JOINT ECONOMIC DATA OPERATIONS
HURRICANE SANDY

Len Preston
New Jersey State Data Center Network Meeting
June 19, 2013
OnTheMap for Emergency Management
OnTheMap for Emergency Management

Analysis Type: Worker Area Comparison
Geography Type: Counties

Workers by Counties

- Bergen County, NJ: 609,602 (10.4%)
- Middlesex County, NJ: 303,609 (16.0%)
- Essex County, NJ: 221,609 (16.0%)
- Hudson County, NJ: 221,609 (16.0%)
- Monmouth County, NJ: 221,609 (16.0%)
- Union County, NJ: 221,609 (16.0%)
- Somerset County, NJ: 163,884 (17.0%)
- Ocean County, NJ: 163,884 (17.0%)
- Atlantic County, NJ: 115,521 (17.0%)
- Cape May County, NJ: 29,301 (17.0%)

Workers by Inflow/Outflow Job Counts

- Employed in the Event Area: 2,193,608
- Employed in the Event Area but Living Outside: 573,608
- Employed and Living in the Event Area: 1,620,608
- Living in the Event Area but Employed Outside: 2,301,371
- Living in the Event Area and Employed in the Event Area: 673,320

Overlay Legend
- 29941 - 29992 Workers
- 39801 - 39802 Workers
- 79803 - 79822 Workers
- 148021 - 48040 Workers

NEW JERSEY STATE DATA CENTER

Source: U.S. Census Bureau, Center for Economic Studies | e-mail: CENSUS@njstatdatacenter.com
### Potentially Affected Population

<table>
<thead>
<tr>
<th></th>
<th>2010 Count</th>
<th>2010 Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>5,571,679</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

### Population by Age

<table>
<thead>
<tr>
<th>Age Group</th>
<th>2010 Count</th>
<th>2010 Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 18</td>
<td>1,295,412</td>
<td>23.2%</td>
</tr>
<tr>
<td>18 and over</td>
<td>4,276,267</td>
<td>76.8%</td>
</tr>
<tr>
<td>20 - 24</td>
<td>341,512</td>
<td>6.1%</td>
</tr>
<tr>
<td>25 - 34</td>
<td>727,597</td>
<td>13.1%</td>
</tr>
<tr>
<td>35 - 49</td>
<td>1,225,196</td>
<td>22.0%</td>
</tr>
<tr>
<td>50 - 64</td>
<td>1,074,419</td>
<td>19.3%</td>
</tr>
<tr>
<td>65 and above</td>
<td>768,340</td>
<td>13.8%</td>
</tr>
</tbody>
</table>

### Population by Race

<table>
<thead>
<tr>
<th>Race</th>
<th>2010 Count</th>
<th>2010 Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>3,669,613</td>
<td>65.9%</td>
</tr>
<tr>
<td>African American</td>
<td>795,902</td>
<td>14.3%</td>
</tr>
<tr>
<td>Asian</td>
<td>558,591</td>
<td>10.0%</td>
</tr>
<tr>
<td>AIAN</td>
<td>18,043</td>
<td>0.3%</td>
</tr>
<tr>
<td>NHPI</td>
<td>1,835</td>
<td>0.0%</td>
</tr>
<tr>
<td>Some Other Race</td>
<td>372,064</td>
<td>6.7%</td>
</tr>
<tr>
<td>Two or More Races</td>
<td>155,631</td>
<td>2.8%</td>
</tr>
</tbody>
</table>

### Population by Ethnicity

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>2010 Count</th>
<th>2010 Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>1,071,020</td>
<td>19.2%</td>
</tr>
<tr>
<td>Not Hispanic or Latino</td>
<td>4,500,659</td>
<td>80.8%</td>
</tr>
</tbody>
</table>

### Population by Sex

<table>
<thead>
<tr>
<th>Sex</th>
<th>2010 Count</th>
<th>2010 Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>2,704,054</td>
<td>48.5%</td>
</tr>
<tr>
<td>Female</td>
<td>2,867,825</td>
<td>51.5%</td>
</tr>
</tbody>
</table>
OnTheMap for Emergency Management
New Jersey Hurricane Sandy (DR-4086)

Incident period: October 26, 2012 to November 8, 2012

Major Disaster Declaration declared on October 30, 2012

Click here for information on how New Jersey seniors can protect themselves from Sandy-related scams

ABFE Map of New Jersey

Resources for Survivors

- Sign up to receive New Jersey recovery information by email
- Identifying rumors and combating misinformation

Follow the Hurricane Sandy recovery on social media:
- @FEMASandy on Twitter
- FEMA Sandy on Facebook
- More FEMA social media channels

Assistance to State, Local, Tribal and Territorial Governments and Certain Private, Non-Profit Organizations

Contact your State or Tribal Emergency Management Office to learn more about the Public Assistance program.

Are you a disaster survivor?

Apply Online at DisasterAssistance.gov

Or apply by phone by calling (800) 621-3362 or TTY (800) 462-7585.

Disaster Recovery Center Locator

Geographic Information
Division of Labor Market and Demographic Research

Activities in Support of Hurricane Sandy Recovery Efforts

• Assist and support various agency task forces
  • Joint Economic Data Operations (NJLWD)
    • NJ Department of Labor, NJ Secretary of State – Office for Planning Advocacy, NJ Business Action Center, Choose NJ, US Department of Commerce Economic Development Authority (USED), NJ Department of Treasury, NJ Office of GIS, FEMA
  
  • Housing Disaster Task Force/Information Management Interagency Task Force (NJ Department of Community Affairs)
    • NJ Department of Labor, FEMA, NJ State Police Office of Emergency Management, HUD, NJ Housing and Mortgage and Finance Agency, NJ Department of Community Affairs, NJ Office of GIS, Fannie Mae, Small Business Association, NJ Department of Banking and Insurance
Division of Labor Market and Demographic Research

Activities in Support of Hurricane Sandy Recovery Efforts

• Direct Data Support
  • Federal Emergency Management Agency (FEMA)
  • US Economic Development Authority (USEDA)
  • Governors Office of Recovery and Rebuilding (GORR)
  • NJ Business Action Center
  • Vendor Consulting Agencies
Joint Economics Data Operations Website
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

- Publications providing baseline pre-sandy data
  - NJ Labor Market Views
  - Regional Focus

- More than 70 maps highlighting key data
  - Population, Establishments by size, UI Claims, Housing

- Demographic profiles & worker Inflow/Outflow reports
  - Covers 195 municipalities in hard hit counties
  - Inflow Outflow Maps for all counties and selected cities
Joint Economics Data Operations Website
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

- Links to other key state agency websites
  - State of New Jersey Hurricane Sandy Information Site
  - Office of GIS
  - NJ Office of Emergency Management
  - Department of Community Affairs
  - Department of Environmental Protection
  - Department of Health
Joint Economic Data Operations Website
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

Joint Economic Data and Information

NJ Labor Market Views

Thirteen months after Hurricane Irene struck New Jersey in August, 2011, Hurricane Sandy brought even greater and more widespread destruction to the Garden State than its predecessor. The infrastructure and economy of much of New Jersey felt the devastating impact of winds and surging waters as the center of Hurricane Sandy swept offshore October 29, 2012, north of Atlantic City. More

Regional Focus - Local Area Labor Market Information

This issue of Regional Focus is based on data through September 2012 and does not reflect any impact on the region or state from Hurricane Sandy which struck New Jersey October 29, 2012 after this issue was completed. Future issues of regional focus will reflect the impact of that devastating storm.

Northern Region Issue December 6, 2012
Central Region Issue December 5, 2012
Southern Region Issue December 5, 2012

Related Links
- NJ Hurricane Sandy Information Center
- NJ Office of GIS - Hurricane Sandy GIS Resources
- NJ Office of GIS - Hurricane Sandy Impact Map
- NJ Office of Emergency Management Hurricane Sandy Link
- NJ Department of Health - Hurricane Sandy Link
- NJ Department of Environmental Protection
- NJ Department of Community Affairs Sandy Recovery Division
- NJ Department of Community Affairs Superstorm Sandy Action Plan and Resources
Joint Economics Data Operations Website

http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html
Joint Economics Data Operations Website

http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

U.S. Census Bureau Local Employment Dynamics
County Flows of Employment for Disaster Declaration

Workers (Private-Sector Only) by County - 2010

Resident Workers (Private-Sector Only) by County - 2010

Hurricane Sandy: Notes on LODES / OnTheMap Data Flows

U.S. Census Bureau OnTheMap Version 6.0

U.S. Census Bureau OnTheMap for Emergency Management

OnTheMap Inflow/Outflow Analysis

Inflow/Outflow Analysis shows the count and characteristics of worker flows in to, out of, and within the selected study area.
Joint Economics Data Operations Website
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

Home Destination Reports
Home Destination Report - Where Workers Live Who are Employed in the Selection Area - by Counties Source:

Click HERE for Home Destination Report in the following counties:
Atlantic County  Cape May County
Essex County    Hudson County
Middlesex County Monmouth County
Ocean County    Union County

OnTheMap for Emergency Management Municipal Profiles

For more information on this data, contact Leonard Preston at (800) 984-2218.
<table>
<thead>
<tr>
<th>Area Name</th>
<th>Total Population</th>
<th>Total Housing Units</th>
<th>Occupied Housing Unit</th>
<th>Total Vacant</th>
<th>For Rent</th>
<th>Rented, not occupied</th>
<th>For sale only</th>
<th>Sold, not occupied</th>
<th>For seasonal, occasional use</th>
<th>For migrant workers</th>
<th>Other vacant</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Jersey</td>
<td>8,791,894</td>
<td>3,553,562</td>
<td>3,214,360</td>
<td>339,202</td>
<td>92,118</td>
<td>4,578</td>
<td>39,260</td>
<td>8,145</td>
<td>134,903</td>
<td>156</td>
<td>60,042</td>
</tr>
<tr>
<td>Atlantic</td>
<td>274,549</td>
<td>126,647</td>
<td>102,847</td>
<td>23,800</td>
<td>3,469</td>
<td>180</td>
<td>1,837</td>
<td>366</td>
<td>15,231</td>
<td>21</td>
<td>2,696</td>
</tr>
<tr>
<td>Bergen County</td>
<td>905,116</td>
<td>352,388</td>
<td>335,730</td>
<td>16,658</td>
<td>6,807</td>
<td>373</td>
<td>2,665</td>
<td>900</td>
<td>2,093</td>
<td>4</td>
<td>3,816</td>
</tr>
<tr>
<td>Cape May</td>
<td>97,265</td>
<td>98,309</td>
<td>40,812</td>
<td>57,497</td>
<td>4,427</td>
<td>231</td>
<td>1,414</td>
<td>181</td>
<td>48,814</td>
<td>17</td>
<td>2,413</td>
</tr>
<tr>
<td>Essex County</td>
<td>783,969</td>
<td>312,954</td>
<td>283,712</td>
<td>29,242</td>
<td>16,537</td>
<td>656</td>
<td>3,259</td>
<td>620</td>
<td>924</td>
<td>1</td>
<td>7,245</td>
</tr>
<tr>
<td>Hudson County</td>
<td>634,266</td>
<td>270,335</td>
<td>246,437</td>
<td>23,898</td>
<td>11,918</td>
<td>509</td>
<td>3,785</td>
<td>468</td>
<td>1,343</td>
<td>27</td>
<td>5,848</td>
</tr>
<tr>
<td>Middlesex</td>
<td>809,858</td>
<td>294,800</td>
<td>281,186</td>
<td>13,614</td>
<td>5,303</td>
<td>281</td>
<td>2,719</td>
<td>601</td>
<td>1,244</td>
<td>4</td>
<td>3,462</td>
</tr>
<tr>
<td>Monmouth</td>
<td>630,380</td>
<td>258,410</td>
<td>233,983</td>
<td>24,427</td>
<td>5,271</td>
<td>318</td>
<td>2,838</td>
<td>739</td>
<td>11,101</td>
<td>13</td>
<td>4,147</td>
</tr>
<tr>
<td>Ocean County</td>
<td>576,567</td>
<td>278,052</td>
<td>221,111</td>
<td>56,941</td>
<td>4,822</td>
<td>318</td>
<td>4,565</td>
<td>841</td>
<td>42,056</td>
<td>4</td>
<td>4,335</td>
</tr>
<tr>
<td>Somerset</td>
<td>323,444</td>
<td>123,127</td>
<td>117,759</td>
<td>5,368</td>
<td>1,775</td>
<td>139</td>
<td>1,038</td>
<td>271</td>
<td>730</td>
<td>4</td>
<td>1,411</td>
</tr>
<tr>
<td>Union County</td>
<td>536,499</td>
<td>199,489</td>
<td>188,118</td>
<td>11,371</td>
<td>5,000</td>
<td>179</td>
<td>2,054</td>
<td>448</td>
<td>541</td>
<td>5</td>
<td>3,144</td>
</tr>
</tbody>
</table>

Source: 2010 Census of Population and Housing, U.S. Bureau of the Census
Prepared by: New Jersey Department of Labor & Workforce Development, Division of Labor Market & Demographic Research
New Jersey State Data Center, December 2012
Initial Unemployment Insurance Claims by Zip Code
October 28 through November 17, 2012

Initial UI Claims by Zip Code
1 - 98
99 - 256
259 - 482
525 - 1,086
1,339 - 2,558
New Jersey Unemployment Insurance Claims
Continuing Claims as of December 8, 2012

Legend
Claims By Company
- 1
- 2 - 3
- 4 - 5
- 6 - 10
- 11 - 25
- 26 - 50
- 51 - 100
- 101 - 500
- 501 - 948

Source: Unemployment Insurance Claims Records
Prepared by: New Jersey Department of Labor and Workforce Development
Division of Labor Market and Demographic Research, December 2012
Ocean County Establishments by Size
September 2011 3rd Quarter QCEW

Source: Quarterly Census of Employment and Wages 2011 3rd Quarter
Prepared By: New Jersey Department of Labor and Workforce Development
Division of Labor Market and Demographic Research, November 2012
Local Employment Dynamics OnTheMap
Worker Inflow/Outflow Report
Ocean County

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

42,792
115,907
89,830

Inflow/Outflow Job Counts in 2010

<table>
<thead>
<tr>
<th>Primary Jobs</th>
<th>Ocean County Count</th>
<th>Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Living in Ocean County</td>
<td>205,737</td>
<td>100.0%</td>
</tr>
<tr>
<td>Living and Employed in Ocean County</td>
<td>69,630</td>
<td>43.7%</td>
</tr>
<tr>
<td>Living in Ocean County but Employed Outside</td>
<td>115,907</td>
<td>58.5%</td>
</tr>
<tr>
<td>Employed in Ocean County</td>
<td>132,622</td>
<td>100.0%</td>
</tr>
<tr>
<td>Employed and Living in Ocean County</td>
<td>89,630</td>
<td>67.7%</td>
</tr>
<tr>
<td>Employed in Ocean County but Living Outside</td>
<td>42,792</td>
<td>32.3%</td>
</tr>
<tr>
<td>Net Job Inflow (+) or Outflow (-)</td>
<td>-73,115</td>
<td></td>
</tr>
</tbody>
</table>

Source: US Census Bureau Local Employment Dynamics

NEW JERSEY STATE DATA CENTER
## The Pros and Cons of LWD’s primary sources of Labor Market Information

<table>
<thead>
<tr>
<th>Current Employment Statistics</th>
<th>Quarterly Census of Employment and Wages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pro</strong></td>
<td><strong>Con</strong></td>
</tr>
<tr>
<td>• Most up-to-date industry data available</td>
<td>• Sample-based, and prone to revision</td>
</tr>
<tr>
<td>• Data available monthly and annually back to 1990</td>
<td>• Seasonally adjusted data only available at sector level</td>
</tr>
<tr>
<td>• Comparable to other states and nation</td>
<td>• 3-digit NAICS is often finest level of industry detail</td>
</tr>
<tr>
<td>• Benchmarked to QCEW to improve quality of data</td>
<td>• MSA is the finest level of geographic detail</td>
</tr>
<tr>
<td><strong>Pro</strong></td>
<td><strong>Con</strong></td>
</tr>
<tr>
<td>• Universal dataset derived from quarterly tax records</td>
<td>• Significant time lag</td>
</tr>
<tr>
<td>• Includes employment, wages and establishment data by industry</td>
<td>• Should not be used as a time series</td>
</tr>
<tr>
<td>• County level data available</td>
<td>• Industry wage data is suspect because it includes all taxable wages, including bonuses, which may skew averages</td>
</tr>
<tr>
<td></td>
<td>• Data suppression issues at finer levels of geographic and industry detail</td>
</tr>
</tbody>
</table>
Additional Data Limitations

• 2012 American Community Survey
  • Population Estimate Controls
    • July 1, 2011 to July 1, 2012 (pre Hurricane Sandy)
    • Only two months of Survey affected by Sandy
      • November and December 2012

• New Construction Authorized by Building Permits
  • Demolition and Alteration permits will measure recovery
FEMA Assistance
as of 6/17/13

- **$400.5 million** in FEMA grants approved for individuals and households
  - **$345.1 million** for housing assistance
  - **$55.3 million** for other needs

- **$793 million** in SBA disaster loans approved for homeowners, renters and businesses

- **$477.5 million** approved in FEMA Public Assistance grants to communities and some nonprofit organizations that serve the public

- **$3.5 billion** in total National Flood Insurance Program payments made on claims to date

- **261,696** people contacted FEMA for help or information

- **126,704** housing inspections completed
Contact Information

- Len Preston
- New Jersey Department of Labor and Workforce Development
- 609-984-2216
- lpreston@dol.state.nj.us
- www.nj.gov/labor
  - “Labor Market Information” on Left Navigation Bar
  - Look for and click on the NJSDC Logo