

OnTheMap for Emergency Management: Data Sources

Local Employment Dynamics

Hurricanes and Tropical Storms

The hurricane data used in OnTheMap for Emergency Management is supplied by feeds from the [National Hurricane Center \(NHC\)](#) and include several detailed GIS formatted geographic representations of the storm area including: the current wind radii as well as the historical wind area (cumulative wind swath) and forecast area (uncertainty cone).

Current Wind Radii - Represents the forecasters' best estimates of the current location, intensity, and size of a tropical cyclone while the cyclone is ongoing. OnTheMap for Emergency Management displays both Hurricane and Tropical Storm Force wind areas (>60kn and >34kn). For additional details see <http://www.nhc.noaa.gov/aboutnhcgraphics.shtml#INITIALWIND>.

Forecast Area (Cone of Uncertainty) - Represents the probable track of the center of a tropical cyclone. For additional details see <http://www.nhc.noaa.gov/aboutnhcgraphics.shtml#WATCHWARN>.

Wind History (Cumulative Wind Swath) - Area representing how the size of the storm has changed and the areas potentially affected so far. OnTheMap for Emergency Management displays both Hurricane and Tropical Storm Force wind areas (>60kn and >34kn). For additional details see <http://www.nhc.noaa.gov/aboutnhcgraphics.shtml#CWIND>.

Details about these and other data sets available for hurricanes and tropical storms can be found at <http://www.nhc.noaa.gov/gis>.

The feeds that deliver the hurricane data are provided in Really Simple Syndication (RSS) format and are updated by the NHC every 4-6 hours. OnTheMap for Emergency Management automatically reads and incorporates updates from these feeds every 2 hours. Further details about the contents and access to the RSS feeds are available at <http://www.nhc.noaa.gov/aboutrss.shtml>.

Flood Outlook Areas

The flood data used in OnTheMap for Emergency Management includes Significant River Flood Outlook areas which are supplied daily by the [Hydrometeorological Prediction Center \(HPC\)](#) at the [National Weather Service](#). The data, provided in GIS format, includes representations for areas of active (Occurring or Imminent) or likely flooding in the forecast period. For additional details about data contents and access see <http://www.hpc.ncep.noaa.gov/nationalfloodoutlook/>.

Snow & Freezing Rain Probability Forecasts (Winter Storms)

The Snow and Freezing Rain probability forecasts data are supplied in GIS format daily by the [Hydrometeorological Prediction Center \(HPC\)](#) at the [National Weather Service](#). The snowfall data displayed in OnTheMap for Emergency Management represents areas with a moderate or high probability of receiving more than 4 inches of snow within the 24 hour forecast period. The freezing rain data displayed represents areas with a moderate or high probability of receiving more than .25 inches of freezing rain within the 24 hour forecast period.

For additional details about data contents and access see http://www.hpc.ncep.noaa.gov/wwd/winter_wx.shtml and <http://www.hpc.ncep.noaa.gov/wwd/about.shtml>.

Wildfires

The wildfire data in OnTheMap for Emergency Management includes active wild fire perimeters provided by the [Geospatial Multi-Agency Coordination Group \(GeoMAC\)](#), a group composed of technical and subject matter experts from the Department of Interior and Department of Agriculture. The data is updated regularly and provided in GIS format for public use.

For additional details about data contents and access methods see http://rmgsc.cr.usgs.gov/outgoing/GeoMAC/geomac_download_procedures.pdf.

Disaster Declaration Areas

The disaster declarations data displayed in OnTheMap for Emergency Management are defined and provided by the [Federal Emergency Management Agency \(FEMA\)](#). The declaration areas displayed include areas eligible for [Public Assistance](#) and [Individual Assistance](#). The data is updated as new declarations are made and provided in GIS format by means of RSS feeds.

For additional details about the data content and access methods see <http://gis.fema.gov/DataFeeds.html>.

For general details on the disaster declaration process, please see http://www.fema.gov/media/fact_sheets/declaration_process.shtm.

Base Map

The base maps displayed in OnTheMap for Emergency Management are provided by Google through the Google Maps Application Programming Interface (API). Details about Google Maps API are available at <http://code.google.com/apis/maps/documentation/javascript/reference.html>.

Workforce Data

The underlying workforce data displayed and reported in OnTheMap for Emergency Management are provided by the LEHD Origin-Destination Employment Statistics (LODES) database from [OnTheMap](#)- the Census Bureau's award winning web-based tool for performing workforce analytics based on where workers are employed and live. To learn more about this data please see the [OnTheMap Data Sources page](#) and [an Overview on the LEHD Origin-Destination Employment Statistics \(LODES\)](#).

The workforce data used in OnTheMap and OnTheMap for Emergency Management are a product of the [Local Employment Dynamics \(LED\) partnership](#), a unique partnership between States and the Census Bureau that integrates existing data on workers and employers from administrative records with demographic, business, and survey data. The result is cost-effective new public data products about local labor market characteristics at the Census block level.

Population Data

The Population and Housing data displayed and reported in OnTheMap for Emergency Management are based on the Decennial Summary File 1 (SF 1) which contains data compiled from 2010 Census questions asked of all people and about every housing unit. The data provides counts of the resident population of the United States. The U.S. resident population includes everyone whose usual place of residence was in the 50 states and the District of Columbia at the time of the 2010 Census.

Population items include sex, age, race, Hispanic or Latino origin, household relationship, household type, household size, family type, family size, and group quarters. Housing items include occupancy status, vacancy status, and tenure (whether a housing unit is owner-occupied or renter-occupied). The data items utilized in OnTheMap for Emergency Management are provided nationally at the U.S. Census block level and have been integrated directly into the application.

An overview of the Summary File 1 (SF1) data is available at <http://2010.census.gov/news/press-kits/summary-file-1.html>. Detailed technical documentation about the Summary File 1 can be found at <http://www.census.gov/prod/cen2010/doc/sf1.pdf>.

An overview of the 2010 Census is available at <http://2010.census.gov/2010census/data/index.php>.

Explore the 2010 Census data with one of the following interactive mapping tools:

<http://www.census.gov/geo/maps-data/maps/datamapper.html>

<http://2010.census.gov/2010census/popmap/>