Local Employment Dynamics
The Keys to Unlocking Powerful Labor-Force Information

Earlene Dowell

Longitudinal Employer-Household Dynamics Program
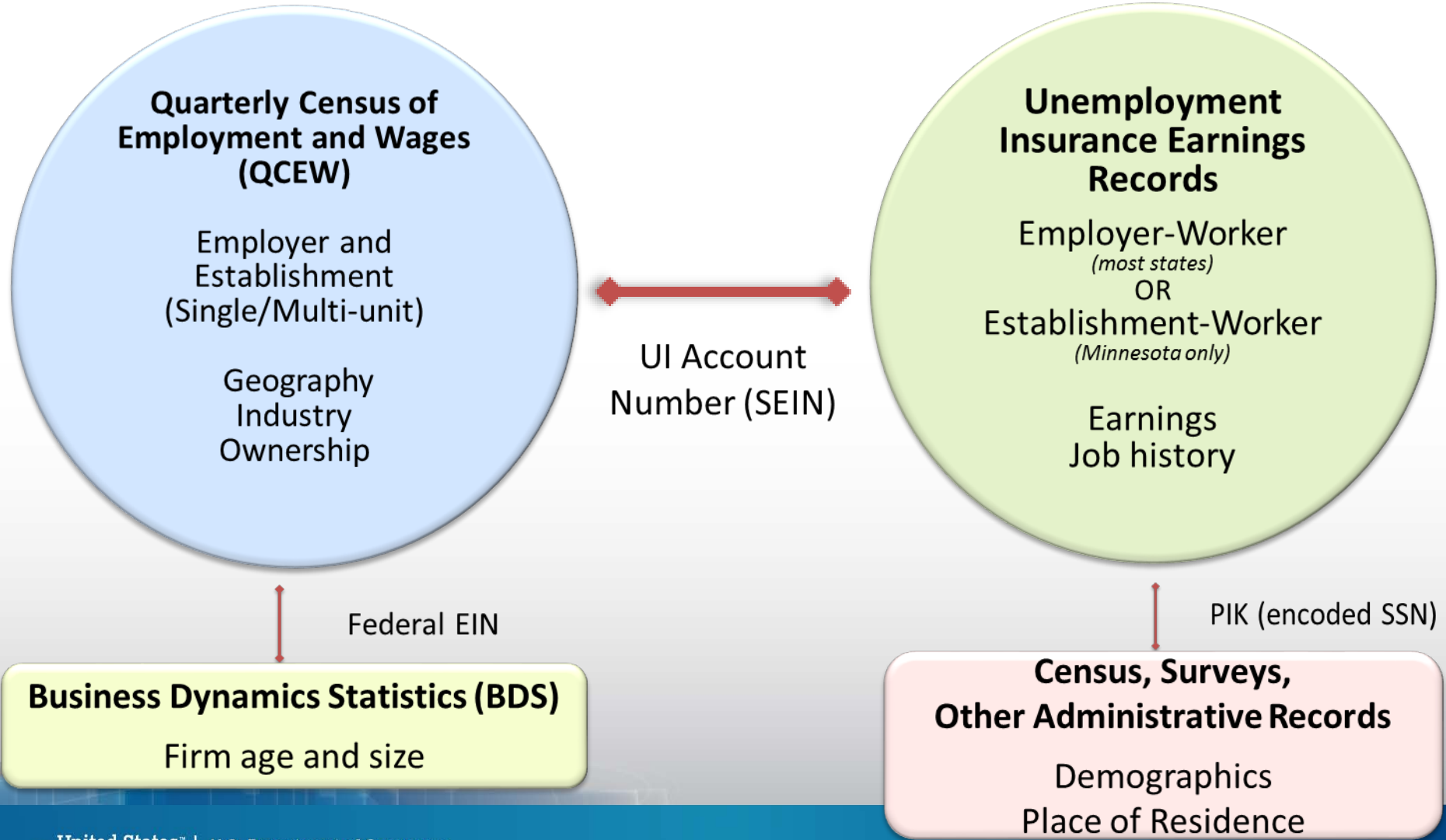
Center for Economic Studies

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
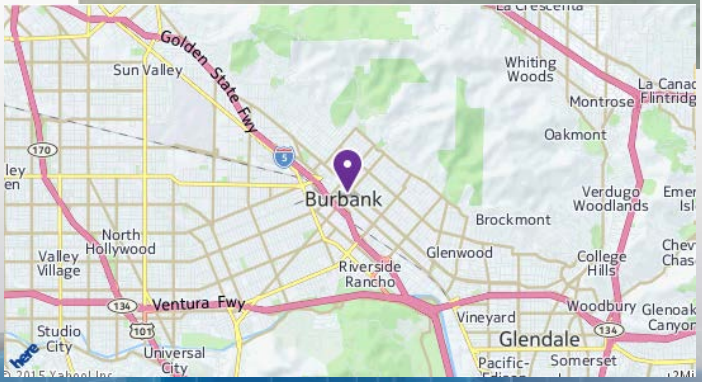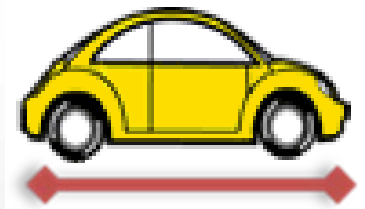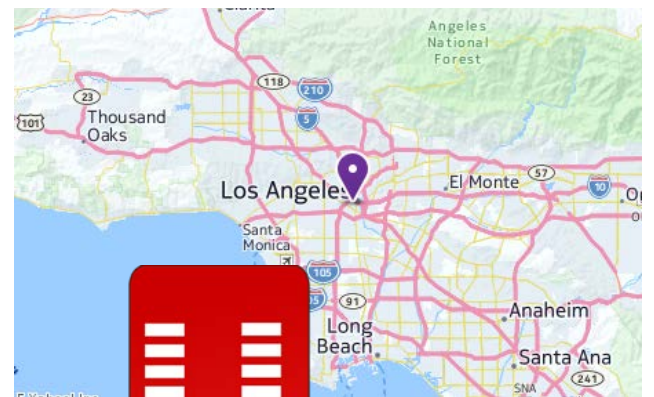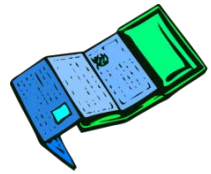
LED vs. LEHD

- **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

Quarterly Census of Employment and Wages (QCEW)

Employer and Establishment (Single/Multi-unit)

Geography
Industry
Ownership

Unemployment Insurance Earnings Records

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

Earnings
Job history

UI Account Number (SEIN)

Federal EIN

PIK (encoded SSN)

Business Dynamics Statistics (BDS)

Firm age and size

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
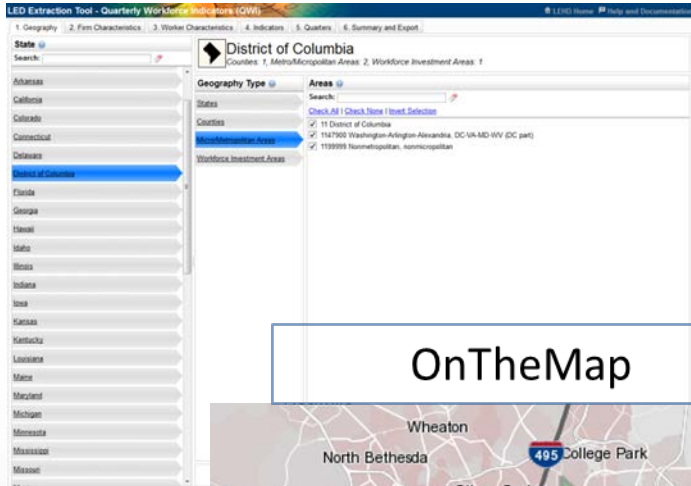
QWI Explorer
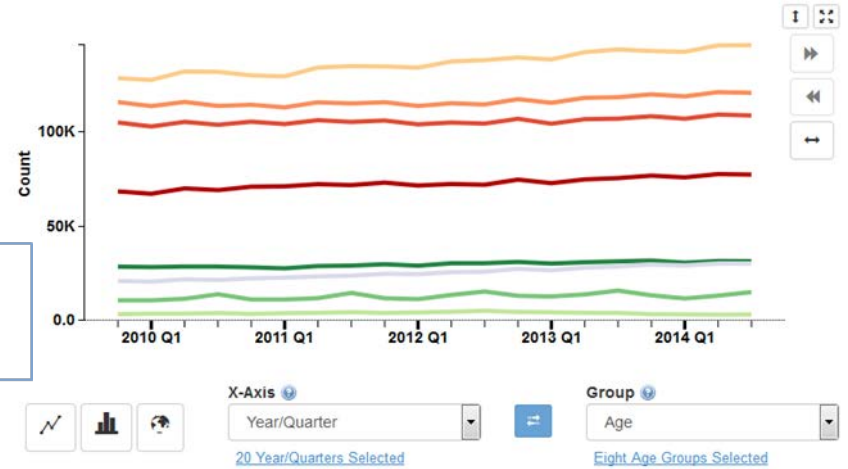
OnTheMap
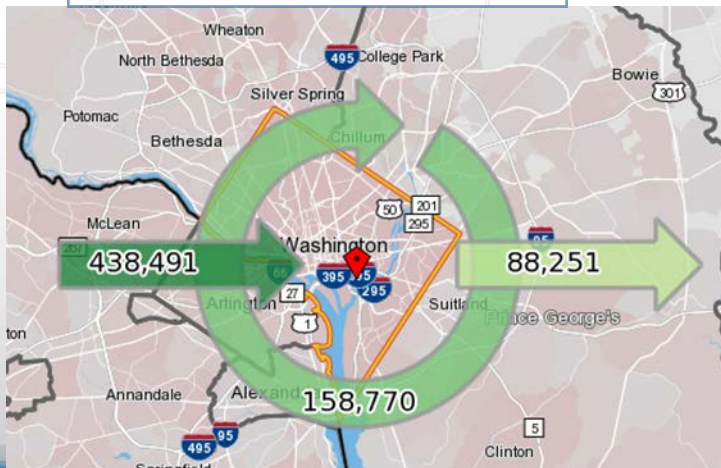
OnTheMap for Emergency Management
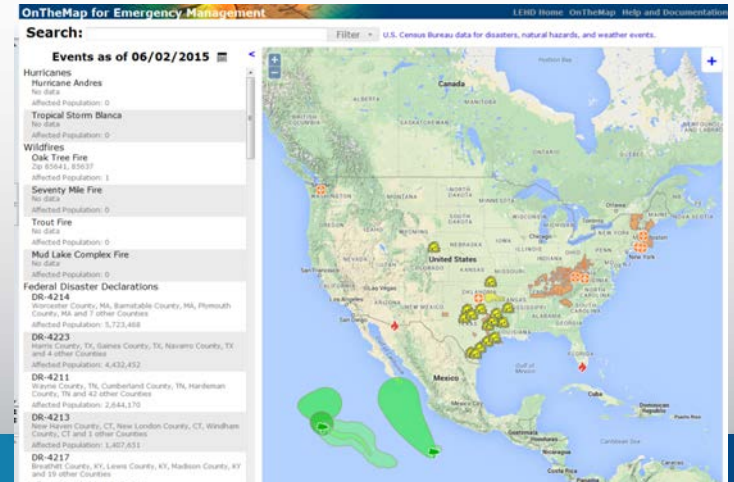
Who Uses Our Data Tools?

- Transportation Planners

- Policy Makers

- City Planners

- State Planners

- Economists

- Emergency Management Professionals

LED Extraction Tool

United States Census Bureau

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

QWI Explorer

OnTheMap.ces.census.gov

Getting Started

United States Census Bureau

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

Analysis Settings

Results

Home Area Comparison

United States **Census** Bureau

U.S. Department of Commerce
Economics and Statistics Administration
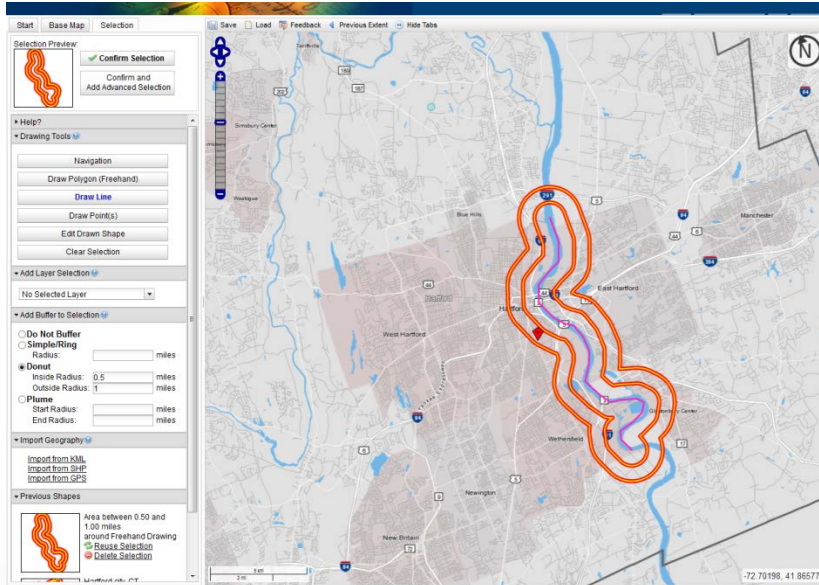U.S. CENSUS BUREAU
census.gov
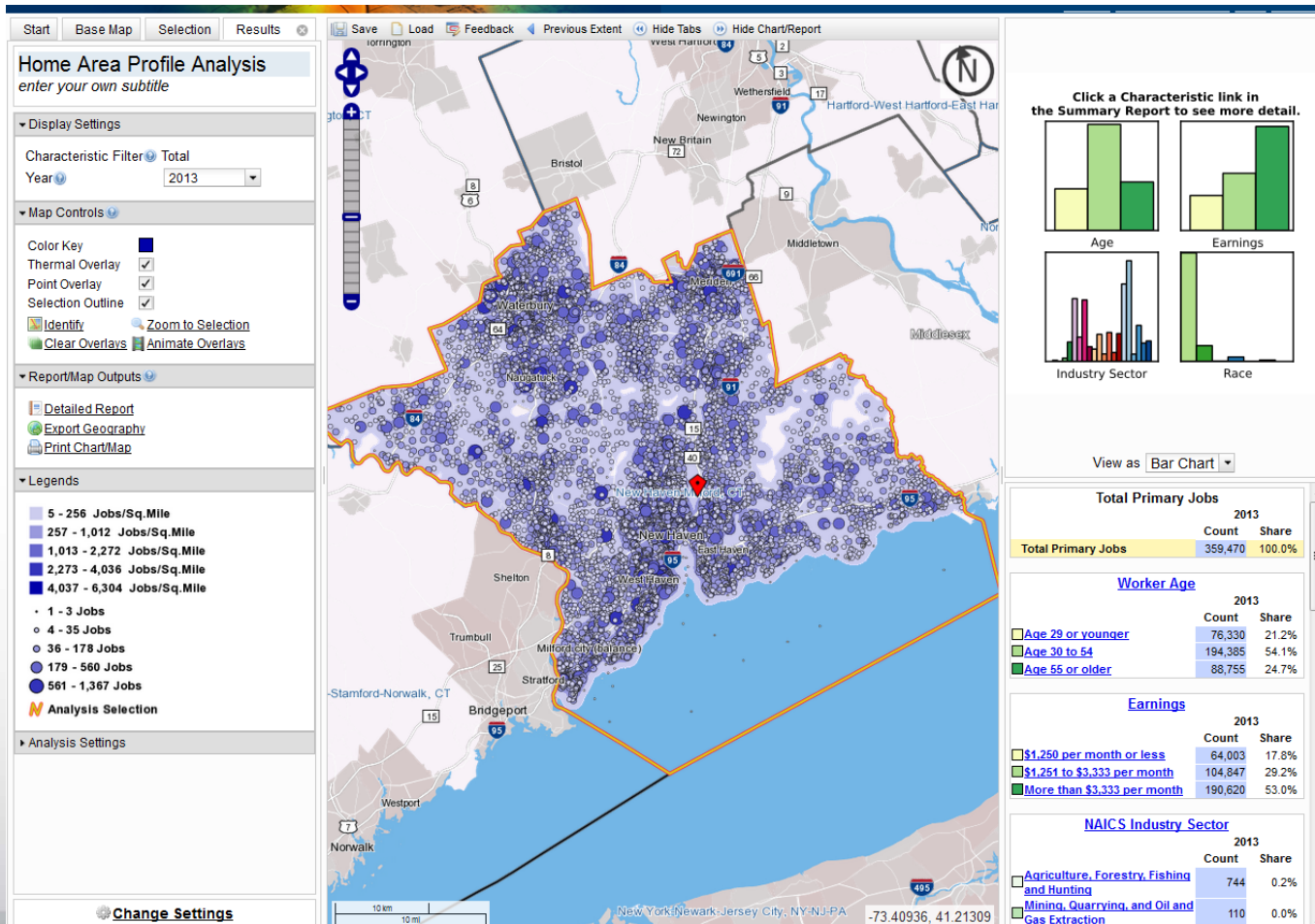
Distance/Direction
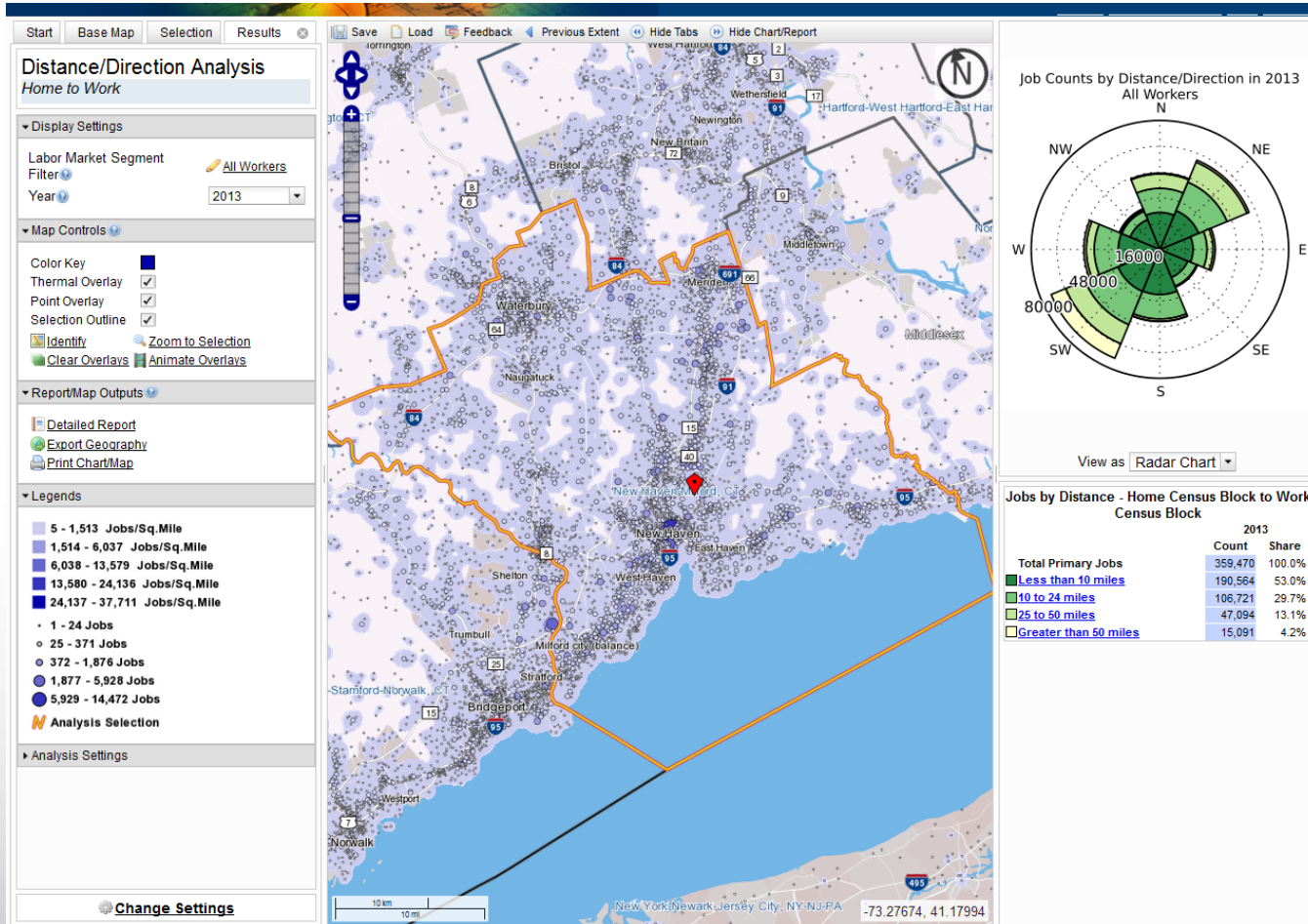
Destination

Inflow/Outflow

United States Census Bureau

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov
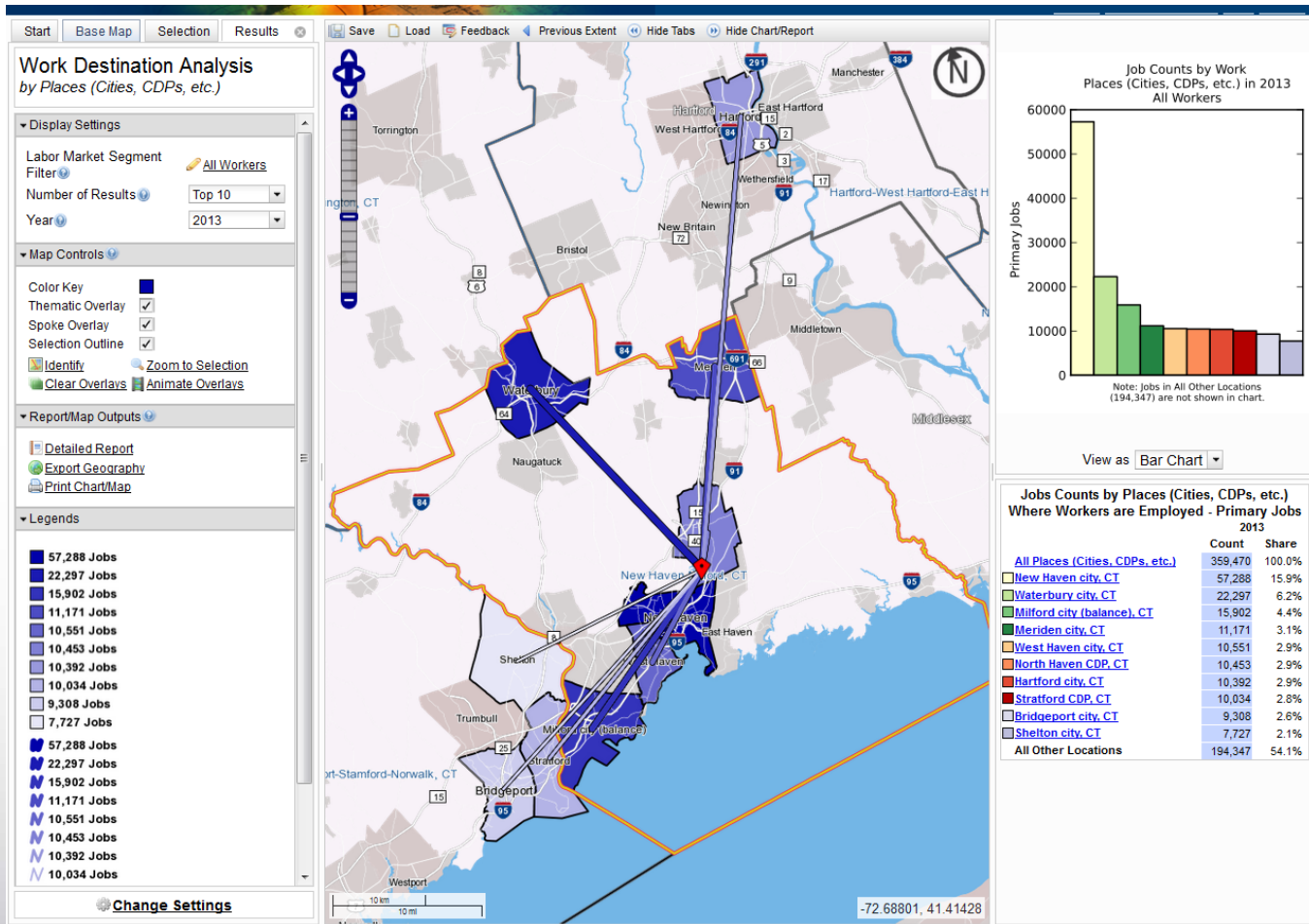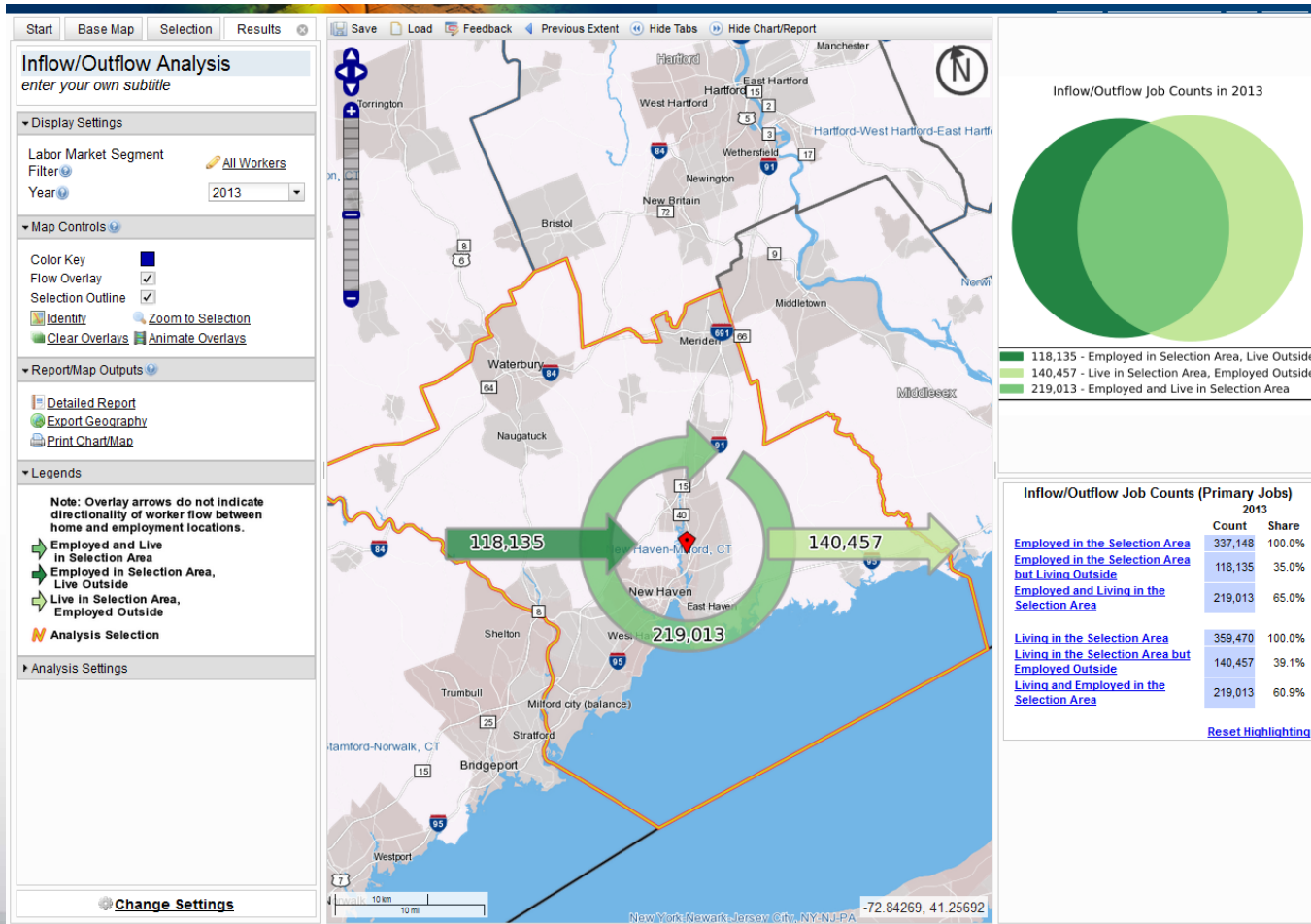
Paired Area Analysis
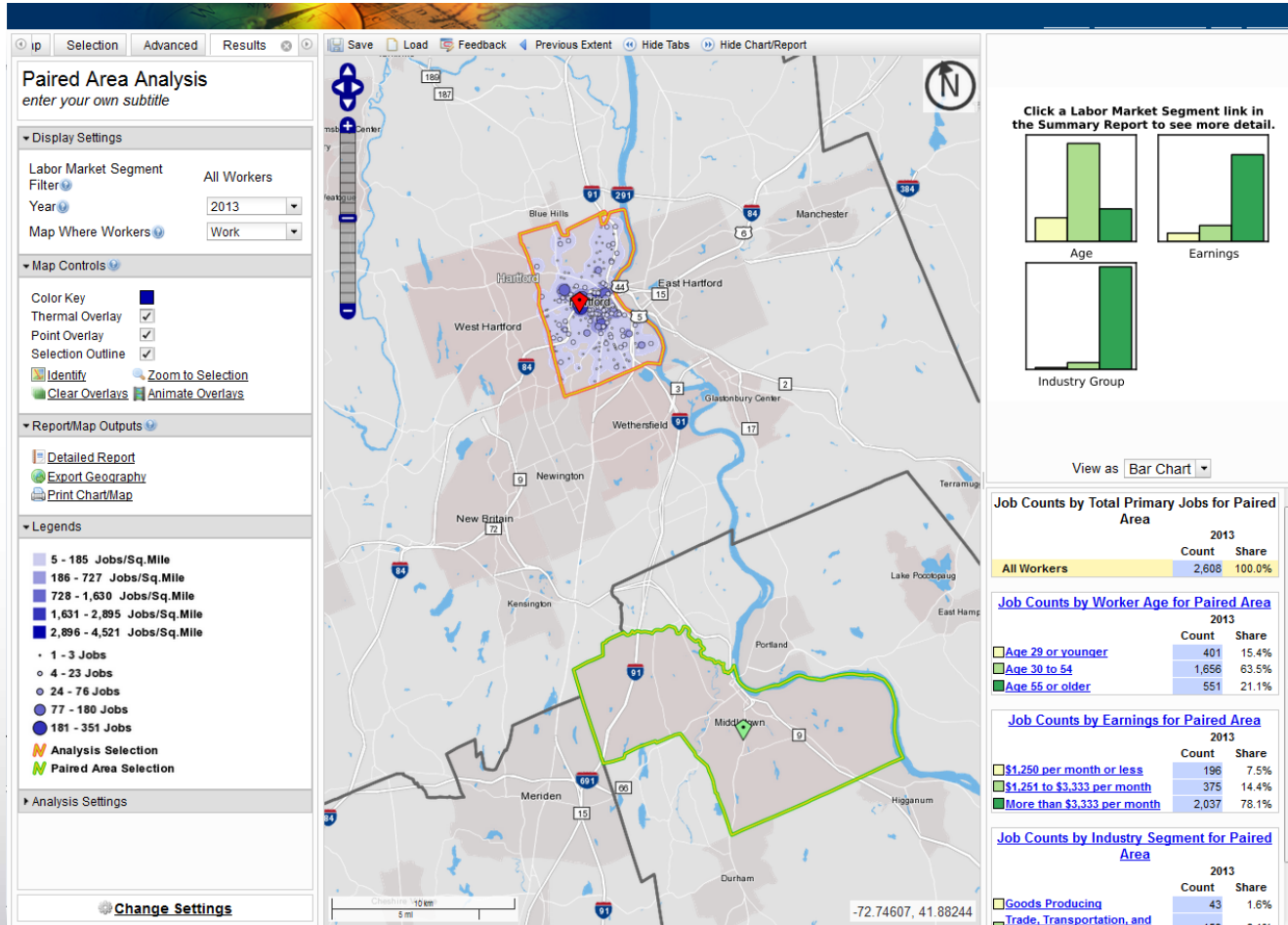
Selection Tab
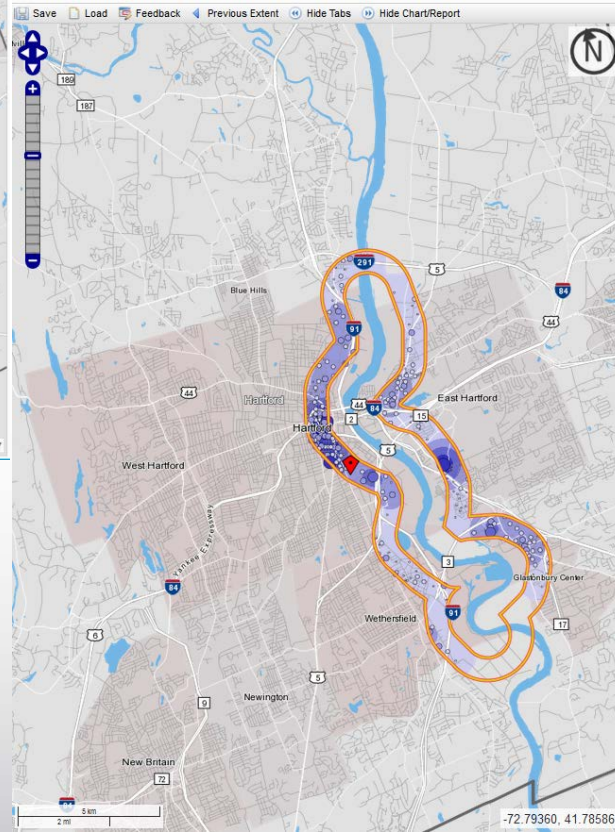
OnTheMap for Emergency Management

Hurricanes, Floods, Winter Storms

Disaster Areas

Wildfires

Demographic & Economic Data
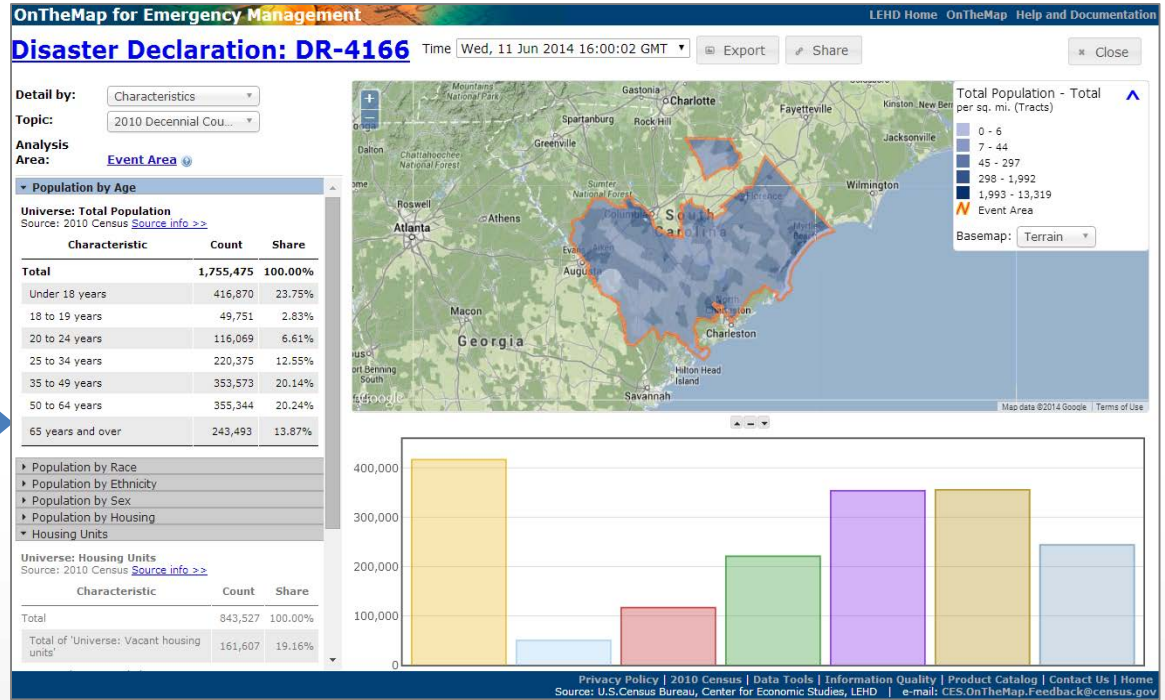
New Public Data Service for Emergency Preparedness & Response

- 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

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU
census.gov

Import to OnTheMap

Help and Documentation

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