire**  
Zip 99672  
Affected Population: 138
- Carpenter Road Fire**  
99129, 99173, 99137 and 1 other ZIP Codes (ZCTA)  
Affected Population: 134
- First Creek Fire**  
Zip 98816  
Affected Population: 85
- Rock Fire**  
Zip 99745  
Affected Population: 66
- Teppee Springs Fire**  
Zip 83549, 83547, 83654  
Affected Population: 58
- Route Complex Fire**  
Humboldt County, CA, Trinity County, CA



# 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

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

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[Disaster Federal Register Notices](#)

[FOIA Statistics](#)

[Updates and Articles, Blog, and News Releases](#)

[Updates and Articles](#)

[Blog](#)

[News Releases](#)

## Connecticut Severe Storm (DR-4046)

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

Major Disaster Declaration declared on November 17, 2011

[+ Share/Email This Page](#)

### Geographic Information



### 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



Google Earth



PDF of Map



FEMA Data Feeds

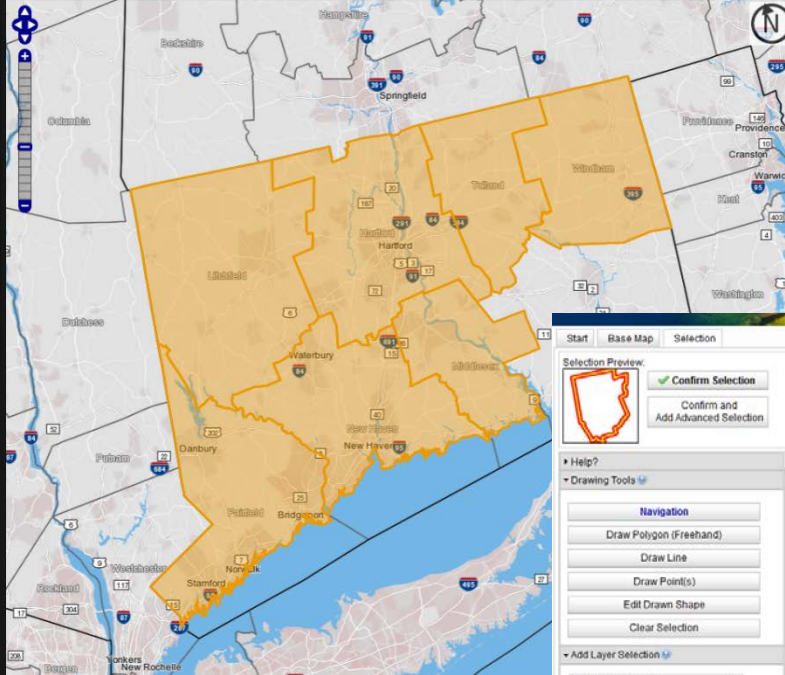


# Import to OnTheMap


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.

- Cancel Import
- Zoom To Imported Shapes
  - Select All Points
  - Select All Lines
  - Select All Polygons
  - Clear Selection
- Continue with Selected Features
- Import from KMZ
  - Import from Shape
  - Import from OSM
  - Import from OSM
- Load OSM File
- Click the "Load" button below to load a OSM file.
- Load



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 Drawn Shape
- Clear Selection

Add Layer Selection

No Selected Layer

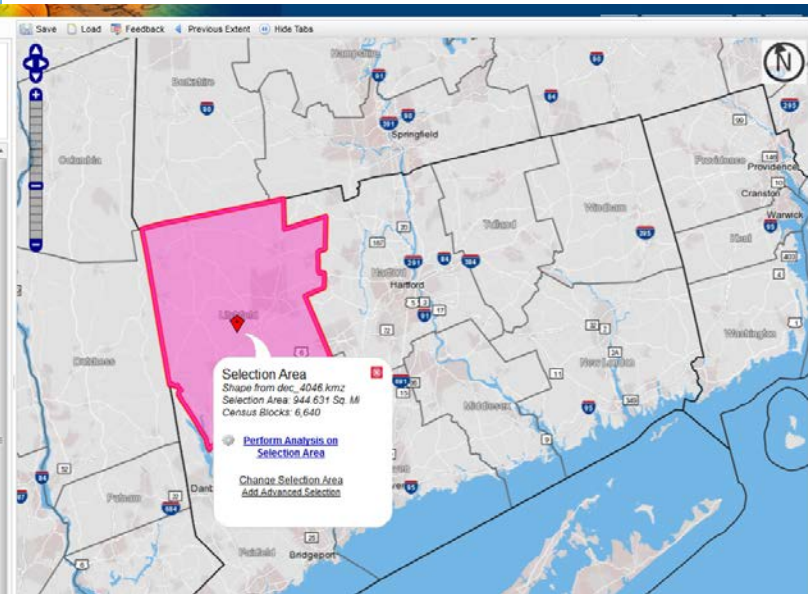
Add Buffer to Selection

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 KMZ  
Import from OSM



# Help and Documentation

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs

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United States Census Bureau

Topics: Population, Economy | Geography: Maps, Geographic Data | Library: Infographic, Publications | Data: Tools, Developers | About the Bureau: Research, Surveys | Newsroom: News, Events, Blogs

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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
- LOCES Data
- LED Workshop

### Contact Information

Email us: [CES.Local.Employment.Dynamics@census.gov](mailto:CES.Local.Employment.Dynamics@census.gov)

or

Call us at [202-763-9303](tel:202-763-9303)

[Further contact information](#)

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## OnTheMap Help and Documentation

Choose an application: **OnTheMap**


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### Analysis Guides

- [Area Profile Analysis Guide](#) (305 KB) – Describes how to generate Area Profile Analysis results for workers employed in Columbia, MO.
- [Area Comparison Analysis Guide](#) (609 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](#) (308 KB) – Describes how to generate Inflow/Outflow Analysis results for workers employed in Albany, NY.
- [Paired Area Analysis Guide](#) (737 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



#### About the Application

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#### About the Data

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#### Tutorials

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#### FAQs and Bugs

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# *Thank You*

- Local Employment Dynamics
  - [lehd.ces.census.gov](http://lehd.ces.census.gov)
- Contact
  - [Earlene.KP.Dowell@census.gov](mailto:Earlene.KP.Dowell@census.gov)
- Tools
  - [QWIExplorer.ces.census.gov](http://QWIExplorer.ces.census.gov)
  - [LEDExtract.ces.census.gov](http://LEDExtract.ces.census.gov)
  - [OnTheMap.ces.census.gov](http://OnTheMap.ces.census.gov)
  - [OnTheMap.ces.census.gov/em.html](http://OnTheMap.ces.census.gov/em.html)