

# Getting Started with OnTheMap for Emergency Management Hurricanes

Welcome to **OnTheMap for Emergency Management: Hurricanes**. As emergencies unfold in real time, this online mapping and reporting application provides rapid access to labor market information for local areas, allowing users to view the characteristics of the affected workforce, such as the ages of workers, workers' earnings and affected industries.

## Getting Started

- **Home Page**

The Home Page is the single starting point for accessing the labor market data provided by the application for current and historical U.S. hurricanes.

### **Current Tropical Cyclone Activity Map**

The map on the Home Page provides a real time view of current tropical cyclone activity in the eastern Pacific and Atlantic basins. This map is provided by the National Weather Service and is linked to the National Hurricane Center home page at [www.nhc.noaa.gov](http://www.nhc.noaa.gov). Note that there is a different map for each basin. Click the tab above the map to change basin maps.

### **Storm List**

The Storm List on the right hand side of the Home Page displays a list of current and historical storms available for analysis. **For a storm to be available for analysis, it must first have made landfall.** This occurs when the cumulative wind swath touches or intersects with U.S. based land areas with U.S. Census blocks.

To select a storm from the list, Left-click once on the name of the storm you are interested. This will open the dashboard associated with the selected hurricane. If the Storm Name has been greyed out, there is no existing information.

- **Dashboard**

The storm dashboard page is designed to provide a single interface for accessing, viewing, and downloading the Local Employment Dynamics (LED) data for the wind swath area currently associated with the selected hurricane. The Storm page includes:

- A map displaying the location and density of jobs within the hurricane wind swath
- A tabular report providing further detail about the jobs within the wind swath including totals by location and characteristic
- Tools for downloading the tabular report and viewing dashboards for different points in time

- **Map Viewer**

The map viewer, located in the center-left portion on the storm dashboard, provides a graphical display of the current and historical location of the hurricane and the density of jobs within the land-based portion of the wind swath area.

The cumulative wind swath for a hurricane is depicted by an orange outline.

The job density overlay is represented by the blue color-shaded areas within the hurricane wind swath. Darker areas represent higher concentrations of jobs per square mile.

The map viewer also displays a Google Maps Satellite View basemap for reference.

○ **Map Navigation**

The map viewer provides a number of tools for navigating within the map view.

- Panning – Users can move laterally across the map by clicking on the map and dragging the map in the direction you wish to move.
- Zooming in or out – There are several different ways to change the map scale (i.e. move in or pull back from the map). The Zoom Ladder tool is displayed in the upper left portion of the map viewer. Move in closer to the map by clicking on the “+” button or by clicking on the ladder-like panel in the direction of the “+” button. Move away from the map by clicking on the “-“ button or by clicking on the ladder like panel in the direction of the “-“ button.

○ **Tabular Report**

The tabular report, located in the upper-right portion of the storm dashboard, displays 2008 job totals, within the hurricane wind swath, for various geographic or characteristic categories.

For expandable categories, click on the “+” to the left of the category name to display sub-categories and associated job totals. The columns of the table can be resized by clicking and dragging the column separator line in the preferred direction.

○ **Storm Information**

The Storm Information section, located in the lower-left portion on the storm dashboard, displays general interest storm-specific information (such as storm Name, Code, Lat/Long) and provides a dropdown list from which one can select the dashboard page for a different point-in-time for the same storm.

○ **General Page Controls**

The individual panels on the page can be resized. To resize a panel, click and drag the small grey bar found in the area separating the principal page components (Map Viewer, Storm List, Tabular Report) in the preferred direction. Note the other panels will adjust accordingly.

## U.S. Jobs Within Hurricane Wind Swath

Hurricane ALEX	Jobs
— Total	334,576
<input type="checkbox"/> Jobs by State, County, Place	
<input type="checkbox"/> Texas	334,576
<input type="checkbox"/> Jobs by Characteristics	
<input type="checkbox"/> Jobs by Worker Age	
<input type="checkbox"/> Jobs by Worker Earnings	
<input type="checkbox"/> Jobs by Industry Type (2-digit NAICS)	

No Jobs data is reported for storms that have not made landfall.

Job numbers refer to Total Primary Jobs in 2008 within the hurricane wind swath by location or characteristic.

Job numbers reported by location correspond to those jobs within the portion of the state, county, or place that is also located within the hurricane wind swath. Job numbers for characteristics are reported for the total wind swath area- all locations together.

Job numbers reported do not include states where LED does not have [2008](#) local employment data (CT, DC, MA, NC, NH, PR, and VI).

## Walkthrough Example

**OnTheMap for Emergency Management** offers rapid access to labor market information for areas where hurricanes have made U.S. landfall. With just a few keystrokes, users can open a storm dashboard providing:

- A map displaying the location and density of jobs within the current hurricane wind swath.
- A tabular report providing details about the jobs within the wind swath area including totals by location and characteristic.
- Tools for downloading the tabular labor market data and the ability to view and step through a hurricane's dashboard time-series.

For the walk through, let's find out how employment was affected by Hurricane Alex in 2010.

1. Upon entering the Home Page, select the hurricane that you would like to know more about from the Storm List column on the right side of the screen. For this walkthrough,

click Hurricane Alex. Clicking on Hurricane Alex opens the Alex-specific page. You can navigate back to this page at any time by clicking 'Home' in the menu bar.

OnTheMap **Hurricanes**  
for Emergency Management
Local Employment  
Dynamics Partnership

Getting Started
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**OnTheMap for Emergency Management** provides rapid access to labor market information for local areas, affected by emergency events such as hurricanes, tornados, floods, earthquakes or fires. Currently limited to hurricanes, the application will provide an easy-to-use tool that provides a live feed from the National Hurricane Center. When a storm's leading winds make landfall, in the U.S., the application will allow users to view the characteristics of the local workforce, such as the affected industries, the ages of workers and workers' earnings with a simple click of the link.

**Note:** OnTheMap for Emergency Management computes storms' impact on jobs from 2008 data of 46 states. The eligible states and territories not yet in the system are Connecticut (CT), the District of Columbia (DC), Puerto Rico (PR), the U.S. Virgin Islands (VI), Massachusetts (MA), and New Hampshire (NH). North Carolina (NC) is missing [2008](#) data and is not included in the jobs computation.

**To start,** select a storm from the list to the right. Jobs data will only be available when the leading winds have made landfall. Click on "Getting Started" to learn about using the application.

Eastern Pacific

Atlantic

11:03AM EDT  
Sep 14, 2010

48-hour formation potential: ■ Low <30% ■ Medium 30-50% ■ High >50%

Storm List

- 2010
- Hurricane FRANK
- Tropical Storm ESTELLE
- Hurricane JULIA
- Hurricane IGOR
- Tropical Storm HERMINE
- Tropical Storm GASTON
- Tropical Storm FIONA
- Hurricane EARL
- Hurricane DANIELLE
- Tropical Storm COLIN
- Tropical Storm BONNIE
- Hurricane ALEX

2. The map in the center of the page shows Alex's path and wind swath. To the right of the map, there is a tabular report displaying the number of jobs located within the wind swath.

OnTheMap *Hurricanes* for Emergency Management Local Employment Dynamics Partnership

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#### U.S. Jobs Within Hurricane Wind Swath

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— Total	334,576
<input type="checkbox"/> Jobs by State, County, Place	
<input type="checkbox"/> Texas	334,576
<input type="checkbox"/> Jobs by Characteristics	
<input type="checkbox"/> Jobs by Worker Age	
<input type="checkbox"/> Jobs by Worker Earnings	
<input type="checkbox"/> Jobs by Industry Type (2-digit NAICS)	

No Jobs data is reported for storms that have not made landfall.

Job numbers refer to Total Primary Jobs in 2008 within the hurricane wind swath by location or characteristic.

Job numbers reported by location correspond to those jobs within the portion of the state, county, or place that is also located within the hurricane wind swath. Job numbers for characteristics are reported for the total wind swath area- all locations together.

Job numbers reported do not include states where LED does not have 2008 local employment data (CT, DC, MA, NC, NH, PR, and VI).

**Storm Information**

Viewing Date/Time: 07/01/2010 16:01 (GMT)

Storm Name: Hurricane ALEX

Storm Code: ai012010

Storm Data Provided by the National Weather Service. The Hurricane Wind Swath is the area depicted by the orange outline in the map. The Job Density Overlay is represented by the blue color-shaded areas within the cumulative wind swath in the map. Darker areas represent higher concentrations of jobs per square mile.

3. The table is broken down by job location and job characteristics.

Hurricane ALEX		Jobs
— Total		334,576
<input type="checkbox"/> Jobs by State, County, Place		
<input type="checkbox"/> Texas		334,576
<input type="checkbox"/> Jobs by Characteristics		
<input type="checkbox"/> Jobs by Worker Age		
<input type="checkbox"/> Jobs by Worker Earnings		
<input type="checkbox"/> Jobs by Industry Type (2-digit NAICS)		

4. Click the [ + ] button next to 'Jobs by State, County, Place' reveal the affected area broken down by area and total number of jobs affected in each area. Click the [ + ] next to Texas and find Willacy. Click its [ + ] to view a list of Census-Designated Places (CDPs) and the number of jobs affected by Hurricane Alex in each CDP within Willacy county, TX.

## Jobs Within Hurricane Wind Swath

Hurricane ALEX	Jobs
— Total	334,576
<input type="checkbox"/> Jobs by State, County, Place	
<input type="checkbox"/> Texas	334,576
<input type="checkbox"/> Cameron	117,312
<input type="checkbox"/> Hidalgo	214,369
<input type="checkbox"/> Willacy	2,895
— Raymondville	2,257
— Lyford	223
— Lasara	148
— Ranchette Estates	95
— Sebastian	7
— Port Mansfield	3
— All Other Locations	162

- Click the [] button next to ‘Jobs by Characteristics’ to reveal the corresponding jobs broken down by age, earnings, and industry type (2-digit NAICS codes). NAICS codes are used to classify business establishments ([click](#) here for more information about NAICS codes). How many Finance and Insurance jobs were affected? Click on the [] button next to ‘Jobs by Industry Type’ and scroll down until you find the appropriate category.

Jobs Within Hurricane Wind Swath	
Hurricane ALEX	Jobs
+ Texas	334,576
- Jobs by Characteristics	
+ Jobs by Worker Age	
+ Jobs by Worker Earnings	
- Jobs by Industry Type (2-digit NAICS)	
- Agriculture, Forestry, Fishing and Hunting	6,519
- Mining, Quarrying, and Oil and Gas Extraction	2,473
- Utilities	2,670
- Construction	14,170
- Manufacturing	15,163
- Wholesale Trade	10,428
- Retail Trade	48,774
- Transportation and Warehousing	10,520
- Information	5,025
- Finance and Insurance	9,810

6. The Storm Information panel is below the Map Viewer. Storm data from the National Hurricane Center is shown here. A storm with historical results can be viewed by selecting the date and time from the dropdown menu next to 'Viewing Date/Time.' This refreshes the page to display the location and report results for the storm at the selected point in time. Data is updated and added for storms as it is made available by the National Hurricane Center.

**Storm Information**

Viewing Date/Time: 07/01/2010 16:01 (GMT) ▼

Storm Name: 07/01/2010 16:01 (GMT)

Storm Code: 07/01/2010 10:00 (GMT)  
07/01/2010 04:01 (GMT)

7. To download the job data in Excel format, click 'Download to XLS' in the toolbar.



The data comes in three individual worksheets (Jobs by Location, Jobs by Labor Market Segment, and Jobs by Industry Type), navigable by tabs. Formatting follows that used in the tabular reports.

8. To select a different storm, return to the Home Page by clicking on 'Home' in the menu bar.