Local Employment Dynamics

Transportation Planning and Analysis of Workforce Population



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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) 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

Federal EIN

Business Dynamics Statistics (BDS)

Firm age and size



Here's a Story...



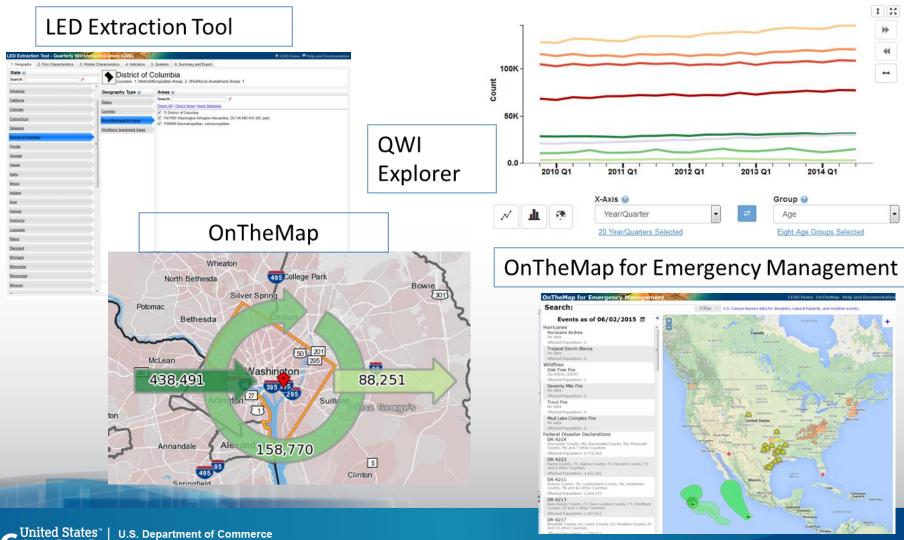




Data Products

- 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 origindestination data on workers changing jobs

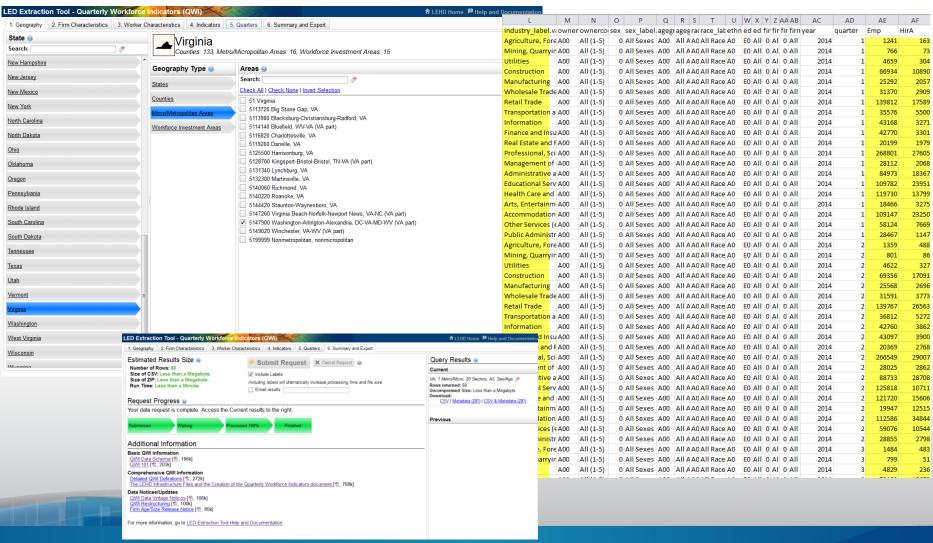
Data Tools



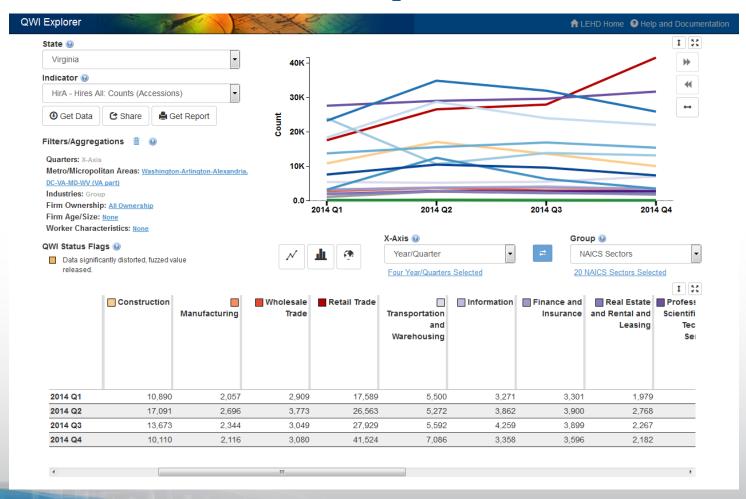
Who Uses Our Data Tools?

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

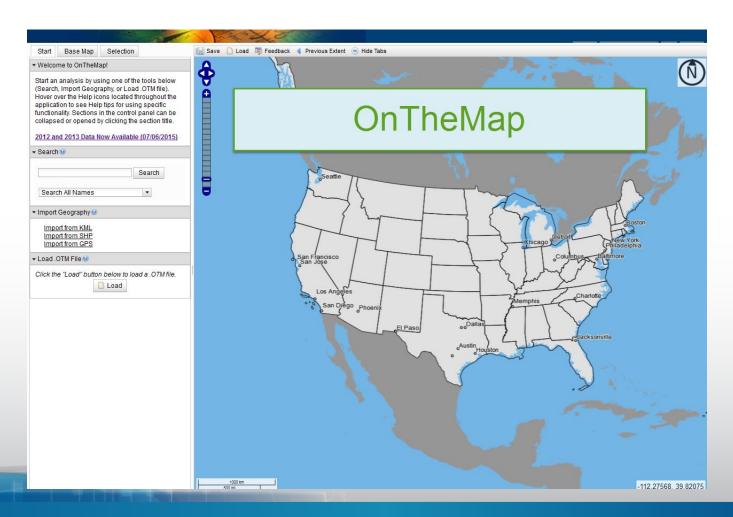
LED Extraction Tool



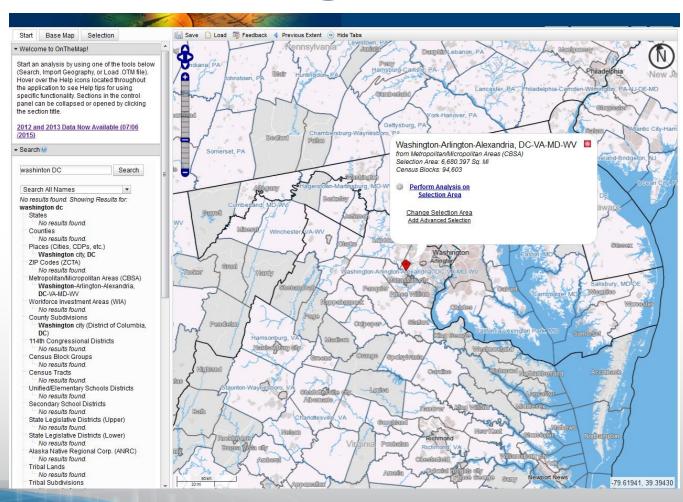
QWI Explorer



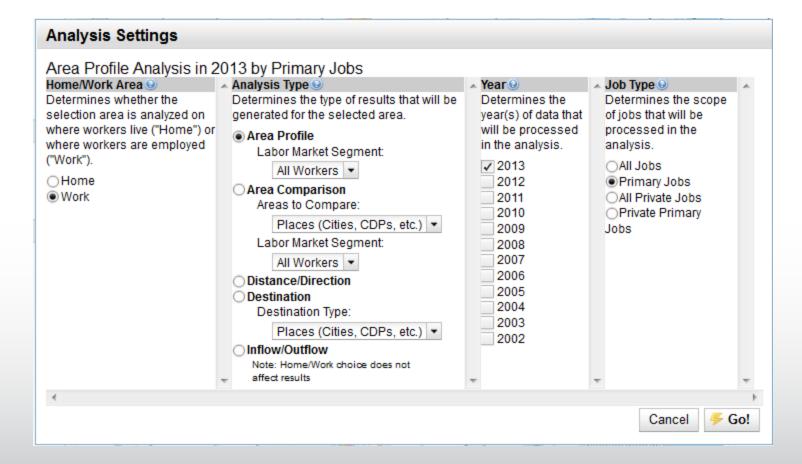
OnTheMap.ces.census.gov



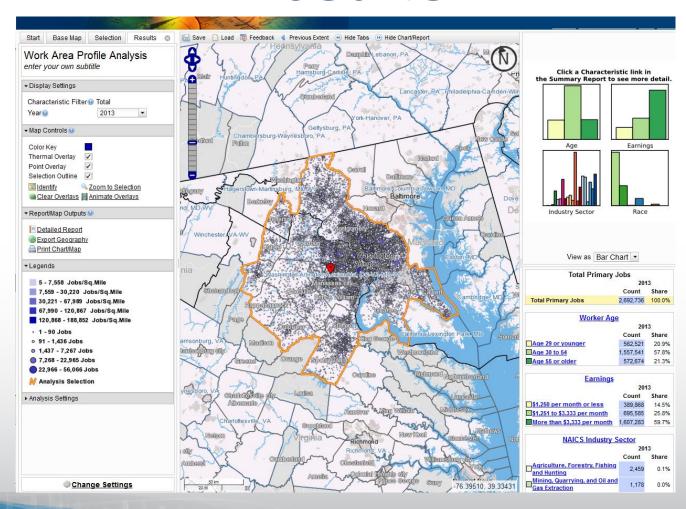
Getting Started



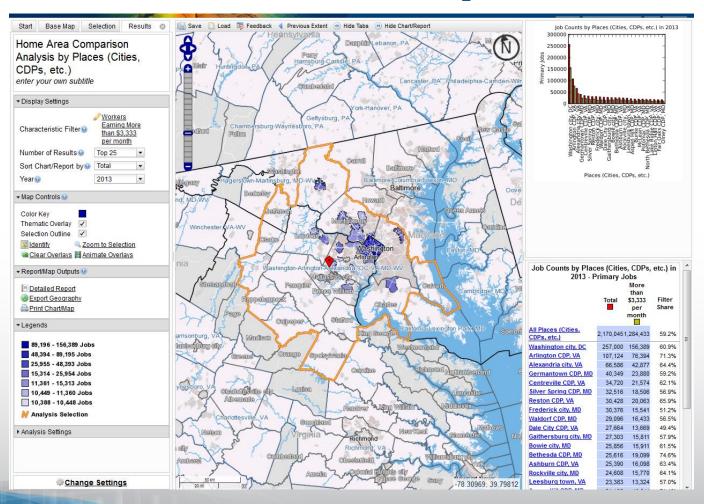
Analysis Settings



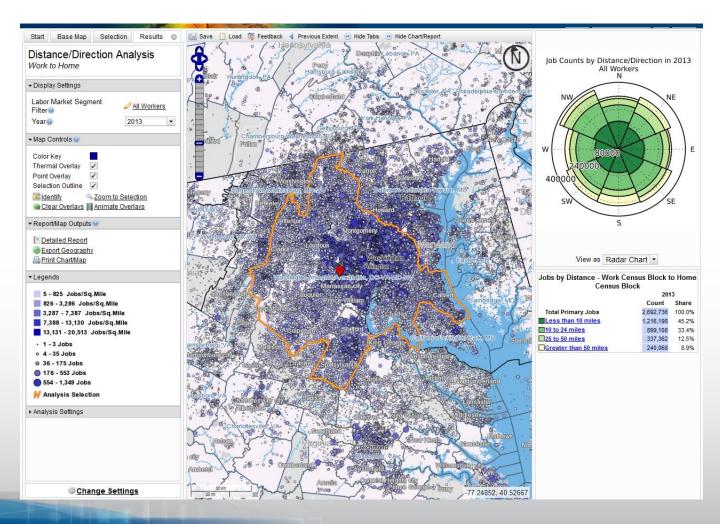
Results



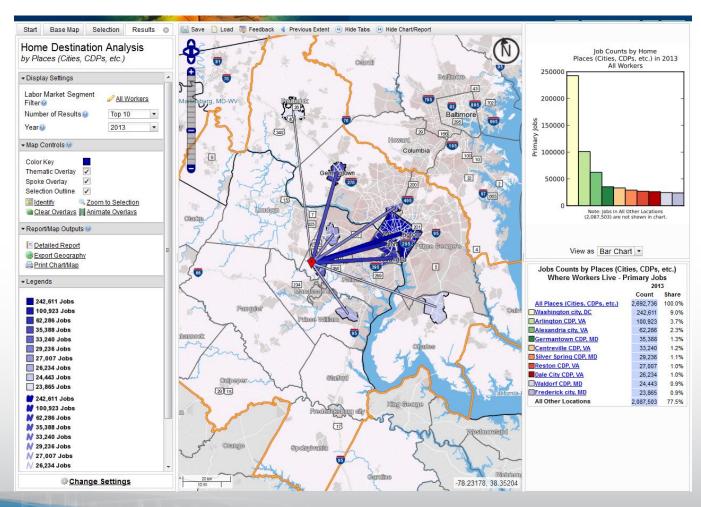
Home Area Comparison



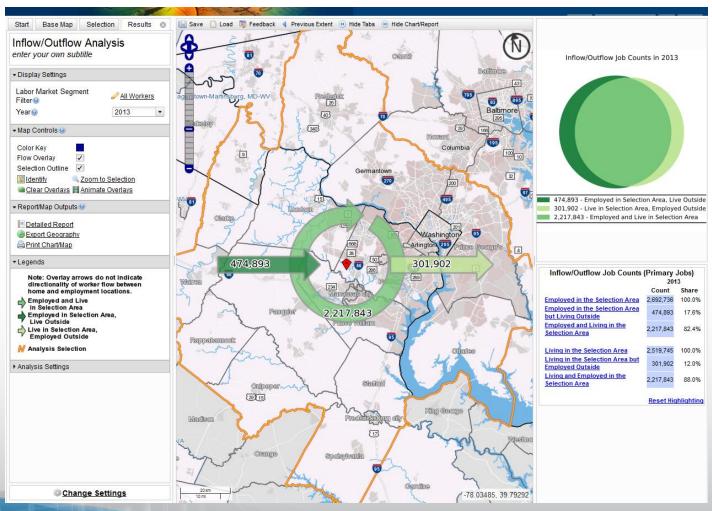
Distance/Direction



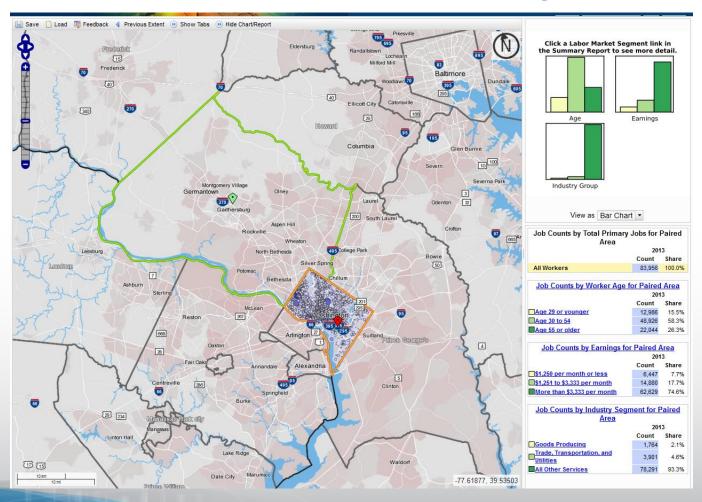
Destination



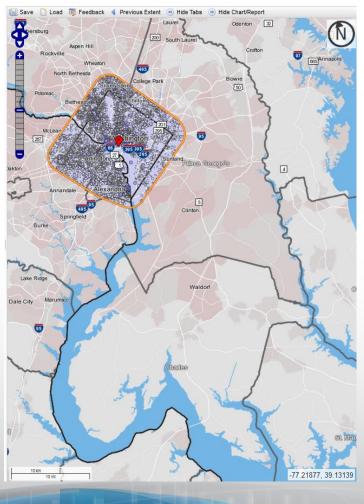
Inflow/Outflow



Paired Area Analysis



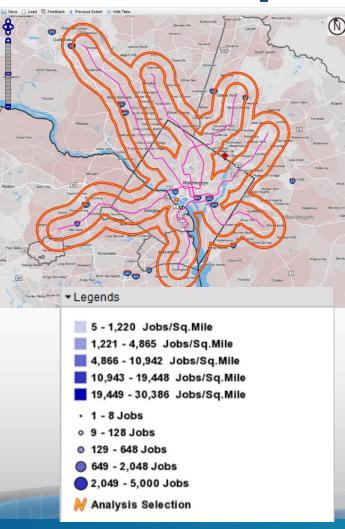
Selection Tab

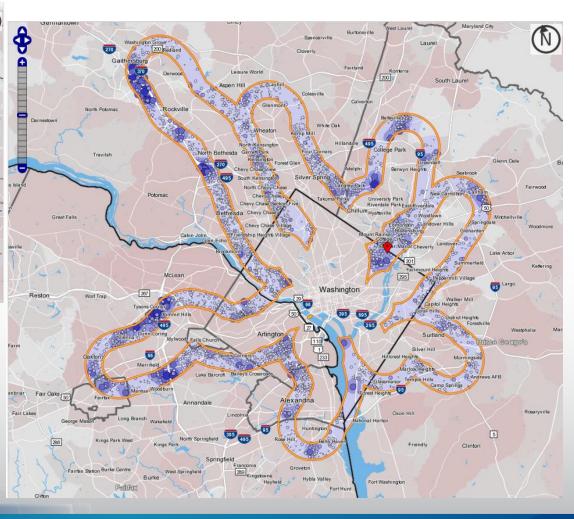


Total Primary Jobs				
	2013			
	Count	Share		
Total Primary Jobs	984,915	100.0%		
Worker Age				
	2013			
_	Count	Share		
Age 29 or younger	199,031	20.2%		
Age 30 to 54	574,406	58.3%		
Age 55 or older	211,478	21.5%		
<u>Earnings</u>				
	2013			
	Count	Share		
\$1,250 per month or less	107,311	10.9%		
\$1,251 to \$3,333 per month	215,749	21.9%		
More than \$3,333 per month	661,855	67.2%		
Worker Race				
- Worker Hues	2013			
	Count	Share		
White Alone	566,855	57.6%		
Black or African American	200.020	24.50/		
Alone	309,839	31.5%		
American Indian or Alaska Native Alone	4,840	0.5%		
Asian Alone	81,724	8.3%		
Native Hawaiian or Other Pacific Islander Alone	1,375	0.1%		
Two or More Race Groups	20,282	2.1%		

NAICS Industry Sector			
	2013		
	Count	Share	
Agriculture, Forestry, Fishing and Hunting	110	0.0%	
Mining, Quarrying, and Oil and Gas Extraction	177	0.0%	
<u>Utilities</u>	3,297	0.3%	
Construction	23,588	2.4%	
Manufacturing	8,388	0.9%	
Wholesale Trade	12,072	1.2%	
Retail Trade	49,983	5.1%	
Transportation and Warehousing	17,382	1.8%	
Information	28,106	2.9%	
Finance and Insurance	33,296	3.4%	
Real Estate and Rental and Leasing	19,946	2.0%	
Professional, Scientific, and Technical Services	187,971	19.1%	
Management of Companies and Enterprises	7,311	0.7%	
Administration & Support, Waste Management and Remediation	65,612	6.7%	
Educational Services	77,885	7.9%	
Health Care and Social Assistance	95,810	9.7%	
Arts, Entertainment, and Recreation	11,607	1.2%	
Accommodation and Food Services	83,257	8.5%	
Other Services (excluding Public Administration)	91,949	9.3%	
Public Administration	167,168	17.0%	

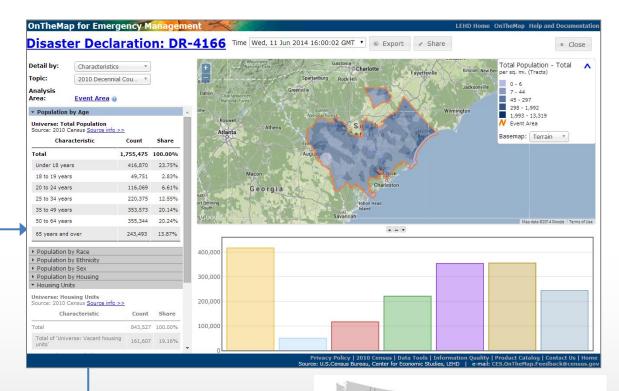
Importing Shapefiles





OnTheMap for Emergency Management

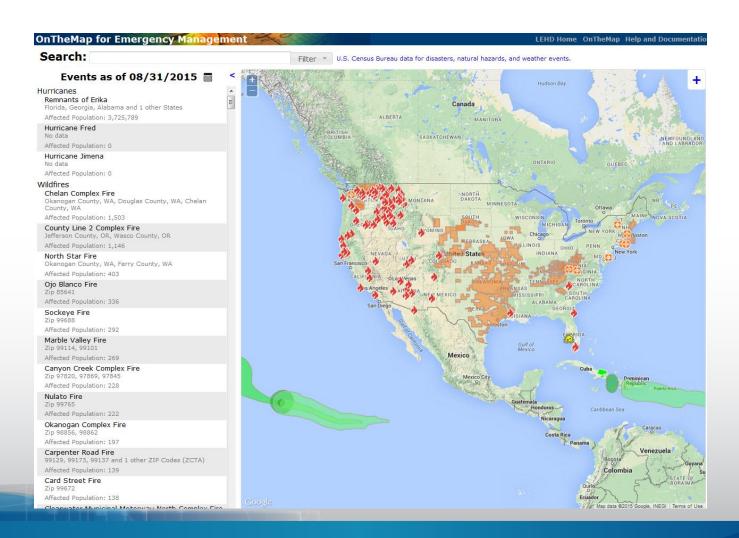




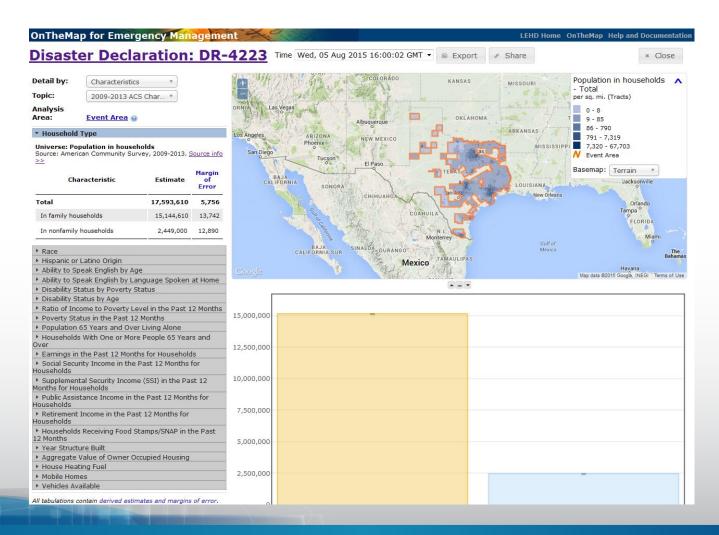
New Public Data Service for Emergency Preparedness & Response

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

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



Disaster Declaration: DR-4223



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