

JOINT ECONOMIC DATA OPERATIONS HURRICANE SANDY

Len Preston

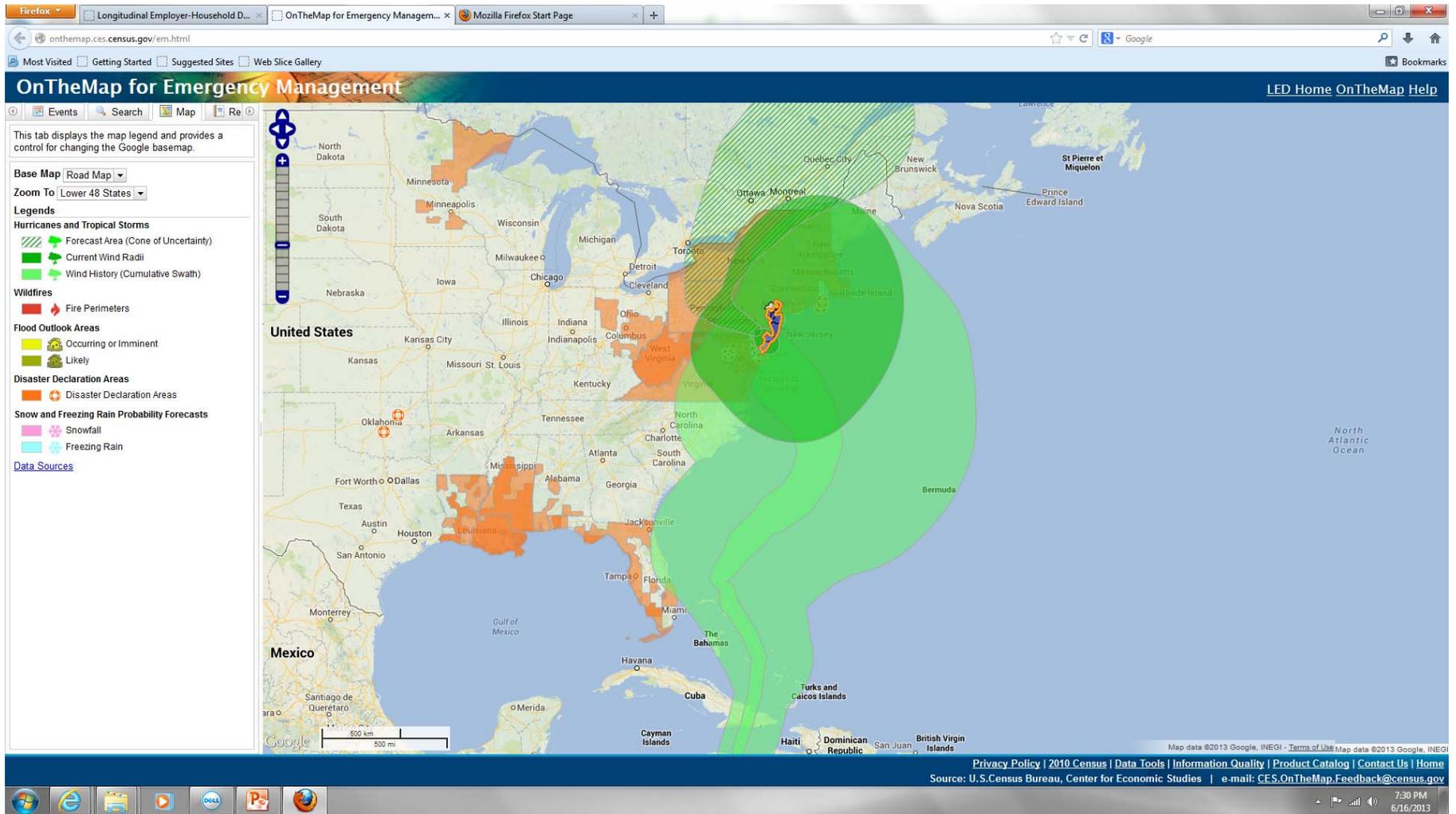
New Jersey State Data Center Network Meeting

June 19, 2013

NEW JERSEY STATE DATA CENTER



OnTheMap for Emergency Management



OnTheMap for Emergency Management

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onthemap.ces.census.gov/em.html

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OnTheMap for Emergency Management LED Home OnTheMap Help

Analysis Type: Population | Geography Type: Counties

Population by Counties

Vacant Housing Units

	Count	Share
Vacant	262,816	100.0%
For Rent	65,329	24.9%
For Sale	26,174	10.0%
Occasional Use	124,077	47.2%

Population by Housing

	Count	Share
Owner Occupied Population	3,546,517	63.7%
Renter Occupied Population	1,923,474	34.5%

Overlay Legend

- 1 - 1449 People
- 1450 - 23171 People
- 23172 - 117303 People
- 117304 - 370736 People
- 370737 - 905116 People

PDF Export | XLS Export | KML Export

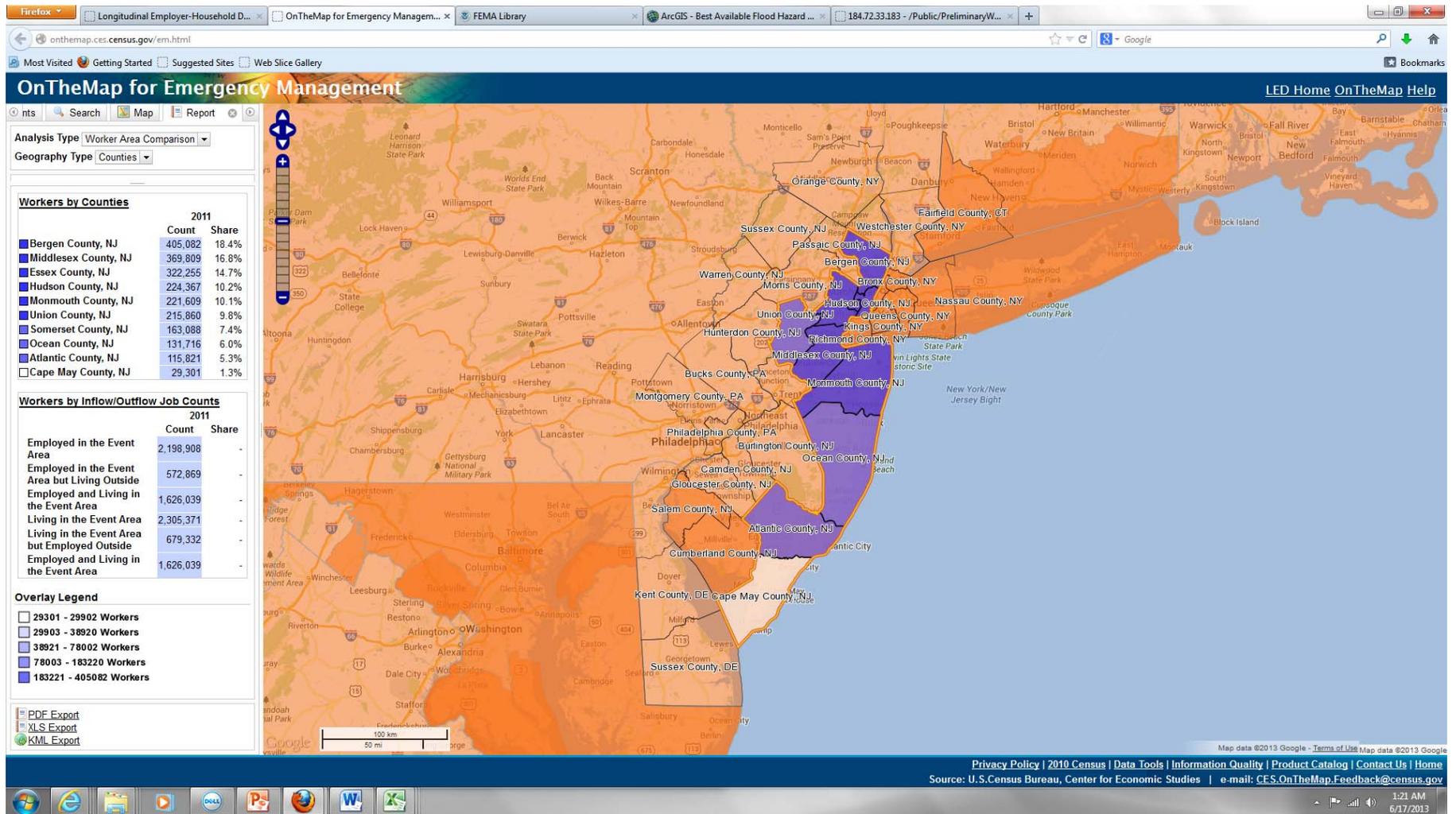
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Source: U.S.Census Bureau, Center for Economic Studies | e-mail: CES.OnTheMap.Feedback@census.gov

1:09 AM 6/17/2013

OnTheMap for Emergency Management



FEMA Disaster Declaration: DR-4086

OnTheMap for Emergency Management

Potentially Affected Population

	2010	
	Count	Share
Total	5,571,679	100.0%

Population by Age

	2010	
	Count	Share
Under 18	1,295,412	23.2%
18 and over	4,276,267	76.8%
20 - 24	341,512	6.1%
25 - 34	727,597	13.1%
35 - 49	1,225,196	22.0%
50 - 64	1,074,419	19.3%
65 and above	768,340	13.8%

Population by Race

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

Population by Ethnicity

	2010	
	Count	Share
Hispanic or Latino	1,071,020	19.2%
Not Hispanic or Latino	4,500,659	80.8%

Population by Sex

	2010	
	Count	Share
Male	2,704,054	48.5%
Female	2,867,625	51.5%

Housing Units

	2010	
	Count	Share
Total Housing	2,314,433	100.0%
Vacant	262,816	11.4%
Occupied	2,051,617	88.6%

Occupied Housing Units

	2010	
	Count	Share
Occupied	2,051,617	100.0%
Owner-Occupied	1,274,578	62.1%
Renter-Occupied	777,039	37.9%

Vacant Housing Units

	2010	
	Count	Share
Vacant	262,816	100.0%
For Rent	65,329	24.9%
For Sale	26,174	10.0%
Occasional Use	124,077	47.2%

Population by Housing

	2010	
	Count	Share
Owner Occupied Population	3,546,517	63.7%
Renter Occupied Population	1,923,474	34.5%

OnTheMap for Emergency Management

OnTheMap for Emergency Management

Analysis Type: Population
Geography Type: Counties

Population by Counties

County	Population
Bergen County, NJ	~800,000
Middlesex County, NJ	~750,000
Essex County, NJ	~700,000
Hudson County, NJ	~650,000
Monmouth County, NJ	~600,000
Ocean County, NJ	~550,000
Union County, NJ	~500,000
Camden County, NJ	~450,000
Passaic County, NJ	~400,000
Morris County, NJ	~350,000

Potentially Affected Population

	2010	
	Count	Share
Total	8,791,894	100.0%

Population by Age

	2010	
	Count	Share
Under 18	2,065,214	23.5%
18 and over	6,726,680	76.5%
20 - 24	541,238	6.2%
25 - 34	1,109,801	12.6%
35 - 49	1,942,813	22.1%
50 - 64	1,720,845	19.6%
65 and above	1,185,993	13.5%

Population by Race

PDF Export
XLS Export
KML Export

FEMA Disaster Declaration: DR-4086
Last Update: Tue, 30 Oct 2012 12:00:02 GMT
[View Report](#)
[View at Fema.gov](#)

FEMA Disaster Declaration: EM-3354
Last Update: Wed, 29 May 2013 20:00:01 GMT
[View Report](#)
[View at Fema.gov](#)

FEMA Disaster Declaration: DR-4085
Last Update: Tue, 30 Oct 2012 12:00:02 GMT
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[View at Fema.gov](#)

FEMA Disaster Declaration: EM-3351
Last Update: Wed, 29 May 2013 20:00:01 GMT
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Post-Tropical Cyclone Sandy: Wind History 34kn (Cumulative Swath)
Last Update: Tue, 30 Oct 2012 02:49:58 GMT
[View Report](#)

Post-Tropical Cyclone Sandy: Current Wind Radii 34kn
Last Update: Tue, 30 Oct 2012 02:49:58 GMT
[View Report](#)

Source: U.S. Census Bureau, Center for Economic Studies | e-mail: CES.OnTheMap.Feedback@census.gov

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www.fema.gov/disaster/4086#tabs-1

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What are you looking for?

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[Designated Areas](#)

[Disaster Federal Register Notices](#)

[FOIA Statistics](#)

[News Releases](#)

New Jersey Hurricane Sandy (DR-4086)

Incident period: October 26, 2012 to November 8, 2012
Major Disaster Declaration declared on October 30, 2012



VIEW THE NEW JERSEY RECOVERY

[Click here for information on how New Jersey seniors can protect themselves from Sandy - related scams](#)

[ABFE Map of New Jersey](#)

Follow the Hurricane Sandy recovery on social media:

- [@FEMASandy](#) on Twitter
- [FEMA Sandy](#) on Facebook
- More [FEMA social media channel](#)

Resources for Survivors

- [Sign up to receive New Jersey recovery information by email](#)
- [Identifying rumors and combatting misinformation](#)

[Share/Email This Page](#)

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](#)
Apply via a smartphone at [m.fema.gov](#)
Or apply by Phone by calling (800) 621-3362 or TTY (800) 462-7585.

[Disaster Recovery Center Locator](#)

Geographic Information





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www.arcgis.com/home/webmap/viewer.html?webmap=2f0a884bfb434d76af8c15c26541a545&extent=-74.404,40.3276,-73.8657,40.5511

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ArcGIS | **Best Available Flood Hazard Data** | New Map | My Content | Help | Sign In

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Legend

County Map Status

- Advisory
- Preliminary Work Map
- Preliminary Map
- Upcoming Preliminary Work Map

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2/25/2013 5:00 AM	911153	Point Pleasant NE.pdf
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2/25/2013 5:00 AM	2608442	Point Pleasant SE.pdf
2/25/2013 5:00 AM	6595239	Point Pleasant SW.pdf
2/25/2013 5:00 AM	9266592	Seaside Park NE.pdf
2/25/2013 5:00 AM	3947725	Seaside Park NW.pdf
2/25/2013 5:01 AM	3005942	Seaside Park SW.pdf
2/25/2013 5:01 AM	3127867	Ship Bottom NE.pdf
2/25/2013 5:01 AM	3913747	Ship Bottom NW.pdf
2/25/2013 5:01 AM	2770768	Ship Bottom SE.pdf
2/25/2013 5:01 AM	4417733	Ship Bottom SW.pdf
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2/25/2013 5:01 AM	4464174	Toms River NW.pdf
2/25/2013 5:01 AM	7948647	Toms River SE.pdf
2/25/2013 5:01 AM	2198439	Tuckerton NE.pdf
2/25/2013 5:01 AM	4635765	Tuckerton NW.pdf
2/25/2013 5:01 AM	2862476	Tuckerton SE.pdf
2/25/2013 5:01 AM	2486198	Tuckerton SW.pdf
2/25/2013 5:01 AM	3956932	West Creek SE.pdf
2/25/2013 5:01 AM	2532080	West Creek SW.pdf

Windows taskbar showing icons for Internet Explorer, Firefox, ArcGIS, and Adobe Reader. System tray shows 9:23 PM 6/16/2013.

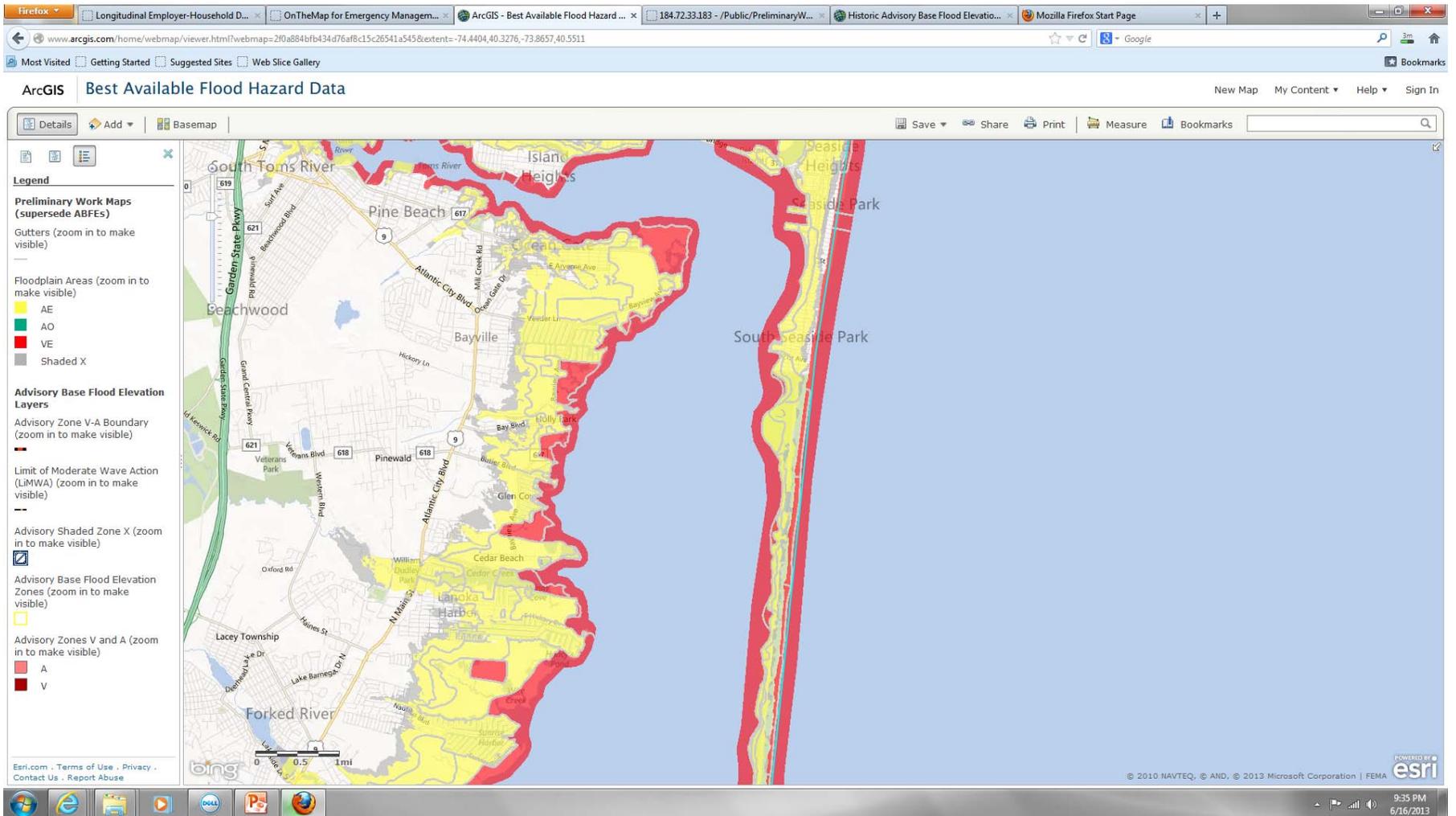


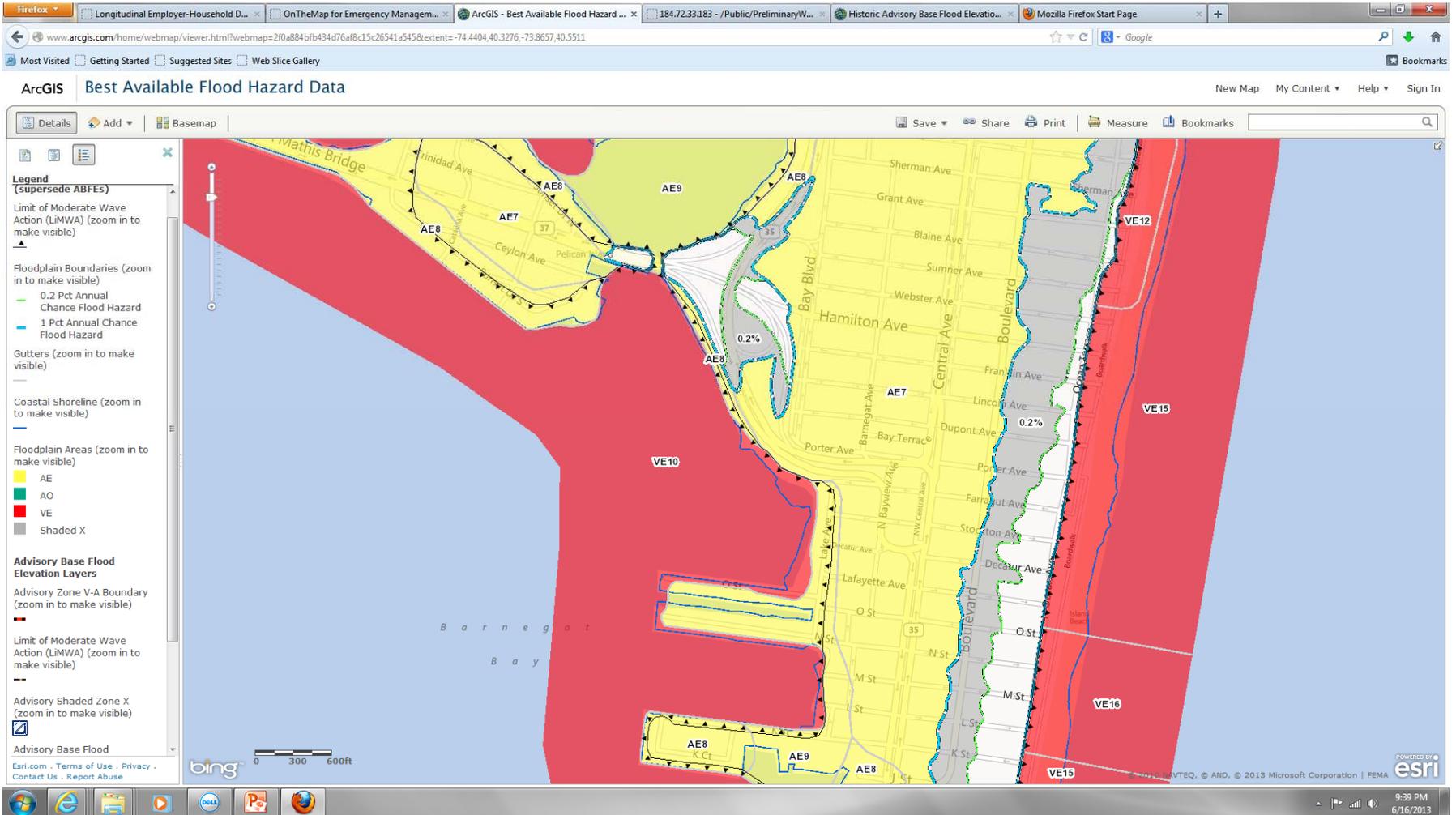
ADVISORY BASE FLOOD ELEVATION MAP
OCEAN COUNTY
NEW JERSEY

MAP ID: SEASIDE PARK SW
DATE OF MAP: DECEMBER 12, 2012



<p>ADVISORY BASE FLOOD ELEVATIONS</p>	<p>USAGE</p>	<p>LEGEND</p>
<p>This map shows Advisory Base Flood Elevations (ABFEs) developed by FEMA. Use the QR code to the right, or navigate to http://www.region2coastal.com/ for more information on how they were determined.</p> <p>These ABFEs can serve as a guide to understanding current coastal flood hazard risk and the elevations that communities should build to in order to protect themselves from future flood events. As part of the long term recovery effort, the ABFEs are a tool for Federal, State, and local officials, building officials, builders and architects, insurance professionals, and property owners to make informed decisions during rebuilding and to mitigate losses from future flood events, safeguard lives, and protect the private and public investment in rebuilding.</p>	<p>The elevations shown on this map are considered best available data until issuance of updated Flood Insurance Rate Maps.</p> <p>OBSERVED SANDY SURGE ELEVATIONS¹</p> <p>LA</p> <p>Approximately 6-7 ft on this Panel</p>	<p>Flood Advisory Related Data</p> <ul style="list-style-type: none"> Advisory Base Flood Elevation Zone (ABFE) 1% Advisory Base Flood Elevation, feet 0.2% Advisory Base Flood Elevation, feet Advisory Flood Hazard Zone V Area of Moderate Wave Action² Advisory Flood Hazard Zone A Advisory Limit of the 1% Annual Chance Flood Hazard Area Advisory Limit of the 0.2% Annual Chance Flood Hazard Area Advisory Shaded Zone X Effective FEMA Panel Boundary <p>Hurricane Sandy Related Data</p> <ul style="list-style-type: none"> Provisional Hurricane Sandy Surge Elevation³ <p>Geographic Identifiers</p> <ul style="list-style-type: none"> County
<p>NOTES</p>		
<p>¹ Measured in feet relative to the North American Vertical Datum of 1988 (NAVD88). To convert from NAVD88 to the National Geodetic Vertical Datum of 1929, add the following county-wide value(s): Ocean (1.2 ft)</p> <p>² Each whole-foot 1% annual chance Advisory Base Flood Elevation shown applies to all properties located in the mapped zone, with zone boundaries outlined in yellow.</p> <p>³ Each whole-foot 0.2% annual chance Advisory Base Flood Elevation shown applies to all properties located in the mapped zone, with zone boundaries outlined in yellow.</p> <p>⁴ Depicts the extent of the "Coastal A Zone" or area of moderate wave action where wave heights are between 1.5 and 3 feet. The FEMA Coastal Construction Manual, American Society of Civil Engineers, and the 2012 International Residential Building Code recommend Zone V construction practices in this area.</p> <p>⁵ Depicts the extent of the Coastal Barrier Resources Act (CBRA). CBRA System Units are shown on this map to advise users where Federal funding is unavailable for rebuilding or rebuilding substantially damaged structures. For official delineations of the CBRA, please refer to the U.S. Fish and Wildlife Service at http://www.fws.gov/cbra/.</p> <p>Data Sources:</p> <p>¹ www.fema.gov/; U.S. Geological Survey Rapid Deployment Gauges and High Water Marks (Provisional data retrieved on 11/27/2012). Current data can be found at http://www.water.usgs.gov/hydroinformatics/2012/cbma/; Base Map: Bing Maps; ² www.fema.gov/; ³ www.fema.gov/; NOAA National Weather Service; ⁴ www.fema.gov/; ⁵ www.fema.gov/</p> <p>MAPS FOR ADVISORY PURPOSES ONLY - NOT FOR INSURANCE RATING PURPOSES</p> <p><small>For insurance rating purposes refer to the effective Flood Insurance Rate Map (FIRM) available from your local floodplain administrator or the FEMA Map Service Center (http://www.fema.gov/)</small></p>		





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 (USEDA), 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 Economics Data Operations Website

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

Department of Labor and Workforce Development | Joint Economic Data and Information - Microsoft Internet Explorer provided by N

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

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Department of Labor and Workforce Development | J...

LWD Home > Labor Market Information > Hurricane Sandy Joint Economic Data Operations > Joint Economic Data and Information

Joint Economic Data and Information

NJ Labor Market Views

NJ Labor Market Views
A Post-Hurricane Sandy Preview of New Jersey's Hardest Hit Areas
The Garden State's economic recovery is well underway, but the impact of Hurricane Sandy remains a significant challenge. This report provides a detailed look at the state's labor market, highlighting the areas most affected by the storm and the steps being taken to support recovery.

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 onshore October 29, 2012, north of Atlantic City. [More](#)

Regional Focus - Local Area Labor Market Information

Regional Focus: North Jersey
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. Later issues of regional focus will reflect the impact of that devastating storm

[Northern Region Issue December 5, 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

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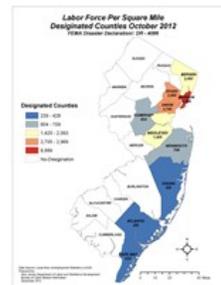
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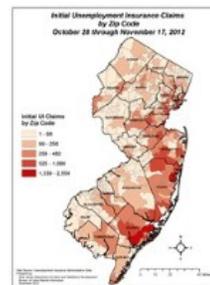
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

- ▶ Vocational Rehabilitation
- ▶ Wage & Hour
- ▶ Workers' Compensation
- ▶ Workforce Development

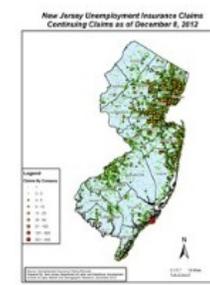
New Jersey State Maps Labor Force



Initial Claims

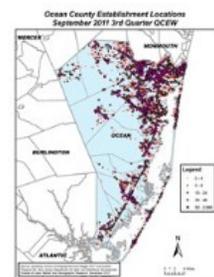


Continuing Claims



County Maps

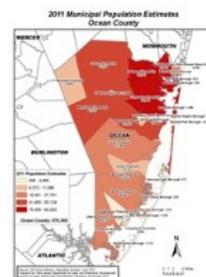
Establishment Locations



[Atlantic](#)
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[Hudson](#)
[Monmouth](#)
[Somerset](#)

[Bergen](#)
[Essex](#)
[Middlesex](#)
[Ocean](#)
[Union](#)

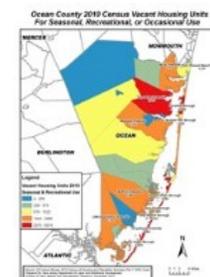
Population Estimates



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Vacant Housing Units



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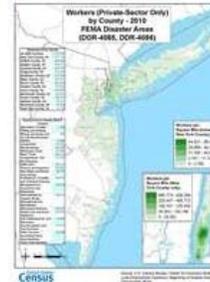
http://lwd.dol.state.nj.us/labor/lpa/sandy/Sandy_index.html

U.S. Census Bureau Local Employment Dynamics

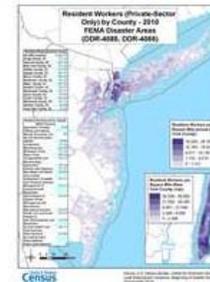
County Flows of Employment for Disaster Declaration



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

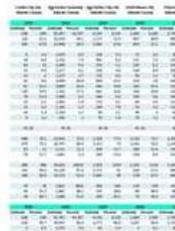
Home Destination Reports

Home Destination Report - Where Workers Live Who are Employed in the Selection Area - by Counties Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics.

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



Municipality	Population	Area	Other Data
Atlantic City	39,000	10.0	...
Camden	35,000	10.0	...
Freehold	12,000	10.0	...
... (many more rows)

[Atlantic County](#) [Cape May County](#)
[Essex County](#) [Hudson County](#)
[Middlesex County](#) [Monmouth County](#)
[Ocean County](#) [Union County](#)

For more information on this data, contact [Leonard Preston](#) at (609) 984-2216.

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The New Jersey Department of Labor and Workforce Development is an equal employment opportunity employer and provides equal opportunity programs.

**Population, Housing Occupancy and Vacant Status by County and Municipality: 2010 Census of Population & Housing
New Jersey and Ten Designated Counties**

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

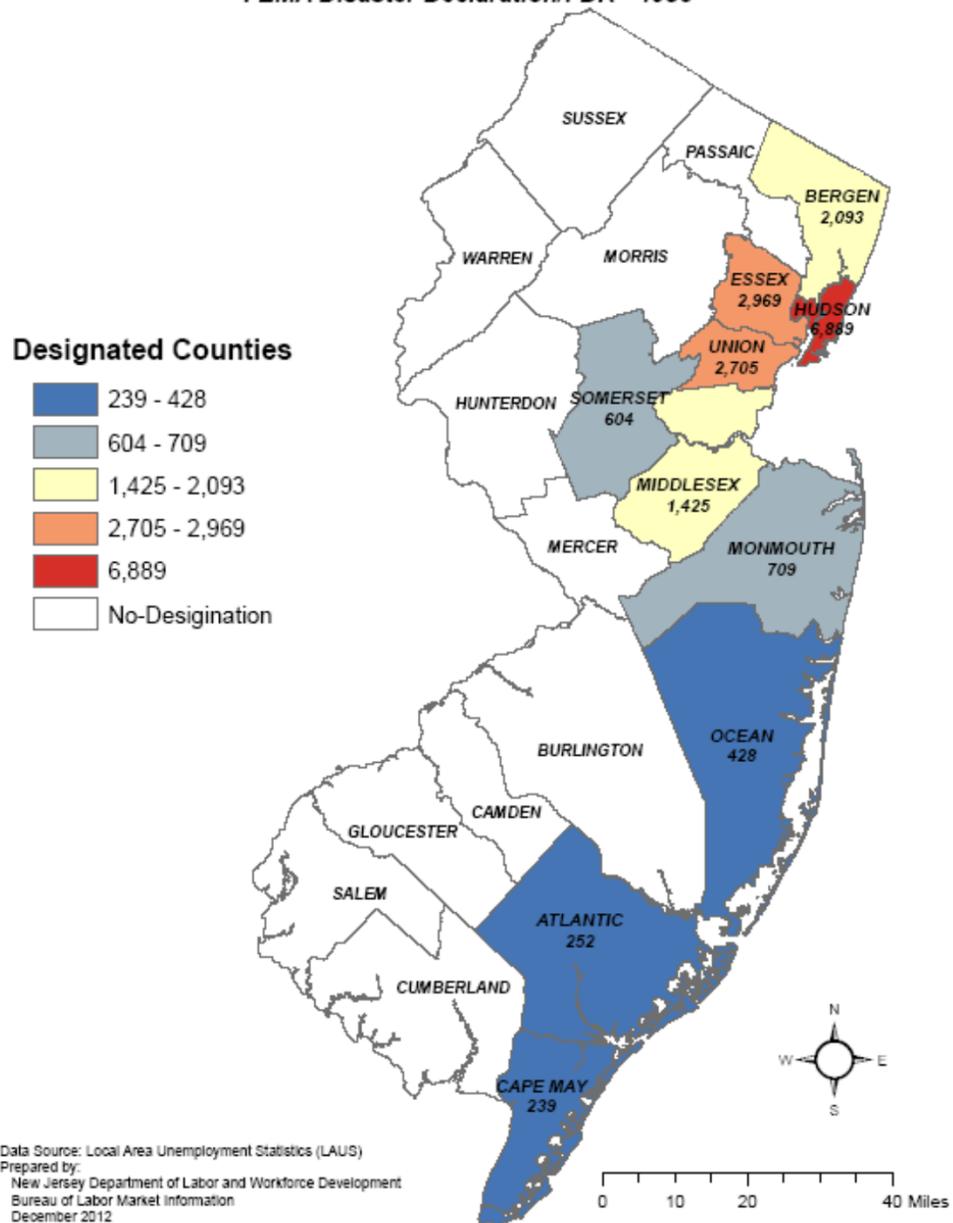
Source: 2010 Census of Population and Housing, U.S. Bureau of the Census

Prepared by: New Jersey Department of Labor & Workforce Development, Division of Labor Market & Demographic Research

New Jersey State Data Center, December 2012

Labor Force Per Square Mile Designated Counties October 2012

FEMA Disaster Declaration/: DR - 4086

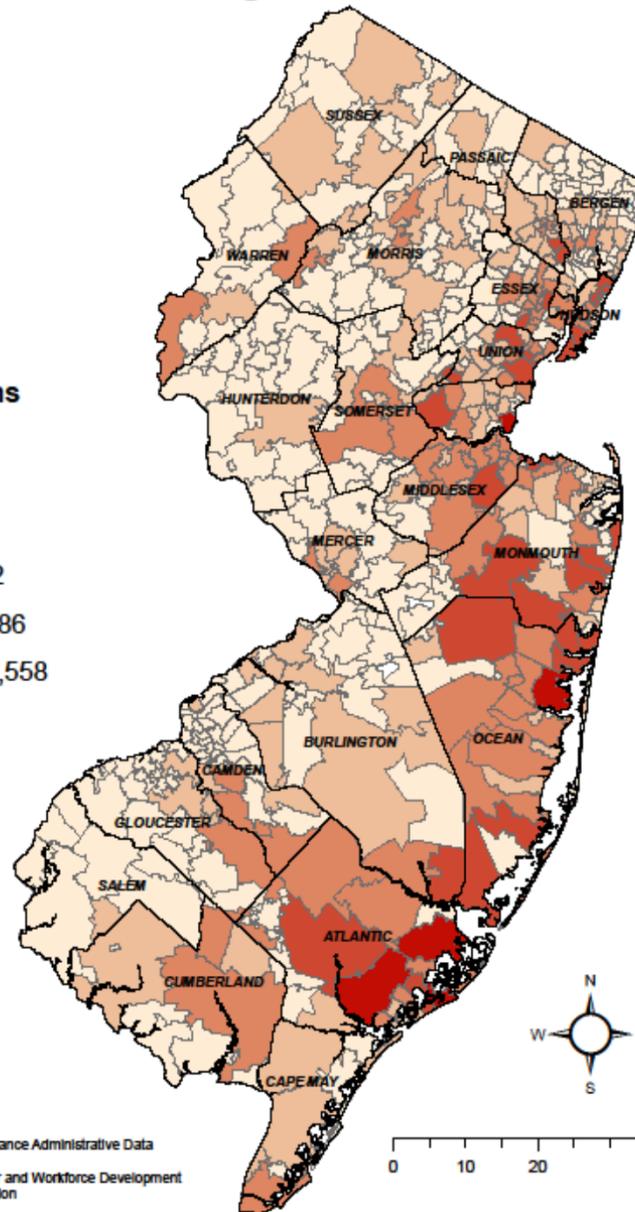
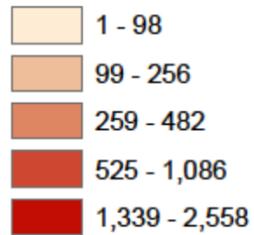


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**Initial Unemployment Insurance Claims
by Zip Code
October 28 through November 17, 2012**

**Initial UI Claims
by Zip Code**

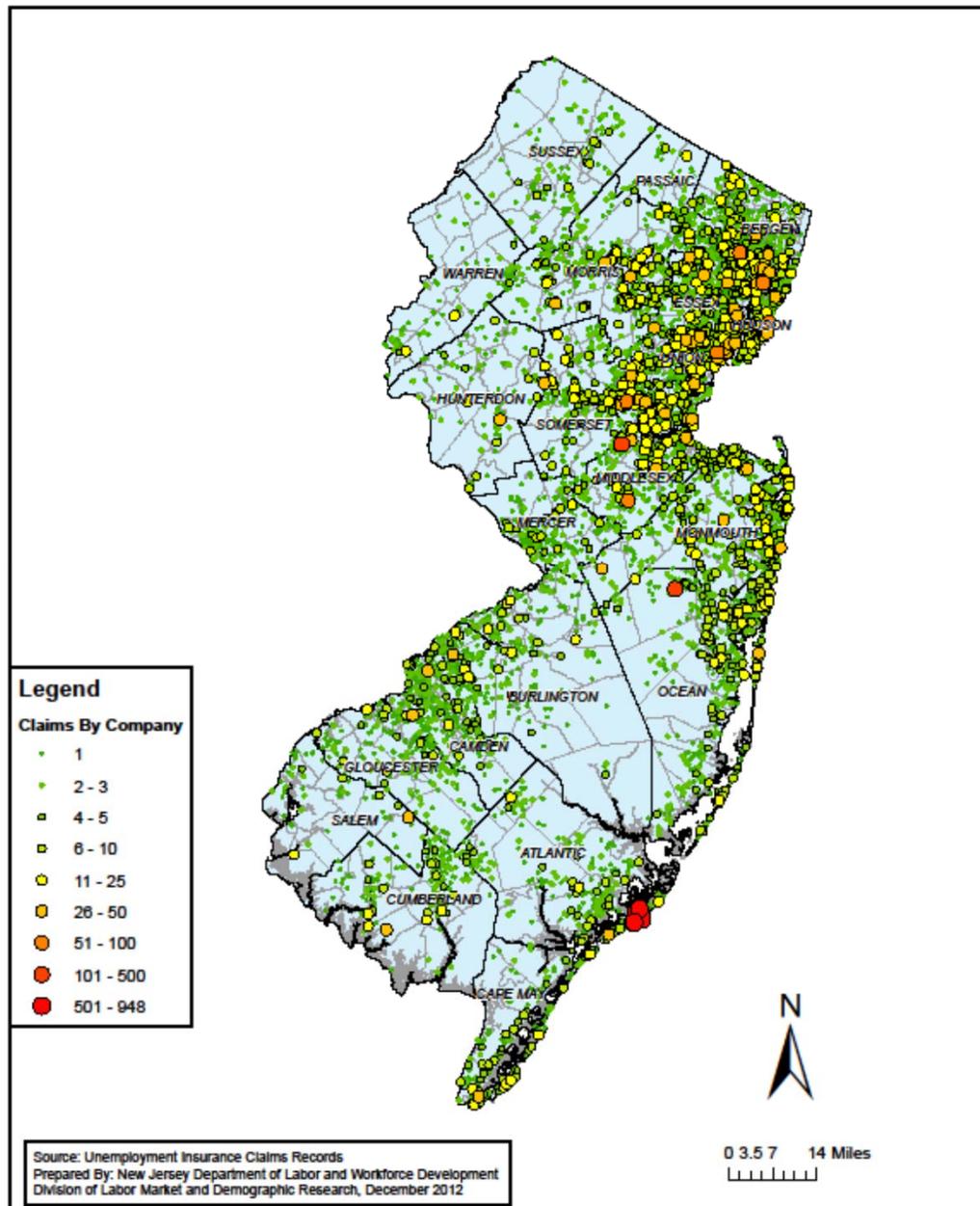


Data Source: Unemployment Insurance Administrative Data
Prepared by:
New Jersey Department of Labor and Workforce Development
Bureau of Labor Market Information
November 2012

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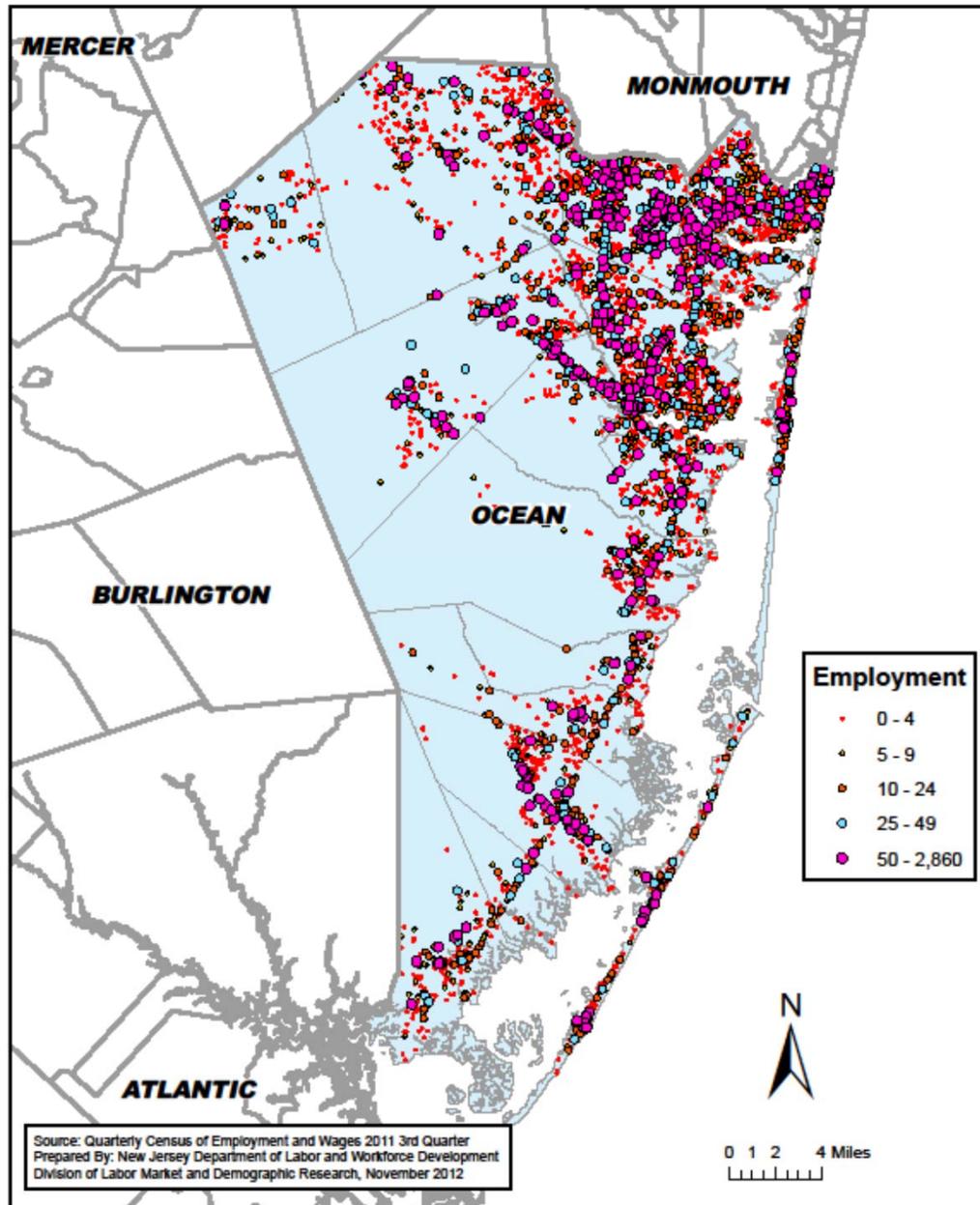
New Jersey Unemployment Insurance Claims Continuing Claims as of December 8, 2012



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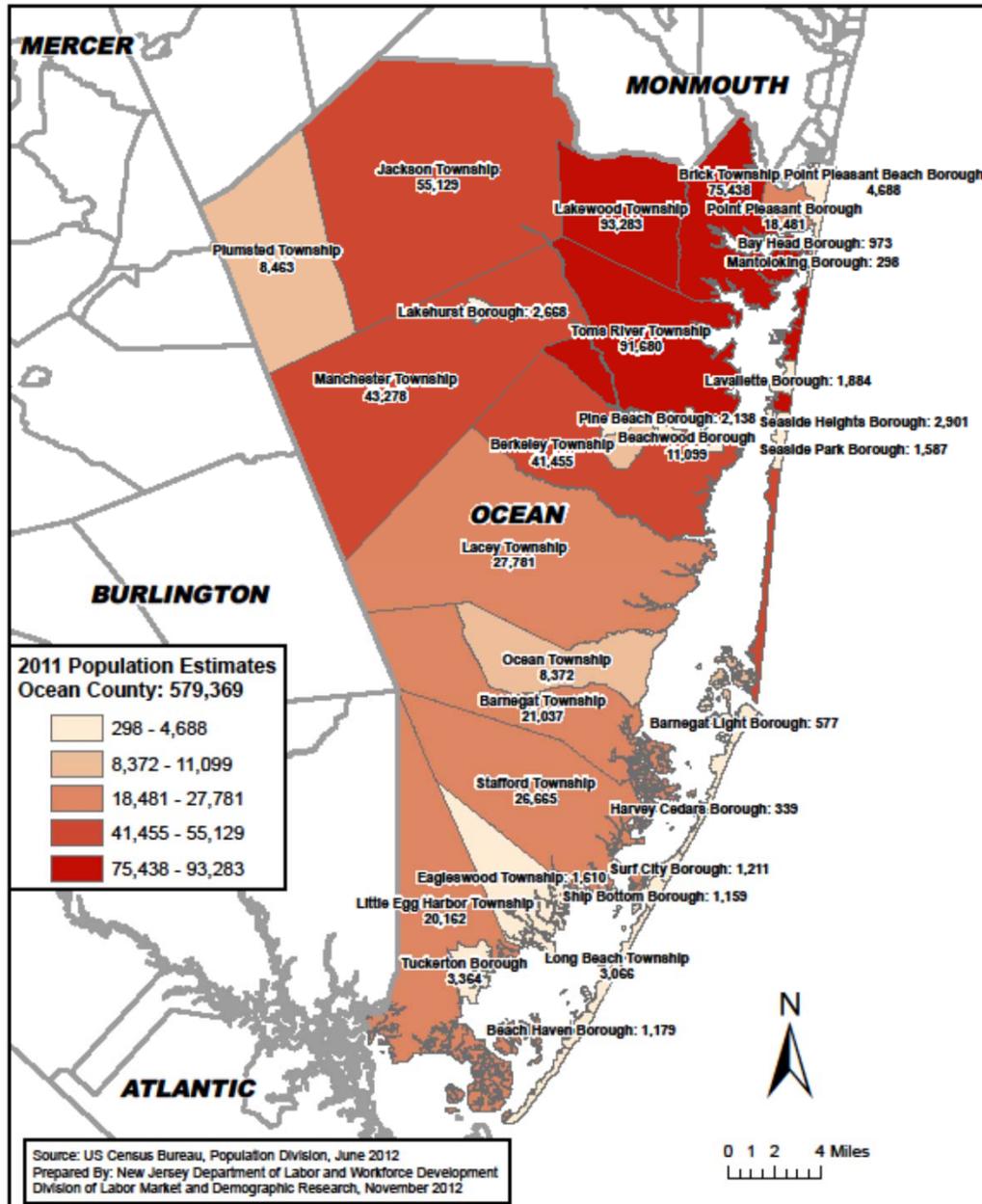
Ocean County Establishments by Size September 2011 3rd Quarter QCEW



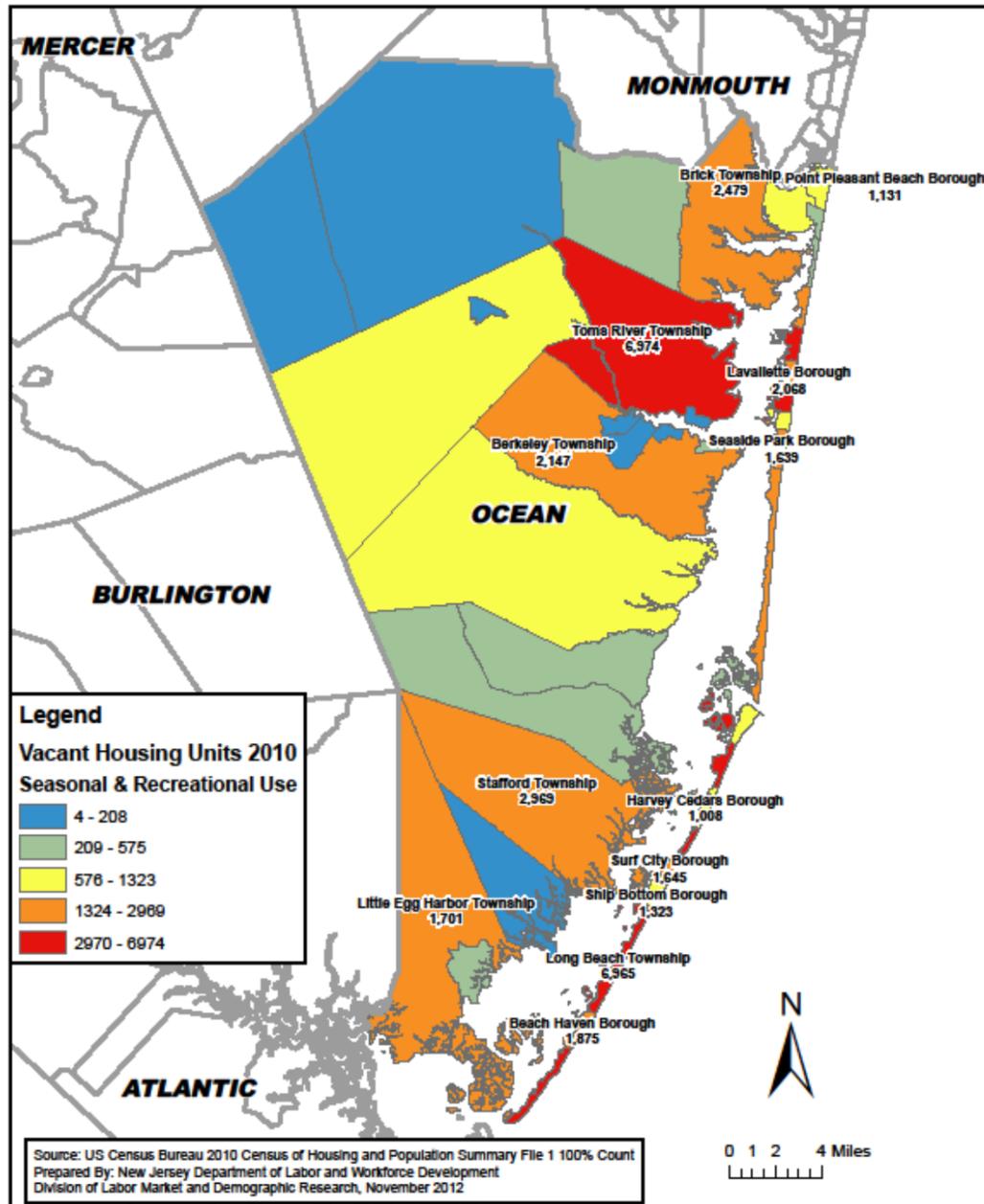
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NJSDC

2011 Municipal Population Estimates Ocean County



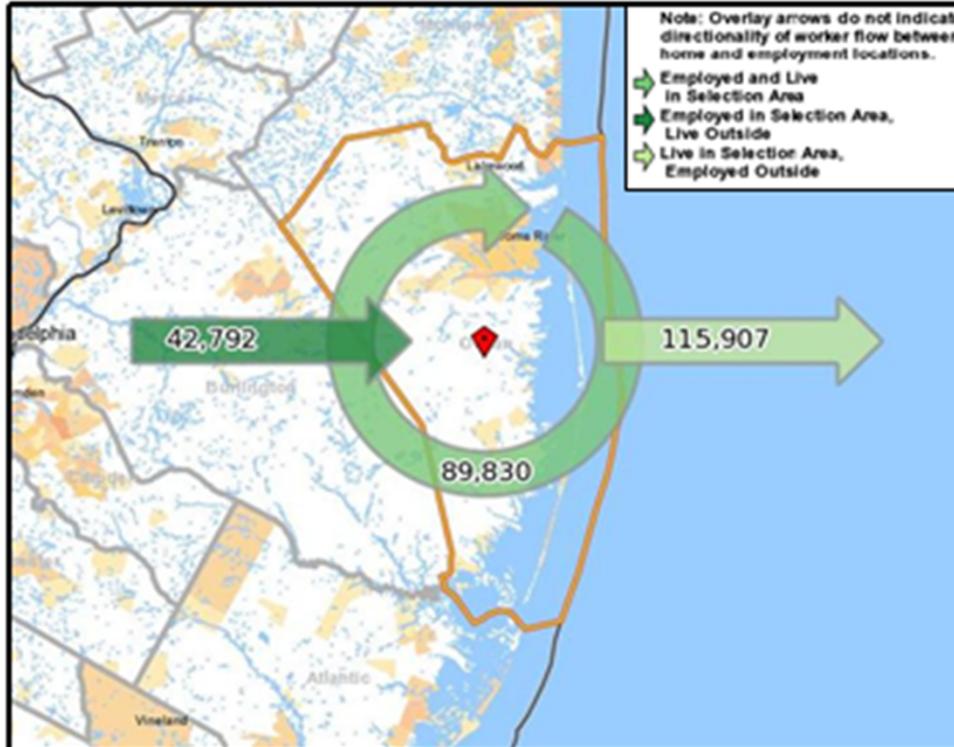
Ocean County 2010 Census Vacant Housing Units For Seasonal, Recreational, or Occasional Use



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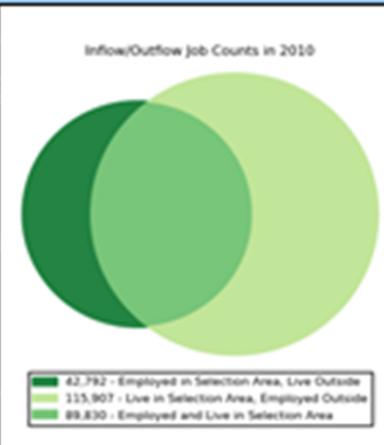


Local Employment Dynamics OnTheMap
Worker Inflow/Outflow Report
Ocean County



Inflow/Outflow Job Counts in 2010	Ocean County	
	Count	Share
Primary Jobs		
Living in Ocean County	205,737	100.0%
Living and Employed in Ocean County	89,830	43.7%
Living in Ocean County but Employed Outside	115,907	56.3%
Employed in Ocean County	132,622	100.0%
Employed and Living in Ocean County	89,830	67.7%
Employed in Ocean County but Living Outside	42,792	32.3%
Net Job Inflow (+) or Outflow (-)	-73,115	

Source: US Census Bureau Local Employment Dynamics



The Pros and Cons of LWD's primary sources of Labor Market Information

Current Employment Statistics

Pro

- Most up-to-date industry data available
- Data available monthly and annually back to 1990
- Comparable to other states and nation
- Benchmarked to QCEW to improve quality of data

Con

- Sample-based, and prone to revision
- Seasonally adjusted data only available at sector level
- 3-digit NAICS is often finest level of industry detail
- MSA is the finest level of geographic detail

Quarterly Census of Employment and Wages

Pro

- Universal dataset derived from quarterly tax records
- Includes employment, wages and establishment data by industry
- County level data available

Con

- Significant time lag
- Should not be used as a time series
- Industry wage data is suspect because it includes all taxable wages, including bonuses, which may skew averages
- Data suppression issues at finer levels of geographic and industry detail

Additional Data Limitatons

- 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

NEW JERSEY STATE DATA CENTER



Contact Information

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- lpreston@dol.state.nj.us
- www.nj.gov/labor
 - “Labor Market Information” on Left Navigation Bar
 - Look for and click on the NJSDC Logo