OnTheMap for Emergency Management

Providing Population and Workforce Counts during a Natural Disaster

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Longitudinal Employer-Household Dynamics
U.S. Census Bureau
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Overview

• LEHD Program – Longitudinal Employer-Household Dynamics
• Local Employment Dynamics Partnership
• Basic OnTheMap
• Advanced OnTheMap
• OnTheMap for Emergency Management
Local Employment Dynamics Partnership

- Partnership between 53 states/territories
- Not yet producing data = MA, PR, USVI
- Data sharing
- Local knowledge
- Comparable data for all states, counties, regions, and WIAs
- Innovative and cost-effective
- Uses existing data
- Creates new data products
Longitudinal Employer-Household Dynamics Program

• Data Tools
  – OnTheMap
  – OnTheMap for Emergency Management
  – LED Extraction Tool
  – QWI (Quarterly Workforce Indicators) Explorer
  – On the way out
    • Industry Focus
    • QWI Online
Data Refinery
Why Use Our Data?

• Links demographic data with both a home location and work location

• Users are able to examine job related statistics for a population who live in one place but work in another

• Examine the characteristics of people living in an area, but don't work there
Who Uses Our Data Tools?

- Transportation Planners
- Policy Makers
- City Planners
- State Planners
- Economists
- Emergency Management Professionals
Emergencies Matter
- High number and variety of events across U.S.
- Increased impact
  - General population increase
  - Pop increase in vulnerable areas
  - Increase in wealth / assets

Interest in Economic Impacts
- Direct vs Indirect
- Losses to Business (inability to operate, revenue)
- Losses due to Infrastructure, Transportation
- Losses to Govt’s (assets, revenue)

Limitations of Current Tools/ Approaches
- No National Reporting System (multiple orgs, inconsistent coverage and focus)
- Inadequate Geographic Scale (need for sub-county level)
- Lack of Real-time Data
WWW.Census.Gov
lehd.ces.census.gov
OnTheMap for Emergency Management
FEMA Disaster Declaration Area
Disaster Declaration: DR-4163

Vermont Severe Winter Storms (DR-4163)
Incident Period: December 20, 2013 to December 26, 2013
Major Disaster Declaration declared on January 29, 2014

Updates and Articles, Blogs, and News Releases
January 29, 2014

News Release
Federal Aid Programs for the State of Vermont Declaration

Following is a summary of key federal disaster aid programs that can be made available as needed and warranted under President Obama’s disaster declaration issued for the State of Vermont. Assistance for the State and Affected Local Governments can include as Required:

January 29, 2014
News Release
President Declares Disaster for Vermont

WASHINGTON, D.C. – The U.S. Department of Homeland Security’s Federal Emergency Management Agency announced that federal disaster aid has been made available to the State of Vermont to supplement state and local recovery efforts in the area affected by severe winter storms during the period December 20-26, 2013.
KMZ File
Detail by:
Topic:
Analysis Area: Event Area
Hurricane Sandy
OnTheMap
KML Export/Import
Import KML

Select Shapes from a KML/KMZ

Upload data from a KML/KMZ file.

KML file: Browse... Disaster Declaration DR-4163.kml

Cancel Import
Selection Tab
Area Profile
Area Comparison
Distance/Direction

[Map and chart showing job counts by distance/direction in 2011. The chart is a circular diagram divided into sectors, each representing a range of jobs per square mile. The map highlights specific areas with different job densities.]
Destination
Inflow/Outflow

OnTheMap

Inflow/Outflow Analysis

- Display Settings
  - Labor Market Segment Filter
  - All Workers
  - Year

- Map Controls
  - Color Key
  - Flow Overlay
  - Selection Outline
  - Identify
  - Zoom to Selection
  - Clear Overlays
  - Animate Overlays

- Report/Map Outputs
  - Detailed Report
  - Export Geography
  - Print Chart/Map

- Legends
  - Note: Overlay arrows do not indicate directionality of worker flow between home and employment locations.
  - Employed and Live in Selection Area
  - Employed in Selection Area, Live Outside
  - Live in Selection Area, Employed Outside

Inflow/Outflow Job Counts in 2011

- 22,797 - Employed in Selection Area, Live Outside
- 20,681 - Live in Selection Area, Employed Outside
- 110,070 - Employed and Live in Selection Area

Inflow/Outflow Job Counts (Primary Jobs)

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employed in the Selection Area</td>
<td>132,657</td>
<td>100.0%</td>
</tr>
<tr>
<td>Employed in the Selection Area but Living Outside</td>
<td>22,797</td>
<td>17.2%</td>
</tr>
<tr>
<td>Employed and Living in the Selection Area</td>
<td>110,070</td>
<td>82.8%</td>
</tr>
<tr>
<td>Living in the Selection Area</td>
<td>130,751</td>
<td>100.0%</td>
</tr>
<tr>
<td>Living in the Selection Area but Employed Outside</td>
<td>20,681</td>
<td>15.8%</td>
</tr>
<tr>
<td>Living and Employed in the Selection Area</td>
<td>110,070</td>
<td>84.2%</td>
</tr>
</tbody>
</table>

Reset Highlighting
OnTheMap Activity
In the Path of a Tornado

A preliminary EF-4 tornado at about two miles wide, moved through the Moore, Oklahoma area yesterday afternoon. This tornado led a 20 mile path of destruction and devastation, staying on the ground for about forty minutes.
Questions?

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