



## **APPENDIX R. MEETING DOCUMENTATION**

## **NJOEM MEETING (5/19/2017)**



## ***State Hazard Mitigation Plan***

### ***Meeting with NJOEM***

#### ***Agenda***

*May 19, 2017*

- Overall Progress & Schedule
- Organization of the Planning Partnerships
  - Mitigation Core Team (MCT)
  - State Hazard Mitigation Team (SHMT)
  - Cross-Agency Leadership Team
  - SHMP Lead Reviewers
  - Subject Matter Experts
- Risk Assessment
  - Identifying Hazards of Concern
  - Critical Facility & Infrastructure Inventory
    - Rutgers Scope of Services
- Mitigation Strategies
  - Current Mitigation Projects and Grants
  - Local Risk Assessments Reviewed Since Last State Plan
- Optional Plan Enhancements
  - Enhanced Plan?
- Next Steps
  - Outreach of Planning Partnerships
  - External Project Website

# Meeting Notes

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2019 State Hazard Mitigation Plan Update

NJOEM Meeting Friday, May 19, 2017

Attendees: Chris Testa, Craig Wenger, Michael Yaffe

## Overall Progress & Schedule

- Keep the report structure the same as the old plan.
- Use more infographics and visuals to graphically communicate risk and vulnerability.
- Design executive summary to be visually appealing and a stand-alone document that can be a quick reference for the overall report.

## Organization of the Planning Partnerships

- Cross-Agency Team no longer exists for this plan.
- Focus on the Mitigation Core Team (MCT)
  - Chris is ok with Michael Baker reaching out to agency staff we know and trust to be a part of the MCT.
  - Do not let any one agency dominate in number of participants on the committees.

## Risk Assessment

- Hazards
  - Ultimate goal of having an apolitical prioritized list of the risk and vulnerability of hazards that can be used to target funding.
  - There should be 80/20 ratio of material prepared for the natural to human-caused hazards (i.e., more emphasis on natural hazards).
  - If one county has identified a hazard that is not identified in the State Plan then it is safe to assume to add it.
    - Add Tsunami as identified in the Cape May County Plan to the State Plan
  - Draughts recently had a significant impact to the region and adding a little more to draughts section would be beneficial.
  - Not too concerned about geological hazards, as the risk and probability of occurrence is low. The current length of that section is appropriate.
  - The more information on the risk and vulnerability of flooding events, the better.
- Critical facilities and infrastructure
  - Broaden definition to “publicly-owned” assets within NJ, not just “state-owned.”

## Mitigation Strategies

- Planning Projects and Grants
  - Silver Jackets have an active project to create a database of active projects and grants
  - Need a written request for clearance to read only access to NJ.EM grants and NEMIS
  - Chris can clarify if there are discrepancies between NEMIS and NJ.EM

- The Governor's website has good information on CDBG-Disaster Recovery grants.

### Optional Plan Enhancements

- Enhanced Plan
  - Not interested in pursuing an enhanced plan. The time constraints and extra resources needed for the management performance requirements outweigh any potential increases in bonus funding.

### Next Steps

- Outreach of Planning Partnerships
- External Project Website
  - Host website to deliver information and target information distribution to vested stakeholders & public interest/advocacy groups

### Action Items

- Send Chris an updated contact sheet of Planning Partnerships.
- Update RU Scope with Chris's revised Critical Facilities and Infrastructure comments.
- Provide a written request for clearance to read only access to NJEM Grants/NEMIS Data.
- Chris will check with his supervisors about public outreach going forward.
- Quarterly Report and Invoicing are due.

Data Requests Needed

Type	Data	Source
Critical Facilities (State owned or leased facilities/buildings)	Land and Building Asset Management (LBAM) database	Office of Management and Budget within the Department of Treasury
Local Risk Assessments	Identified county and local risk assessments to be integrated into the State's risk assessment.	NJOEM Mitigation Unit
FEMA Mitigation Projects and Grants	Hazard Mitigation Planning and Project Grants	NJOEM Mitigation Unit/ National Emergency Management Information System (NEMIS) HMGP
RREM Mitigation Projects and Grants	Rehabilitation, Reconstruction, Elevation and Mitigation (RREM) Program Grant Awards	Department of Community Affairs (DCA)/ U.S. Department of Housing and Urban Development (HUD).
HUD Mitigation Projects and Grants	Community Disaster Block Grant Disaster Recovery (CDBG-DR) Grant Awards	HUD, Community Disaster Block Grant Disaster Recovery (CDBG-DR)
NJDEP Mitigation Projects and Grants	NJDEP Mitigation Projects	NJDEP
USACE Mitigation Projects and Grants	US Army Corps of Engineers Mitigation Projects	USACE
Cultural Resources	Point locations of vulnerable cultural resource sites that: 1. Are included in the New Jersey or National Registers of Historic Places, 2. Have been determined Eligible for inclusion through federal or state processes as administered by the HPO, or 3. Have been identified through cultural resource survey or other documentation on file at the HPO.	Historic Preservation Office (HPO)
Organizational Chart	NJOEM Organizational Charts, if revised since previous plan	NJOEM

# State Mitigation Plan Review Guide

Released March 2015

Effective March 2016

FP 302-094-2



**FEMA**

## SECTION 4: ENHANCED STATE PLAN REQUIREMENTS

A FEMA-approved enhanced state mitigation plan documents sustained, proven commitment to hazard mitigation. This designation recognizes current or ongoing proactive efforts in implementing a comprehensive program. The enhanced status acknowledges the coordinated effort a state<sup>37</sup> currently is taking to reduce losses, protect life and property, and create safer communities. Approval of an enhanced state mitigation plan results in eligibility for increased HMGP funding.

44 CFR	REGULATORY TEXT
§201.5(a)	<i>A State with a FEMA-approved Enhanced State Mitigation Plan at the time of a disaster declaration is eligible to receive increased funds under the HMGP, based on twenty percent of the total estimated eligible Stafford Act disaster assistance. The Enhanced State Mitigation Plan must demonstrate that a State has developed a comprehensive mitigation program, that the State effectively uses available mitigation funding, and that it is capable of managing the increased funding. In order for the State to be eligible for the 20 percent HMGP funding, FEMA must have approved the plan within 5 years prior to the disaster declaration.</i>

The capabilities listed in 44 CFR §201.5(a) demonstrate increased capabilities that build on, and exceed, the standard mitigation plan requirements. States seeking Enhanced status must “demonstrate” through a narrative and examples that the state is already clearly engaged in processes, activities or initiatives that further risk reduction. FEMA expects that information on the state processes, activities, or initiatives are already incorporated into the plan or can be independently validated.

*FEMA will not grant conditional approvals of Enhanced state mitigation plans; all requirements must be met at time of approval.*

This section provides detailed guidance on how FEMA interprets the various requirements of the regulation for all enhanced state mitigation plan reviews. The guidance is limited only to the minimum requirements of what *must* be in an enhanced state mitigation plan, and does not provide guidance on *how* the state may develop a plan. Each element links to a specific regulation, and citations are provided for reference.

This section is organized as follows:

- 4.1 Meet Required Standard Plan Elements
- 4.2 Integrated Planning
- 4.3 State Mitigation Capabilities
- 4.4 HMA Grants Management Performance

For additional information on enhanced state mitigation plan approvals, please see Appendix A: Submission and Review Procedures.

<sup>37</sup> 44 CFR §201.3(e)(3): “In order to be considered for the increased HMGP funding, the Tribal Mitigation Plan must meet the Enhanced State Mitigation Plan criteria identified in §201.5.”

#### 4.1 Meet Required Standard Plan Elements

In order to be considered for Enhanced status, the plan must contain all of the required elements of the standard state mitigation plan.

ELEMENT	REQUIREMENTS
E1. Does the enhanced plan include all elements of the standard state mitigation plan? [44 CFR §201.5(b) <sup>38</sup> ]	The enhanced plan must meet all the required elements of the standard state mitigation plan.
<b><i>Intent:</i></b> To meet the minimum requirements for a state mitigation plan under 44 CFR §201.4.	

#### 4.2 Integrated Planning

States that are “enhanced” can demonstrate a history of integration with agencies and stakeholders with mitigation capabilities or shared objectives to reduce risks from natural hazards. The [National Mitigation Framework](#) describes integration in terms of “Coordinating Structures,” which include the organizations, agencies, groups, committees, and teams that carry out activities in support of building resiliency. It also includes other programs, procedures, or initiatives carried out by a cross-section of state partners that work together to identify and implement effective, long-term mitigation solutions. For example, the [Silver Jackets](#) program developed through the U.S. Army Corps of Engineers facilitates the integration of agencies in various states.<sup>39</sup>

In terms of enhanced state mitigation planning, integrated planning means embedding mitigation in other state planning, decision making, and development, as well as enabling other agency planning initiatives to inform the state’s mitigation strategy. No single agency can be solely responsible for mitigation across all community sectors, but collaboration among stakeholders with the authority, interest, and expertise to implement mitigation measures enables the leveraging of resources to reduce risk and increase resilience.

<sup>38</sup> 44 CFR §201.5(b): “Enhanced State Mitigation Plans must include all elements of the Standard State Mitigation plan identified in §201.4.”

<sup>39</sup> [National Mitigation Framework](#), FEMA, May 2013.

ELEMENTS	REQUIREMENTS
<p>E2. Does the plan demonstrate integration to the extent practicable with other state and/or regional planning initiatives and FEMA mitigation programs and initiatives? [44 CFR §201.5(b)(1)<sup>40</sup>]</p> <p><b><i>Intent:</i></b> To demonstrate realized integration with other planning initiatives and mitigation programs into ongoing state activities that achieve risk reduction and resilience.</p>	<p>a. The Enhanced plan must demonstrate integration with other state and/or regional planning initiatives, including, at a minimum, the following sectors:</p> <ol style="list-style-type: none"> <li>1. Emergency management;</li> <li>2. Economic development;</li> <li>3. Land use development;</li> <li>4. Housing;</li> <li>5. Health and social services;</li> <li>6. Infrastructure; and</li> <li>7. Natural and cultural resources.</li> </ol> <p>Where integration with other state and/or regional planning initiatives representing these sectors is not practicable, the plan must describe the limitations.</p> <p>b. The Enhanced plan must demonstrate integration of FEMA mitigation programs and initiatives, including, if applicable, but not limited to: HMGP, PDM, FMA, NFIP, CRS, Risk MAP, and the National Dam Safety Program, as well as FEMA programs that advance mitigation, such as Threat Hazard Identification and Risk Assessment, Emergency Management Performance Grant Program, and PA C-G. Where integration with FEMA mitigation programs and initiatives is not practicable, the plan must describe the limitations.</p> <p><b><i>Special Consideration:</i></b> In evaluating integration, consideration will be given to the inherent differences in governance and capabilities among states, crediting measurable progress towards integration of efforts.</p>

### 4.3 State Mitigation Capabilities

States with enhanced state mitigation plans are able to demonstrate successfully implemented programs or projects that reduce exposure to hazards or other mechanisms that show the state has exceeded the requirements of the standard plan. Where the state standard mitigation plan requires the evaluation of capabilities (see Element S12), enhanced states can demonstrate a comprehensive approach to reducing losses of life and property by lessening the impact of disasters through development, implementation, and coordination of a variety of capabilities.

<sup>40</sup> 44 CFR §201.5(b)(1): “Demonstration that the plan is integrated to the extent practicable with other State and/or regional planning initiatives (comprehensive, growth management, economic development, capital improvement, land development, and/or emergency management plans) and FEMA mitigation programs and initiatives that provide guidance to State and regional agencies.”



ELEMENT	REQUIREMENTS
<p>E3. Does the state demonstrate commitment to a comprehensive mitigation program? [44 CFR §201.5(b)(4)<sup>41</sup>]</p> <p><b><i>Intent:</i></b> Demonstrate commitment to advancing risk reduction and resilience using a wide range of resources.</p>	<p>The plan must describe an existing comprehensive state mitigation program that might include, but is not limited to, examples listed in the mitigation planning regulation at 44 CFR §201.5(b)(4).</p> <p><b><i>Comprehensive state mitigation program</i></b> means a broad range of state-supported initiatives and activities that:</p> <ol style="list-style-type: none"> <li>1. Targets risk reduction for each of the identified hazards in the state;</li> <li>2. Is inclusive of various state agencies and sectors with mitigation capabilities and resources; and</li> <li>3. Is coordinated to increase statewide resilience from the adverse impacts of future hazard events.</li> </ol> <p>Initiatives and activities that demonstrate commitment include, but are not limited to, a combination of current training, partnerships, leadership initiatives, funding, technical assistance, codes and ordinances, or other activities that reduce risks.</p> <p><b><i>Special Consideration:</i></b> Descriptions of the various programs and initiatives to meet this requirement do not need to be repeated in a separate section. However, if the documentation to meet this requirement is not a separate section, the Plan Review Tool (refer to Appendix B: State Mitigation Plan Review Tool) should identify where in the plan the descriptions are found.</p>

<sup>41</sup> 44 CFR §201.5(b)(4): “Demonstration that the State is committed to a comprehensive state mitigation program, which might include any of the following:

- (i) A commitment to support local mitigation planning by providing workshops and training, State planning grants, or coordinated capability development of local officials, including Emergency Management and Floodplain Management certifications.
- (ii) A statewide program of hazard mitigation through the development of legislative initiatives, mitigation councils, formation of public/private partnerships, and/or other executive actions that promote hazard mitigation.
- (iii) The State provides a portion of the non-Federal match for HMGP and/or other mitigation projects.
- (iv) To the extent allowed by State law, the State requires or encourages local governments to use a current version of a nationally applicable model building code or Standard that addresses natural hazards as a basis for design and construction of State sponsored mitigation projects.
- (v) A comprehensive, multi-year plan to mitigate the risks posed to existing buildings that have been identified as necessary for post-disaster response and recovery operations.
- (vi) A comprehensive description of how the State integrates mitigation into its post-disaster recovery operations.”

ELEMENT	REQUIREMENTS
<p>E4. Does the Enhanced plan document capability to implement mitigation actions? [44 CFR §§201.5(b)(2)(i),<sup>42</sup> 201.5(b)(2)(ii),<sup>43</sup> and 201.5(b)(2)(iv)<sup>44</sup>]</p> <p><b>Intent:</b> To exhibit successful application of a statewide mitigation program to advance risk reduction and resilience toward mitigation goals.</p>	<p>a. The Enhanced plan must describe the system to rank the mitigation measures according to established eligibility criteria, including a process to prioritize between funding programs, jurisdictions, and proposals that address different or multiple hazards.</p> <p>b. The Enhanced plan must describe how the state will assess the effectiveness of mitigation actions, including the agencies that are involved as well as the timeline, and use the results to inform the mitigation strategy. Effectiveness may be based on cost factors but may also include other beneficial functions.</p>
<p>E5. Is the state effectively using existing mitigation programs to achieve mitigation goals? [44 CFR §§201.5(a) and 201.5(b)(3)<sup>45</sup>]</p> <p><b>Intent:</b> To exhibit successful application of a statewide mitigation program to advance risk reduction and resilience toward mitigation goals. Also to demonstrate the effective use of the additional HMGP funds for which the Enhanced state is eligible.</p>	<p>a. The enhanced plan must document how the state has fully made use of the funding available through the FEMA assistance programs (for example, PA C-G, HMGP, PDM, and FMA). If the state has not made full use of available funding, the enhanced plan must document the reasons why funding was not used and explain the process to improve this capability.</p> <p>b. The enhanced plan must document how the state effectively uses existing state programs to achieve its mitigation goals.</p> <p><b>Special Consideration:</b> Citing limited staff resources is not considered an acceptable reason for not making full use of funding. Further, citing limited staff resources would document the inability to meet the requirement at §201.5(b)(2)(iii), that requires the state to demonstrate HMA grants management capability.</p>

<sup>42</sup> 44 CFR §201.5(b)(2)(i): “Documentation of the State’s project implementation capability, identifying and demonstrating the ability to implement the plan, including: Established eligibility criteria for multi-hazard mitigation measures.”

<sup>43</sup> 44 CFR §201.5(b)(2)(ii): A system “to rank the measures according to the State’s eligibility criteria. A system to determine the cost effectiveness of mitigation measures, consistent with OMB Circular–94, Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.”

<sup>44</sup> 44 CFR §201.5(b)(2)(iv): “A system and strategy by which the State will conduct an assessment of the completed mitigation actions and include a record of the effectiveness (actual cost avoidance) of each mitigation action.”

<sup>45</sup> 44 CFR §201.5(b)(3): “Demonstration that the State effectively uses existing mitigation programs to achieve its mitigation goals.”



## **SHMT MEETING (7/13/2017)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## State Hazard Mitigation Team

**Date:** July 13, 2017

**Location:** State Police Regional Operations Intelligence Center (ROIC)

### Attendees:

Name	Organization	Title	Email Address
Laura Forrest	FEMA	Community Planner, DHS-FEMA RII	Laura.forrest@fema.dhs.gov
Joesph Ruggeri	NJDEP	Supervising Environmental Engineer	<a href="mailto:Joseph.Ruggeri@dep.nj.gov">Joseph.Ruggeri@dep.nj.gov</a>
Laura Connolly	NJOEM	Operations Analyst	<a href="mailto:lppconnl@gw.njsp.org">lppconnl@gw.njsp.org</a>
Ben Castillo	NJDOE	Director	ben.castillo@doe.nj.gov
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Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
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Bryan Lawyer	NJOEM		<a href="mailto:Lpp5617@gw.njsp.org">Lpp5617@gw.njsp.org</a>
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Courtney Wald-Wittkop	NJDEP	Project Manager	Courtney.wald-wittkop@dep.nj.gov
Howard Wolf	FEMA	Region II Mitigation	Howard.wolf@fema.dhs.gov
Jim Watt	NJDEP	Assistant Environmental Engineer	James.watt@dep.nj.gov

#### **Minutes/Notes:**

Michael Baker Gave a kickoff presentation of the State HMP to Members of the SHMP.

Discussed the following topics in the presentation:

- Announced the Project Schedule,
- Goals and Objectives
- Hazards Identified
- Capability Survey
- Mitigation Actions

Michael Baker announced the outreach efforts for the plan update and let members know that they would be contacted for meetings/teleconferences for the plan update.

Michael Baker remained after the meeting to discuss the plan after the meeting with interested members as the plan update was not the only item on the agenda.



# New Jersey State Hazard Mitigation Plan Update

State Hazard Mitigation Team (SHMT)

Progress Meeting

July 13, 2017



*We Make a Difference*



# SHMT Participants



LEAD CONSULTANT

**Michael Baker**  
INTERNATIONAL

State Hazard Mitigation Team



STATE OF NEW JERSEY  
BOARD OF PUBLIC UTILITIES



State of New Jersey  
Department of the Treasury



STATE OF NEW JERSEY  
DEPARTMENT OF STATE



# Hazard Mitigation

- **The Stafford Act** requires that each state have a FEMA approved Hazard Mitigation Plan (HMP) to qualify for various types of assistance.
- **The Disaster Mitigation Act of 2000** amended the Stafford Act and requires all state and local governments to develop a HMP in order to receive pre- and post-disaster federal mitigation funds.



# What is Hazard Mitigation?

Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters.

## What is a Mitigation Plan?

State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events.

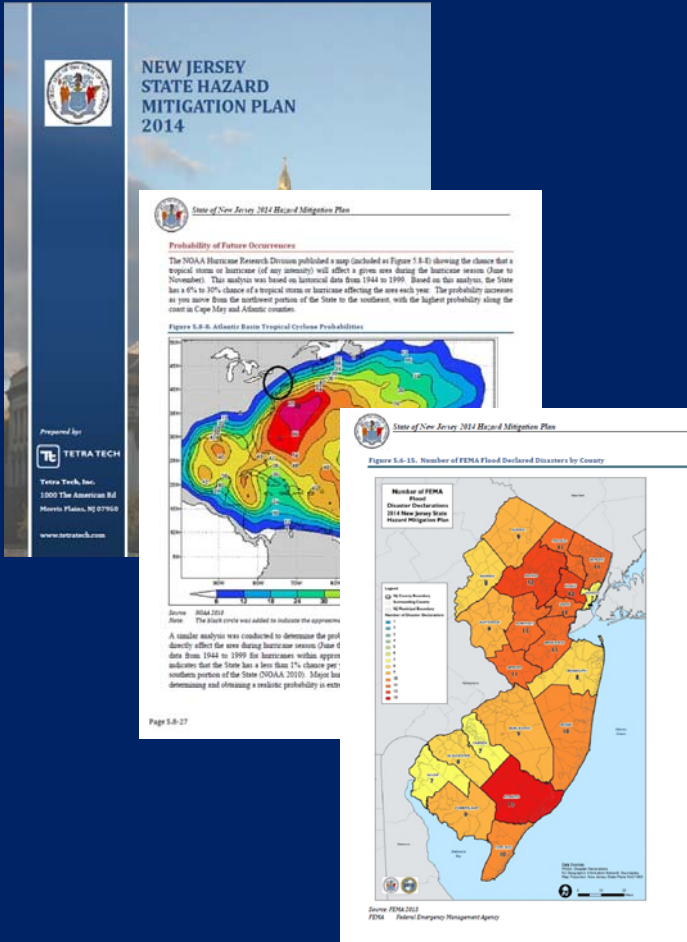
States are required to update the state mitigation plan every five years.



# Building on an Existing Plan

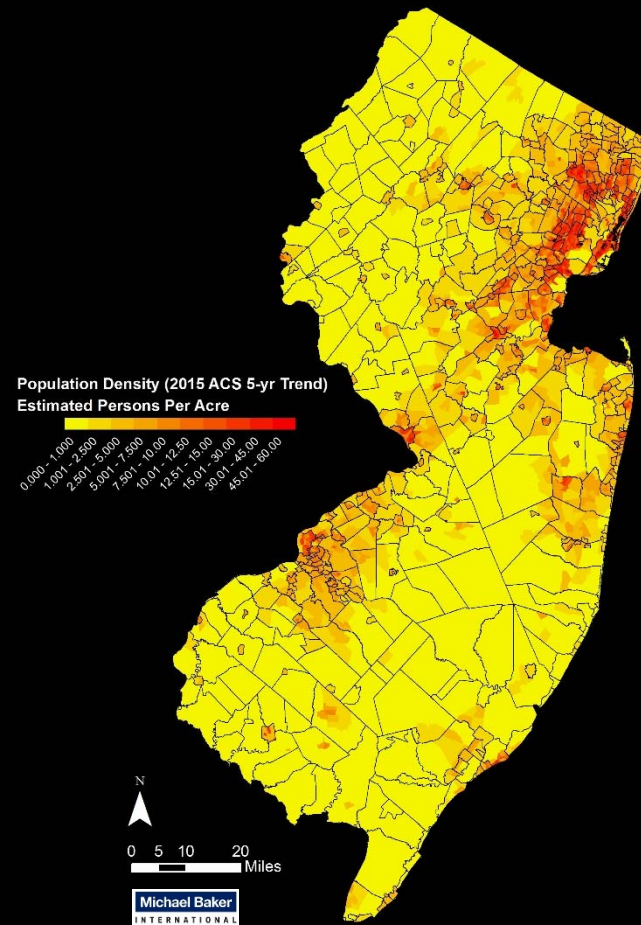
## Major Sections of 2014 SHMP

- Planning Process
- Coordination of Local Planning
- State of New Jersey Profile
- State Risk Assessment
- Mitigation Strategies
- Plan Maintenance
- Repetitive Loss Strategy



# State of New Jersey Profile

*The Plan Update must consider how future risk and vulnerability may be affected by changing future conditions, development patterns, and population demographics.*



## New Jersey URBAN GROWTH CHANGE ANIMATION

NJDEP Land Use/Land Cover  
Data Series: 1986 - 2012

>1986

>1995

>2002

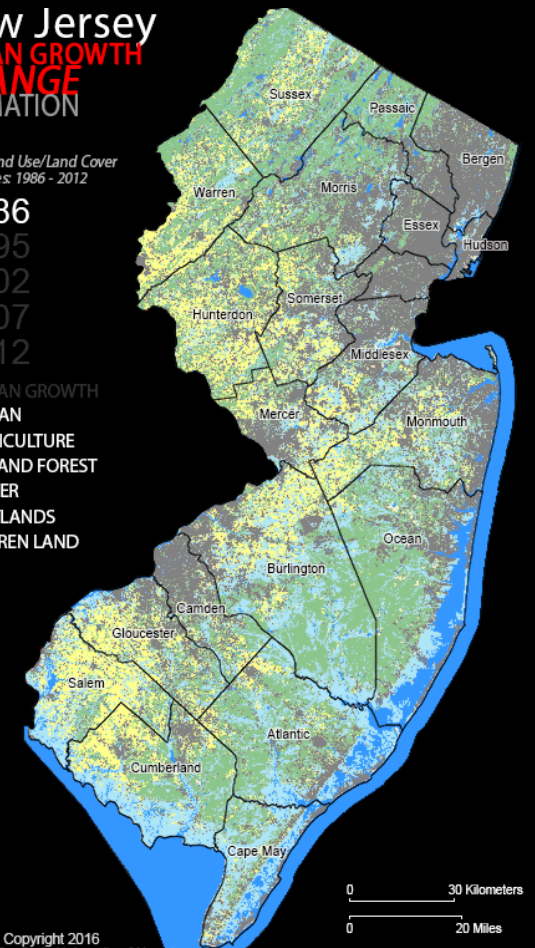
>2007

>2012

URBAN GROWTH  
URBAN  
AGRICULTURE  
UPLAND FOREST  
WATER  
WETLANDS  
BARREN LAND

Animation Copyright 2016  
Rutgers, The State University of New Jersey  
Grant F. Walton Center for Remote Sensing and Spatial Analysis (CRSSA)  
<http://crssa.rutgers.edu>

Animation Courtesy of Rutgers University







# State Risk Assessment



# Hazard Identification

Profiles the following Nature-based Hazards:

- Coastal Erosion and Sea-level Rise
- Dam and Levee Failure
- Drought
- Earthquake
- Flood
- Geological Hazards



# Hazard Identification

Profiles the following Nature-based Hazards:

- Hurricane and Tropical Storm
- Nor'Easters
- Severe Weather
- Severe Winter Weather
- Wildfire
- Tsunami

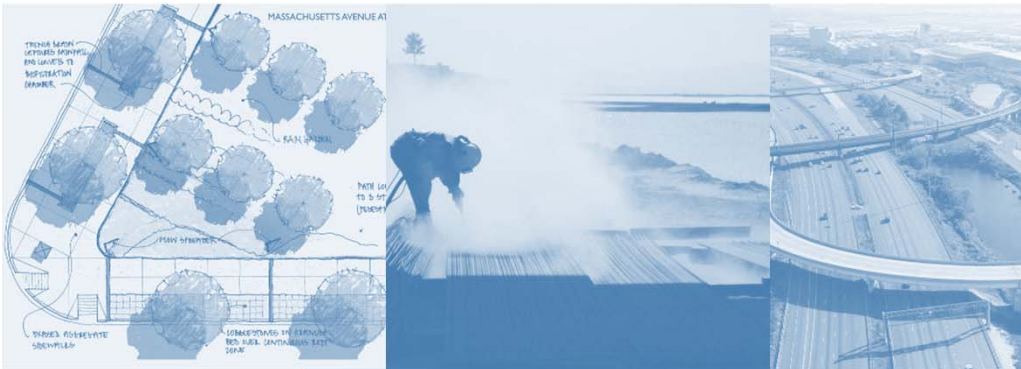




# Hazard Identification

## Profiles the following Human-based Hazards:

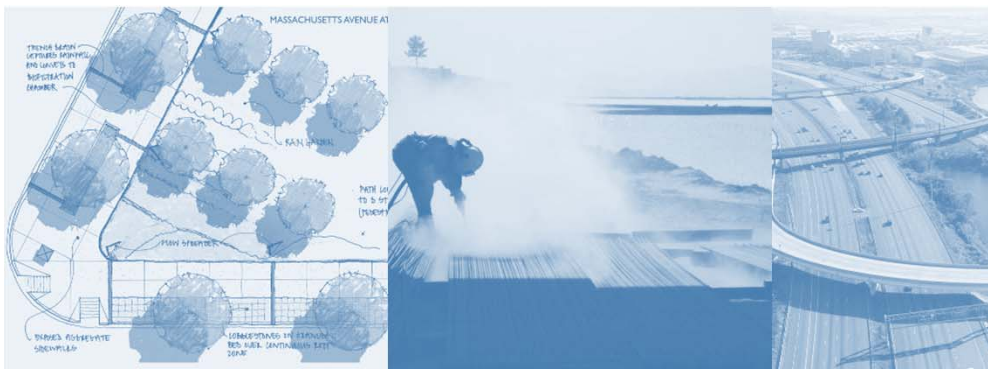
- Animal Disease
- Civil Unrest
- Crop Failure
- Cyber Attack
- Economic Collapse
- Fishing Failure



# Hazard Identification

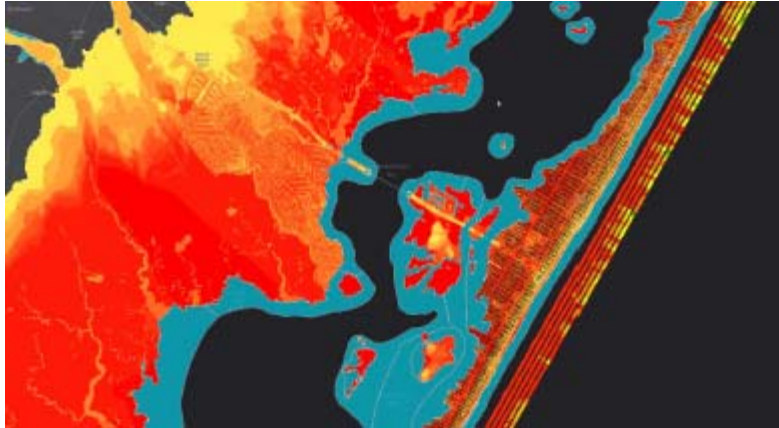
Profiles the following Human-based Hazards:

- Hazardous Substances
- Nuclear Hazards
- Pandemic
- Power Failure
- Terrorism





# Potential Risk & Vulnerability



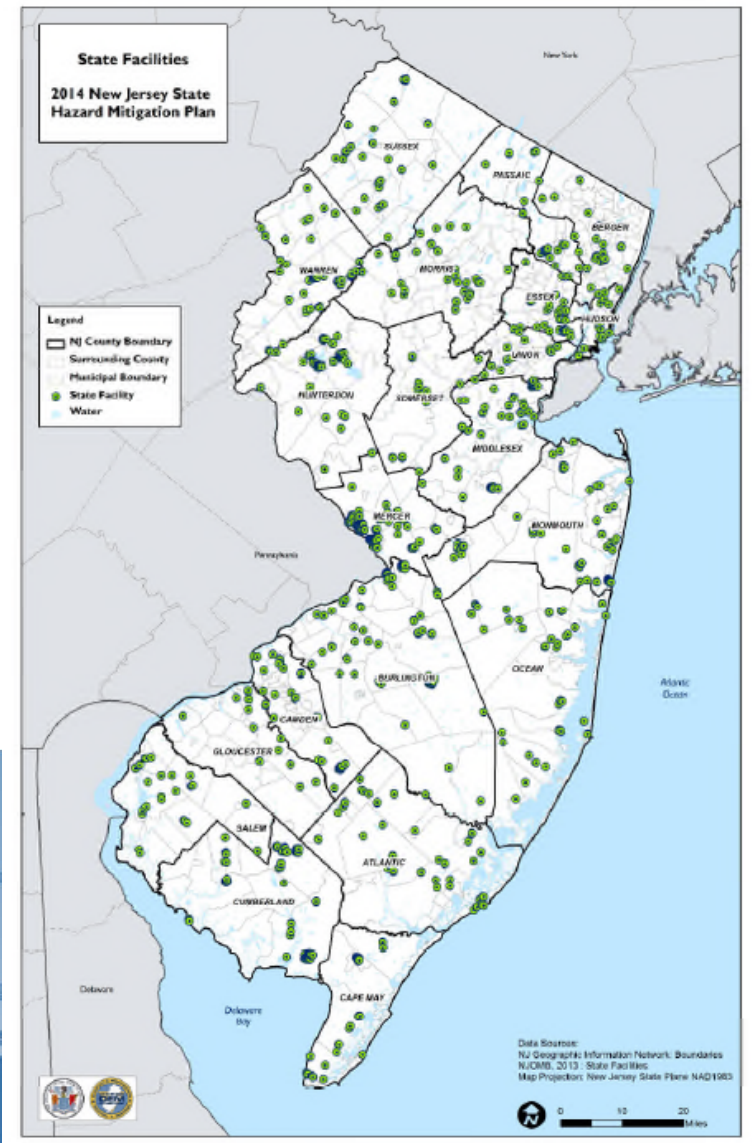
- Flood Insurance Rate Maps for 1% annual flood
- Hazard Mitigation Plans for additional risk analysis
- HAZUS software
- Past Disasters

# State Risk Assessment

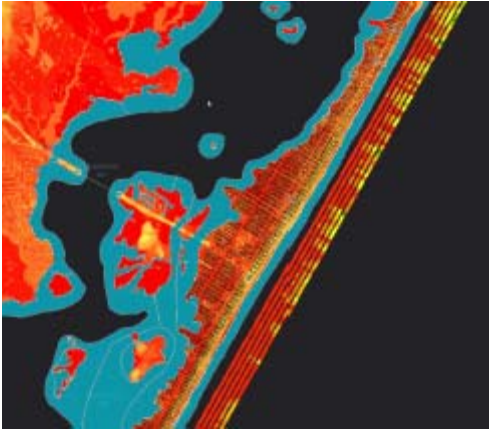
## Critical Facilities and Infrastructure:

A critical facility or infrastructure is a public asset that is essential in providing vital State services, protects life and property, maintains continuity of government and operations, or supports emergency response, government, sheltering functions, and recovery.

*A total of 12,096 critical facilities and infrastructure were used for the 2014 Plan update. The majority of these facilities were from a centralized statewide Land and Building Asset Management (LBAM) database developed by OMB within the Department of Treasury.*



# New for this Plan Update



Partnering with Rutgers University and *Jacques Cousteau National Estuarine Research Reserve* to conduct a Statewide Water-based Exposure Assessment.



- Analysis will include critical facilities and infrastructure identified through the Planning Process of the State Hazard Mitigation Plan Update.
- Analysis will help inform the vulnerability and risk assessment of identified hazards.





# Mitigation Strategies

# Mitigation Strategies



The Mitigation Strategy provides information to guide State decision making regarding the protection of critical State facilities. The Mitigation Strategy consists of:

- A description of the State's hazard mitigation goals and objectives to guide the selection of activities that will mitigate identified hazards and reduce future losses
- Strategies that will lead to the identification, evaluation, and prioritization of mitigation actions and activities
- Strategies that will lead to the identification of current and future sources of federal, State, local, and private funding to implement mitigation activities



# Mitigation Strategies - Plan Goals

1. Protect life
2. Protect property
3. Increase public preparedness and awareness
4. Develop and Maintain an understanding of risks from hazards
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities
6. Support Continuity of operations pre-, during, and post-hazard events

*Are there other Goals to consider?*



# Mitigation Strategies - Capability Assessment



The State capability assessment presents the

- State's pre- and post-disaster management policies, programs, and capabilities,
- An analysis of State funding opportunities to directly support hazard mitigation, and
- A summary of new programs and changes in State capabilities.

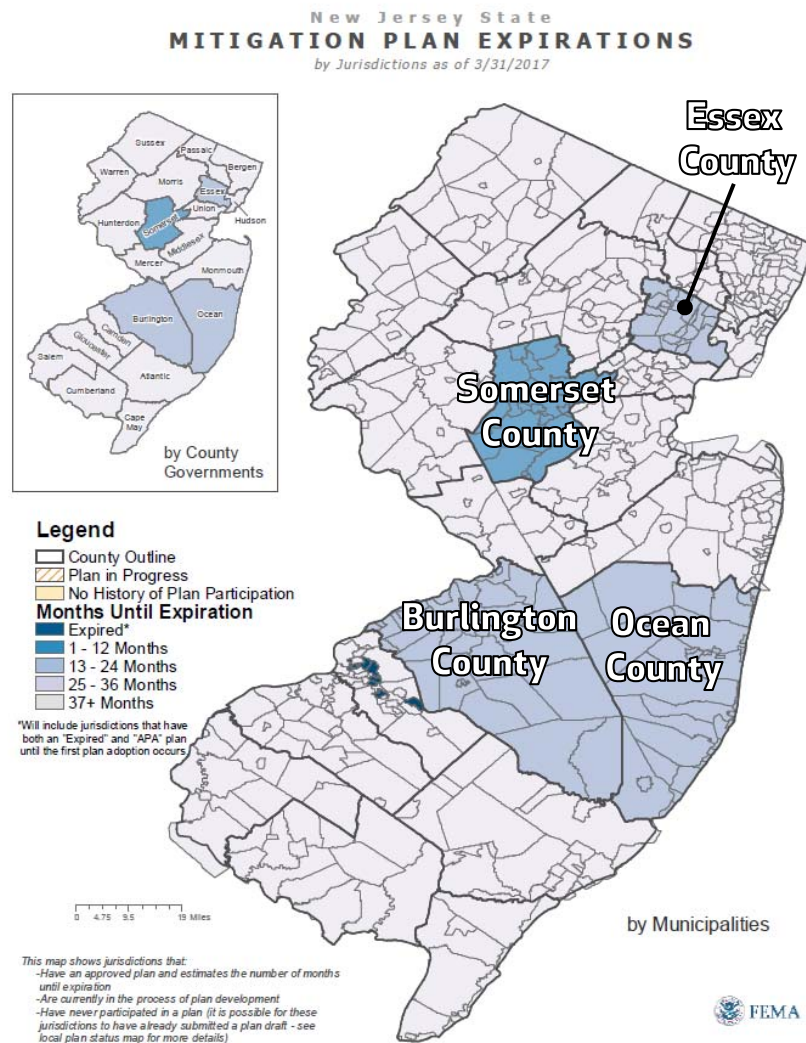


Also included in this assessment are analyses of agency capabilities to initiate support and or implement mitigation programs and activities.

# SHMT Participant Assistance

- Review and help identify new mitigation strategies.
- Share Mitigation success stories! The plan is an opportunity to sell the State's success.
- Support implementation ideas by linking resources and funding to mitigation actions.

# Coordination of Local Planning



Review of processes utilized by the State to support and promote mitigation planning at the county and local level. This includes:

- Development of local mitigation plans and mitigation projects through funding and technical assistance
- Plan integration into the HMP
- Assistance for floodplain administrators at the local level
- Support of local OEM and other officials
- Update and adoption of previously approved HMPs.



# New for this Plan Update

## **Development of a Standardized Risk Template for use in County Multi-jurisdictional Plan Roll Up**

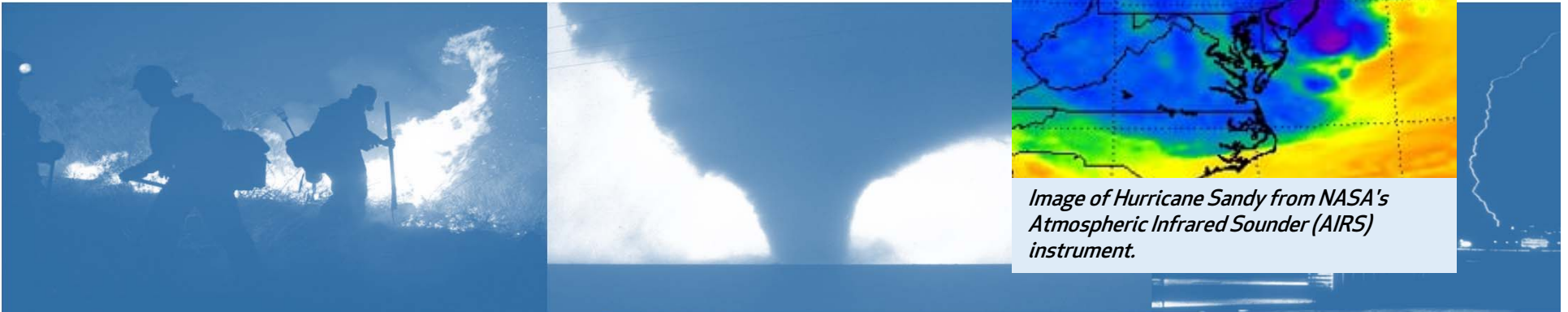
- The project team will create a template that can be used in multi-jurisdictional plans to identify hazards and assess vulnerabilities.
- Although each jurisdiction should have autonomy in developing their own assessment and mitigation plan, having an effective state template will make plan maintenance and future updates more efficient at all levels.



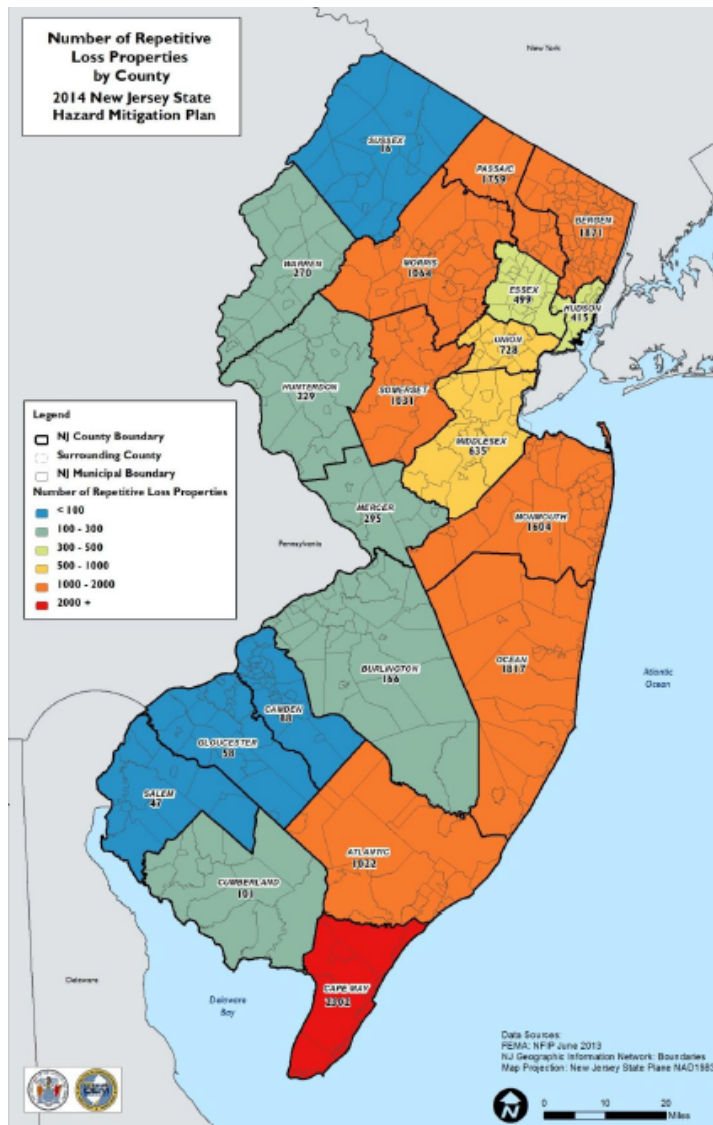
# SHMT Participant Assistance

Discuss Hazard Mitigation concerns that State, tribal, and local governments deal with on a regular basis and create a consistent state-wide approach. For Example:

- Consistent State-wide approach to Climate Change and Sea Level Rise
- Risk Templates



# Repetitive Loss Strategy For New Jersey



The **Severe Repetitive Loss (SRL) Program** was established under the Bunning-Bereuter-Blumenauer Flood Insurance Reform Act of 2004.

- The overall objective of the Reform Act was to **provide funding to reduce or eliminate claims from SRL properties under the National Flood Insurance Program (NFIP).**

In July 2013, the **Biggert Waters Reform Act of 2012 (BW-12)** eliminated the SRL program, consolidating programs targeting SRL and Repetitive Loss properties (RL).

- BW-12 includes measures that ultimately **bring all SRL property premiums to actuarial rates over time under the Unified Hazard Mitigation Assistance (HMA) guidance.**



# New for this Plan Update



- Development of Mitigation loss avoidance study to include geo-location, and database of prior mitigated properties for future updates
- An online presence for hazard mitigation information and resources will be launched for the Project Team and Stakeholders.
- Review and integration of the New Jersey's Agencies Resiliency plans and include risk assessment, mitigation actions other pertinent elements.



# Planning Timeline

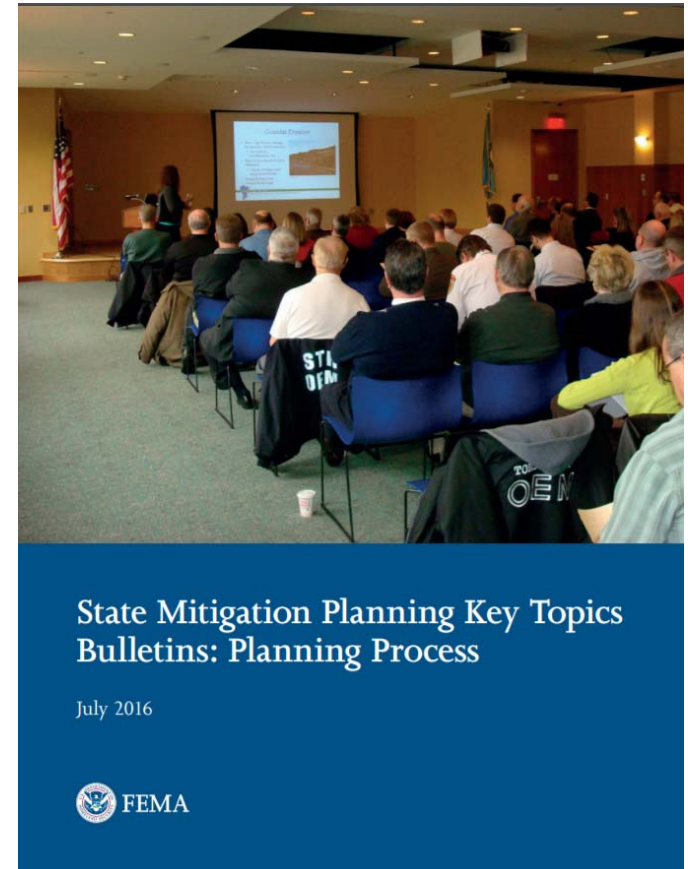


# Planning Process

Describes how the Plan update will be prepared, which agencies will participate in the planning process, how each section of the Plan will be reviewed, analyzed, and revised.



Update will be in accordance with Chapter 44 of the Code of Federal Regulations (CFR), Sections 201.4(b) and 201.4(c) of the Standard State Hazard Mitigation Plan criteria.



## State Mitigation Planning Key Topics Bulletins: Planning Process

July 2016





# Plan Maintenance

The 2014 Plan identified that the State Hazard Mitigation Team will convene bi-annual meetings to conduct the following activities:

- Tracking progress on relevant mitigation activities
- Review existing action items to determine appropriateness of funding;
- Identify issues that may not have been identified when the plan was developed
- Prioritize potential mitigation projects using the methodology described in the plan; and
- Assist in development of funding proposals for priority action items.

# SHMT Participant Assistance

- Review draft materials such as tables, maps, chapters, and the full draft plan.
- Identify any new sources of best available data including for
  - hazard identification or risk assessment
  - critical infrastructure and state-owned and leased assets

# Timeline/Schedule

- **Risk Assessment Meeting** with each Department
  - Targeting November 2017
- **Mitigation Actions Meeting** with each Department
  - Targeting February to April 2018





# Timeline/Schedule

- August 25<sup>th</sup> 2018 – Submit Draft Plan to SHMT
- October 25<sup>th</sup> 2018 – Submit to State of New Jersey
- January 25<sup>th</sup> 2019 – Submit to FEMA
- April 25<sup>th</sup> 2019 – Certification & Approval from FEMA



# Thank You.

**Michael Baker**  
INTERNATIONAL

*We Make a Difference*



## **DEPARTMENT OF MILITARY & VETERANS AFFAIRS (9/29/2017)**



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Department of Military and Veterans Affairs

**Date: 9/29/2017 (with additional follow-up emails held after meeting)**

**Time:1 PM**

**Attendees: Original call with Raymond and follow-up group email discussions with Robert and Walter**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Robert Bryan	Department of Military and Veterans Affairs	Lieutenant Colonel, Deputy Director of Military Support	Robert.k.bryan@mil.mail.mil
Walter Gill	Department of Military and Veterans Affairs	Deputy J3	Walter.r.gill2@mil.mail.mil
Raymond Zawacki	Department of Military and Veterans Affairs	Deputy Commissioner of Veterans Affairs	raymond.zawacki@dmava.nj.gov

## **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

### Capability Assessment:

Michael Baker filled in the capability assessment as a first pass based on information found on the department's website due to the classified and sensitive nature of the department's work. Attendees reviewed the material and provided minor revisions.

### Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Military and Veterans Affairs	
<b>Description of Organization</b>	To provide trained and ready forces prepared for rapid response to a wide range of civil and military operations, while providing exemplary services to citizens and Veterans of New Jersey. A governmental department of the state of New Jersey. It is composed of the New Jersey Army National Guard as well as the New Jersey Air National Guard. They are administered by the Adjutant General and staff which oversees the activities of the two. This includes the Disasters and Emergency Services Division and Veterans Affairs Division.
<b>Point of Contact</b>	Name/Title: Bryan, Robert K COL USARMY NG NJARNG (US) Email: robert.k.bryan.mil@mail.mil Phone: 609-530-4600 Address: P.O. Box 340 Trenton, NJ 08625-0340 Website: <a href="https://www.nj.gov/military/">https://www.nj.gov/military/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Emergency preparedness plans, education workshops, educational materials, prevention plans, response plans, response trainings
<b>Does your organization provide technical assistance?</b>	Yes. -Hands on assistance after a disaster -Army Cyber Command and support to defensive cyberspace operations as assigned. -Civil Unrest Trainings
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes. The mission of the J-3 (Plans, Operations and Training) is to provide properly trained, modernized, combat ready National Guard units for mobilization and deployment in support of the nation's military strategy. The J-3 will further provide reliable, effective emergency response forces in support of state emergency operations, counter drug and community revitalization programs
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes. The mission of the J-3 (Plans, Operations and Training) is to provide properly trained, modernized, combat ready National Guard units for mobilization and deployment in support of the nation's military strategy. The J-3 will further provide reliable, effective emergency response forces in support of state emergency operations, counter drug and community revitalization programs
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Emergency response partners with NJOEM



## **GARDEN STATE PRESERVATION TRUST (10/5/2017)**



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Garden State Preservation Trust

**Date:** 10/5/2017

**Time:** 2PM

**Attendees:**

Name	Organization	Title	Email Address
Ralph Siegel	Garden State Preservation Trust	Executive Director	ralph.siegel@treas.nj.gov
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

**Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

Capability Assessment:

Michael Baker filled in the capability assessment as a first pass based on information found on the Trust's website. Mr. Siegel reviewed the material and provided minor revisions.

Mitigations Actions:

The Garden State Preservation Trust did not identify any mitigation actions for this plan update. Historically, they have not provided actions.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> Garden State Preservation Trust	
<b>Description of Organization</b>	<p>The voters of New Jersey from 1998 to 2009 committed an unprecedented \$2.7 billion to permanent land preservation, development of recreational resources and the preservation of crucial historic sites in every community. In 2014 the voters approved additional funding for these efforts with a constitutional dedication of Corporation Business Taxes that eventually will range up to \$120 million a year.</p> <p>The Garden State Preservation Trust has been repeatedly tasked by the Legislature to function as the independent gatekeeper of those funds, including for the new CBT dedication. The GSPT board has the specific task of</p> <ul style="list-style-type: none"> <li>- setting financial strategies</li> <li>- measuring balances</li> <li>- monitoring expenditures</li> <li>- reviewing project recommendations</li> <li>- approving appropriations</li> <li>- advocating policies for the efficient use of funds</li> <li>- training preservation agencies on cost reductions</li> </ul>
<b>Point of Contact</b>	<p>Name/Title: Ralph Siegel  Email: ralph.siegel@treas.nj.gov  Phone: 609 984-4600  Address: Garden State Preservation Trust  20 West State Street  Room 440  P.O. Box 750  Trenton, NJ 08625-0750</p>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Flooding and wildfire
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Environmental Preservation. New Jersey has been a leader in land preservation for a half-century. This effort reached unprecedented levels under the Garden State Preservation Trust. Today, one third of New Jersey's dry land mass is permanently preserved as open space – a total acreage that exceeds the size of Grand Canyon National Park.
<b>Does your organization provide technical assistance?</b>	No
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Not directly, hazard mitigation is a positive externality to the Trusts environmental preservation mission.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	no
<b>Is Funding available for Hazard Mitigation?</b>	Provides funding to preserve land in areas vulnerable to flooding and wildfires that might otherwise be developed.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	no



## **NJ DEPARTMENT OF TREASURY MEETING (11/1/2017)**





# State of New Jersey All-Hazard Mitigation Plan Update

## Capability Assessment Meeting

**Michael Baker**

Organization: Dept of Treasury Date: 11/1/2017

[illegible]

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Treasury

**Date:** November 1, 2017

**Time:** 11 am

### **Attendees:**

Name	Organization	Title	Email Address
Steve Sagnip	NJ Treasury	Management and Improvement Specialist (Office of Management and Budget)	steve.sagnip@treas.state.nj.us
Jeff Burns	NJ Treasury	Emergency Operations Coordinator	<a href="mailto:Jeffrey.burns@treas.nj.gov">Jeffrey.burns@treas.nj.gov</a>
Craig Wenger	MBI	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

### **Minutes/ Notes:**

- Thomas is the primary point of contact
- A mitigation action should address the problem at the capital
- Target hardening as a focus
  - The Department of Treasury is at the preliminary stage of a target hardening investigation
  - This should be added to the plan
  - Prior approvals on historic/environmental
  - No local paving issues
  - CBAM
- The Treasury has a monitoring program
  - This should be listed as a capability
  - Over 2 million should and over 5 million required
- The State grantee active is ongoing. Municipalities/Counties are sub grantees
- Sandy related funding
  - Passaic Valley Sewage Authority
  - Delaware Valley
- Terrorism and Cyber terrorism
  - There is a terrorism task force
  - Talk about fusion center at roc
- Mass notification system
  - Landlord of state property
  - Notify owe complex – not employees, which is a problem
- Loss avoidance study

- Mitigation project at capital
  - Preventive measures of flooding
  - Moved mechanicals at flood hazard area
- WSS reporting and insurance reimbursement should be added as a capability
- Enhanced mitigation plan is an emphasis
- Mitigation Actions Notes
  - Survey State agencies for their most critical state-owned facilities: This is ongoing. There is an infrastructure investigation group.
  - Compile a GIS based inventory of State-owned critical facilities Statewide: This is completed
  - Generate state owned critical facilities information: This is the same as the previous action
  - Develop and maintain local government mitigation planning assistance: OIT may get this action.
  - Provide training seminars in identifying potential hazards to state bureaus responsible for rental/leasing of properties for state offices: This should be added to the risk and vulnerability analysis. There is a 100 ft buffer of critical facilities, which should be noted. Note that this action was repeated further along on the list provided at the meeting. Other notes include that there is loss reporting on events that previously happened and this action is ongoing.
  - Expand State facilities risk management program: no notes
  - Inventory damaged structures: ID repetitive loss state properties
  - Survey State agencies for their most critical state-owned facilities: Same as infrastructure. Interdependency. Completed
  - Inventory flood damage structures: No notes.



# State of New Jersey All-Hazard Mitigation Plan Update

## NJ Treasury Mitigation Actions



**Michael Baker**  
INTERNATIONAL

### New/Modified Mitigation Actions

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Treasury	2010 PSA 231 Inventory state owned or leased structures and identify repetitive loss properties.	2	High	Continuing Capability / Responsibility	Existing State Assets and Federal grants	All Hazards	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses.	Retrofitting, elevating or removing repetitive loss properties from known hazard areas protect property and lives as well as preserve personal, and federal financial resources.	Revised/updated previous action
NJ Treasury	Ammend LBAM databse to identify what citical facilities are vulnerable to potential hazards.	2	High	5 years	Existing State Assets and Federal grants	All Hazards	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses.	Retrofitting, elevating or removing repetitive loss properties from known hazard areas protect property and lives as well as preserve personal, and federal financial resources.	Revised/updated previous action

### On-going Mitigation Actions

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Treasury	2009 Action 344 Develop and maintain local government mitigation planning assistance/coordination web page.	2	Highest	6 months (2011)	Existing State resources	All Hazards	Provide up to date reference for the development and updating of local hazard mitigation plans.	This local information will be utilized in the updating of the State Hazard Mitigation Plan.	On-going Mitigation Actions

### Completed Mitigation Actions/Ongoing Capabilities

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
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# State of New Jersey All-Hazard Mitigation Plan Update

## NJ Treasury Mitigation Actions



**Michael Baker**  
INTERNATIONAL

### New/Modified Mitigation Actions

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Treasury	2009 Action 421 Compile a GIS-based inventory of State-owned critical facilities Statewide	4	High	Two to five years (2013)	Existing staff, possibly consultants depending on funding availability	All Hazards	Developing basic information such as this will allow the State to meet federal requirements for prioritizing mitigation grant funds that will be directed to reducing losses to State-owned and operated facilities. Furthermore, and more importantly, this information will allow the State to make informed decisions regarding the use of federal and State resources to reduce potential damages.	This action is the basic building block of a mitigation strategy. Completing this action is the first step in meeting the goals of protecting lives and property, as related to State facilities	Same as Action 211 (below)
NJ Treasury	2008 Action 211 Generate State-owned critical facilities information and establish GIS-based repository for data on critical State facilities.	1	High	3 years - 2014	Existing State Resource	All Hazards	Establishes comprehensive GIS-based repository for data on critical State-owned facilities.	Data base will allow identification of critical state facilities so that they may be targeted for future mitigation projects.	Completed as part of the State HMP update
NJ Treasury	2009 PSA 214 Provide training seminars in identifying potential hazards to State bureaus responsible for rental/leasing of properties for State offices.	2	Medium	Continuing Capability / Responsibility	Existing resources	All Hazards	Training will augment existing initiatives of Treasury and the State's insurance carriers by expanding the number of hazards addressed and will use all existing hazard profiling information.	Identification of potential hazards will identify vulnerabilities and avoid losses to State facilities through mitigation or relocation. Securing facility contents will protect them from damage and also minimize flood insurance claims.	On-going Capability (withdrawn as a future mitigation action since it is a continuing capability)
NJ Treasury	2009 PSA 213 Expand State facilities risk management program.	2	High	Continuing Capability / Responsibility	Existing resources	Flood	Maintain flood protection and fire protection	Increases safety of personnel and reduces losses due to fire/flood.	On-going Capability (withdrawn as a future mitigation action since it is a continuing capability)
NJ Treasury	2009 Action 215 Survey all State agencies for updates to their most critical State-owned facilities, and use as the basis for prioritizing vulnerability assessments and mitigation grant funds.	1	Medium	5 years	Existing NJOEM and State agency staff resources.	All Hazards	Critical first step in identifying appropriate sites and operations for mitigation priorities.	Protects life, property and continuity of operations.	On-going Capability (withdrawn as a future mitigation action since it is a continuing capability)

# State of New Jersey All-Hazard Mitigation Plan Update

## NJ Treasury Mitigation Actions



**Michael Baker**  
INTERNATIONAL

**New/Modified Mitigation Actions**

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJOEM, NJDEP, New Jersey Treasury	Inventory flood damage structures (This action is part of the Repetitive Loss Strategy – Section 8)	2	High	Continuing	Existing state assets and federal grants	Flood	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses	Retrofitting, elevating or removing RL properties from known hazard areas protect property and lives as well as preserve personal, state, and federal financial resources	On-going Capability (withdrawn as a future mitigation action since it is a continuing capability)





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Treasury, Division of Risk Management	
<b>Description of Organization</b>	Is the Property and Liability Insurance Holder / Broker for State properties owned and leased. Many State Agencies run the day to day operation and maintenance for the buildings, properties and facilities they occupy so Treasury coordinates with DEP, DOT, Human Services, Corrections and State Police to ensure proper management and maintenance of these buildings . In addition, Risk Management is responsible for insuring all of these properties and facilities.
<b>Point of Contact</b>	Name/Title: Jeffrey D. Burns / Emergency Response Coordinator / Alternate Departmental OEM Coordinator Email: Jeffrey.burns@treas.state.nj.us Phone: (609) 292-8729 Address: 50 W. State St, PO Box 210, Trenton, NJ 08625-0210 Website:
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	This Division supports facilitation of pre- and post-hazard mitigation.
<b>Does your organization provide technical assistance?</b>	Yes through State Insurance Carrier, FM Global.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, To help mitigate as quickly as possible when an emergency occurs or a disaster strikes one of the buildings, DRM has instituted the First Responder Network within the Agency to help in emergencies. When an agency contacts the State Police about a disaster/emergency, State Police has a Point of Contact (POC) in DRM to notify them of the disaster/emergency. DRM has an emergency responder team comprised of employees from Administration and Property management that are detailed to them in support of expediting insurance claims or support with other mitigation efforts.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes, through State Insurance Carrier.
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	No, Treasury ERU is the representative for the Department.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	New Jersey Department of Treasury, Division of Administration - Emergency Response Unit
<b>Description of Organization</b>	The Division of Administration and the Emergency Response Unit (ERU) is the State Treasurer's representative and coordinating agency for all of the Department of Treasury's roles and responsibilities in and to Emergency Management. The ERU acts as the lead for the Department and deployment coordinator for the Department in Planning, Mitigation, Response and Recovery. The other Divisions and in, but not of Agencies coordinate through the ERU.
<b>Point of Contact</b>	Name/Title: Jeffrey D. Burns / Emergency Response Coordinator / Alternate Departmental OEM Coordinator Email: Jeffrey.burns@treas.state.nj.us Phone: (609) 292-8729 Address: 50 W. State St, PO Box 210, Trenton, NJ 08625-0210 Website:
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Management and facilitation of funding applications and project management
<b>Does your organization provide technical assistance?</b>	Yes through State professional staff and contract engineering services
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, The Division Coordinates and delegates mitigation and corrective action policies, programs and projects. Within the Division of Administration and to other Divisions of the Department.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes, through State Insurance Carrier.
<b>Is Funding available for Hazard Mitigation?</b>	Yes, grant application coordination.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes.



## **NJ SPORTS AND EXPOSITION AUTHORITY MEETING (11/3/2017)**



State of New Jersey All-Hazard Mitigation Plan Update  
Capability Assessment Meeting

Michael Baker  
INTERNATIONAL

Organization: NJSEA Date: 11/3

Name	Organization	Email Address	Phone Number
Mike Yette			
Craig Wengert			
JEFF ZIECINSKI	NJSEA	ZIECINSKI@NJSEA.COM	201-777-2422
Cheryl Rezendes	NJSEA	Crezendes@njsea.com	201-460-8036
Sharon Mascaro	NJSEA	smascaro@njsea.com	201-460-4689
Fauzia Shapiro	NJSEA	fshapiro@njsea.com	201-460-4673
SARA SUNDALL	NJSEA	ssundall@ " "	201-507-3379
John Duffy	NJSEA	jduffy@njsea.com	201-842-5115



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## New Jersey Turnpike Authority

**Date:** November 3, 2017

**Time:** 10am

**Location:** Meadowlands Complex

### **Attendees:**

Name	Title	Email Address	Phone Number
Jeff Zielinski	NJSEA	<a href="mailto:jzielinski@njsea.com">jzielinski@njsea.com</a>	201-777-2422
Cheryl Rezendes	NJSEA	<a href="mailto:crezendes@njsea.com">crezendes@njsea.com</a>	201-460-8036
Sharon Mascaro	NJSEA	<a href="mailto:smascaro@njsea.com">smascaro@njsea.com</a>	201-460-4689
Fawzia Shpiro	NJSEA	<a href="mailto:fshapiro@njsea.com">fshapiro@njsea.com</a>	201-460-4673
Sara Sundell	NJSEA	<a href="mailto:ssundell@njsea.com">ssundell@njsea.com</a>	201-507-3379
John Duffy	NJSEA	<a href="mailto:jduffy@njsea.com">jduffy@njsea.com</a>	201-842-5115
Craig Wenger	MBI	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>	609-807-9674
Michael Yaffe	MBI	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>	609-807-9683

### **Minutes/Notes:**

- Hosting conference is a mitigation action
- Jeff is the CRS coordinator and did a 2016 audit. The community is a class 7, 15%
- Preservation of open space – deed restricted open space – properties in floodway
- MCT-preservation is in trust
- Green acres
- Unique is only CRS for regional area in U.S.
- Married into zoning regulations -> ABFE +1
- Planners and engineers review elevation certificates
- 3 staff CFM
- As builds for infrastructure through MERI-Rutgers
- Provided to emergency services for the towns
- Provided laptops to the towns for training
- Mapped storm sewers, RTK, fire hydrants
- MS4 keep track of infrastructure – not part of trust because not a town
- Funded through own fund
- DCA planning grants – mitigation grants not involved
- Frames (DEP) Fostering Resiliency program to give grants to regional areas
- Were part of DCA – got list from municipalities, not funded
- Biggest problem is sanitary sewers – filled with sand – water tight manholes
- Paperwork was confusing for funding – need to simplify for the average town

- Help Biding on review project
- State police should not be part of construction management because there are 8 different people in 9 months.
- Doing OEM-FEMA paperwork for own facilities – want DEP projects and permits
- Refused to acknowledge prevailing wage. FEMA uses national mean wage. 3 year BE estimates at wage is wrong.
- Treasury management fee is 8%
- Returning money can't close project out, leave project open
- Administrative nightmare filling out forms. County has 70 municipalities
- Bergen 2015 – Funding from OEM and Bergen County
  - Maybe funding by next cycle
- State could be more astute if OEM could be able to make decisions
  - Every county has a DPW
- Mitigation Actions for own facilities
  - Conference/training
  - Sandy none of the building approved got flooded. Strict with finished floor
  - Repetitive loss properties below 10
  - Regional stormwater
    - Problem is maintenance
  - Projects fostered along
  - DEP maintenance dredge of ditch. Number flood control for region
  - Rebuild by design – not touching berms. More of stormwater project at this point. Mosquito berms, not flooding berms. Tidal surge you can't do anything. Nuisance is another problem.
    - Does not have berms, no maintenance
    - Pump at each riser, not helping tidal
    - District tide gates have sensors and predict with NJSEA and MERI – can tell if debris is stuck
  - Sign up for flood alerts
  - Towns utilizing putting in berms and pumps guise of must be an emergency
  - 5 Million HUD grant for Toolkit – How OEM will use it
  - Area could not get diesel fuel during Sandy
  - Transfer stations could not get fuel
  - No fuel for cleanup became a health issue
  - Communication system is not as resilient as it use to be. No way to apply online. No communications
  - Landlines – No incentive for communities to be resilient
  - People living at Monmouth park eat two horses
  - Track and arena could have been used
    - No staff to operate a venue. Don't foresee using them. Put them in American Dream
    - Monmouth park always used parking lot. First Time people lived there. Wanted to put infrastructure at walkway
  - NJ Transit to use parking lots post storms. Parked vehicles to NJSEA parking lots

- Turnpike filled with sediment
- 3<sup>rd</sup> power feed underground for super bowl after New Orleans went black
- Sports complex is more complicated from Sandy. No rights for parking lot. Need lease holders to agree – This should be added as a mitigation action
- Fuel was very difficult to get post Sandy
- Petroleum program focuses on gas stations. Non-state-owned facilities for fuel
- Park of Elizabeth – Port Authority got money for World Trade Center. OEM in NY not really involved.
- Too little landfills north of Middlesex. Disaster mitigation
- Blizzards – where to put excess snow. -> melters work on jet fuel
- NJ OEM Training on forms – FEMA forms
- Agreement to participate in FEMA – attorney had problems with identifying state even to itself
- State bonding program with insurance program
- Substantial damage evaluations helped Bergen County construction officials and engineers
- Send notes and capability assessment to Jeff and Fawzia



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Sports and Exposition Authority	
<b>Description of Organization</b>	The New Jersey Sports and Exposition Authority (NJSEA) holds the land lease for and provides for the ongoing operation of the MetLife Sports Complex. The NJSEA is also the regional planning and zoning agency for the 30.4-square-mile Hackensack Meadowlands District through its absorption of the former New Jersey Meadowlands Commission (NJMC) in 2015. The District includes parts of 14 towns in Bergen and Hudson counties. The Authority upholds the former NJMC's three-fold mandate to provide for orderly development of the region, to provide facilities for the sanitary disposal of solid waste, and to protect the delicate balance of nature.
<b>Point of Contact</b>	Name/Title: Fawzia Shapiro, P.E., P.P., CFM, Assistant Chief Engineer Email: Fawzia.Shapiro@njmeadowlands.gov Phone: 201-460-4673 Address: One DeKorte Park Plaza P.O. Box 640 Lyndhurst, NJ 07071 Website: <a href="http://www.njsea.com/">http://www.njsea.com/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Yes. Floodplain Management, Land Use planning, Sustainability, Emergency Response Information.
<b>Does your organization provide technical assistance?</b>	Yes. Interactive Municipal Maps, Emergency Response Maps, Emergency Response Information, Municipal Equipment Pool. MERI provides vital resources to Meadowlands District first responders and municipal officials through its Geographic Information Systems (GIS) digital mapping program. The maps provide emergency officials immediate access to critical information, including continuously updated data on hazardous materials stored in warehouse facilities, fire hydrant locations, incident reports, floor plans, turn-around space for firetrucks, and current and historical aerial imagery.  The GIS group also offers a water level alert system and flood prediction maps to first responders and the public. The email and text-based alerts for District towns are sent when water levels reach 5.5 feet above sea level and continue to be relayed as the levels rise.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes. -NJMC Master Plan -Hackensack Meadowlands Floodplain Management Plan -Floodplain Management Planning - Zoning regulations require a ABFE +1 Ft (Planners and Engineers review elevation certificates) -Redevelopment Plans
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes. Monthly Board Meetings, The Meadowlands Environment Center (MEC) educational programs, Super Storm Sandy: Five Years Later Conference,
<b>Is Funding available for Hazard Mitigation?</b>	Yes, the agency over the past five decades has attracted billions of dollars in economic development to the Meadowlands while fostering the region's
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Integrating comprehensive planning and hazard mitigation.



State of New Jersey All-Hazard Mitigation Plan Update  
New Jersey Sports and Exposition Authority (NJSEA) Mitigation Actions



Michael Baker  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Sports and Exposition Authority	Coordinate and execute an agreement with leaseholders to use the MetLife Sports Complex as a shelter during a hazardous event or disaster.	1,2,6	High	Within 2 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Sever Weather and Severe Winter Weather.	Having an agreement that defines the terms of use and access to convert the arena into and emergency shelter during a hazard event will help facilitate rapid recovery and the protection of life and property.	Helps protect life and property by ensuring a place of last resort/shelter during a hazard event.	New for this Plan
New Jersey Sports and Exposition Authority	Host a Conference/Symposiums specific to resiliency and hazard mitigation planning for the region to enhance stakeholder education and training.	3	High	Within 2 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Sever Weather, Severe Winter Weather and Economic Collapse.	Gathers subject matter experts to present on the region's resiliency progress and challenges.	Enhances stakeholder education and training and increases public preparedness and awareness.	New for this Plan

State of New Jersey All-Hazard Mitigation Plan Update  
New Jersey Sports and Exposition Authority (NJSEA) Mitigation Actions



Michael Baker  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Sports and Exposition Authority	Update and enhance NJSEA's GIS databases to assist in identifying critical infrastructure and facilities within the Meadowlands District to assist with outreach, recovery and mitigation planning within the Meadowlands District.	3	High	Within 5 years	None Currently Available	All Hazards	NJSEA has established an existing GIS database for emergency response including data on hazardous materials stored in warehouse facilities, fire hydrant locations, incident reports, floor plans, turn-around space for heavy firefighting equipment, and current and historical aerial imagery. Proposed updates would enhance any identified gaps in the data or needs of first responders.	Improves hazard information databases and maps and increases accessibility to those resources.	New for this Plan



## **NJ DEPARTMENT OF CORRECTION MEETING (11/9/2017)**

# State of New Jersey All-Hazard Mitigation Plan Update

## Capability Assessment Meeting

**Michael Baker**

Organization: Dept. of Corrections Date: 11/9

[illegible]



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Corrections

**Date:** November 09, 2017

**Time:** 1pm

### **Attendees:**

Name	Organization	Title	Email Address
Clay McClain	NJDOC Special Operations Group	Lieutenant	David.scott@doc.nj.gov
David Scott	NJDOC Special Operations Group	Major	Clay.mccain@doc.nj.gov
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Paige Kaspar	Michael Baker Intl.	Planner	Paige.Kaspar@mbakerintl.com

### **Minutes/Notes:**

Mike gives an introduction on the importance of the State Hazard Mitigation Plan and what it means to the Department of Corrections. He goes over the Goals and Objectives as well as the Hazards that the plan addresses. Since the Dept. of Corrections was not included in the last plan, we explained to them what the Capability Assessment is and why it's used to build the plan.

Lieutenant Clay McClain, with the Dept. of Corrections Special Operations/ Emergency Management team started by describing his department as very self-sufficient. They manage to get a lot of work completed and have a decent amount of funding available to them.

During Hurricane Sandy, Hurricane Irene, and Snow Storm Jonas the faced some damage to their facilities. In the southern region of the state there are 2600 inmates located in trailers that are at risk of facing high winds. There is a need for better structures to withstand storm events. Issues include:

- Poor Structure
- Old windows
- Electrical/ power
- Heating
- Fire code

Generators are available at these facilities. The only issue faced when facilities need back up power is the switch the transfer over from street power to the generator power. They are currently working with a vendor on making this more efficient, but could always use more assistance with this process.

The state and each of the 13 facilities has an updated Continuity of Operations Plan (COOP). A COOP details all the activities, plans and procedures an agency must have to ensure that essential services are provided to the State's citizens and businesses during emergencies. Since most services are technology

based, OIT and the agencies must work together to identify which applications or technology are essential to providing services in the event of a natural or man-made disaster.

ESF-13 Public Safety and Security integrates Federal public safety and security capabilities and resources to support the full range of incident management activities associated with potential or actual incidents requiring a coordinated Federal response. The ESF-13 has allowed response and recovery for Puerto Rico post Hurricane Irma.

Mike suggests gathering all plans that the Department has made up for emergencies as well as start studies to back up information regarding structural flaws.

Flooding has not really been an issue for the department. One of their training facilities near the shore does experience some flooding. On the training property are sheds with ammo that have been damaged from storm waters. A mitigation action would be replacing sheds with buildings that can withstand floods.

Technical assistance provided by the Department of Corrections includes: inmate labor, provided water for contamination sites, trainings,

The Dept. of Corrections supplies trainings to counties including:

- Crowd Control
- Hazmat & Fire Response
- Confined Space Awareness
- Active Shooter Training
- Civil Unrest Training

Cyber Attacks hasn't been an issue. Within the past couple of years they have beefed up security and require a 2 part identification when logging in online.

The department is currently getting a vehicle that provides temporary heat and air to facilities during emergency situations.

Hazardous materials: has dual areas of responsibilities within its mission. This unit provides operational response and planning support for force protection for chemical, biological, radiological, nuclear, and explosive incidents to include: CBRNE agent surveillance and detection, identification of CBRNE material, evidence collection, sampling and, decontamination, environmental monitoring, scene management, and resource acquisition and management. In order to increase protection, they have requested more technology to detect these hazardous materials. They have 3 bombs dogs, but would find it helpful for additional equipment, tools, and training.

Costs for a reverse 911 system are costly and the department needs assistance with getting this program funded. They stress the importance of a notification system being in place.

Drone Intrusion is a huge issue that they are concerned about. Being able to have a mitigation action in place would be necessary.

- Security measures
- Target hardening

- Internal risk assessment

Meeting concluded at 2:50pm.

# State of New Jersey All-Hazard Mitigation Plan Update

## NJ Department of Corrections Mitigation Actions



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Department of Corrections	Purchase and install new mobile trailers or structures that can withstand high winds during hazardous events.	1,2,6	Med	5 years	FEMA HMA	Flood, Flash Flood, Hurricane, Tropical Storm, Nor'easter	Enhances the resiliency of mobile structures that provide essential services for the department.	Protects life and property. Will help State maintain operations	New for this Plan
NJ Department of Corrections	Purchase and install dual hook up (natural gas and diesel) generators and generator transfer switches at State Correction Facilities.	1,2,6	High	2 years	FEMA HMA	Hurricane, Tropical Storm, Nor'easter; Flood, Flash Flood, Ice Jam; Tornado, Wind Storm ; Winter Storm; Utility Interruption	Enhances continuity of operations, protects life, and property of critical facilities during a power failure.	Protects life and property. Will help State maintain operations	New for this Plan
NJ Department of Corrections	Conduct a facilities-wide resiliency study to evaluate the risk and vulnerability of the State's Correctional Facilities to natural and human-based hazards.	4	High	2 years	FEMA HMA	Flood, Flash Flood, Hurricane, Tropical Storm, Nor'easter	The Resiliency Action Plan develops and maintains an understanding of risks from hazards. It also establishes an action plan to increase capabilities to mitigate against future losses and vulnerability	It establishes an action plan to increase capabilities to mitigate against future losses and vulnerability	New for this Plan



State of New Jersey All-Hazard Mitigation Plan Update  
NJ Department of Corrections Mitigation Actions



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Department of Corrections	Purchase mobile air conditioning and heater units to provide temporary heat and air to facilities that may experience unsafe temperatures during emergency situations.	1,6	Med	5 years	FEMA HMA	Hurricane, Tropical Storm, Nor'easter; Flood, Flash Flood, Ice Jam; Tornado, Wind Storm ; Winter Storm; Utility Interruption	Protects inmates and staff from life threatening conditions as a result in damage to HVAC systems during severe weather conditions	Protects life and property. Will help State maintain operations	New for this Plan

State of New Jersey All-Hazard Mitigation Plan Update  
NJ Department of Corrections Mitigation Actions



Michael Baker  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Department of Corrections	Purchase and install additional equipment to assist in detecting and decontaminating hazardous substances.	6	Med	5 years	FEMA HMA	Terrorism; Civil unrest; Hazardous Substances	The Department of Corrections has a dedicated team of over 60 law enforcement officers in their HazMat/C.O.B.R.A (Chemical Ordinance Biological Radiological Aid) team	Protects life and property. Will help State maintain operations	New for this Plan
NJ Department of Corrections	Purchase and install new system-wide alert for the department of corrections, similar to Reverse 911.	6	Med	5 years	FEMA HMA	All	The Department is seeking to enhance and expand its warning and emergency communication system.	Enhances warning and response time to hazards and capability to protect life.	New for this Plan
NJ Department of Corrections	Purchase and install counter-acting drone intrusion infrastructure and/ or devices for State Correctional Facilities.	1,2	Low	5 years	Homeland Security or FEMA HMA	Terrorism	Prevents drones from surveilling, bringing contraband in facilities, or acting as a destructive weapon causing loss to property and life.	Protects life and property. Will help State maintain operations	New for this Plan



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>Department of Corrections</b>
<b>Description of Organization</b>	The Department of Corrections is responsible for operations and management of prison facilities in the U.S. state of New Jersey. The department operates 13 major institutions. The department is headquartered in Trenton.	
<b>Point of Contact</b>	Name/Title: Clay McClain, Lieutenant at NJDOC - Special Operations/Emergency Management Email: Clay.mccain@doc.nj.gov Phone: 856-506-9106 Address: Whittlesey Rd, Trenton, NJ 08618 Website: <a href="https://www.state.nj.us/corrections/pages/index.shtml">https://www.state.nj.us/corrections/pages/index.shtml</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Flood, Hurricane and Tropical Storms, Severe Weather, Nor'Easters, Winter Storms, Civil Unrest, Cyber Attacks, Hazardous Substances, Power Outages, Terrorism	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The state and each of the 13 facilities has an updated Continuity of Operations Plan (COOP). A COOP details all the activities, plans and procedures an agency must have to ensure that essential services are provided to the State's citizens and businesses during emergencies.  -ESF-13 Public Safety and Security integrates Federal public safety and security capabilities and resources to support the full range of incident management activities associated with potential or actual incidents requiring a coordinated Federal response. The ESF-13 has allowed response and recovery for Puerto Rico post Hurricane Irma.	
<b>Does your organization provide technical assistance?</b>	Special Operations Response Team Canine Unit Correctional Emergency Response Team Enhanced Security Transportation Unit Critical Incident Negotiation Unit Office of Emergency Management Hazmat Team (Chemical Ordnance Biological Radiological Aid) Forward Area Strike Teams	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	The state and each of the 13 facilities has an updated Continuity of Operations Plan (COOP). A COOP details all the activities, plans and procedures an agency must have to ensure that essential services are provided to the State's citizens and businesses during emergencies.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	<ul style="list-style-type: none"> <li>• Crowd Control</li> <li>• Hazmat &amp; Fire Response</li> <li>• Confined Space Awareness</li> <li>• Active Shooter Training</li> <li>• Civil Unrest Training</li> </ul>	
<b>Is Funding available for Hazard Mitigation?</b>	Yes	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	The unit is a liaison with the State of New Jersey's Office of Emergency Management, and also maintains mutual aid agreements with local, state, and federal law enforcements	



## **SEMPs MEETING (12/13/2017)**



## SEMPs Meeting Sign In Sheet

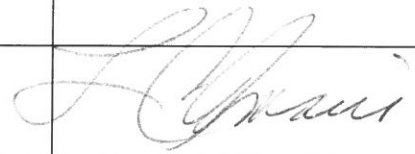
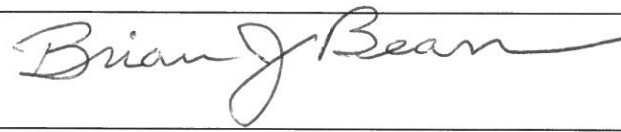
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NAME	AGENCY	ESF, Incident, or Support Annex	PRIMARY PHONE CONTACT NUMBER	PRIMARY EMAIL	SIGNATURE
Acree, Melissa	NJ 211	6,8	973-887-4618	<a href="mailto:macree@nj211.org">macree@nj211.org</a>	
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Barron, Nicholas	USCG	1, 9		<a href="mailto:nicholas.a.barron@uscg.mil">nicholas.a.barron@uscg.mil</a>	
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Beam, Brian	NJBPU	12	609-633-9372	<a href="mailto:Brian.beam@bpu.nj.gov">Brian.beam@bpu.nj.gov</a>	
Beatrice, Jared	NJOEM	14	609-358-2399	<a href="mailto:Lpp5560@gw.njsp.org">Lpp5560@gw.njsp.org</a>	
Bisogno, Raymond	NJOEM	5	609-882-2000 x2043	<a href="mailto:lppbisor@gw.njsp.org">lppbisor@gw.njsp.org</a>	

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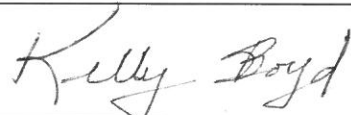
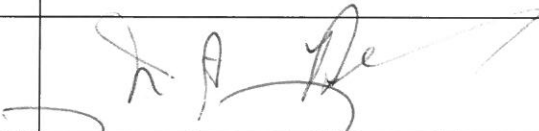
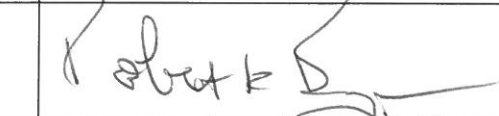
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Bryan, Robert	DMAVA	5	609-530-7030	<a href="mailto:Robert.k.bryan.mil@mail.mil">Robert.k.bryan.mil@mail.mil</a>	

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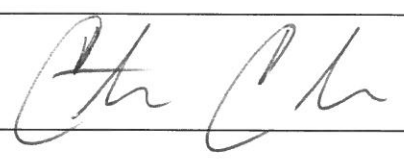
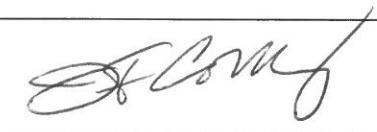
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Buddenbaum, Kristen	NJDOT	1	609-530-2327	<a href="mailto:Kristen.buddenbaum@dot.nj.gov">Kristen.buddenbaum@dot.nj.gov</a>	
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Castillo, Ben <i>CORBLEY, JAMES</i>	NJDOE	6	609-508-2222	<a href="mailto:Ben.Castillo@doe.state.nj.us">Ben.Castillo@doe.state.nj.us</a> <i>JAMES.CORBLEY@DOE.STATE.NJ.US</i>	

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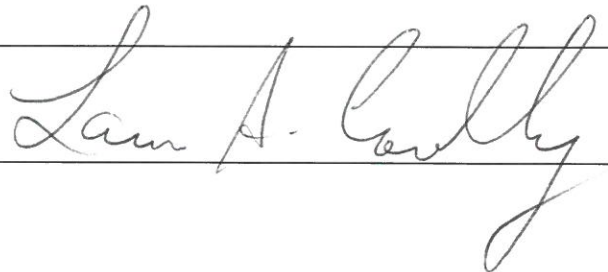
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Collier, Mark	Governor's Office	BP/15		<a href="mailto:mark.collier@nj.gov">mark.collier@nj.gov</a>	
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Cook, Argean	NJCAR	14		<a href="mailto:acook@njtransit.com">acook@njtransit.com</a>	



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Craney, William	NJOEM	5	609-963-6731	<a href="mailto:lpp5821@gw.njsp.org">lpp5821@gw.njsp.org</a>	
Cuartas, JB	FEMA	BP	212-680-3699	<a href="mailto:Jb.cuartas@fema.dhs.gov">Jb.cuartas@fema.dhs.gov</a>	
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Dreyer, Christian	NJOEM	9	732-657-7001 x12	<a href="mailto:lpp5585@gw.njsp.org">lpp5585@gw.njsp.org</a>	

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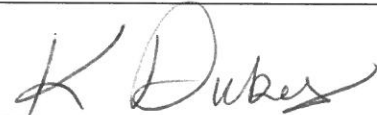
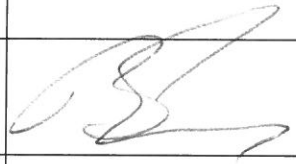

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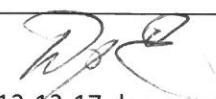
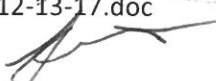
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Duell, Scott	FEMA II	Federal	(347) 633-4308	<a href="mailto:Scott.Duell@fema.dhs.gov">Scott.Duell@fema.dhs.gov</a>	
Dukes, Kristin	NJOEM	5	609-963-6900 x6627	<a href="mailto:Lppdukek@gw.njsp.org">Lppdukek@gw.njsp.org</a>	
Eden, Jim	American Red Cross	6		<a href="mailto:jim.eden@redcross.com">jim.eden@redcross.com</a>	
Enberg, Bryan	NJOEM	9	732-657-7001	<a href="mailto:lptenbeb@gw.njsp.org">lptenbeb@gw.njsp.org</a>	
English, Chris	NJOEM	2	609-963-6972	<a href="mailto:Lpp5144@gw.njsp.org">Lpp5144@gw.njsp.org</a>	
Everingham, Bryan	NJOEM	5	609-963-6900 x6975	<a href="mailto:Lpp5347@gw.njsp.org">Lpp5347@gw.njsp.org</a>	
Fahey, Brayden	CCA	BP		<a href="mailto:bfahey@co.hunterdon.nj.us">bfahey@co.hunterdon.nj.us</a>	

ENGELHART, DAN NJSP  
FRAGÉ, Fritz G NJSP

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609-218-2533 lpp5263@gw.njsp.org  
609-439-3297 lpp5590@gw.njsp.org

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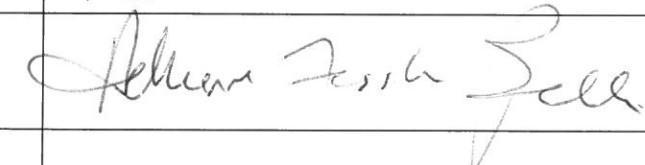
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Falzon, Andrew	OSME	8	609-984-4883 732-425-3987	<a href="mailto:Andrew.Falzon@lps.state.nj.us">Andrew.Falzon@lps.state.nj.us</a>	
Farletta, Rick	NJDCA/ DFS	4	609-947-7529	<a href="mailto:Richard.Farletta@dca.nj.us">Richard.Farletta@dca.nj.us</a>	
Fessler Belli, Adrienne	NJDOH	6/8	609-273-9307	<a href="mailto:Adrienne.Fessler-belli@doh.nj.gov">Adrienne.Fessler-belli@doh.nj.gov</a>	
Forrester, Robert	NJOEM	2	609-963-6224	<a href="mailto:LPP4791@gw.njsp.org">LPP4791@gw.njsp.org</a>	
Fraser, Ryan	NJTPD OEM	1	973-558-2559	<a href="mailto:rfraser@njtransit.com">rfraser@njtransit.com</a>	
Garcia, Ricardo	NJARNG	7	609-530-7010	<a href="mailto:Ricardo.J.Garcia.mil@mail.mil">Ricardo.J.Garcia.mil@mail.mil</a>	
Garelick, Jonathan	NJOAG	13	609-984-4965	<a href="mailto:Jonathan.Garelick@lps.state.nj.us">Jonathan.Garelick@lps.state.nj.us</a>	

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NAME	AGENCY	ESF, Incident, or Support Annex	PRIMARY PHONE CONTACT NUMBER	PRIMARY EMAIL	SIGNATURE
Garibaldi, Glenn	NJOEM	5	609-963-6900 x6205	<a href="mailto:Lpp5700@gw.njsp.org">Lpp5700@gw.njsp.org</a>	
Geleta, Joseph	NJDHS	6	609-631-4363	<a href="mailto:Joseph.Geleta@dhs.state.nj.gov">Joseph.Geleta@dhs.state.nj.gov</a>	
Giuliano, James	NJBPU	12	609-633-7733	<a href="mailto:James.Giuliano@bpu.nj.gov">James.Giuliano@bpu.nj.gov</a>	
Godish, Gregory	NJOEM	5	609-963-7842	<a href="mailto:LPP6450@gw.njsp.org">LPP6450@gw.njsp.org</a>	
Gorman, Patrick	NJOEM	BP/5/9	609-963-6996	<a href="mailto:Lpp5595@gw.njsp.org">Lpp5595@gw.njsp.org</a>	
Hendrickson, Russell	NJDHS	6	609-256-2413	<a href="mailto:russell.hendrickson@dhs.state.nj.us">russell.hendrickson@dhs.state.nj.us</a>	
Henry, Erin	NJOHSP	7	973-353-8287	<a href="mailto:ehenry@njohsp.gov">ehenry@njohsp.gov</a>	



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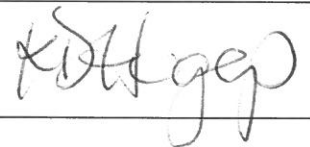


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Higgs, Kelly	NJVOAD	6, 8	609-412-9039	<a href="mailto:kdamonhiggs@nj211.org">kdamonhiggs@nj211.org</a>	
Holliday, Eric	NJ Transit Police	1	973-522-3641	<a href="mailto:EHolliday@NJTransit.com">EHolliday@NJTransit.com</a>	
Holmes, Steve	NJDEP/ FFS	4	609-209-2335	<a href="mailto:steve.holmes@dep.nj.gov">steve.holmes@dep.nj.gov</a>	
Horner, Matthew	NJOEM	BP/5	609-963-6961	<a href="mailto:Lpp5282@gw.njsp.org">Lpp5282@gw.njsp.org</a>	
Hughes, Colin	FEMA	Federal		<a href="mailto:Colin.hughes@fema.dhs.gov">Colin.hughes@fema.dhs.gov</a>	
Jones, Scott	NJDCJ/ OSME	8	609-984-7847	<a href="mailto:jones@njdcj.org">jones@njdcj.org</a>	
Kaiura, Mitzi	NJDEP	3	609-422-7236 609-777-1017	<a href="mailto:Mitzi.Kaiura@dep.nj.gov">Mitzi.Kaiura@dep.nj.gov</a>	

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Kapsimalis, John	FEMA	Federal	917-455-6834	<a href="mailto:John.kapsimalis@fema.dhs.gov">John.kapsimalis@fema.dhs.gov</a>	
Katch, Rachel	NJUASI	BP		<a href="mailto:rkatch@nnjuasi.org">rkatch@nnjuasi.org</a>	
Kay, Christopher	NJCICC	2		<a href="mailto:lpp5901@gw.njsp.org">lpp5901@gw.njsp.org</a>	
Kelleher, Bill	NJOEM	BP/5	609-963-6991	<a href="mailto:lppkellw@gw.njsp.org">lppkellw@gw.njsp.org</a>	
Kitchell, Joseph	NJDOL	14	609-433-4502	<a href="mailto:Joseph.Kitchell@dol.nj.gov">Joseph.Kitchell@dol.nj.gov</a>	
Knutowicz, Paulette	NJOEM	5	609-882-2000 x2197	<a href="mailto:Lpp5369@gw.njsp.org">Lpp5369@gw.njsp.org</a>	
Krane, Bryan	FEMA	BP	540-532-0997	<a href="mailto:bryan.krane@fema.dhs.gov">bryan.krane@fema.dhs.gov</a>	

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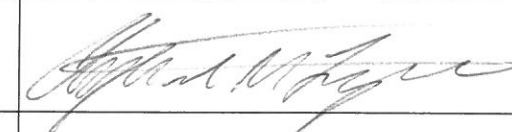
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Lawyer, Bryan	NJOEM	14	609-882-2000 x3003	<a href="mailto:Lpp5617@gw.njsp.org">Lpp5617@gw.njsp.org</a>	
Leckner, Mariana	NJOEM	5	609-963-6937	<a href="mailto:LppLeckm@gw.njsp.org">LppLeckm@gw.njsp.org</a>	
Longwith, Chris	NJTREAS	7	609-777-2931	<a href="mailto:Christopher.longwith@treas.nj.gov">Christopher.longwith@treas.nj.gov</a>	
Lopez, Danna	FEMA Region II	Federal	646-789-1287	<a href="mailto:Danna.lopez@fema.dhs.gov">Danna.lopez@fema.dhs.gov</a>	
Luckie, Kevin	NJDCA	6	609-292-7899	<a href="mailto:Kevin.Luckie@dca.state.nj.us">Kevin.Luckie@dca.state.nj.us</a>	
<del>MacBride, Sean</del>	<del>NJDEP</del>	<del>10</del>	<del>609-984-9783</del>	<del><a href="mailto:sean.macbride@dep.nj.gov">sean.macbride@dep.nj.gov</a></del>	<del></del>
Madden, Rowena	Lt. Gov's Office	6, 7	609-633-9629	<a href="mailto:rowena.madden@sos.nj.gov">rowena.madden@sos.nj.gov</a>	

REMOVED THANKS  
MITZI KALININ

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Marcopolus, Odysseus	NJOIT	Cyber	609-984-4084	<a href="mailto:Odysseus.marcopolus@tech.nj.gov">Odysseus.marcopolus@tech.nj.gov</a>	
Matorin, Joshua	NJOEM	BP/5	609-963-6900 x6627	<a href="mailto:Lppmatoj@gw.njsp.org">Lppmatoj@gw.njsp.org</a>	
McClain, Clay	NJDOC	13	609-433-1599	<a href="mailto:Clay.mcclain@doc.nj.gov">Clay.mcclain@doc.nj.gov</a>	
McCluskey, Brendan	NJDOH	8	609-984-7922	<a href="mailto:Brendan.mccluskey@doh.nj.gov">Brendan.mccluskey@doh.nj.gov</a>	
McFadden, Jim	NJDCA/ DFS	4	609-947-7468	<a href="mailto:James.mcfadden@DCA.nj.gov">James.mcfadden@DCA.nj.gov</a>	
McGowan, Kevin	NJDOC	13	609-414-4647	<a href="mailto:kevin.mcgowan@doc.nj.gov">kevin.mcgowan@doc.nj.gov</a>	
Meeks, Kerstin	Governor's Office	BP/15	609-777-1257	<a href="mailto:Kerstin.Sundstrom@nj.gov">Kerstin.Sundstrom@nj.gov</a>	



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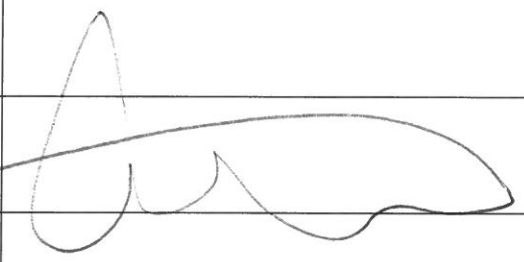



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Miller, Audrey	NJDOH	8	609-633-7048	<a href="mailto:Audrey.miller@doh.nj.gov">Audrey.miller@doh.nj.gov</a>	
Moldenhauer, Cathy	NJOEM	5	609-963-7842	<a href="mailto:Lpp5755@gw.njsp.org">Lpp5755@gw.njsp.org</a>	
Nerbetski, Leonard	NJOEM	5		<a href="mailto:lpp5083@gw.njsp.org">lpp5083@gw.njsp.org</a>	
Niederer, Karl	NJCAR/ State Library	14	609-984-6017	<a href="mailto:NJCAR@njstatelib.org">NJCAR@njstatelib.org</a>	
Palmer, James	NJDOE	6	(609) 292-3276	<a href="mailto:James.Palmer@doe.state.nj.us">James.Palmer@doe.state.nj.us</a>	
Panaro, Glen	NJOHSP	7	609-584-4188	<a href="mailto:gpanaro@njohsp.gov">gpanaro@njohsp.gov</a>	
Pearson, Gary	NJDEP	10	609-633-2168 (o) 201-697-6794 (c)	<a href="mailto:gary.pearson@dep.nj.gov">gary.pearson@dep.nj.gov</a>	

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Pellegrino, Marc	NJOEM	5	908-510-7477	<a href="mailto:LPP6522@gw.njsp.org">LPP6522@gw.njsp.org</a>	
Perillo, Paul	FEMA	Federal	609-864-2404	<a href="mailto:Paul.A.Perillo@fema.dhs.gov">Paul.A.Perillo@fema.dhs.gov</a>	
Plumeri, Matthew	NJDOL	14	609-558-4840	<a href="mailto:matthew.plumeri@dol.nj.gov">matthew.plumeri@dol.nj.gov</a>	
Pryor, Caroline	OSME	8		<a href="mailto:pryorc@njdcj.org">pryorc@njdcj.org</a>	
Rafferty, Tom	NJOEM	5/7	609-963-6955	<a href="mailto:LPPRAFFT@gw.njsp.org">LPPRAFFT@gw.njsp.org</a>	
Roberts, Ron	NJOEM	5	609-963-6213	<a href="mailto:lpp5779@gw.njsp.org">lpp5779@gw.njsp.org</a>	
Robinson, Dennis	Lt. Gov's Office	6, 7		<a href="mailto:dennis.robinson@nj.gov">dennis.robinson@nj.gov</a>	

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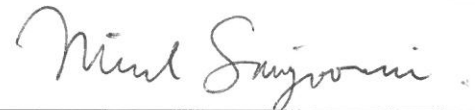
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NAME	AGENCY	ESF, Incident, or Support Annex	PRIMARY PHONE CONTACT NUMBER	PRIMARY EMAIL	SIGNATURE
Rogacki, Edward	NJDOT	1	609-847-2092	<a href="mailto:Edward.Rogacki@dot.nj.gov">Edward.Rogacki@dot.nj.gov</a>	
Sangiovanni, Michael	NJOEM	7/14	609-462-1547	<a href="mailto:lppsangm@gw.njsp.org">lppsangm@gw.njsp.org</a>	
Santoni, Iris	FEMA	BP	540-532-0431	<a href="mailto:iris.santoni@fema.dhs.gov">iris.santoni@fema.dhs.gov</a>	
Scantling, Mike	NJDOC	13	609-826-5664	<a href="mailto:Michael.Scantling@doc.nj.gov">Michael.Scantling@doc.nj.gov</a>	
Schiavo, Raymond	NJOEM	5	908-399-0114	<a href="mailto:lpp5647@gw.njsp.org">lpp5647@gw.njsp.org</a>	
Sensi, Robert	NJDOE	6			
Sinatra, Mario	NJOEM	5	609-273-0938	<a href="mailto:Lpp5320@gw.njsp.org">Lpp5320@gw.njsp.org</a>	

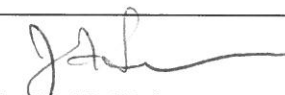
SANSONE, JOSEPH

NJSP

13

732-513-7613

[Lpp5094@gw.njsp.org](mailto:Lpp5094@gw.njsp.org)



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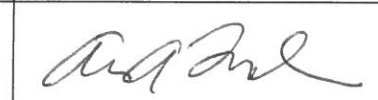
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Smith, Allen	NJOEM RERP&T	BP	609-963-6724	<a href="mailto:lppsmitta@gw.njsp.org">lppsmitta@gw.njsp.org</a>	
Snyder, Andrew	NJDOH	8	609-847-7517	<a href="mailto:Andrew.Snyder@doh.state.nj.us">Andrew.Snyder@doh.state.nj.us</a>	
Spellmeyer, Greg	NJOAG	13	609-292-4478	<a href="mailto:Gregory.Spellmeyer@lps.state.nj.us">Gregory.Spellmeyer@lps.state.nj.us</a>	
Steward, Nichole	NJDA	11	609-292-5576	<a href="mailto:Nichole.Steward@ag.state.nj.us">Nichole.Steward@ag.state.nj.us</a>	
Sudol, April	NJOEM	14	609-882-2000	<a href="mailto:lppsudoa@gw.njsp.org">lppsudoa@gw.njsp.org</a>	
Taklif, Dean	NJBPU	12	609-292-4318	<a href="mailto:Dean.Taklif@bpu.nj.gov">Dean.Taklif@bpu.nj.gov</a>	
Tarnopol, Alison	NJOHSP	7	973-645-5231	<a href="mailto:Atarnopol@njohsp.gov">Atarnopol@njohsp.gov</a>	



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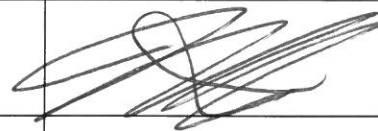
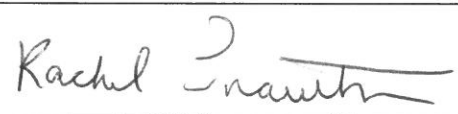
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Taylor, Terrence	NJARNG	7	609-530-7010	<a href="mailto:Terrence.D.Taylor.mil@mail.mil">Terrence.D.Taylor.mil@mail.mil</a>	
Teleb, Mohamed	USDHS		202-617-5039	<a href="mailto:Mohamed.Teleb@dhs.gov">Mohamed.Teleb@dhs.gov</a>	
Thomasson, Tim	ROIC	BP/5		<a href="mailto:lpthomt@gw.njsp.org">lpthomt@gw.njsp.org</a>	
Tirado, Jose	NJ Transit Police	1	973-491-7172	<a href="mailto:Jrtirado@njtransit.com">Jrtirado@njtransit.com</a>	
Torres, Fernando	NJOEM	5		<a href="mailto:LPP5944@gw.njsp.org">LPP5944@gw.njsp.org</a>	
Trautman, Rachel	NJDCF	6	609-649-2406	<a href="mailto:Rachel.trautman@dcf.state.nj.us">Rachel.trautman@dcf.state.nj.us</a>	
Tredinnick, Glenna	USCG Philly	1, 3, 9, 10, 12, 13	215-271-4800, x4653	<a href="mailto:Glenna.t.tredinnick@uscg.mil">Glenna.t.tredinnick@uscg.mil</a>	

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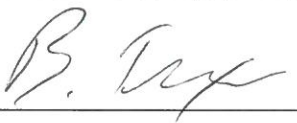


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Trexler, Bryan	NJOEM	7	609-963-6970	<a href="mailto:LPP5324@gw.njsp.org">LPP5324@gw.njsp.org</a>	
Tritsch, Joanne	NJDOH	8		<a href="mailto:joanne.tritsch@doh.nj.gov">joanne.tritsch@doh.nj.gov</a>	
Van Fossen, Bob	NJDEP	3/10	609-633-2168 (o) 609-780-6899 (c)	<a href="mailto:Robert.vanfossen@dep.nj.gov">Robert.vanfossen@dep.nj.gov</a>	
Vivian, Rob	NJDA	11	609-292-8898	<a href="mailto:Rob.Vivian@ag.state.nj.us">Rob.Vivian@ag.state.nj.us</a>	
Walsh, Tom	NJOEM	5	609-468-8762	<a href="mailto:lpp6484@gw.njsp.org">lpp6484@gw.njsp.org</a>	
Whalen, Michael	NJDCA	6	609-984-7609	<a href="mailto:Michael.Whalen@dca.state.nj.us">Michael.Whalen@dca.state.nj.us</a>	
Whytlaw, Ryan	NJDOT	1	609-530-2554	<a href="mailto:ryan.whytlaw@dot.nj.gov">ryan.whytlaw@dot.nj.gov</a>	

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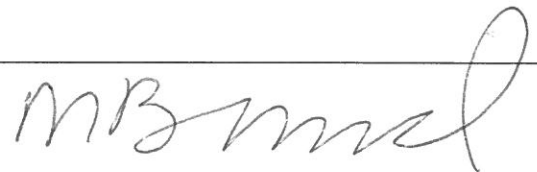
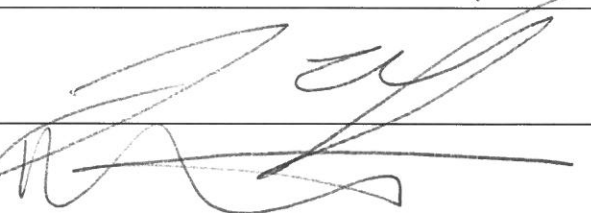
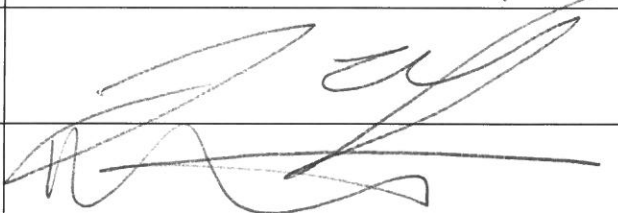
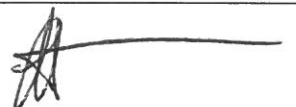
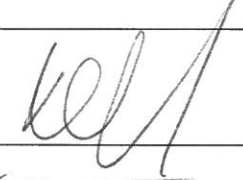
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Wilder, Kevin	NJDCJ	8	973-648-7692 201-988-0425	<a href="mailto:wilderk@njdcj.org">wilderk@njdcj.org</a>	
Windle, Doris	NJDHS	6	609-802-2072	<a href="mailto:Doris.Windle@dhs.state.nj.us">Doris.Windle@dhs.state.nj.us</a>	
Wood, Marybeth	NJOAG	13	609-292-4478/ 609-984-6998	<a href="mailto:Marybeth.Wood@dol.lps.state.nj.us">Marybeth.Wood@dol.lps.state.nj.us</a>	
Yorgey, Joshua	DMAVA	7	609-530-7125	<a href="mailto:joshua.f.yorgey.mil@mail.mil">joshua.f.yorgey.mil@mail.mil</a>	
Taormino, Michelle	NJDEP	3	609-633-2168	<a href="mailto:michelle.taormino@dep.nj.gov">michelle.taormino@dep.nj.gov</a>	
Hoffmann, Bryan	Office State ME	8	973 407 9115	<a href="mailto:hoffmannb@NSDAS.org">hoffmannb@NSDAS.org</a>	
HEATH, Doug	Red Cross	6	202-531 3881	Douglas, J. HEATH @ Red Cross, 609 Chris Depina, Depina @ Red Cross, 03	

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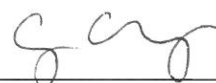

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Updated: December 12, 2017

NAME	AGENCY	ESF, Incident, or Support Annex	PRIMARY PHONE CONTACT NUMBER	PRIMARY EMAIL	SIGNATURE
Lance Visone	NJSP	✓	201-321-4593	Lpp6766@GW.NJSP.ORG	
Dan Canning	NJSP	✓	609-480-5118	LP6840@GW.NJSP.ORG	
Craig WENGER	BAKER		609 807 9674	cwenger@mbakerintl.com	
Michael Yaff	Baker	—	609 346 8405	myaffe@mbakerintl.com	



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## NJ SEMPS

**Date:** December 13, 2017

**Time:** 10am

**Location:** State Police Regional Operations Intelligence Center (**ROIC**)

### Attendees:

Name	Organization	Email Address
Lynn Amari	NJOEM	LPPAMARL@gw.nj.org
Brian Beam	NJBPU	<a href="mailto:Brian.beam@bpu.nj.gov">Brian.beam@bpu.nj.gov</a>
Kelly Boyd	NJOEM	<a href="mailto:Kelly.boyd@iem.com">Kelly.boyd@iem.com</a>
James Bruncati	NJBPU	James.bruncati@bpu.nj.gov
Robert Bryan	DMAVA	Robert.k.bryan.mil@mail.mil
Cris Cambara	NTREAS	cristian.cambara@treas.nj.gov
James Corbley	NJDOE	James.corbley@doe.state.nj.us
Ken Christensen	Nj ESF TF	Kenneth.christensen@doh.nj.gov
Laura Connolly	NJOEM	limconnl@gw.njsp.org
Anthony DiLello	NJOAG	Anthony.DiLello@lps.state.nj.us
Kristin Dukes	NJOEM	lppdukek@gw.njsp.org
Bryan Enberg	NJOEM	lptenbeb@gw.njsp.org
Dan Engelhardt	NJSP	Lpp5263@gw.njsp.org
Fritz G Frage	NJSP	Lpp5590@gw.njsp.org
Brayden Fahey	CCA	bfahey@co.hunterdon.nj.us
Rick Farletta	NJDCA/ DFS	Richard.Farletta@dca.nj.us
Adrienne Fessler Belli	NJDOH	Adrienne.Fessler-belli@doh.nj.gov
Kelly Higgs	NJVOAD	kdamonhiggs@nj2ll.org
Matthew Horner	NJOEM	Lpp5282@gw.njsp.org
Mitzi Kaiura	NJDEP	Mitzi.Kaiura@dep.nj.gov
Joseph Kitchell	NJDOL	Joseph.Kitchell@dol.nj.gov
Mariana Leckner	NJOEM	lppleckm@gw.njsp.org
Chris Longwith	NJTREAS	Christopher.longwith@treas.nj.gov
Joshua Matorin	NJOEM	lppmatoj@gw.njsp.org
Clay McClain	NJDOC	Clay.mcclain@doc.nj.gov
Brendan McCluskey	NJDOH	Brendan.mccluskey@doh.nj.gov
Audrey Miller	NJDOH	Audrey.miller@doh.nj.gov
Leonard Nerbetski	NJOEM	Lpp5083@gw.njsp.org
Cathy Moldenhauer	NJOEM	Lpp5755@gw.njsp.org
Glen Panaro	NJOHSP	gpanaro@njohsp.gov
Gary Pearson	NJDEP	Gary.pearson@dep.nj.gov
Marc Pellegrino	NJOEM	Lpp6522@gw.njsp.org
Michael Sangiovanni	NJOEM	lppsangm@gw.njsp.org
Joseph Sansone	NJSP	Lpp5094@gw.njsp.org
Andrew Snyder	NJDOH	<a href="mailto:Andrew.Snyder@doh.state.nj.us">Andrew.Snyder@doh.state.nj.us</a>

Dean Taklif	NJBPU	Dean.Taklif@bpu.nj.gov
Alison Tarnopol	NJOHSP	Atarnopol@njohsp.gov
Jose Tirado	NJ Transit Police	Jrtirado@njtransit.com
Rachel Trautman	NJDCF	Rachel.trautman@dcf.state.nj.us
Bryan Trexler	NJOEM	Lpp5324@gw.njsp.org
Bob Van Fossen	NJDEP	Robert.vanfossen@dep.nj.gov
Rob Vivian	NJDA	Rob.Vivian@ag.state.nj.us
Marybeth Wood	NJOAG	Marybeth.Wood@dol.lps.state.nj.us
Joshua Yorgey	DMAVA	Joshua.f.yorgey.mil@mail.mil
Michelle Taormino	NJDEP	Michelle.taormino@dep.nj.gov
Bryan Hothmann	Office State ME	hoffmanb@njdcj.org
Doug Heaty	FEMA	Douglas.j.heaty@fema.dhs.gov
Chris Dempsey	Red Cross	Christopher.dempsey@redcross.org
Lance Visone	NJSP	Lpp6766@gw.njsp.org
Dan Dunning	NJSP	Lpp6766@gw.njsp.org
Craig Wenger	Michael Baker Intl.	Cwenger@mbakerintl.com
Michael Yaffe	Michael Baker Intl.	Michael.yaffe@mbakerintl.com

#### **Minutes/Notes:**

Michael Baker Gave an update presentation of the State HMP to Members of the SHMP.

Discussed the following topics in the presentation:

- Preliminary Risk Assessment Results
- Announced the Project Schedule,
- Goals and Objectives
- Hazards Identified
- Capability Survey
- Mitigation Actions

Michael Baker announced the outreach efforts for the plan update and let members know that they would be contacted for meetings/teleconferences for the plan update.

Michael Baker remained after the meeting to discuss the plan after the meeting with interested members as the plan update was not the only item on the agenda.



# New Jersey State Hazard Mitigation Plan Update

SEMPs Meeting

December 13, 2017



*We Make a Difference*



# SHMT Participants



LEAD CONSULTANT

**Michael Baker**  
INTERNATIONAL

State Hazard Mitigation Team





# What is Hazard Mitigation?

Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters

## What is a Mitigation Plan?

State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events.

**States are required to update the mitigation plan every 5 years.**

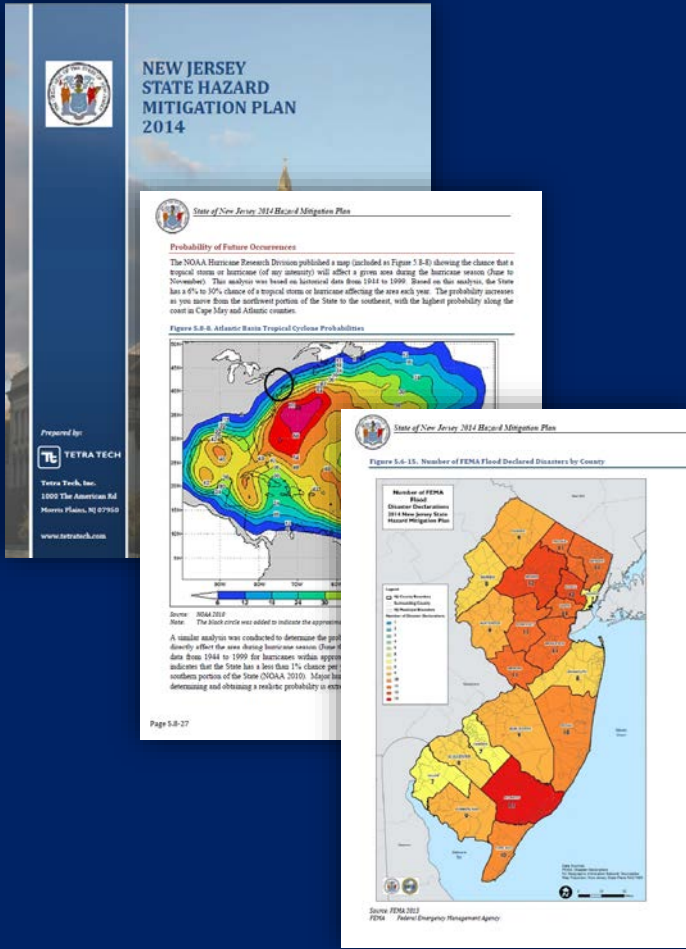
- **The Stafford Act**
- **The Disaster Mitigation Act of 2000**



# Building on an Existing Plan

## Major Sections of 2014 SHMP

- Planning Process
- Coordination of Local Planning
- State of New Jersey Profile
- State Risk Assessment
- State Capability Assessment
- Mitigation Strategies
- Repetitive Loss Strategy



# New for this Plan Update

- Development of a Standardized Risk Template for use in County Multi-jurisdictional Plan Roll Up
- Partnering with Rutgers University and *Jacques Cousteau National Estuarine Research Reserve* to conduct a Statewide Water-based Exposure Assessment.
- Meetings with each individual New Jersey State Departments, Agencies, MPOs and Regional Planning Entities
- Mitigation Loss Avoidance Study (LAS)

# Project Timeline/Schedule

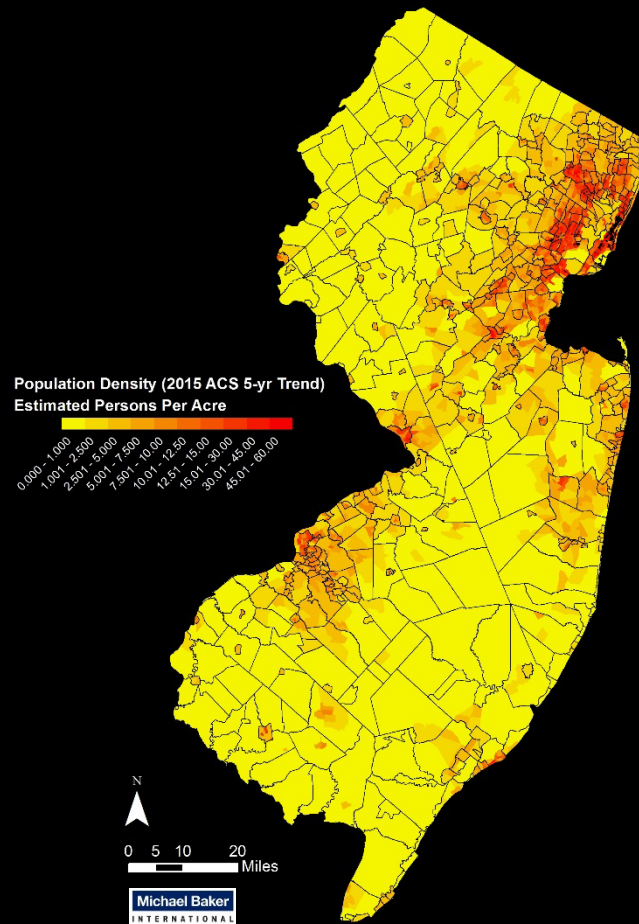
- August 25<sup>th</sup> 2018 – Submit Draft Plan to SHMT
- October 25<sup>th</sup> 2018 – Submit to State of New Jersey
- January 25<sup>th</sup> 2019 – Submit to FEMA
- April 25<sup>th</sup> 2019 – Certification & Approval from FEMA





# State of New Jersey Profile

*The Plan Update must consider how future risk and vulnerability may be affected by changing future conditions, development patterns, and population demographics.*



## New Jersey URBAN GROWTH CHANGE ANIMATION

NJDEP Land Use/Land Cover  
Data Series: 1986 - 2012

>1986

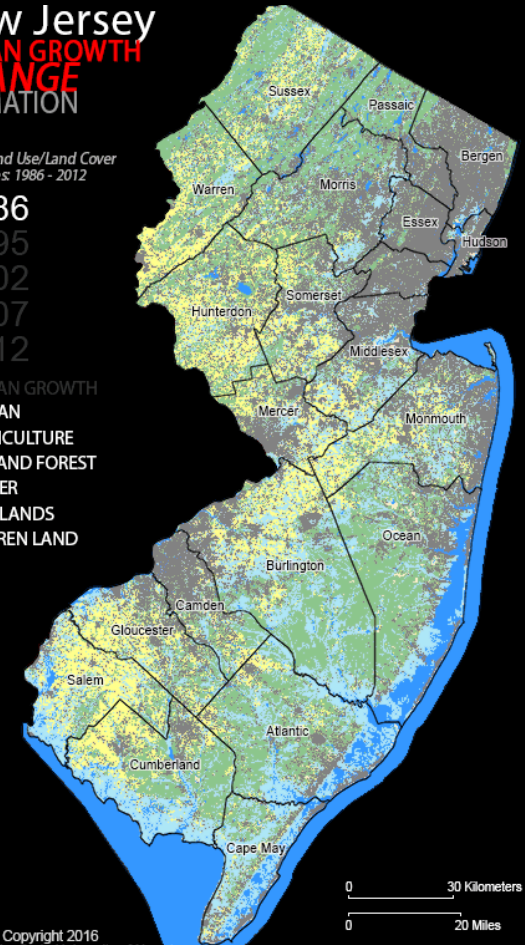
>1995

>2002

>2007

>2012

URBAN GROWTH  
URBAN  
AGRICULTURE  
UPLAND FOREST  
WATER  
WETLANDS  
BARREN LAND



Animation Copyright 2016  
Rutgers, The State University of New Jersey  
Grant F. Walton Center for Remote Sensing and Spatial Analysis (CRSSA)  
<http://crssa.rutgers.edu>

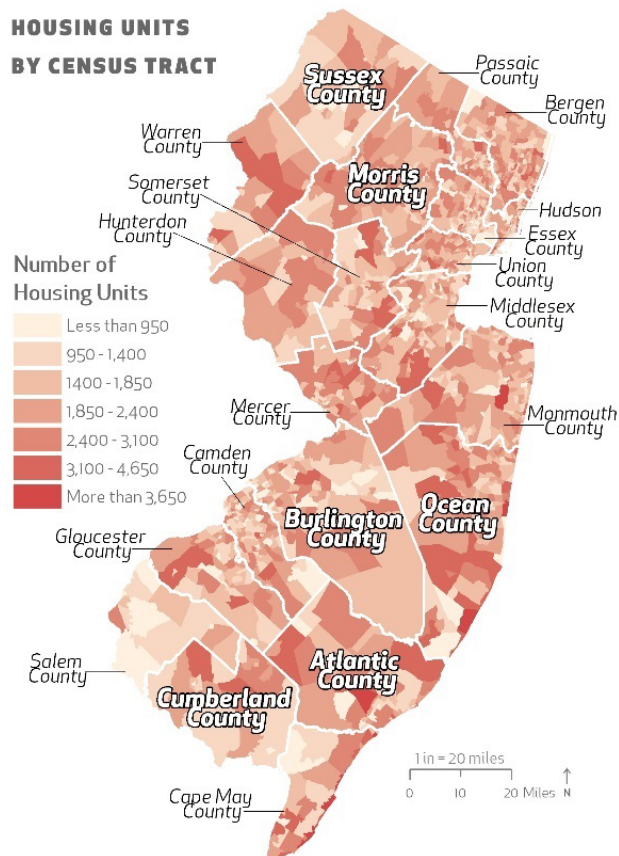
Animation Courtesy of Rutgers University



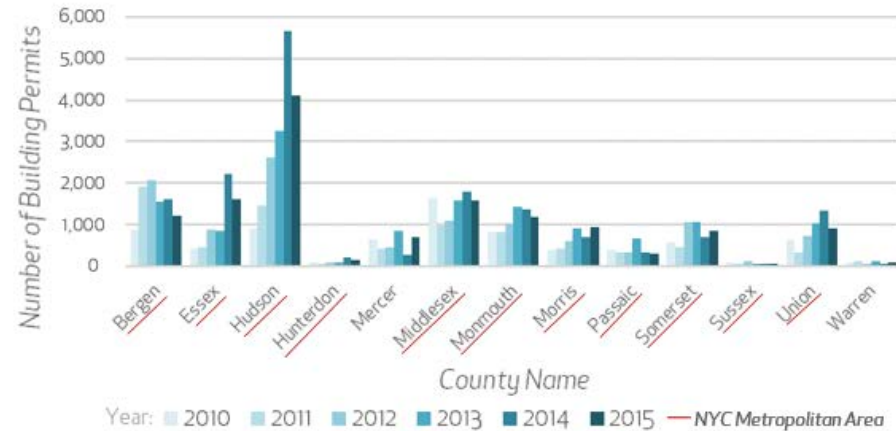
# State of New Jersey Profile

## Building Permit Trend & Housing Density (*units per square mile*) in New Jersey

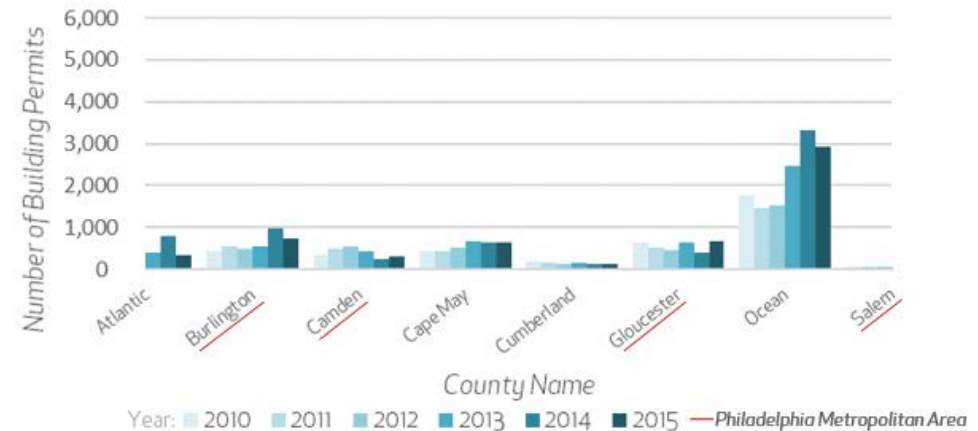
### HOUSING UNITS BY CENSUS TRACT



### Northern New Jersey



### Southern New Jersey

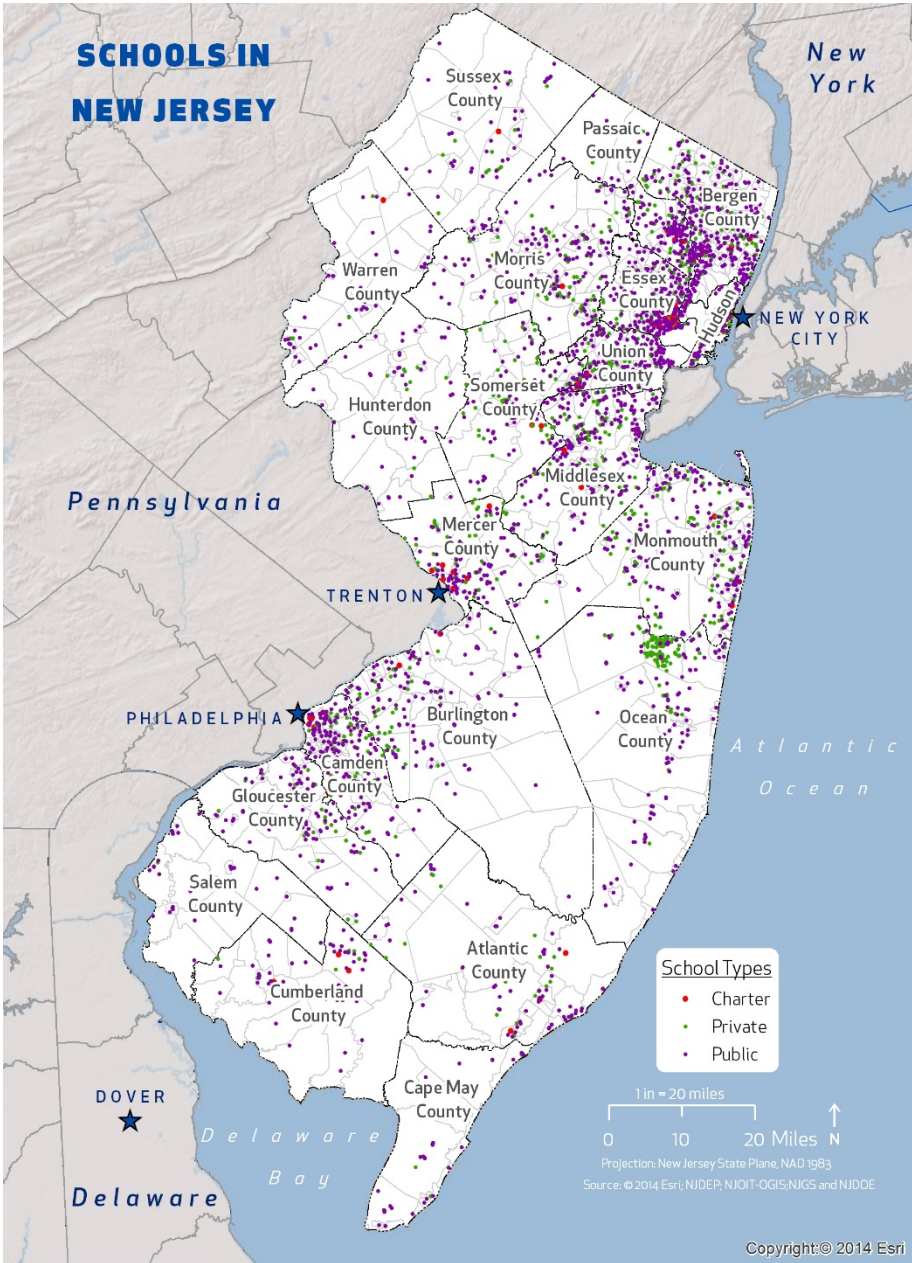


# State of New Jersey Profile

## Public, Private and Charter Schools/Institutions in New Jersey

Institution Name	Year Established	Number of Students
Rutgers University	1766	68,942
Montclair State University	1908	21,000
Thomas Edison State University	1972	17,500
Rowan University	1923	16,155
Kean University	1855	15,221
Farleigh Dickinson University	1942	12,000
New Jersey Institute of Technology	1881	11,400
William Paterson University	1855	11,000
Seton Hall University	1856	10,000
New Jersey City University	1927	9,150

Source: State of New Jersey Department of Education



# Hazard Identification

Profiles the following **Nature-based** Hazards:

- Coastal Erosion and Sea-level Rise
- Dam and Levee Failure
- Drought
- Earthquake
- Flood
- Geological Hazards
- Hurricane and Tropical Storm
- Nor'Easters
- Severe Weather
- Severe Winter Weather
- Wildfire
- Tsunami





# Hazard Identification

Profiles the following **Human-based** Hazards:

- Animal Disease
- Civil Unrest
- Crop Failure
- Cyber Attack
- Economic Collapse
- Fishing Failure
- Hazardous Substances
- Nuclear Hazards
- Pandemic
- Power Failure
- Terrorism







# State Risk Assessment



# Earthquakes

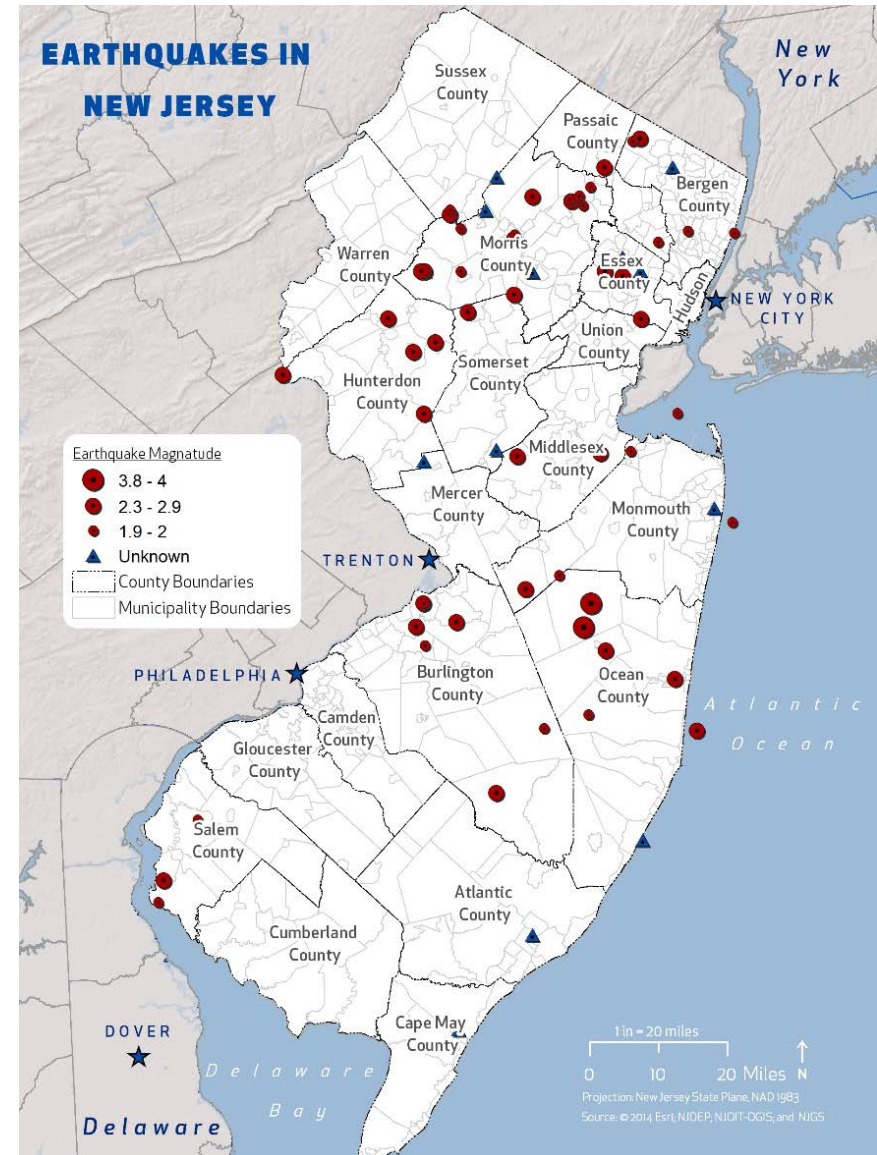


**The Weather Channel**   
@weatherchannel

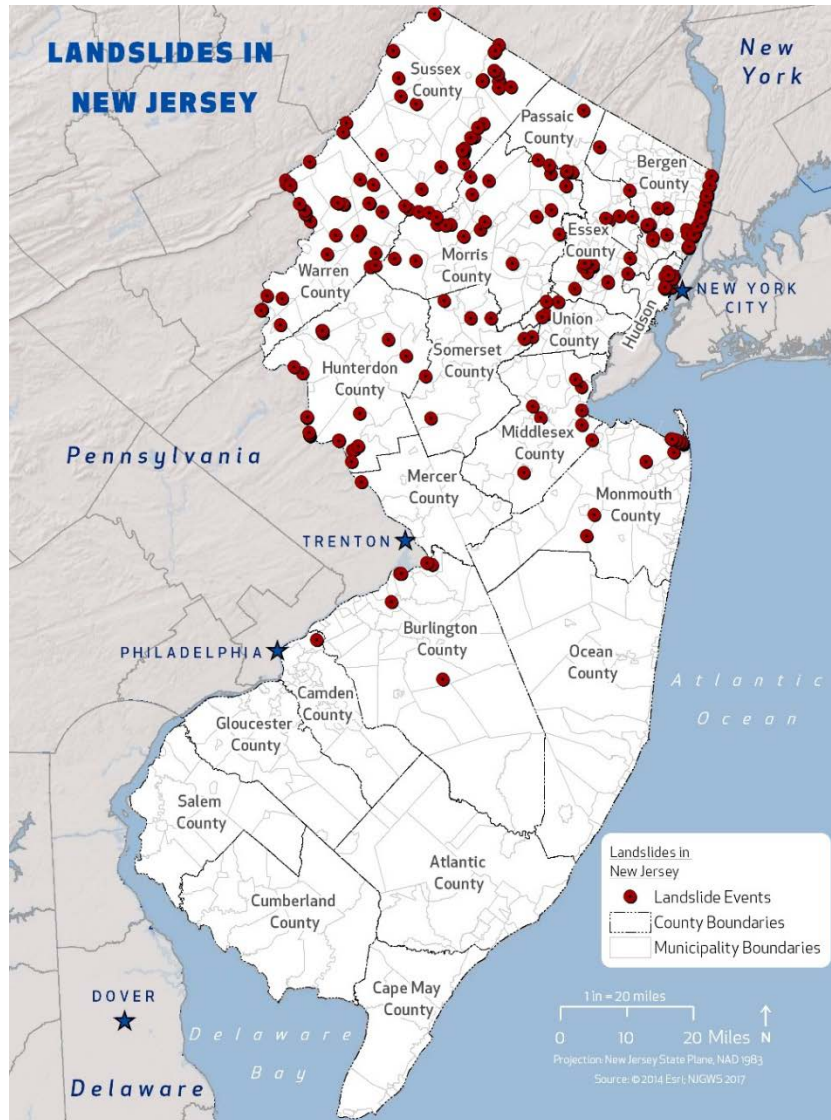
The areas shaded red reported shaking from the 4.1 magnitude [#earthquake](#) near Dover, Delaware, just before 5 p.m. EDT this evening: [wxch.nl/2At0RUc](https://www.wxch.nl/2At0RUc)

6:01 PM - Nov 30, 2017

40 391 412



# Geological Hazards



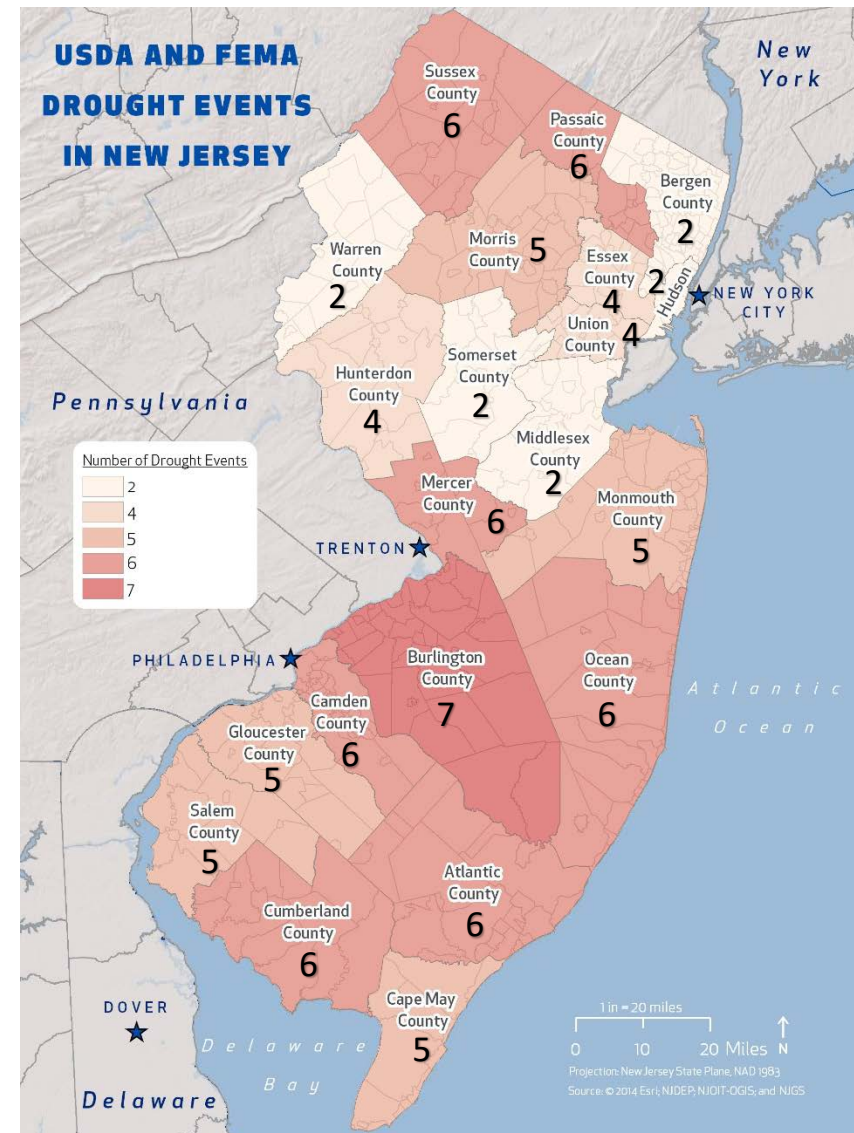


# Droughts

Incidence Period	Event Type	USDA Designation Number	Counties Included in Disaster
June 2012	Drought, Excessive Heat	S3427	Passaic, and Sussex
June 28, 2012 to November 9, 2012	Drought, High Winds, Hail, Excessive Heat, Excessive Rain, Flash Flood, Hurricane Sandy, Snowstorm, and Nor'Easter	S3487	Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Morris, Ocean, Passaic, Salem, Sussex, and Warren
August 15, 2014	Drought	S3759	Sussex and Passaic
April 1, 2015 to September 29, 2015	Drought, Heat, Excessive Heat, High Temperature	S3930	Atlantic, Burlington, Camden, Essex, Cumberland, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union and Warren
July 16, 2015 to September 29, 2015	Drought, Heat, Excessive Heat, High Temperature	S3932	Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Ocean, Salem
April 1, 2016 to September 19, 2016	Combined effects of freeze, excessive heat, and drought	S4071	Atlantic, Burlington, Camden, Cape May, Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Salem, Somerset, Union,
November 15, 2016	Drought	S4114	Sussex
May 1 2016 to December 10, 2016	Drought, Heat, Excessive Heat, High Temperature, Frost	S4165	Hunterdon, Mercer, Warren, Burlington

## FEMA Drought Events

- Water Shortage 8/18/1965: Impacted all Counties
- Water Shortage 10/19/1980: Impacted all Counties



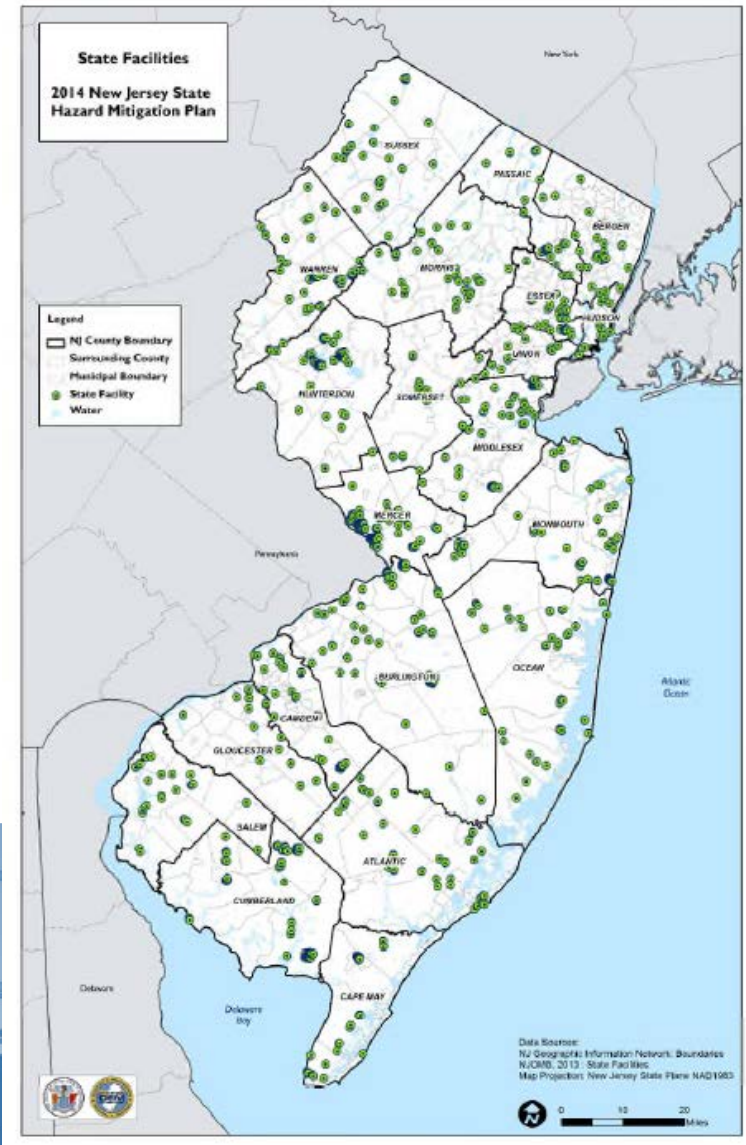


# Critical Facilities

A critical facility or infrastructure is a public asset that is

- essential in providing vital State services,
- protects life and property,
- maintains continuity of government and operations, or
- supports emergency response, government, sheltering functions, and recovery.

***Over 12,000 critical facilities and infrastructure were identified for the 2014 Plan update from the Land and Building Asset Management (LBAM) database developed by OMB within the Department of Treasury.***



# State Capability Assessments



The State capability assessment presents:

- The State's pre- and post-disaster management policies, programs, and capabilities,
- An analysis of State funding opportunities to directly support hazard mitigation, and
- A summary of new programs and changes in State capabilities.

# Highlights of Capability Assessments from Current Meetings



## New Jersey Department of Corrections:

- Special Operations Capabilities:
  - Special Operations Response Team (SORT)
  - Canine Unit
  - Correctional Emergency Response Team (CERT)
  - Enhance Security Transportation Unit
  - Critical Incident Negotiation Unit
  - Emergency Management
  - HazMat Team
  - Forward Area Strike Teams (F.A.S.T.)

# Highlights of Capability Assessments from Current Meetings

## TOTAL LOANS :

More than

**\$7,200,000,000**

since 1987

New Jersey Environmental Infrastructure Trust:

- Funds available to help rebuild and strengthen resiliency for critical public infrastructure.
- Includes projects for:
  - Transportation
  - Water
  - Energy

## TOTAL SAVINGS :

Ratepayers have saved

**\$2,372,000,000**

since 1987



# Highlights of Capability Assessments from Current Meetings

New Jersey Sports and Exposition Authority  
(Formerly Meadowlands Commission):



- Has participated in the National Flood Insurance Program's (NFIP) Community Rating System (CRS) program since 2005.
  - Only regional entity to join the CRS program in the U.S.
  - Property owners, businesses and tenants located in Special Flood Hazard Areas within the Meadowlands District have been eligible for a 15 percent discount on flood insurance policies issued by the NFIP.



# Mitigation Strategies



# Mitigation Strategies



The Mitigation Strategy uses risk-based information to identify and prioritize mitigation actions that will alleviate vulnerabilities and prevent losses.

## Four Kinds of Mitigation Actions:

- Plans and Regulations
- Structures and Infrastructure Projects
- Natural System Protection Projects
- Education and Awareness Programs

Implementation Details for each action are Identified:

- Funding Sources
- Lead and Support Agencies
- Timeline & Completion Date

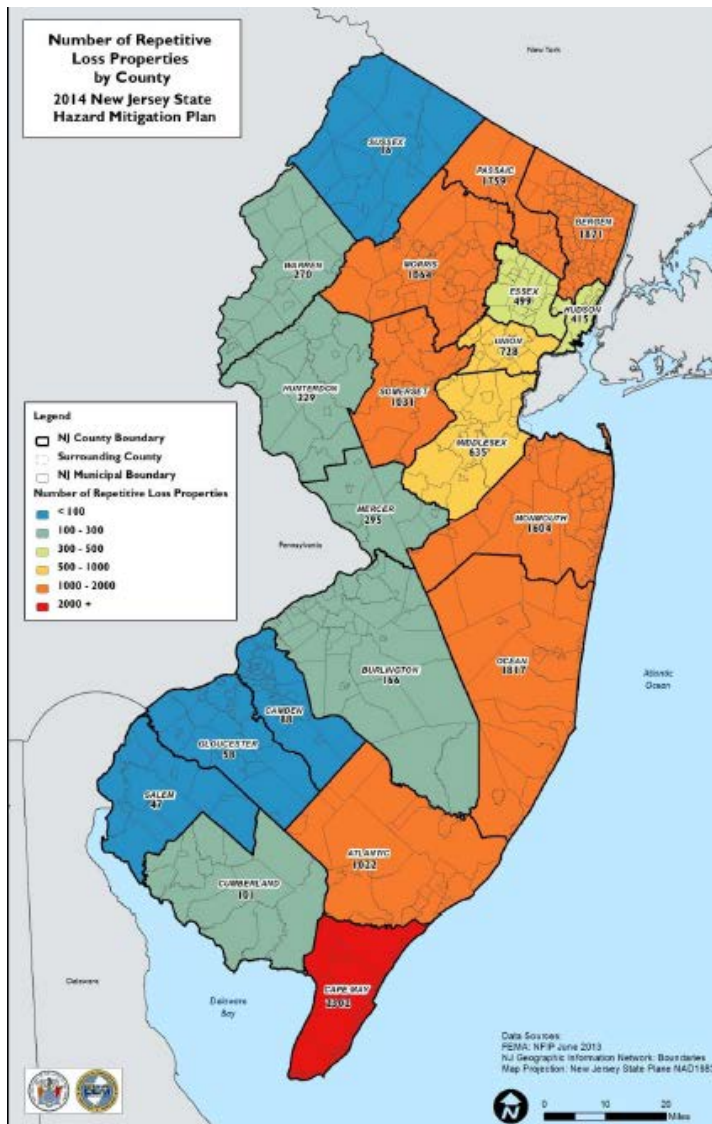


# Mitigation Strategies - Plan Goals

1. Protect life
2. Protect property
3. Increase public preparedness and awareness
4. Develop and Maintain an understanding of risks from hazards
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities
6. Support Continuity of operations pre-, during, and post- hazard events



# Repetitive Loss Strategy For New Jersey



States can qualify for an increased federal cost share in FEMA's Flood Mitigation Assistance Grant Program by including a Repetitive Loss Strategy.

The federal share can increase from a 75 percent federal share to as much as 90 percent.

## Addresses Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in

- Risk assessment,
- Mitigation actions, and,
- Identifies current and potential funding sources to mitigate RL & SRL properties

# Thank You.



*We Make a Difference*



## **DEPARTMENT OF EDUCATION (01/3/2018 & 8/5/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Department of Education

**Date: 01/3/2018 & 8/5/2018**

**Discussions in person at SHMT meetings and follow-up calls and emails**

## **Attendees:**

Name	Organization	Title	Email Address
Ben Castillo	Department of Education	Director of the New Jersey Department of Education's Office of School Preparedness and Emergency Planning	ben.castillo@doe.state.nj.us
Jeff Gale	Department of Education	School Security Specialist	Jeff.gale@doe.state.nj.us
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com

## **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

### Capability Assessment:

Michael Baker filled in the capability assessment as a first pass based on information found on the department's website. Attendees reviewed the material and provided minor revisions.

The DOE has no direct role in hazard mitigation at public schools. The DOE provides information to school districts about hazard mitigation planning being done at the state and county level. There are no DOE staff directly handling mitigation activities. The DOE has an Office of Facilities with the role of reviewing and approving individual school districts plans for new building construction and major maintenance work.

### Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Education	
<b>Description of Organization</b>	The NJ Department of Education (DOE) has oversight and review authority over all public schools in New Jersey. The DOE does not own any property or facilities. All public schools are owned by their respective school districts.
<b>Point of Contact</b>	Name/Title: Ben Castillo, Director, Email: ben.castillo@doe.nj.gov Phone: 609-584-4297 Address: P.O. Box 091 Trenton, NJ 08691 Website: <a href="http://education.state.nj.us">http://education.state.nj.us</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	The DOE has no direct role in hazard mitigation at public schools. The DOE provides information to school districts about hazard mitigation planning being done at the state and county level. There are no DOE staff directly handling mitigation activities. The DOE has an Office of Facilities with the role of reviewing and approving individual school districts plans for new building construction and major maintenance work.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	We share information with individual school districts about federal, state and county work tied to reducing losses.
<b>Does your organization provide technical assistance?</b>	The DOE shares staff with the OHSP whose role is to work with school districts for public safety training, fire safety, building security and other types of work.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	The DOE Facilities regulations typically do not cover this type of issue. These issues are usually required and enforced by the DEP, DCA or other appropriate state agency. This keeps the confusion and mixed signals between the State Agencies to a minimum.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	The NJDOE does not host any hazard mitigation training conferences, but attends trainings regularly.
<b>Is Funding available for Hazard Mitigation?</b>	The DOE offers no direct funding for mitigation projects. Periodically there are State funds, titled "Regular Operating District (ROD) Grants," made available to school districts for facilities upgrades which could include mitigation work. The NJ DOE does not apply directly for any FEMA
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	We are not aware of any existing hazard mitigation partnership with NJOEM but such a partnership could be beneficial.



## **DEPARTMENT OF AGRICULTURE (1/08/2018 & 8/5/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Agriculture

**Date:** 1/08/2018 & 8/5/2018

**Time:** Various Phone calls to confirm updates to previous capability assessment

### **Attendees:**

Name	Organization	Title	Email Address
Jeffery Beach	Department of Agriculture	Policy Advisor	jeffrey.beach@ag.state.nj.us
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Michael Baker revised the previous capability assessment as a first pass based on information found on the department's website. Attendees reviewed the material and provided minor revisions.

The New Jersey Department of Agriculture is the lead agency responsible for Emergency Support Function 11 (ESF11) in the State Emergency Operations Plan.

Advice of Department and Division of Animal Health personnel on issues surrounding approaching severe weather and/or animal disease. Advice to farmers regarding preventing crop loss to approaching severe weather or unexpected frosts (upon which waivers are sought from DEP to allow farmers to conduct open burns to maintain a higher temperatures near crops and thus counteract the effect of frosts.

#### Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Agriculture (NJDA)	
<b>Description of Organization</b>	Preparing the agricultural community and the food industries it supplies to endure natural and man-made hazards with the least loss possible.
<b>Point of Contact</b>	Name/Title: Jeff Beach, NJDA Policy Advisor/Emergency Management Coordinator Email: jeffrey.beach@ag.nj.gov Phone: 609-439-2038 Address: 369 S. Warren St., PO Box 330, Trenton, NJ 08625 Website: <a href="http://www.state.nj.us/agriculture/">http://www.state.nj.us/agriculture/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Drought, crop failure, animal disease, extreme weather, extreme winter weather
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Early warnings (and periodic reminders) to farmers about the need to harvest what is possible and protect livestock when severe weather is approaching, conducted through NJAES Extension Service and NJ Farm Bureau. Also, as severe weather approaches, activation of County Animal Response Teams (CARTs) to ensure potential evacuees are aware not to leave pets behind but instead to seek out animal-friendly shelters and/or other temporary housing. Also, reminders and seminars on animal health to keep farmers current on preventing loss of livestock through unvaccinated exposure to animal diseases.
<b>Does your organization provide technical assistance?</b>	Yes. Advice of Department and Division of Animal Health personnel on issues surrounding approaching severe weather and/or animal disease. Advice to farmers regarding preventing crop loss to approaching severe weather or unexpected frosts (upon which waivers are sought from DEP to allow farmers to conduct open burns to maintain a higher temperatures near crops and thus counteract the effect of frosts.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, The New Jersey Department of Agriculture is the lead agency responsible for Emergency Support Function 11 (ESF11) in the State Emergency Operations Plan
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes, Periodic training of CART and Animal Emergency Working Group (AEWG) volunteers. Materials and trainings on preventing crop loss as part of annual State Agricultural Convention each February, held in conjunction with Vegetable Growers Association and other agricultural trade groups.
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	The New Jersey Department of Agriculture is the lead agency responsible for Emergency Support Function 11 (ESF11) in the State Emergency Operations Plan.





**DEPARTMENT OF LAW PUBLIC SAFETY / OFFICE OF  
THE ATTORNEY GENERAL (1/11/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Department of Law and Public Safety, Office of the Attorney General

**Date:** January 11, 2018

**Time:** 9 am

Email follow-up on the Department Of Law Public Safety/ Office Of The Attorney General/ Office Of Homeland Security And Preparedness

**Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Gregory Spellmeyer	NJOAG	Deputy AG	gregory.spellmeyer@lps.state.nj.us
Bruce Solomon	NJOAG	Planner	bruce.solomon@lps.state.nj.us

**Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

Capability Assessment:

Michael Baker revised the previous capability assessment as a first pass based on information found on the department's website. Attendees reviewed the material and provided minor revisions.

The Office of the Attorney General contributes to loss reduction by participating on the State Hazard Mitigation Team and providing counsel to the Office of Emergency Management.

Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>Department of Law and Public Safety.</b>
<b>Description of Organization</b>	New Jersey Department of Law and Public Safety. This Department includes the Office of the Attorney General and the Division of State Police among others. The New Jersey Office of Emergency Management is placed within the Division of State Police.	
<b>Point of Contact</b>	Name/Title: Deputy Attorney General Gregory Spellmeyer; Deputy Attorney General Bruce Solomon Email: gregory.spellmeyer@lps.state.nj.us; bruce.solomon@lps.state.nj.us Phone: 609-292-4478 Address: DEP, R.J. Hughes Justice Complex 25 Market Street, Trenton, NJ 08625 Website: <a href="http://www.nj.gov/oag/">http://www.nj.gov/oag/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	See the Capabilities Assessment of the Office of Emergency Management.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The Office of the Attorney General contributes to loss reduction by participating on the State Hazard Mitigation Team and providing counsel to the Office of Emergency Management. See also the Capabilities Assessment of the Office of Emergency Management.	
<b>Does your organization provide technical assistance?</b>	See the Capabilities Assessment of the Office of Emergency Management.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	See the Capabilities Assessment of the Office of Emergency Management.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	See the Capabilities Assessment of the Office of Emergency Management.	
<b>Is Funding available for Hazard Mitigation?</b>	See the Capabilities Assessment of the Office of Emergency Management.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	The NJOEM is placed within the New Jersey Division of State Police within the Department of Law and Public Safety. See the Capabilities Assessment of the Office of Emergency Management.	



**OFFICE OF HOMELAND SECURITY AND  
PREPAREDNESS 1/11/2018**





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	
<b>Department of Law and Public Safety - Office of Homeland Security and Preparedness - Emergency Operations Plan</b>	
<b>Description of Organization</b>	NJ Office of Homeland Security and Preparedness: Assists NJOEM with the coordination of emergency response efforts across all levels of government, law enforcement, the emergency management and response community, nonprofit organizations, the private sector and other jurisdictions as necessary, to protect the people of New Jersey. Provides support to NJOEM for the State's Basic EOP Plan and associated Annexes including 15 Emergency Support Functions. Both the Basic Plan and the ESF plan for all phases of emergency management and one of those phases is mitigation. U.12
<b>Point of Contact</b>	Update Coordinated through the Department of Law and Public Safety (see Department of Law and Public Safety Capability Sheet)
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The Office of the Attorney General contributes to loss reduction by participating on the State Hazard Mitigation Team and providing counsel to the Office of Emergency Management. See also the Capabilities Assessment of the Office of Emergency Management.
<b>Does your organization provide technical assistance?</b>	Yes – guidance and support related to the National Disaster Recovery Framework (NDRF) and ongoing resiliency projects affecting the state's critical infrastructure.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	National Disaster Recovery Framework (NDRF) and numerous response coordination and communication plans
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	The NJOEM is placed within the New Jersey Division of State Police within the Department of Law and Public Safety.



## **NJ DEPARTMENT OF BANKING AND INSURANCE MEETING (1/16/2018)**



# State of New Jersey All-Hazard Mitigation Plan Update

Michael Baker

## Capability Assessment Meeting

INTERNATIONAL

Organization: NS Department of Banking Insurance Date: 1/16/2018 10am

Name	Organization	Email Address	Phone Number
Gabrielle Gallagher	Dept. Banking Ins	<del>gabriel.gallagher@nj.gov</del> <sup>dobins.gov</sup>	609-292-7872 x50643
Aileen Egan	DOB	<del>aileen.egan@nj.gov</del> <sup>dobins.gov</sup>	x50613
GREG PULITI	DOB	GREGORY.PULITI@DOB.NJ.GOV	609-341-2512 x50422
Devon DelVecchio	MS	devon.delvecchio@mbaconsulting.com	
Michael Yaffe	MS	Michael.Yaffe@mbaconsulting.com	

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Banking and Insurance

**Date:** January 16, 2018

**Time:** 10am

### **Attendees:**

Name	Organization	Title	Email Address
Aileen Egan	DOBI	Chief of Staff	Aileen.egan@dobi.nj.gov
Gabrielle Gallagher	DOBI	Deputy Executive Director	Gabrielle.gallagher@dobi.nj.gov
Greg Politi	DOBI		Gregory.puliti@dobi.nj.gov
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Devon Delvecchio	Michael Baker Intl.	Planner	Devon.Delvecchio@mbakerintl.com

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Michael Baker revised the previous capability assessment as a first pass based on information found on the department's website. Attendees reviewed the material and provided minor revisions.

The Department provides assistance and issued Order (A07-126) mandating companies authorized to sell insurance to have a prepared Business Continuation Plan.

Bulletin 17-04 subsequently reminded them of this obligation along with the obligation to provide the Department with emergency contact information. Similar Bulletins were issued for Banking at A16-08 and 17-03.

The Department is engaged with industry on multiple hazards that impact the State. We require both N.J. Insurers and NJ banks to have Continuity Plans and to provide the Department with emergency contact information.

We also have in place Bulletin A17-03 & 17-07 which pertains to emergency measures that NJ Banks need to be prepared to implement and Bulletin 17-04 and 17-07 reminding NJ insurers of the same.

#### Mitigations Actions:



In coordination with NJOHSP, OEM and State Police, develop and maintain a system of credentialing insurance adjusters to manage access to disaster areas possible through the existing RDDB system.

Participate in tabletop exercises with State and Industry partners through the current Infrastructure Advisory Committee meetings.

# State of New Jersey All-Hazard Mitigation Plan Update

## NJ Department of Banking and Insurance Mitigation Actions



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
NJ Department of Banking and Insurance, NJOHSP, State Police	In coordination with NJOHSP, OEM and State Police, develop and maintain a system of credentialing insurance adjusters to manage access to disaster areas possible through the existing RDDB system.	6	High	1 year	Existing State resources	All Hazards	This database will help first responders have priority in accessing disaster areas, while allowing adjusters to have secondary access once first responders have executed their duties.	This action will increase resiliency by facilitating rapid disaster recovery	New to Plan Update
NJ Department of Banking and Insurance	Participate in tabletop exercises with State and Industry partners through the current Infrastructure Advisory Committee meetings.	6	Medium	6 months	Existing State resources	All Hazards	This system will help first responders and adjusters access damage and aid in rapid disaster recovery .	This action will increase resiliency by facilitating rapid disaster recovery	New to Plan Update



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Banking &amp; Insurance</b>
<b>Description of Organization</b>	The mission of the Department of Banking and Insurance is to regulate the banking, insurance and real estate industries in a professional and timely manner that protects and educates consumers and promotes the growth, financial stability and efficiency of those industries.	
<b>Point of Contact</b>	Name/Title: Gabrielle N. Gallagher Email: gabrielle.gallagher@dobi.nj.gov Phone: 609-633-7667 PO Box PO Box 325, Trenton, NJ 08625 <a href="http://www.state.nj.us/dobi/index.html">http://www.state.nj.us/dobi/index.html</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	The Department is engaged with industry on multiple hazards that impact the State. We require both N.J. Insurers and NJ banks to have Continuity Plans and to provide the Department with emergency contact information. We also have in place Bulletin A17-03 & 17-07 which pertains to emergency measures that NJ Banks need to be prepared to implement and Bulletin 17-04 and	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The Department provides assistance and issued Order (A07-126) mandating companies authorized to sell insurance to have a prepared Business Continuation Plan. Bulletin 17-04 subsequently reminded them of this obligation along with the obligation to provide the Department with emergency contact information. Similar Bulletins were issued for Banking at A16-08 and 17-03.	
<b>Does your organization provide technical assistance?</b>	Yes. The Department can provide assistance with the understanding of insurance contracts, insurance market conditions and with data collection regarding claims activity.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes. The Department has begun working with NJOHSP and State police to provide insurance adjusters with emergency i.d. cards which would enable them to be second in line into a disaster area after First Responders. This will enable faster mitigation of disasters for homeowners and businesses.  The Department partners with industry to promote awareness, to encourage property owners to have a plan in place and to make sure industry leaders have and test their plans. In addition to Bulletins 17-03 and 17-04, the Department has issued releases reminding homeowners to check their policies and have a plan in place.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes.	
<b>Is Funding available for Hazard Mitigation?</b>	No	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes.	



## **BOARD OF PUBLIC UTILITIES (1/24/2018)**



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Board of Public Utilities

**Date:** January 24, 2018

**Time:** 10 am

### **Attendees:**

Name	Organization	Title	Email Address
Dean Taklif	Board of Public Utilities	Senior Engineer	Dean.Taklif@bpu.state.nj.us
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Michael Baker revised the previous capability assessment as a first pass based on information found on the Boards' website. Attendees reviewed the material and provided minor revisions.

While the NJBPU is an independent agency, it coordinates closely with Treasury. NJBPU works with private utility companies to provide analysis of natural hazard information affecting the provision of electric power, telecommunications, public water, sewage collection and treatment, and other regulated public utilities. The data is used during response and recovery efforts in the event of emergency or disaster and is also used to analyze impact of mitigation plans and projects.

In 2016, GORR (Governor's Office of Recovery and Rebuilding) approved the reallocation of approximately \$2 million in FEMA funds to enhance the State's vehicle fueling facilities providing flexibility and resiliency to the State's fueling capabilities during an emergency event.

The emergency fueling plan and related initiatives with public and private sector partners is based on lessons learned from Superstorm Sandy and is an action plan for the emergency distribution of fuel during disasters.

#### Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.



# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

Organization Name: Board of Public Utilities	
<b>Description of Organization</b>	While the NJBPU is an independent agency, it coordinates closely with Treasury. NJBPU works with private utility companies to provide analysis of natural hazard information affecting the provision of electric power, telecommunications, public water, sewage collection and treatment, and other regulated public utilities. The data is used during response and recovery efforts in the event of emergency or disaster and is also used to analyze impact of mitigation plans and projects.
<b>Point of Contact</b>	Name/Title: Dean Taklif, Principal Planner, Division of Reliability & Security Email: james.giuliano@bpu.state.nj.us Phone: 609-292-4318 Address: 44 S. Clinton Avenue, Trenton, NJ 08625 Website: <a href="http://www.bpu.state.nj.us/">http://www.bpu.state.nj.us/</a>
Hazard Mitigation Effectiveness - Current Capabilities	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Facilitation/ Supports pre and post hazard mitigation.
<b>Does your organization provide technical assistance?</b>	Yes, technical assistance for the facilitation and support for pre- and post-hazard mitigation.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, Staff continues to partner with NJEOM, DOT and Treasury to finalize key provisions of the Emergency Fuel Plan. In 2016, GORR (Governor's Office of Recovery and Rebuilding) approved the reallocation of approximately \$2 million in FEMA funds to enhance the State's vehicle fueling facilities providing flexibility and resiliency to the State's fueling capabilities during an emergency event.  The emergency fueling plan and related initiatives with public and private sector partners is based on lessons learned from Superstorm Sandy and is an action plan for the emergency distribution of fuel during disasters.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	It participates in tabletop exercises, preparedness workgroups, security initiatives, and overall disaster preparedness activities. A major obligation of staff is to maintain preparedness for any utility event or situation and respond to activations of the state Emergency Operations Center at any time. Staff also plans for intentional acts and accidents.
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, reliability and security of all lifeline utility services and critical infrastructure for the State of New Jersey: electric, natural gas, water and telecommunications. This includes responsibility for consequence management of any petroleum shortages as well as cyber security.



## **NEW JERSEY TURNPIKE AUTHORITY (2/2/2018)**

# State of New Jersey All-Hazard Mitigation Plan Update

## Mitigation Actions



Michael Baker  
INTERNATIONAL

As of 02/01/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Turnpike Authority	Develop a <b>Resiliency Action Plan</b> for the New Jersey Turnpike (NJTP) and the Garden State Parkway (GSP).	4	High	Within 2 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Critical first step in identifying appropriate sites and operations for mitigation priorities for the New Jersey Turnpike Authority (Authority).	The Resiliency Action Plan develops and maintains an understanding of risks from hazards. It also establishes an action plan to increase capabilities to mitigate against future losses and vulnerability.	New for this Plan
New Jersey Turnpike Authority	<b>Roadway and Bridge Elevations:</b> Elevation of portions of existing roadway and bridges along the NJTP and/or GSP to reduce risk of storm surge and flood risk. The following locations along the Authority's Right of Way have the greatest risk for potential flooding during a high-water event. <ul style="list-style-type: none"><li>• Portions of the NJTP roadway segments located from Woodbridge Township north to the Town of Secaucus, including the Eastern and Western Spurs.</li><li>• Southernmost section of NJTP at the Delaware River.</li><li>• GSP roadway in Cape May County and southern portion of Atlantic County.</li><li>• Portions of the GSP roadway and bridge segments that cross over and near the Mullica River in Bass River Township and the City of Port Republic.</li><li>• Portions of the GSP roadway and bridge segments that cross over and near the Raritan River in the Borough of Sayreville, Township of Woodbridge, and Township of Old Bridge.</li></ul>	1,2,6	High	To be determined	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather, Severe Winter Weather and Economic Collapse.	The Authority recently completed a Detailed Inundation Mapping Study that modeled coastal surge inundation areas along the Authority's Right of Way. At each inundation level, the study identified roadway segments, ramps, and bridges that have the greatest risk for potential inundation during a high-water event.	The elevation and/or floodproofing of roadways and bridges from potential inundation during a high-water event advances the Authority's mission of providing safe roadways by protecting life, property and ensuring the continuity of operations of government, non-government, commerce, private sector, and infrastructure. The continuity of operations pre-, during, and post-hazard events is particularly important for the Authority's roadway and bridges, as they serve as coastal evacuation routes. Lastly, providing a safe toll road system that is in a state of good repair helps ensure the success of the New Jersey economy	New for this Plan



# State of New Jersey All-Hazard Mitigation Plan Update

## Mitigation Actions



Michael Baker  
INTERNATIONAL

As of 02/01/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Turnpike Authority	<p><b>Toll Plaza Elevations:</b> Elevation and/or floodproofing of portions of existing toll plazas along the NJTP and/or GSP to reduce risk of storm surge and flood risk. The following locations along the New Jersey Turnpike Authority's Right of Way have the greatest risk for potential flooding during a high-water event.</p> <p><u>NJTP Toll Plaza Locations:</u></p> <ul style="list-style-type: none"><li>• NJTP Interchange 13A Toll Plaza</li><li>• NJTP Interchange 14 Toll Plaza</li><li>• NJTP Interchange 15E Toll Plaza</li><li>• NJTP Interchange 15W Toll Plaza</li><li>• NJTP Interchange 16/18E Toll Plaza</li><li>• NJTP Interchange 16W Toll Plaza</li><li>• NJTP Interchange 18W Toll Plaza</li></ul> <p><u>GSP Toll Plaza Locations:</u></p> <ul style="list-style-type: none"><li>• GSP Somers Point Toll Plaza</li><li>• GSP Great Egg Toll Plaza</li><li>• GSP Wildwood Toll Plaza</li></ul>	1,2,6	High	To be determined	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The Authority recently completed a Detailed Inundation Mapping Study that modeled coastal surge inundation areas along the Authority's Right of Way. The study identified Areas of Strategic Concern, including toll plazas that have the greatest risk for potential inundation during a high-water event.	The elevation and/or floodproofing of toll plazas from potential inundation during a high-water event advances the Authority's mission of providing safe roadways by protecting life, property and ensuring the continuity of operations of government, non-government, commerce, private sector, and infrastructure. The continuity of operations pre-, during, and post-hazard events is particularly important for the Authority's roadway and bridges, as they serve as coastal evacuation routes.	New for this Plan

# State of New Jersey All-Hazard Mitigation Plan Update

## Mitigation Actions



**Michael Baker**  
INTERNATIONAL

As of 02/01/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Turnpike Authority	<b>New Jersey Turnpike Maintenance Yard Elevations:</b> Elevation and/or floodproofing of portions of existing maintenance yards along the NJTP and/or GSP to reduce risk of storm surge and flood risk. The following locations along the New Jersey Turnpike Authority's Right of Way have the greatest risk for potential flooding during a high-water event.  <u>NJTP Maintenance Yards:</u> <ul style="list-style-type: none"> <li>NJTP Maintenance Yard District PD1-Swainton</li> <li>NJTP Maintenance Yard District TD6 - Elizabeth</li> <li>NJTP Maintenance Yard District TD8 - Secaucus</li> <li>NJTP Maintenance Yard District TD9 - Jersey City</li> <li>NJTP Maintenance Yard District TD10 - East Rutherford</li> </ul>	1,2,6	High	To be determined	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The Authority recently completed a Detailed Inundation Mapping Study that modeled coastal surge inundation areas along the Authority's Right of Way. The study identified Areas of Strategic Concern, including maintenance yards that have the greatest risk for potential inundation during a high-water event.	The elevation and/or floodproofing of maintenance yards above high-water events enables continuous maintenance operations and increases the Authority's capability to respond pre-, during, and post-disaster to weather-related hazards.	New for this Plan
New Jersey Turnpike Authority	<b>Elevation of Service Areas:</b> Elevation and/or floodproofing of portions of Service Areas along the NJTP and/or GSP to reduce risk of storm surge and flood risk. The following locations along the New Jersey Turnpike Authority's Right of Way have the greatest risk for potential flooding during a high-water event.  <u>Service Areas:</u> <ul style="list-style-type: none"> <li>NJTP Vince Lombardi Service Area 13</li> <li>NJTP Alexander Hamilton Service Area 12S</li> <li>NJTP Thomas Edison Service Area 10S</li> <li>NJTP Grover Cleveland Service Area 10N (Recently Reconstructed)</li> <li>GSP Oceanview Service Area</li> </ul>	1,2,6	High	To be determined	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The Authority recently completed a Detailed Inundation Mapping Study that modeled coastal surge inundation areas along the Authority's Right of Way. The study identified Areas of Strategic Concern, including Service Areas that have the greatest risk for potential inundation during a high-water event.	The elevation and/or floodproofing of Service Areas from potential inundation during a high-water event advances the Authority's mission of providing safe roadways and protects life, property and ensures the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	New for this Plan
New Jersey Turnpike Authority, New Jersey State Police	<b>State Police Station Improvements:</b> In coordination with the New Jersey State Police, elevate and/or floodproof portions of the New Jersey State Police facilities at risk for potential flooding during a high-water event.  <u>New Jersey State Police Stations</u> <ul style="list-style-type: none"> <li>New Jersey State Police Newark Station (under construction)</li> <li>New Jersey State Police Bass River Station</li> </ul>	1,2,6	High	To be determined	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The Authority recently completed a Detailed Inundation Mapping Study that modeled coastal surge inundation areas along the Authority's Right of Way. The study identified Areas of Strategic Concern, including New Jersey State Police Stations that have the greatest risk for potential inundation during a high-water event.	The elevation and/or floodproofing of State Police Stations from potential inundation during a high-water event advances ensures the continuity of operations of State Police facilities and assists State Police to respond pre-, during, and post-hazard events.	New for this Plan

# State of New Jersey All-Hazard Mitigation Plan Update

## Mitigation Actions



Michael Baker  
INTERNATIONAL

As of 02/01/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
New Jersey Turnpike Authority	<b>Target Hardening of infrastructure</b> within the Authority's Right of Way against potential terrorist attacks.	1,2,6	High	To be determined	None Currently Available	Terrorism	The Authority recently completed an Authority-wide security vulnerability assessment and improvement program that includes targeted hardening of critical facilities, installation of cameras, and installation/upgrade of fencing.	Target hardening of the Authority's infrastructure against Terrorist attack, protects life, property, and ensures the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	New for this Plan



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Turnpike Authority	
<b>Description of Organization</b>	<p>The New Jersey Turnpike Authority (Authority) is dedicated to the safe and efficient movement of people and goods over two of the busiest toll roads in the United States – the New Jersey Turnpike (NJTP) and the Garden State Parkway (GSP). The Authority's highways are a critical link in the transportation network of the Northeast Corridor. Every day, the Turnpike and the Parkway provide the safest, quickest, and most convenient routes for hundreds of thousands of commuters, truckers, and recreational travelers.</p> <p>The mission of the Authority is to prudently manage the finances and operations of the New Jersey Turnpike Authority to provide our customers with a safe, efficient, innovative, and resilient toll road system, which facilitates mobility in New Jersey and the Northeast United States.</p>
<b>Point of Contact</b>	<p>Name/Title: John Keller/Deputy Chief Engineer Email: <a href="mailto:keller@turnpike.state.nj.us">keller@turnpike.state.nj.us</a> Phone: (732) 750-5300 ext. 8263 Address: PO Box 4052, Woodbridge Township, NJ 07095-4052 Website: <a href="http://www.njta.com/">http://www.njta.com/</a></p>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Flooding, Geological Hazards, Hurricane and Tropical Storm, Severe Weather, Severe Winter Weather, Nor'easters, Hazardous Substance Accidents, and Terrorism.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Under the current 10-year, \$7 billion capital program adopted in 2008, the Authority has expanded capacity, repaired deteriorating bridges, reconfigured entrance and exit ramps, improved maintenance yards and toll plazas, and expanded the use of technology for collecting and communicating information about roadway conditions. Under this capital program, the following projects have been advanced addressing hazard mitigation:



Capability Assessment Form  
State of New Jersey All-Hazard Mitigation Plan Update

Michael Baker  
INTERNATIONAL

Organization Name: New Jersey Turnpike Authority	
Describe your organization's contribution to loss reduction from hazards (continued).	<p><b>A. Facilities Improvement Program</b> – This \$500M program will replace or rehabilitate maintenance multi-use buildings, storage facilities, increased capacity salt storage buildings, and other structures in the yards of 19 maintenance districts along the corridor of both roadways. The maintenance districts are responsible for storm response for the NJTP and GSP. As part of this program multiple State Police facilities are being replaced, toll utility buildings and plaza facilities are being upgraded, and a back-up traffic management center is being constructed. All facilities are to be equipped with back-up generators. In addition, upgrades to storm response components of each yard include, but are not limited to, enhanced brine and MgCl facilities.</p> <p><b>B. Bridge Security Program</b> – Authority-wide security vulnerability assessment and improvement program that includes targeted hardening of critical facilities, installation of cameras, and installation/upgrade of fencing. This additionally includes a \$10M security upgrade at the GSP Driscoll Bridge.</p> <p><b>C. Variable Message Sign (VMS) Project(s)</b> – Installation of variable message signs to create a messaging platform for incident management, public safety, emergency information sharing, congestion management, motorist guidance, maintenance activity, and special events. VMS installations have been erected at approximately 2-4 mile intervals Authority-wide.</p> <p><b>D. Forest Fire Prevention</b>– Select vegetation clearing and to provide for firebreaks.</p> <p><b>E. Maintenance Prevention</b> – The Authority maintains an extensive in-house maintenance staff keep the roadways operational 24/7. Many of the maintenance activities address hazard mitigation. This includes continuous inventory,</p>





Capability Assessment Form  
State of New Jersey All-Hazard Mitigation Plan Update

Michael Baker  
INTERNATIONAL

Organization Name: New Jersey Turnpike Authority	
Describe your organization's contribution to loss reduction from hazards (continued).	<p>assessment and cleaning of storm sewer systems and culverts to prevent flood events, HVAC and emergency generator upgrades at maintenance facilities, and roadway and navigational lighting repair to maintain nighttime visibility.</p> <p><b>F. Manasquan Bridge Replacement</b> – Replacement of the GSP bridges (NB and SB) over the Manasquan River in Brick Township, Ocean County. These bridges are subject to routine flooding and were replaced providing a finished deck elevation above the XXX-year storm.</p> <p><b>G. Post-Sandy Relief and Recovery</b> – The Authority provided staff, resources, and equipment to neighboring municipalities to assist with relief efforts in the aftermath of the storm. In addition, impacted facilities were also improved to reduce future storm impacts. This includes the reconstruction of the Grover Cleveland Service Plaza and the installation/upgrade of various numn stations.</p> <p><b>H. Roadside Weather Information System (RWIS)</b> – RWIS Stations are being installed Authority-wide to track roadway and climatological conditions to aid in storm response and recovery. Strategically located RWIS stations work in tandem with thermal mapping of the roadways to provide data used for predictive forecasting on roadway conditions. These forecasts assist the Authority with storm readiness, resource allocation, and response.</p> <p><b>I. Coastal Evacuation</b> – Several GSP bridges over major waterways have been recently replaced providing increased capacity and redundancy in the event of coastal evacuation. Bridges including the GSP Great Egg Harbor Bay Bridge, Mullica River Bridge, and Bass River Bridge have all been replaced.</p> <p><b>J. &lt;&lt;&lt;NJTA TO ADD&gt;&gt;&gt;</b></p>
Does your organization provide technical assistance?	Not applicable.



Capability Assessment Form  
State of New Jersey All-Hazard Mitigation Plan Update

Michael Baker  
INTERNATIONAL

Organization Name: New Jersey Turnpike Authority	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	<p>The Authority contributes to loss reduction by promoting the construction and maintenance of safer roadways to reduce impacts of hazard events. The Authority participates in or has implemented the following programs and improvements as capabilities to promote loss reduction against hazards:</p> <p><b>1. <u>Detailed Inundation Mapping Study</u></b> – Inundation study modeled high-water events, such as hurricanes, by researching available predictive hydraulic computer models and then defining the elevation of selected portions of the NJTP and GSP including interchanges, ramps, police and maintenance facilities within the Right of Way (ROW). The study area included milepost 0 – 5 and 83 – 122 on the NJTP and milepost 0 – 137 on the GSP. By modeling coastal surge inundation areas along the Authority’s Right of Way, the following areas have the greatest risk for potential inundation during a high-water event:</p> <ul style="list-style-type: none"><li>• Portions of the NJTP roadway segments located from Woodbridge Township north to the Town of Secaucus, including the Eastern and Western Spurs.</li><li>• Southernmost section of NJTP at the Delaware River.</li><li>• GSP roadway in Cape May County and southern portion of Atlantic County.</li><li>• Portions of the GSP roadway and bridge segments that cross over and near the Mullica River in Bass River Township and the City of Port Republic.</li><li>• Portions of the GSP roadway and bridge segments that cross over and near the Raritan River in the Borough of Sayreville, Township of Woodbridge, and Township of Old Bridge.</li></ul> <p>Within the areas noted above, Authority facilities are also vulnerable at the same coastal surge level including toll plazas, maintenance districts, State Police facilities, and service areas. Refer to the Mitigation Actions summary table for a detailed listing of these vulnerable facilities.</p>



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
 INTERNATIONAL

Organization Name:	New Jersey Turnpike Authority
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents (continued).</b>	<p><b>2. Maintenance and Jurisdictional Limit Map</b> - Formal agreement and maps to define highway maintenance and jurisdiction where Authority ROW meets State/County/local ROW. Maintenance is defined as the upkeep of the highway area and includes, but is not limited to; the upkeep of pavement, curb, drainage, berms, slopes, guide rail, signs, sign structures, delineators, pavement markings, mowing, landscaping, fencing, snow removal and ice control.</p> <p><b>3. Winter Operations</b> – Snow and Ice Control Manual – the purpose of this Manual is to disseminate policies, instructions, techniques and information pertaining to snow and ice control</p> <p>operations of the New Jersey Turnpike Authority. The Manual is intended to serve as a general guide and reference to promote uniformity of practice for snow removal and ice control. It is the basic policy to maintain a “BARE PAVEMENT” at all times consistent with storm conditions.</p>
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	<p>The Authority conducts trainings and exercises for hurricane evacuations. The main element of the evacuation exercise is preparation to set up a contra flow on the Garden State Parkway. Contra flow is reversing the direction that traffic normally flows on a section of roadway to maximize the capacity of the road.</p> <p>&lt;&lt;&lt;NJTA to add&gt;&gt;&gt;</p>
<b>Is Funding available for Hazard Mitigation?</b>	<p>No, there is no direct hazard mitigation funding available. The mission of the Authority is to provide customers with a safe toll road system that is in a state of good repair with adequate capacity to help ensure the success of the New Jersey economy. While this is not mutually exclusive to hazard mitigation planning, previous and current capital plans have not been funded to a level adequate to address many vulnerable areas of the roadways.</p>
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	<p>The Authority conducts limited trainings and exercises in close coordination with the State Police and Department of Corrections for hurricane evacuations and response. It has not been involved with NJOEM directly, but would like to strengthen that partnership.</p>



**DEPARTMENT OF HEALTH (3/12/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Health

**Date:** 3/12/18

**Time:** 10 Am

Various Follow-up phone calls from initial call.

### **Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Audrey Miller	Department of Health	Health and Senior Services - Health Infrastructure Preparedness & Emergency Response	Audrey.Miller@doh.nj.gov
Kevin Hayden	Department of Health	Director	Kevin.Hayden@doh.state.nj.us

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Michael Baker filled in the capability assessment as a first pass based on information found on the department's website. Attendees reviewed the material and provided minor revisions.

The Department's priority is improving population health by strengthening New Jersey's health system. The Department's five branches,

- Public Health Services,
- Health Systems,
- Integrated Health,
- Office of Population Health and the
- Office of Policy and Strategic Planning

work collaboratively toward that goal.

Population health focuses on keeping healthy New Jerseyans well, preventing those at risk from getting sick, and keeping those with chronic conditions from getting sicker. Population health promotes prevention, wellness and equity in all environments, resulting in a healthy New Jersey.

Emergency preparedness plans, education workshops, educational materials, prevention plans, response plans.

Partnerships with CDC and New Jersey Office of Emergency Management.



Mitigations Actions:

The department did not identify any mitigation actions for this plan update. Historically, the department has not provided actions.



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Health</b>
<b>Description of Organization</b>	The Department's priority is improving population health by strengthening New Jersey's health system. The Department's five branches, Public Health Services, Health Systems, Integrated Health, Office of Population Health and the Office of Policy and Strategic Planning work collaboratively toward that goal. Population health focuses on keeping healthy New Jerseyans well, preventing those at risk from getting sick, and keeping those with chronic conditions from getting sicker. Population health promotes prevention, wellness and equity in all environments, resulting in a healthy New Jersey.	
<b>Point of Contact</b>	Name/Title: Audrey Miller, Deputy Director Email: Audrey.Miller@doh.nj.gov Phone: 609-292-7838 Address: P. O. Box 360 Trenton, NJ 08625-0360 Website: <a href="https://www.nj.gov/health/">https://www.nj.gov/health/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	All Hazards	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Emergency preparedness plans, education workshops, educational materials, prevention plans, response plans.	
<b>Does your organization provide technical assistance?</b>	Yes. Local Communicable Trainings for preparedness and recovery.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes. - Ready Together New Jersey, DOH's Public Health Guide to Emergency Planning. -Respiratory Outbreak Information for Schools - February 2018 -Guidelines for the Control of Respiratory Virus Outbreaks in Long-Term Care and Other Institutional Settings -Prevention and Control Measures for Outbreaks in School Settings -What You Need to Know about Mold (DOH Fact Sheet) -What You Need to Know about Carbon Monoxide Poisoning (DOH Fact Sheet) -What you Need to Know about Food Safety (DOH Fact Sheet) Recover Safely -School Asbestos Management Plans	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes.	
<b>Is Funding available for Hazard Mitigation?</b>	Yes. There is a comprehensive listing of grant funds that is made available to the Department of Health in order to reduce losses and risk associated with Disease for the public at large.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes.Partnerships with CDC and New Jersey office of Emergency Management.	



## **PINELANDS COMMISSION (3/12/2018 & 8/05/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Pinelands Commission

**Date:** 3/12/2018 & 8/05/2018

**Time:** 10 am

Communication through follow-up emails based on original message left on 3/12/2018

### **Attendees:**

Name	Organization	Title	Email Address
Larry Liggett	Pinelands Commission	Director of Land Use & Technology	Larry.Liggett@njpines.state.nj.us
Gina Berg	Pinelands Commission	Planner	<a href="mailto:Gina.Berg@pinelands.nj.gov">Gina.Berg@pinelands.nj.gov</a>
Paige Kaspar	MBI	Planner	<a href="mailto:Paige.Kaspar@mbakerintl.com">Paige.Kaspar@mbakerintl.com</a>

### **Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Through its implementation of the Pinelands Comprehensive Management Plan (CMP), the New Jersey Pinelands Commission protects the Pinelands in a manner that maintains the region's unique ecology while permitting compatible development.

The CMP contains provisions for Fire Hazard Mitigation, Wetlands protection and Permanent Land Preservation Programs that reduce risk and vulnerability to wildfires and flooding.

The regulations and standards contained in the CMP are designed to promote orderly development by channeling growth toward appropriate areas while safeguarding the region's unique natural, ecological, agricultural, archaeological, historical, scenic, cultural and recreational resources

#### Mitigations Actions:

The commission did not identify any mitigation actions for this plan update. Historically, the Commission has not provided actions.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update



<b>Organization Name:</b> New Jersey Pinelands Commission	
<b>Description of Organization</b>	The New Jersey Pinelands Commission is an independent state agency whose mission is to "preserve, protect, and enhance the natural and cultural resources of the Pinelands National Reserve, and to encourage compatible economic and other human activities consistent with that purpose."
<b>Point of Contact</b>	Name: Gina Berg Email: Gina.Berg@pinelands.nj.gov Phone: (609) 894-7300 Address: 15 Springfield Road New Lisbon, NJ 08064 Website: <a href="https://www.nj.gov/pinelands/">https://www.nj.gov/pinelands/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Natural Hazards including wildfires and flooding.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Through its implementation of the Pinelands Comprehensive Management Plan (CMP), the New Jersey Pinelands Commission protects the Pinelands in a manner that maintains the region's unique ecology while permitting compatible development. The CMP contains provisions for Fire Hazard Mitigation, Wetlands protection and Permanent Land preservation Programs that reduce risk and vulnerability to wildfires and flooding.
<b>Does your organization provide technical assistance?</b>	The Commission has a staff of environmental reviewers, planners, and scientists to help support the mission of the Commission and Comprehensive Management Plan.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	The regulations and standards contained in the CMP are designed to promote orderly development by channeling growth toward appropriate areas while safeguarding the region's unique natural, ecological, agricultural, archaeological, historical, scenic, cultural and recreational resources. The CMP contains provisions for Fire Hazard Mitigation, Wetlands protection and Permanent Land preservation programs that reduce risk and vulnerability to wildfires and flooding.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No
<b>Is Funding available for Hazard Mitigation?</b>	Not directly. However, the Commission's permanent land protection programs, includes the Pinelands Development Credit program, the Limited Practical Use program and the acquisition component of the Pinelands Conservation Fund preserve land.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	No





## **NORTH JERSEY TRANSPORTATION PLANNING AUTHORITY(3/22/2018 & 08/07/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## North Jersey Transportation Authority

**Date:** 3/22/2018 & 08/07/2018

**Time:** 10 am

Communication through follow-up emails based on original message left on 3/22/2018

### **Attendees:**

Name	Organization	Title	Email Address
Jeffery Perlman	North Jersey Transportation Authority	Principal Planner, Sustainability Committee	jperlman@njtpa.org
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

### **Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

The agency conducts studies and serves on various interagency committees and working groups to support resiliency planning in northern New Jersey. Examples include the recently completed Post-Hurricane Sandy Transportation Resilience Study of NY, NJ, and CT and the ongoing Resilience Plan for the Passaic River Basin.

The NJTPA does not directly offer technical assistance to municipalities. The NJTPA does conduct studies as well as fund "subregional" studies (the 13-northern NJ counties and the Cities of Jersey City and Newark) that may include hazard mitigation topics, such as Green Infrastructure.

The NJTPA does not fund Hazard mitigation projects.

The NJTPA has hosted trainings and webinars related to climate mitigation and adaptation topics.

#### Mitigations Actions:

The Authority did not identify any mitigation actions for this plan update. Historically, the Authority has not provided actions.



Capability Assessment Form  
State of New Jersey All-Hazard Mitigation Plan Update

Michael Baker  
INTERNATIONAL

<b>Organization Name:</b> The North Jersey Transportation Planning Authority	
<b>Description of Organization</b>	The NJTPA is the federally authorized Metropolitan Planning Organization for 6.7 million people in the 13-county northern New Jersey region. Each year, the NJTPA oversees more than \$2 billion in transportation improvement projects and provides a forum for interagency cooperation and public input. It also sponsors and conducts studies, assists county planning agencies and monitors compliance with national air quality goals.
<b>Point of Contact</b>	Name/Title: Jeffery Perlman AICP., PP./Manager of Environmental Email: jperlman@njtpa.org Phone: (973) 639-8445
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Sea Level Rise, storm surge, riverine flooding, and extreme heat events
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The agency conducts studies and serves on various interagency committees and working groups to support resiliency planning in northern New Jersey. Examples include the recently completed Post-Hurricane Sandy Transportation Resilience Study of NY, NJ, and CT ( <a href="https://www.njtpa.org/planning/regional-studies/completed-studies/post-hurricane-sandy-transportation-resilience/ny-nj-ct-hurricane-sandy-follow-up">https://www.njtpa.org/planning/regional-studies/completed-studies/post-hurricane-sandy-transportation-resilience/ny-nj-ct-hurricane-sandy-follow-up</a> ) and the ongoing Resilience Plan for the Passaic River Basin.
<b>Does your organization provide technical assistance?</b>	The NJTPA does not directly offer technical assistance to municipalities. The NJTPA does conduct studies as well as fund "subregional" studies (the 13-northern NJ counties and the Cities of Jersey City and Newark) that may include hazard mitigation topics, such as Green Infrastructure.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Plan 2045: Connecting North Jersey Long Range Transportation Plan
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes. The NJTPA has hosted trainings and webinars related to climate mitigation and adaptation topics.
<b>Is Funding available for Hazard Mitigation?</b>	The NJTPA does not fund Hazard mitigation projects
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Not an ongoing coordination though the NJTPA invites NJOEM and FEMA representation on the above referenced resilience studies conducted for the region



## **NJ DEPARTMENT OF ENVIRONMENTAL PROTECTION MEETINGS (3/26/2018)**



# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection Date: March 26, 2018

Name	Title	Program	Email
Robin Heston-Murphy	Env. Specialist 4	NJDEP- DSHW	robin-heston-murphy@dep.nj.gov
Bill Lindner	Manager	NJDEP- SRP	william.lindner@dep.nj.gov
Tom Byrne	Section Chief	NJDEP- DSHW	Tom.Byrne@dep.nj.gov
Michael Kolber	Planner	NJDEP- OCLUP	michael.kolber@dep.nj.gov
Matt Warren	Environ. Trainee	NJDEP- OCLUP	Garrett.Warren@dep.nj.gov
Jeremy Welber	A&T- Division Firewarden	NJFFS	jeremy.welber@dep.nj.gov
Todd Wyckoff	Chief	NJ Forest Service	todd.wyckoff@dep.nj.gov
Carrie Sargeant	NJUCF Program coordinator	NJFS	carrie.sargeant@dep.nj.gov
Hosnick Martinez	Officer / DEM Liaison	NJDEP- NJ Park Police	Hosnick.Martinez@dep.nj.gov
Katelyn White	Environmental Services Trainer	OCLUP	Katelyn.White@dep.nj.gov
BOB CARTICA	Administrator	DEP, NJFS, Nat Lands	bob.cartica@dep.nj.gov

- 1) WASTE management
- 2) Engineering + construction





# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection Date: March 26, 2018

Name	Title	Program	Email
Jenny Goodman	Manager, BER	Bureau of Env. Radiation	jenny.goodman@dep.nj.gov
Nancy Stanley	Radiation Physiologist	Bur. of Env. Radiation	nancy.stanby@dep.nj.gov
Christine Schell	AQES - Exec. Asst	AQES	christine.schell@dep.nj.gov
Katelyn White	Environmental Services Trainer	Office of Coastal & Land Use Planning	katelyn.white@dep.nj.gov
Nick Procopio	Manager	DSRHH	nick.procopio@
Matthew Yepsen	Research Scientist	DSRHH	matthew.yepsen@
Jerry Driber	Asst. Director	EHAP	Jerry.driber@dep.nj.gov
Steve Andersen	RSI	EHAP	Steve.andersen@dep.nj.gov
Art Zantini	Analyst	CSE	Arthur.Zantini@dep.nj.gov
Adria Wentzel	Analyst	CSE	adria.wentzel@dep.nj.gov
Kimberly Jensen	Director	CSE	Kimberly.Jensen@dep.nj.gov





# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection Date: March 26, 2018

Name	Title	Program	Email
Nancy Fry	AC Reep	LUM	Nancy.Fry@dep.nj.gov
Kim Springer	Manager OPI	LUM	Kim.springer@dep.nj.gov
Sam Baldeo	AA2	Lum	Sam.Baldeo@dep.nj.gov
Kelly Pflicke	senior Planner	LUM	Kelly.pflicke@dep.nj.gov
Rebecca Hill	Env. Specialist	Lum	rebecca.hill@dep.nj.gov
Liz Seupel	Manager	LUM	elizabeth.seupel@dep.nj.gov
Nick Angarone	Mgr	Lum	nick.angarone@dep.nj.gov
Colleen Kellar	Assistant Dir	Lum	colleen.kellar@dep.nj.gov
Michelle Taormina	Env. Specialist Emergency Management		Michelle.taormina@dep.nj.gov
Gray Pearson	Assistant Director	EM	Gray.Pearson@dep.nj.gov
Bob Wofosow	DIR	Emergency Mgmt	Robert.Wofosow@dep.nj.gov
Mitzi Kaurae	EMERGENCY MGMT PLANNER	EMERGENCY MGMT	Mitzi.Kaurae@dep.nj.gov

3) LUM USE

4) Emergency management



State of New Jersey All-Hazard Mitigation Plan Update  
NJDEP Capability Assessment / Mitigation Actions Meeting

Michael Baker  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection Date: March 26, 2018

Name	Title	Program	Email
John Moyle	Director	Dr. Schick Flood Control	John.Moyle@dep.nj.gov
JOSEPH RUGGERI	ENGINEER	Flood Control	Joseph.ruggeri@dep.nj.gov
Georgann Gray	Admin Analyst 3	Div Coastal Eng	georgann.gray@dep.nj.gov
John Ritchey	Manager	Bur Flood Control	John.Ritchey@dep.nj.gov
Erick Doyle	Manager	Div. Coastal Engineering	erick.doyle@dep.nj.gov
John Klim	Officer	NJ Park Police	John.Klim@dep.nj.gov
Yang Cao	Project Manager	Blue Army Program	Yang.Cao@dep.nj.gov
Elena Williams	GIS Specialist	P+F - ONLMA	elena.williams@dep.nj.gov

2) Engineering + Construction





# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection    Date: March 26, 2018

Name	Title	Program	Email
Courtney Ward-Wittkop	Project Manager	NJDEP Green/Blue Acres	courtney.ward-wittkop@dep.nj.gov
Kimberly Testa	"	"	kimberly.testa@dep.nj.gov
Kim Rennick	"	"	Kimberly.Rennick@dep.nj.gov
LISA BARNO	Chief, Freshwater Fish	DEP Fish & Wildlife	Lisa.Barno@dep.nj.gov
Jessica Patterson	Compliance Officer	DEP Green Acres	Jessica.patterson@dep.nj.gov
Fawn McGee	Director, Blue Acres Program	DEP-Green/Blue Acres	fawn.mcgee@dep.nj.gov



# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection    Date: March 26, 2018

Name	Title	Program	Email
KARL NIEDERER	PROJECT ADMINISTRATOR	HISTORIC PRESERVATION OFFICE, NJCAR	karl.niederer@dep.nj.gov
Kinney Clark	BIS Specialist	Historic Preservation Office	kinney.clark@dep.nj.gov
Charles Welch	Asst. Superintendent	State Park Service Island Beach State Park	charlie.welch@dep.nj.gov





State of New Jersey All-Hazard Mitigation Plan Update  
NJDEP Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: New Jersey Department of Environmental Protection    Date: March 26, 2018

Name	Title	Program	Email
BILL MACHOTKA	SECTION CHIEF	DEP- MUNICIPAL FINANCE + CONSTRUCTION	WILLIAM.MACHOTKA@DEP.NJ.GOV
Matt Matter	Program Coordinator	DEP-Water Resource Mgt	matt.matter@dep.nj.gov
Kati Angerone	Policy Advisor	DEP- DWSE	Katrina.Angerone@dep.nj.gov
Michael Kolb	Planner	DEP- OCLUP	Michael.Kolb@dep.nj.gov



# New Jersey State Hazard Mitigation Plan Update

NJDEP Meeting

March 26, 2018



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# What is Hazard Mitigation?

Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters

## What is a Mitigation Plan?

State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events.

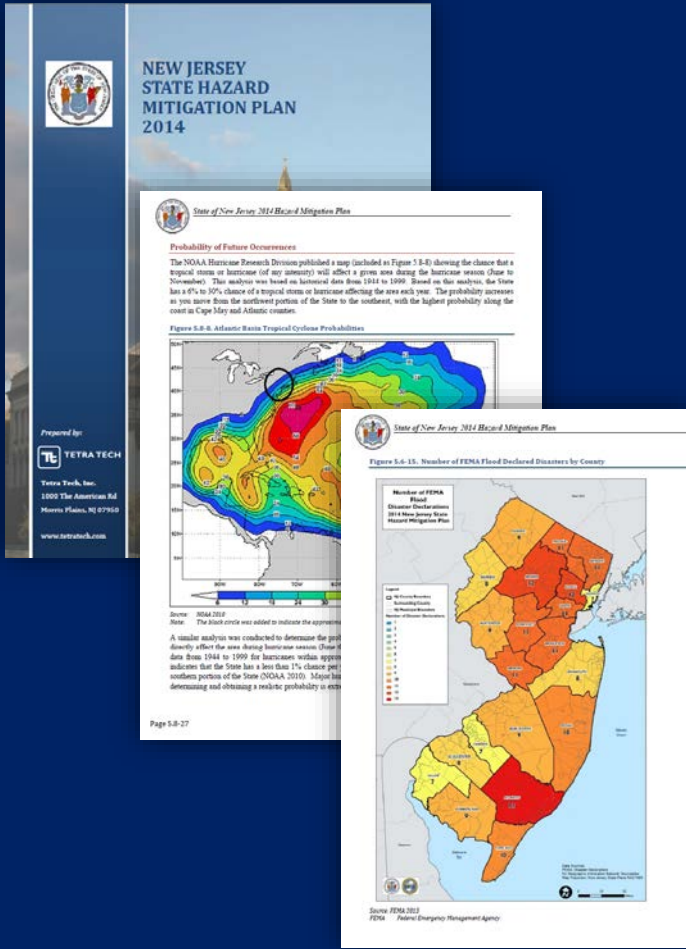
**States are required to update the mitigation plan every 5 years.**

- **The Stafford Act**
- **The Disaster Mitigation Act of 2000**

# Building on an Existing Plan

## Major Sections of 2014 SHMP

- Planning Process
- Coordination of Local Planning
- State of New Jersey Profile
- State Risk Assessment
- State Capability Assessment
- Mitigation Strategies
- Repetitive Loss Strategy



# Mitigation Strategies - Plan Goals

1. Protect life
2. Protect property
3. Increase public preparedness and awareness
4. Develop and Maintain an understanding of risks from hazards
5. Enhance State and local mitigation capabilities to reduce hazard vulnerabilities
6. Support Continuity of operations pre-, during, and post- hazard events



# New for this Plan Update

- Development of a Standardized Risk Template for use in County Multi-jurisdictional Plan Roll Up
- Partnering with Rutgers University and *Jacques Cousteau National Estuarine Research Reserve* to conduct a Statewide Water-based Exposure Assessment.
- Meetings with each individual New Jersey State Departments, Agencies, MPOs and Regional Planning Entities
- Mitigation Loss Avoidance Study (LAS)

# Sea Level Rise Projections

**Table ES-1: Projected SLR Estimates for New Jersey (ft.)**

	Central Estimate	Likely Range	1-in-1000 Chance		
			1-in-20 Chance	1-in-200 Chance	
Year	50% probability SLR meets or exceeds...	67% probability SLR is between...	5% probability SLR meets or exceeds...	0.5% probability SLR meets or exceeds...	0.1% probability SLR meets or exceeds...
2030	0.8 ft	0.6 – 1.0 ft	1.1 ft	1.3 ft	1.5 ft
2050	1.4 ft	1.0 – 1.8 ft	2.0 ft	2.4 ft	2.8 ft
2100 Low emissions	2.3 ft	1.7 – 3.1 ft	3.8 ft	5.9 ft	8.3 ft
2100 High emissions	3.4 ft	2.4 – 4.5 ft	5.3 ft	7.2 ft	10 ft

*Estimates are based on Kopp et al. ( 2014). Columns correspond to different projection probabilities. For example, the ‘Likely Range’ column corresponds to the range between the 17<sup>th</sup> and 83<sup>rd</sup> percentile; consistent with the terms used by the Intergovernmental Panel on Climate Change (Mastrandrea et al., 2010). All values are with respect to a 1991-2009 baseline. Note that these results represent a single way of estimating the probability of different levels of SLR; alternative methods may yield higher or lower estimates of the probability of high-end outcomes.*

Kopp, R.E., A. Broccoli, B. Horton, D. Kreeger, R. Leichenko, J.A. Miller, J.K. Miller, P. Orton, A. Parris, D. Robinson, C.P. Weaver, M. Campo, M. Kaplan, M. Buchanan, J. Herb, L. Auermuller and C. Andrews. 2016. *Assessing New Jersey’s Exposure to Sea-Level Rise and Coastal Storms: Report of the New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel*. Prepared for the New Jersey Climate Adaptation Alliance. New Brunswick, New Jersey: Rutgers University.

# Hazard Identification

Profiles the following **Nature-based** Hazards:

- Coastal Erosion and Sea-level Rise
- Dam and Levee Failure
- Drought
- Earthquake
- Flood
- Geological Hazards
- Hurricane and Tropical Storm
- Nor'Easters
- Severe Weather
- Severe Winter Weather
- Wildfire
- Tsunami





# Hazard Identification

Profiles the following **Human-based** Hazards:

- Animal Disease
- Civil Unrest
- Crop Failure
- Cyber Attack
- Economic Collapse
- Fishing Failure
- Hazardous Substances
- Nuclear Hazards
- Pandemic
- Power Failure
- Terrorism



# Mitigation Strategies



The Mitigation Strategy uses risk-based information to identify and prioritize mitigation actions that will alleviate vulnerabilities and prevent losses.

## Four Kinds of Mitigation Actions:

- Plans and Regulations
- Structures and Infrastructure Projects
- Natural System Protection Projects
- Education and Awareness Programs

Implementation Details for each action are Identified:

- Funding Sources
- Lead and Support Agencies
- Timeline & Completion Date





# State Capability Assessments



The State capability assessment presents:

- The State's pre- and post-disaster management policies, programs, and capabilities,
- An analysis of State funding opportunities to directly support hazard mitigation, and
- A summary of new programs and changes in State capabilities.

# Project Timeline/Schedule

- August 25<sup>th</sup> 2018 – Submit Draft Plan to SHMT
- October 25<sup>th</sup> 2018 – Submit to State of New Jersey
- January 25<sup>th</sup> 2019 – Submit to FEMA
- April 25<sup>th</sup> 2019 – Certification & Approval from FEMA



# Thank You.



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# New Jersey State Hazard Mitigation Plan Update

NJDEP Meeting Reference Maps

March 26, 2018



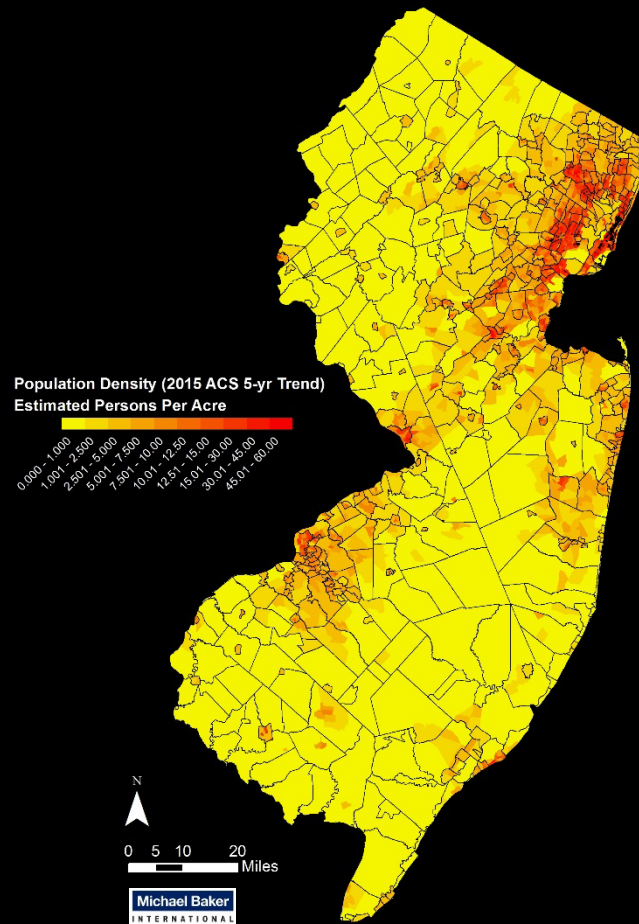
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# State of New Jersey Profile

*The Plan Update must consider how future risk and vulnerability may be affected by changing future conditions, development patterns, and population demographics.*



## New Jersey URBAN GROWTH CHANGE ANIMATION

NJDEP Land Use/Land Cover  
Data Series: 1986 - 2012

>1986

>1995

>2002

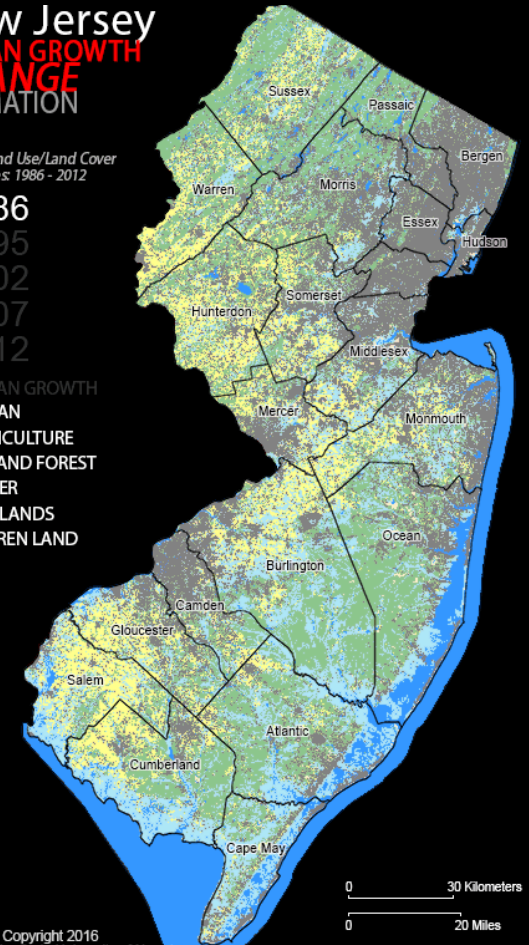
>2007

>2012

URBAN GROWTH  
URBAN  
AGRICULTURE  
UPLAND FOREST  
WATER  
WETLANDS  
BARREN LAND

Animation Copyright 2016  
Rutgers, The State University of New Jersey  
Grant F. Walton Center for Remote Sensing and Spatial Analysis (CRSSA)  
<http://crssa.rutgers.edu>

Animation Courtesy of Rutgers University

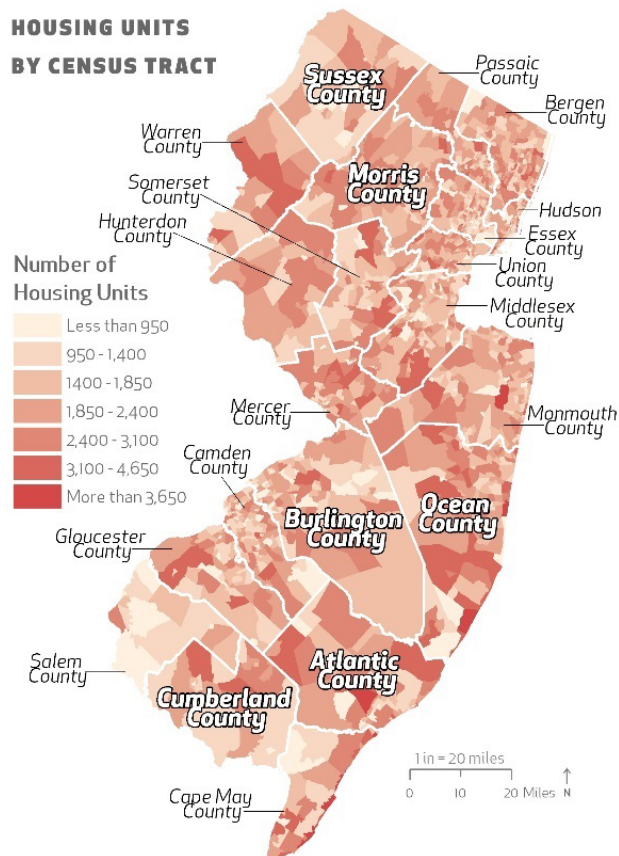




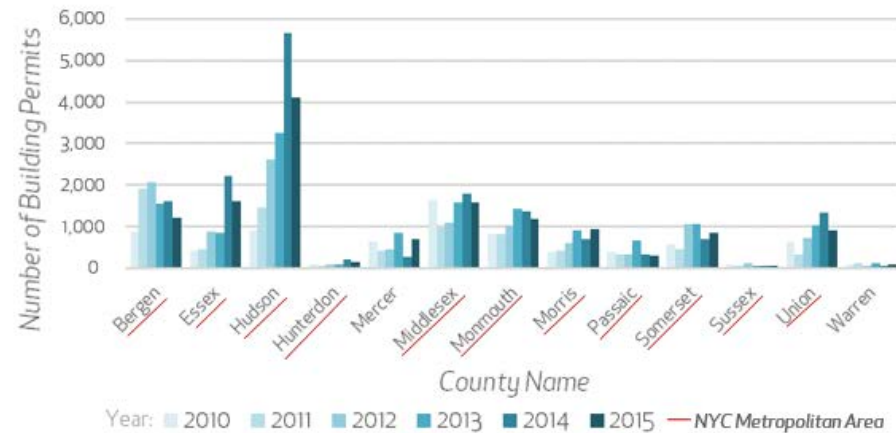
# State of New Jersey Profile

## Building Permit Trend & Housing Density (*units per square mile*) in New Jersey

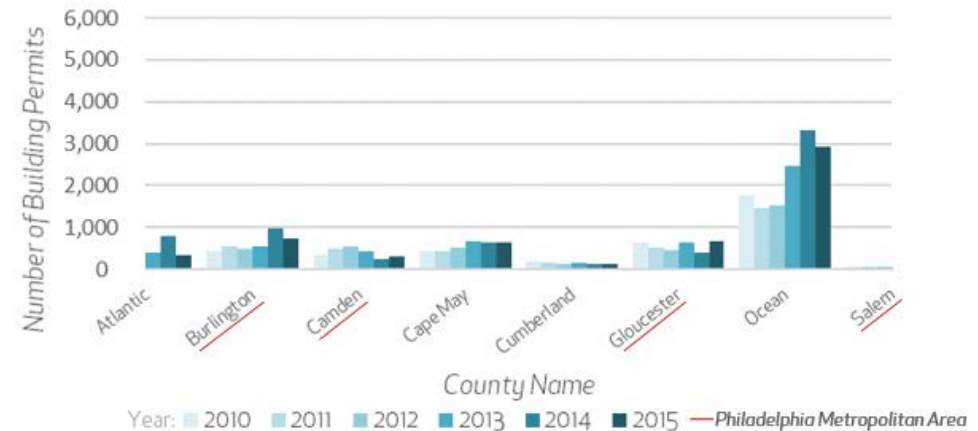
### HOUSING UNITS BY CENSUS TRACT



### Northern New Jersey



### Southern New Jersey

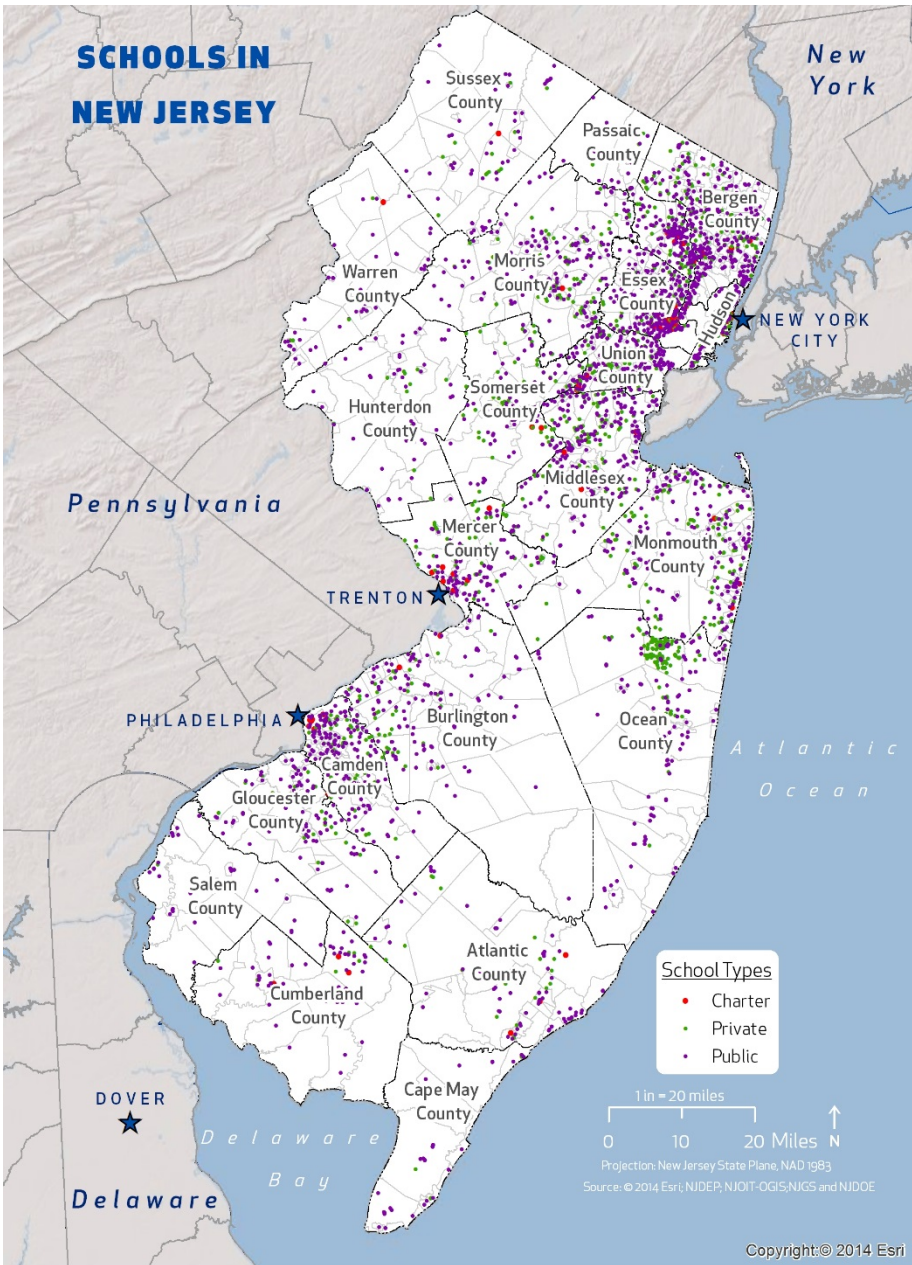


# State of New Jersey Profile

## Public, Private and Charter Schools/Institutions in New Jersey

Institution Name	Year Established	Number of Students
Rutgers University	1766	68,942
Montclair State University	1908	21,000
Thomas Edison State University	1972	17,500
Rowan University	1923	16,155
Kean University	1855	15,221
Farleigh Dickinson University	1942	12,000
New Jersey Institute of Technology	1881	11,400
William Paterson University	1855	11,000
Seton Hall University	1856	10,000
New Jersey City University	1927	9,150

Source: State of New Jersey Department of Education

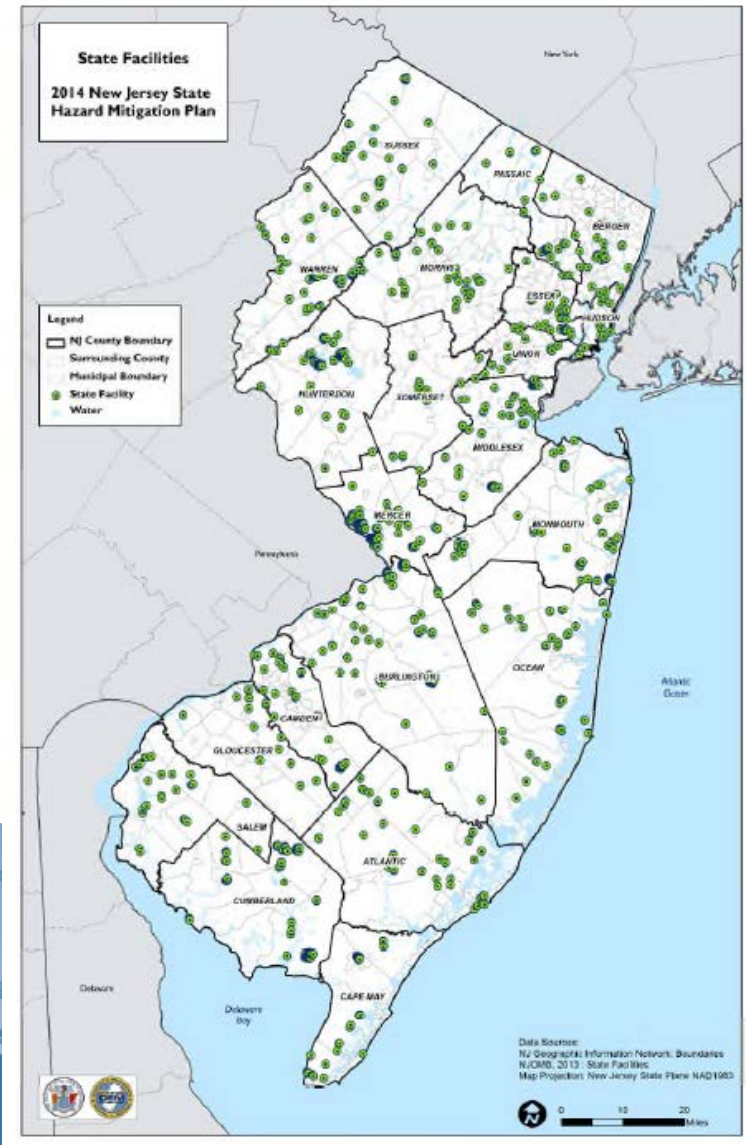


# Critical Facilities

A critical facility or infrastructure is a public asset that is

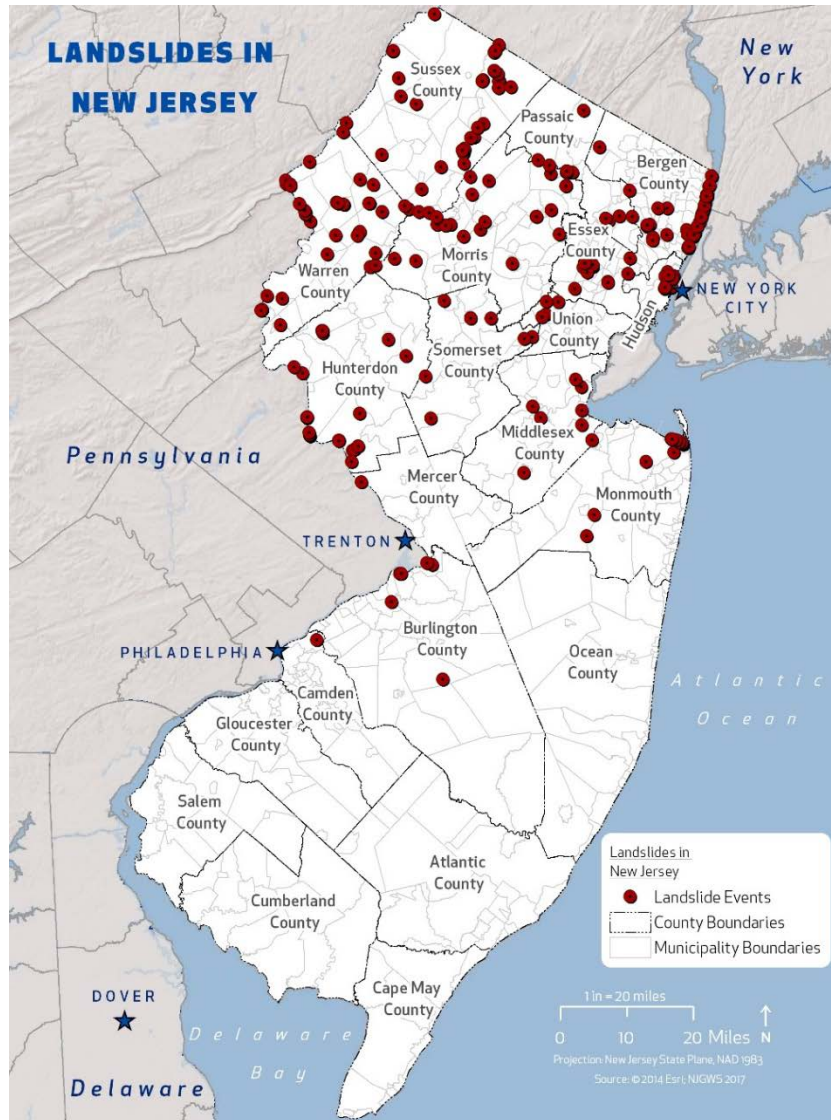
- essential in providing vital State services,
- protects life and property,
- maintains continuity of government and operations, or
- supports emergency response, government, sheltering functions, and recovery.

***Over 12,000 critical facilities and infrastructure were identified for the 2014 Plan update from the Land and Building Asset Management (LBAM) database developed by OMB within the Department of Treasury.***





# Geological Hazards

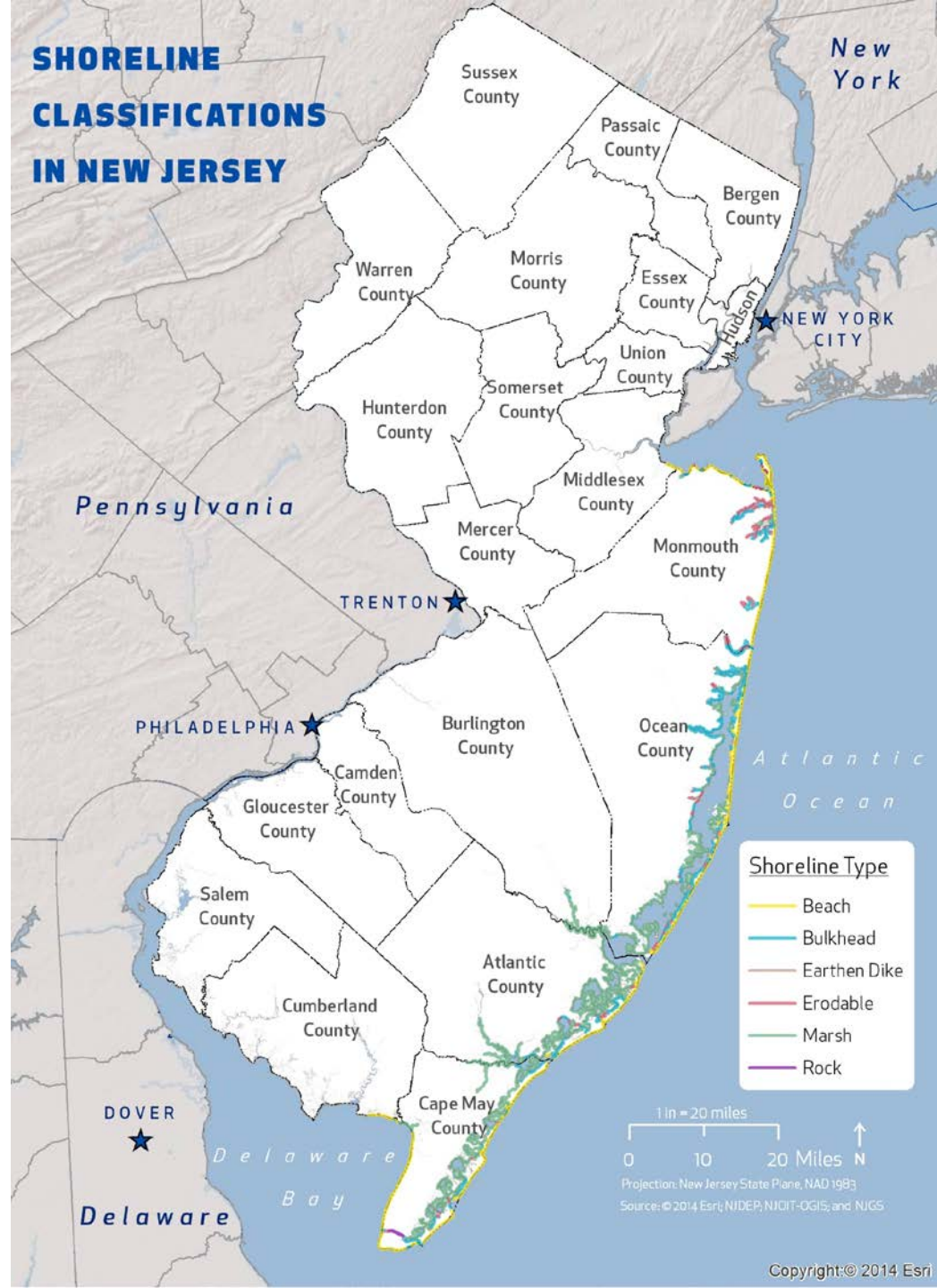




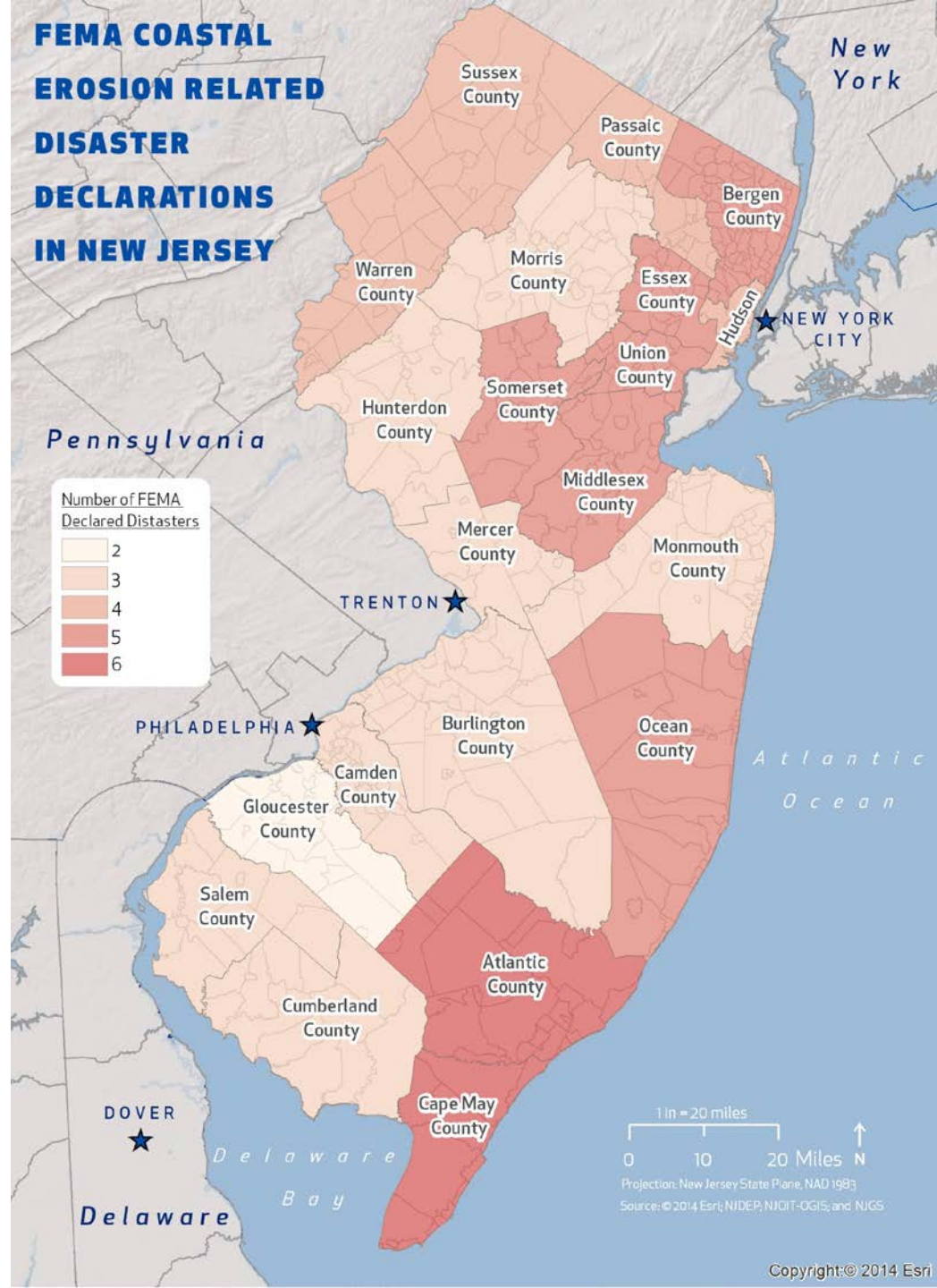


Coastal Erosion & Sea Level Rise

# Shoreline Classifications



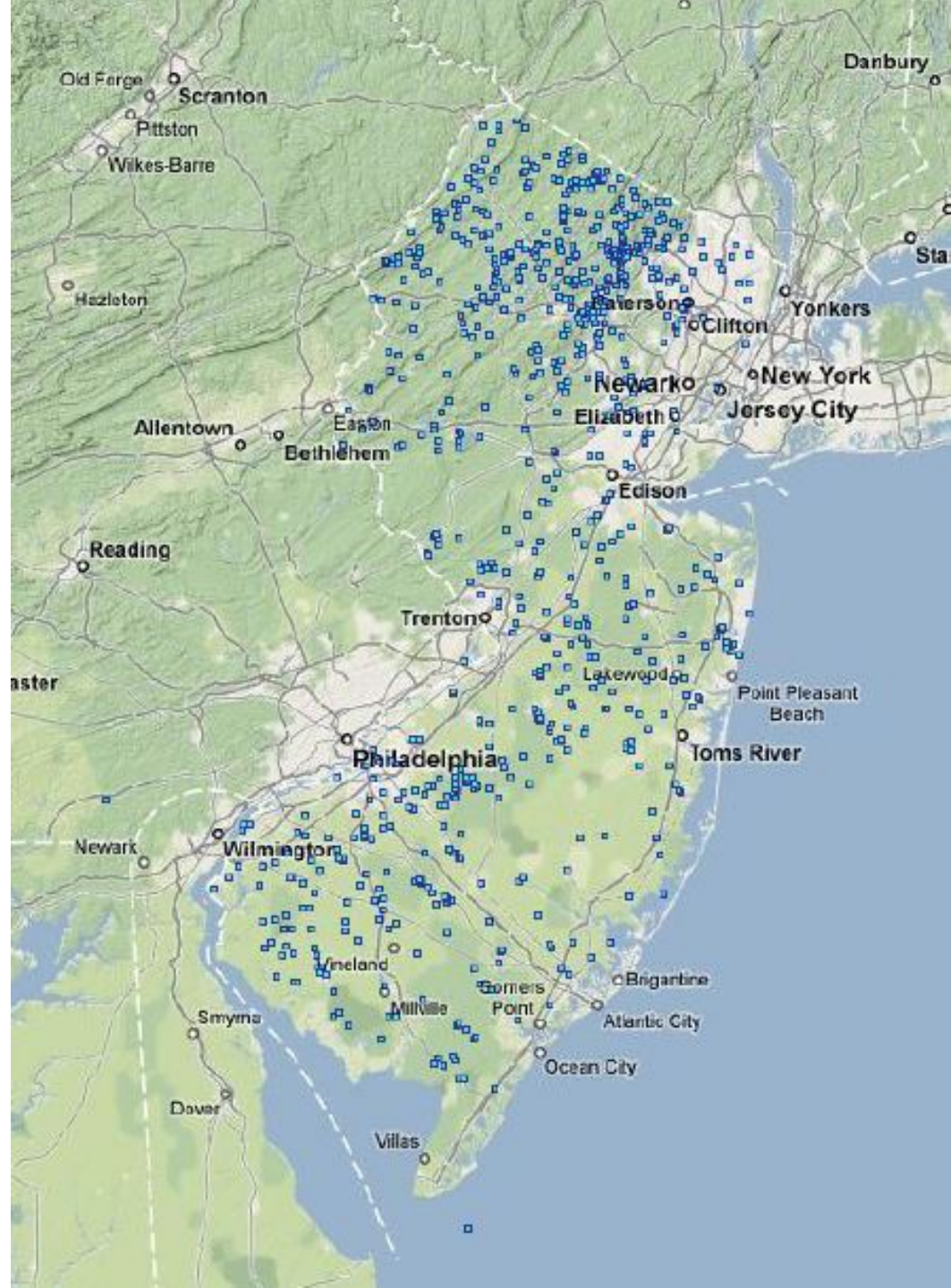
# Coastal Erosion Related Disaster Declarations



# Dam and Levee Failure



# Location of Dams



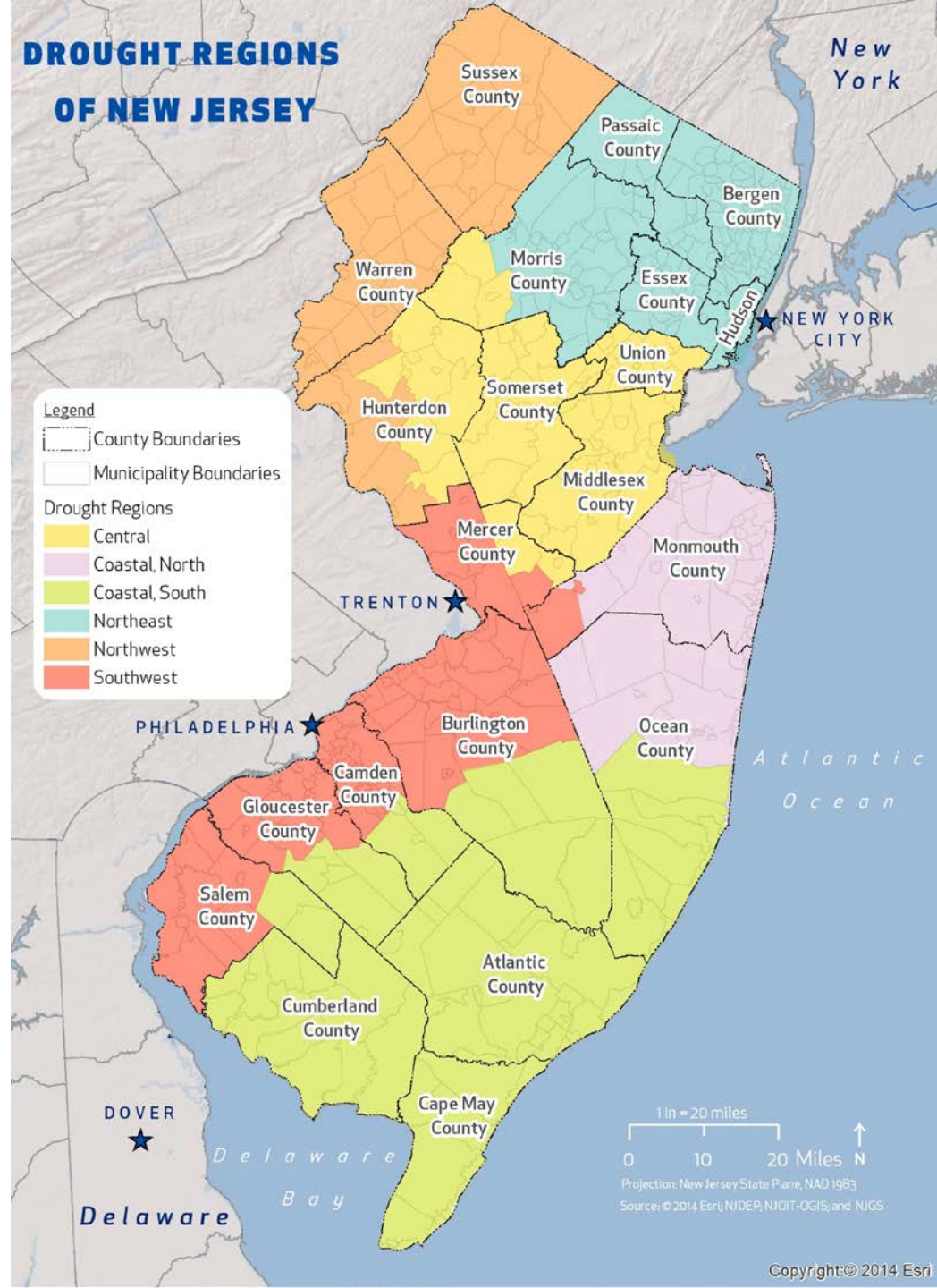




Drought



# Drought Regions of New Jersey

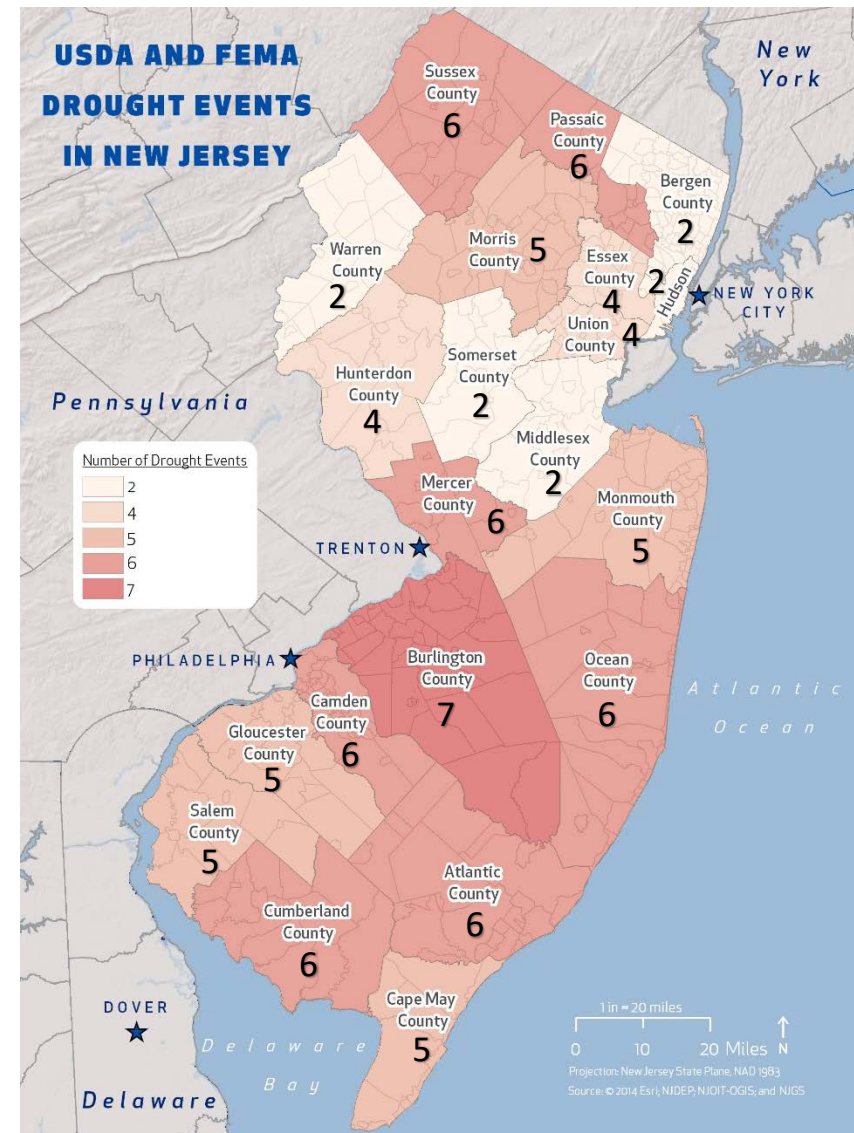


# Droughts

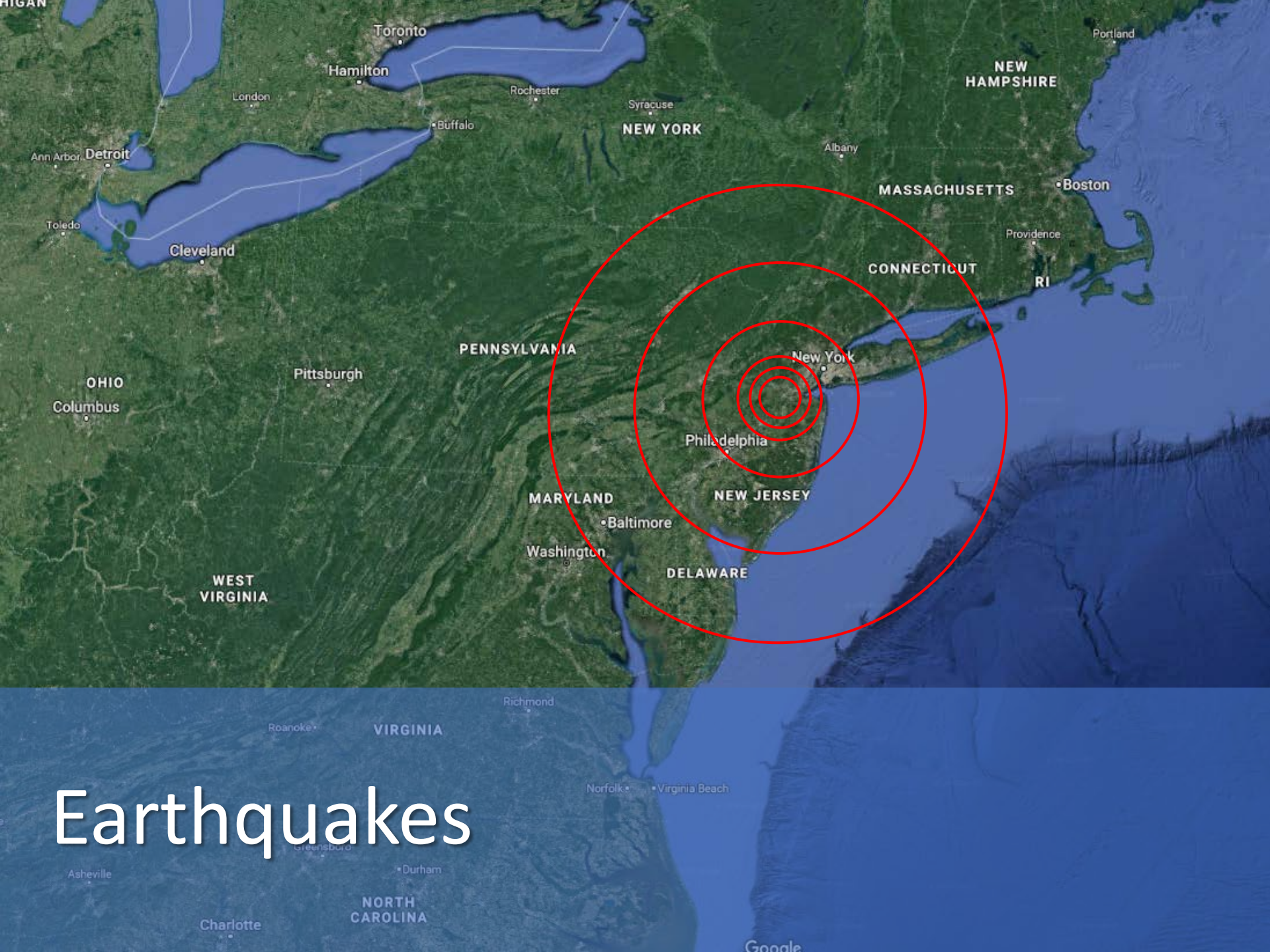
Incidence Period	Event Type	USDA Designation Number	Counties Included in Disaster
June 2012	Drought, Excessive Heat	S3427	Passaic, and Sussex
June 28, 2012 to November 9, 2012	Drought, High Winds, Hail, Excessive Heat, Excessive Rain, Flash Flood, Hurricane Sandy, Snowstorm, and Nor'Easter	S3487	Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Monmouth, Morris, Ocean, Passaic, Salem, Sussex, and Warren
August 15, 2014	Drought	S3759	Sussex and Passaic
April 1, 2015 to September 29, 2015	Drought, Heat, Excessive Heat, High Temperature	S3930	Atlantic, Burlington, Camden, Essex, Cumberland, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, Union and Warren
July 16, 2015 to September 29, 2015	Drought, Heat, Excessive Heat, High Temperature	S3932	Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Ocean, Salem
April 1, 2016 to September 19, 2016	Combined effects of freeze, excessive heat, and drought	S4071	Atlantic, Burlington, Camden, Cape May, Cumberland, Essex, Gloucester, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Salem, Somerset, Union,
November 15, 2016	Drought	S4114	Sussex
May 1 2016 to December 10, 2016	Drought, Heat, Excessive Heat, High Temperature, Frost	S4165	Hunterdon, Mercer, Warren, Burlington

## FEMA Drought Events

- Water Shortage 8/18/1965: Impacted all Counties
- Water Shortage 10/19/1980: Impacted all Counties







# Earthquakes



# Earthquakes

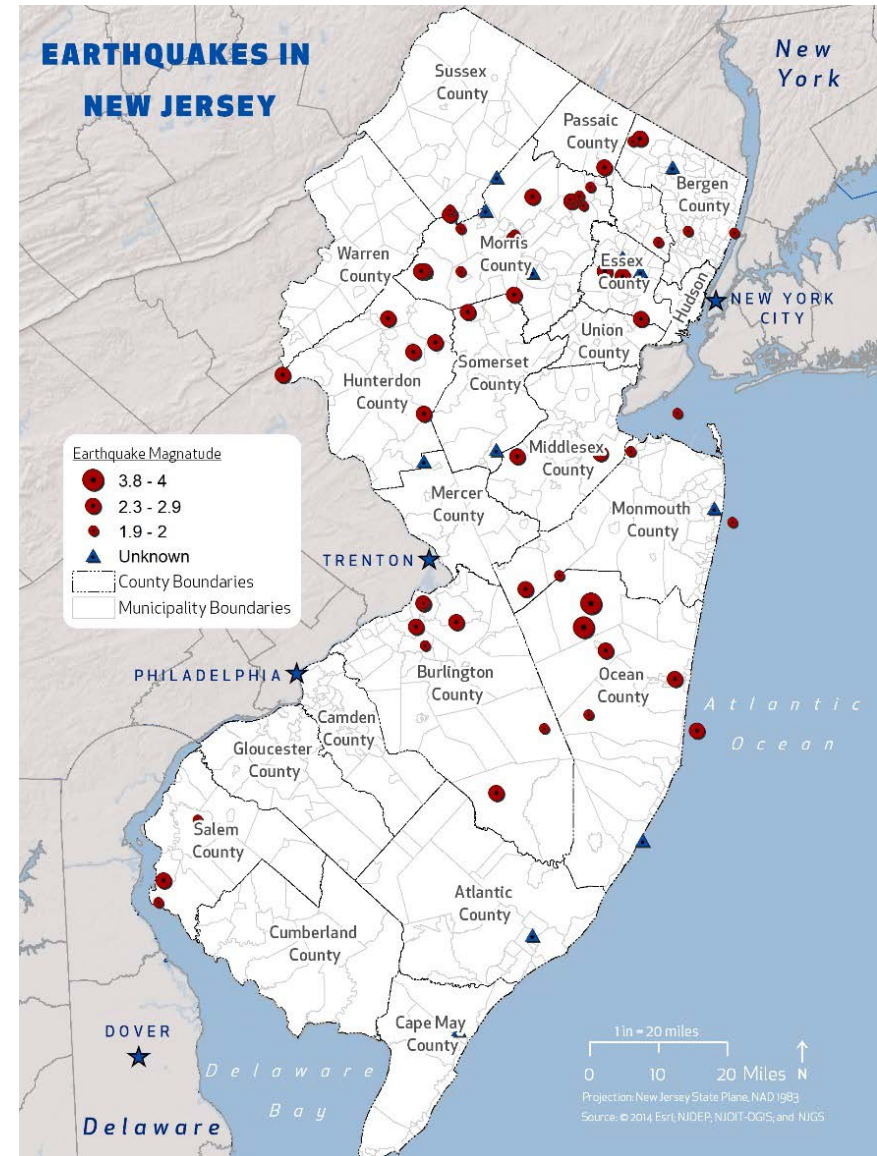


**The Weather Channel**   
@weatherchannel

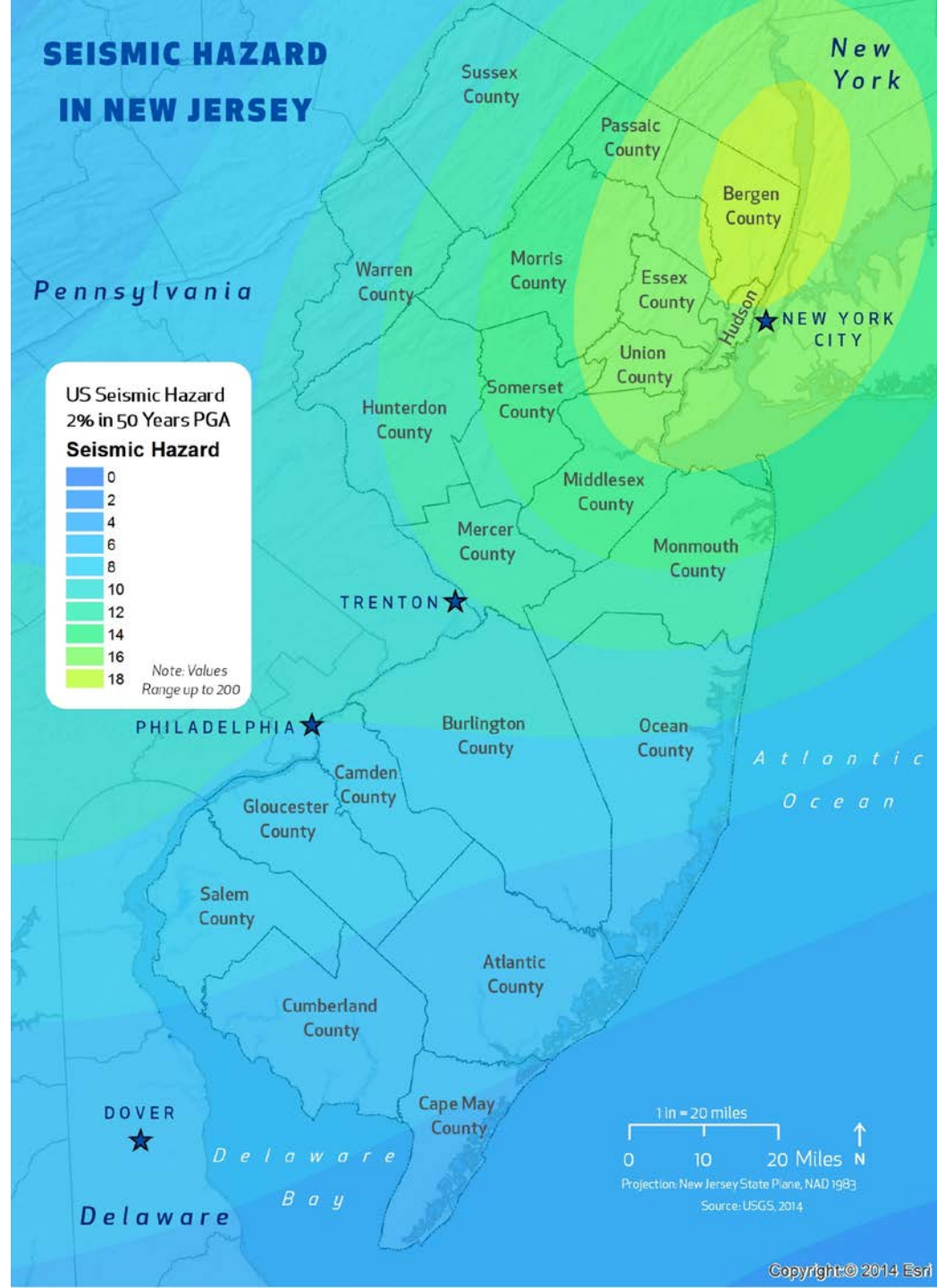
The areas shaded red reported shaking from the 4.1 magnitude [#earthquake](#) near Dover, Delaware, just before 5 p.m. EDT this evening: [wxch.nl/2At0RUc](https://www.wxch.nl/2At0RUc)

6:01 PM - Nov 30, 2017

40 391 412



# Seismic Hazard



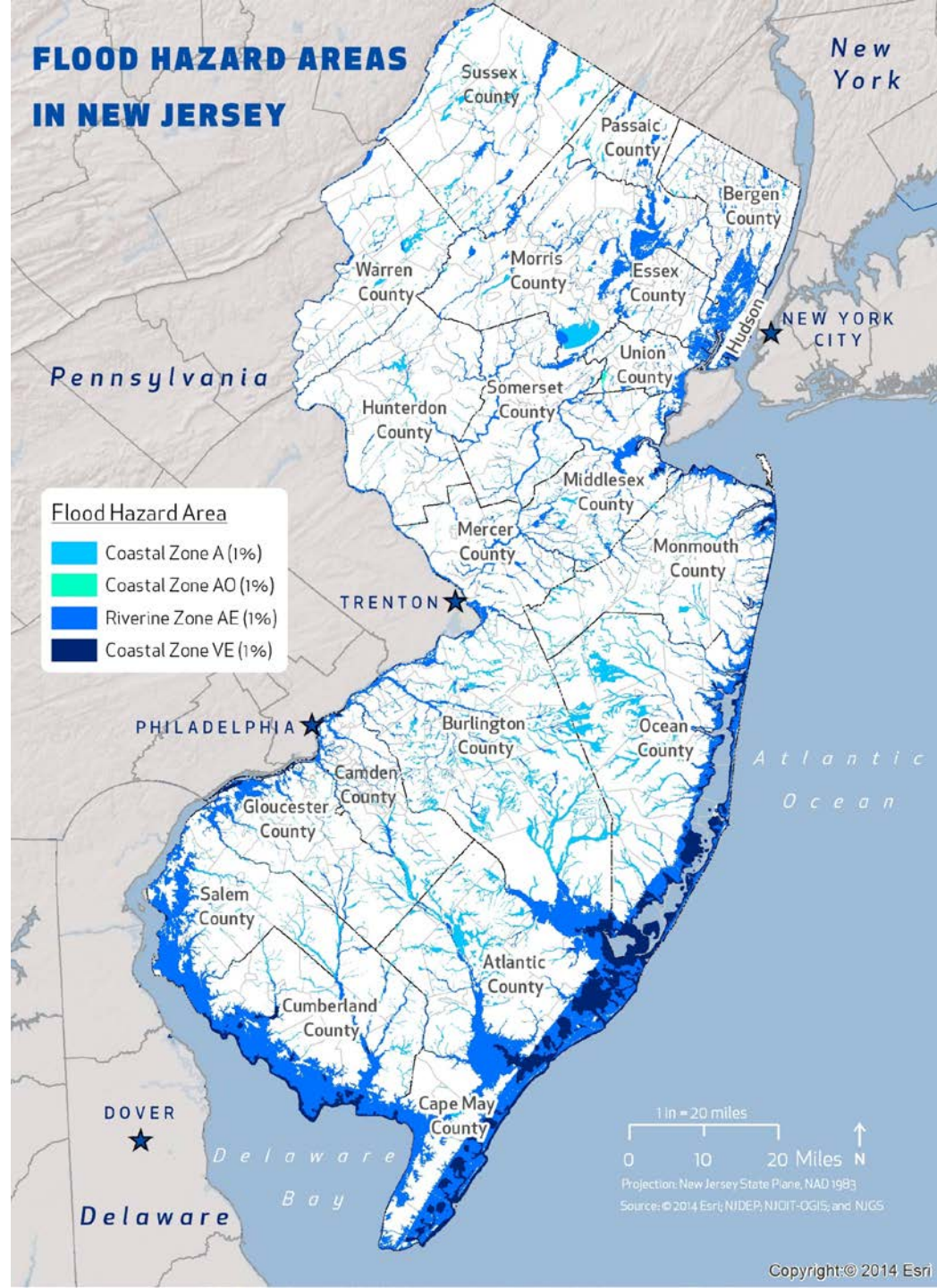




Floods



# Flood Hazard Areas



**Number of Repetitive Loss Properties by County**  
2014 New Jersey State Hazard Mitigation Plan

**Legend**

- NJ County Boundary
- Surrounding County
- NJ Municipal Boundary

**Number of Repetitive Loss Properties**

- < 100
- 100 - 300
- 300 - 500
- 500 - 1000
- 1000 - 2000
- 2000 +

**Counties and Repetitive Loss Properties:**

County	Count
Sussex	18
Passaic	159
Bergen	183
Hudson	415
Essex	499
Union	728
Middlesex	835
Mercer	295
Monmouth	1604
Ocean	1837
Atlantic	1022
Cape May	1304
Cumberland	19
Salem	47
Camden	13
Gloucester	58
Burlington	196
Warren	270
Morris	1554
Somerset	1631
Hunterdon	229

**Data Sources:**  
NJ Department of Transportation  
FEMA, NIPF, June 2013  
NJ Geographic Information Network, Boundaries  
Map Projection: New Jersey State Plane NAD1983

**Scale:** 0 10 20 Miles

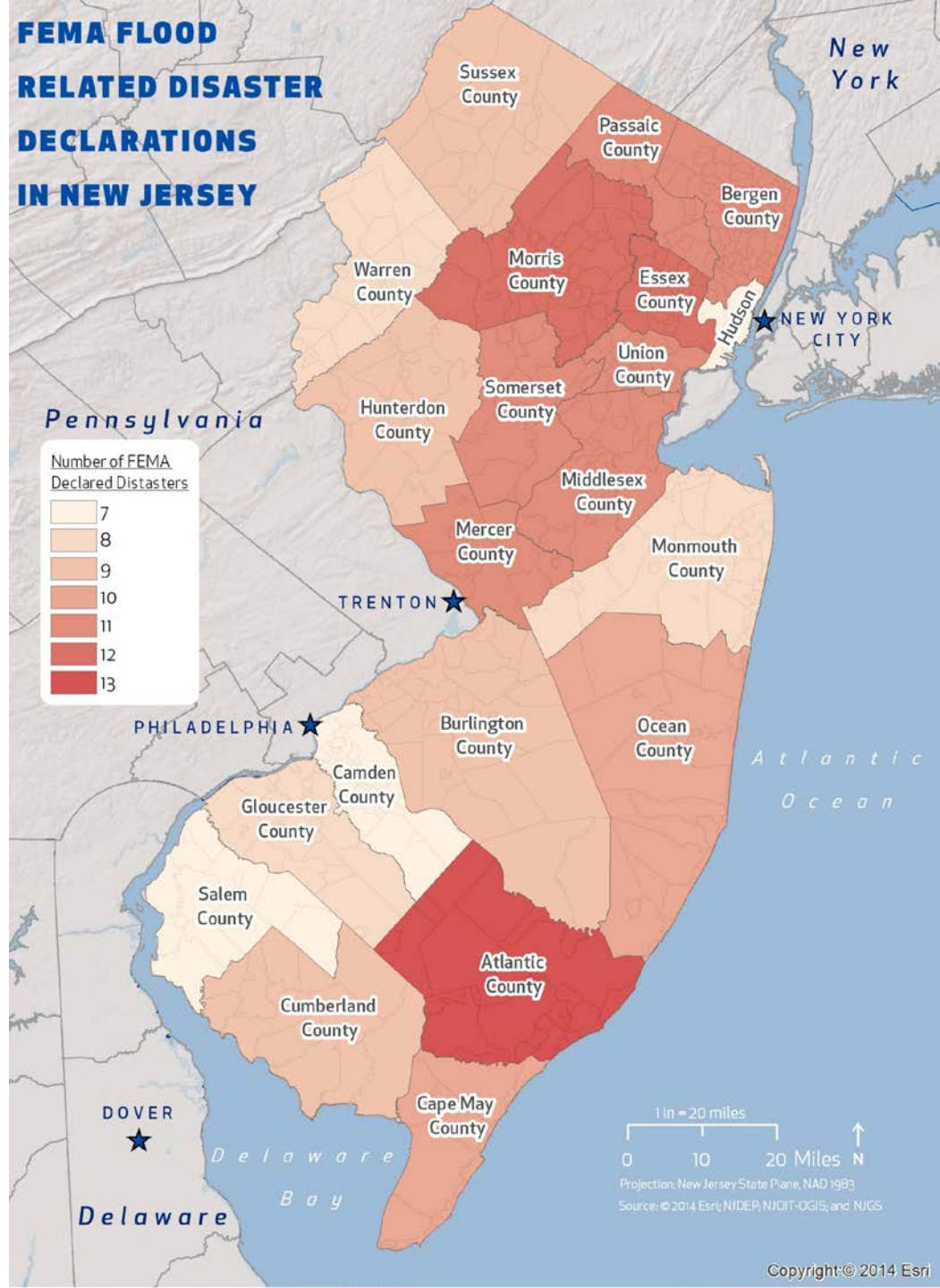
The federal share can increase from a 75 percent federal share to as much as 90 percent.

## Addresses Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties in

- Risk assessment,
- Mitigation actions, and,
- Identifies current and potential funding sources to mitigate RL & SRL properties



# FEMA Flood Related Disaster Declarations

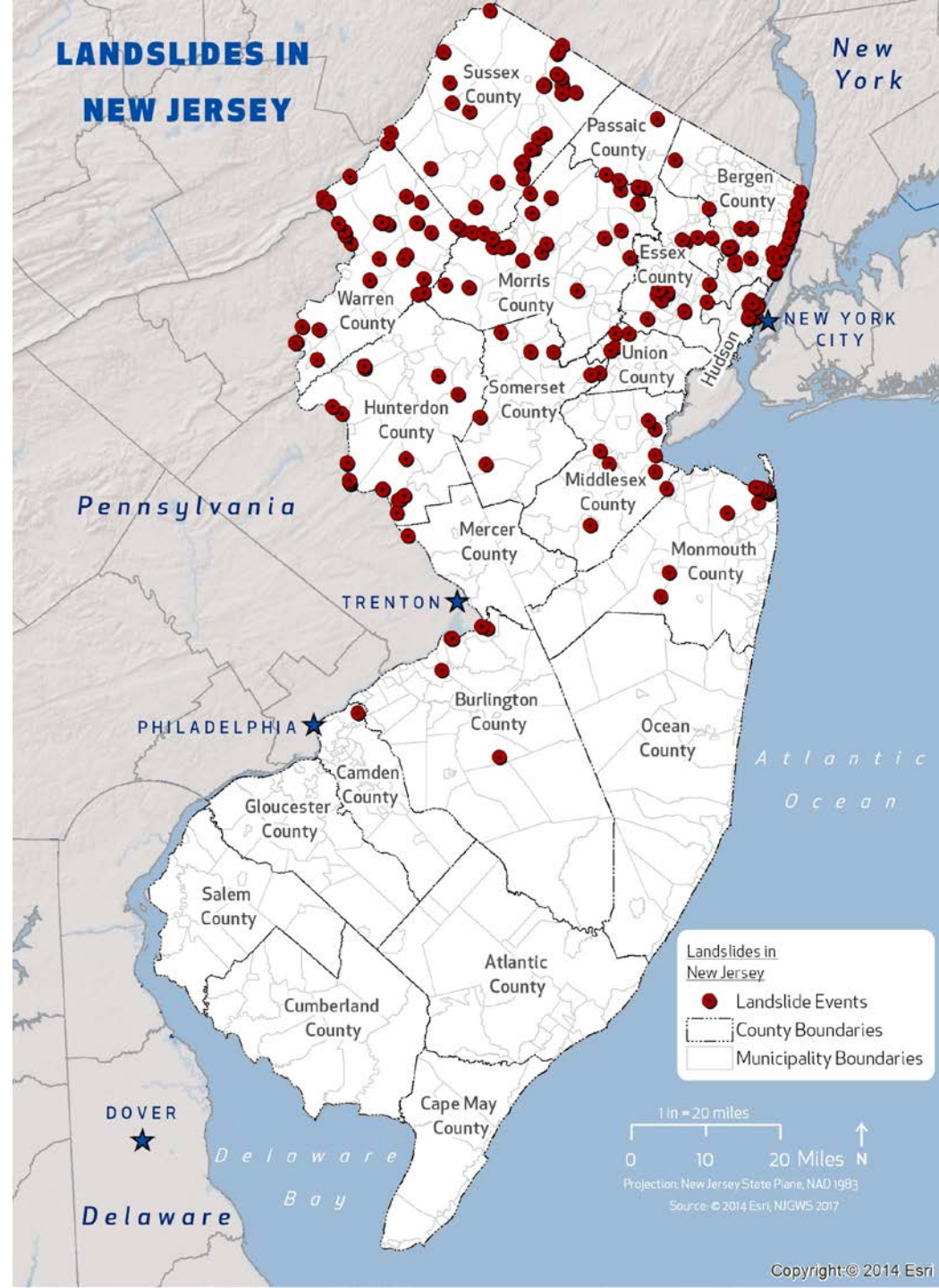




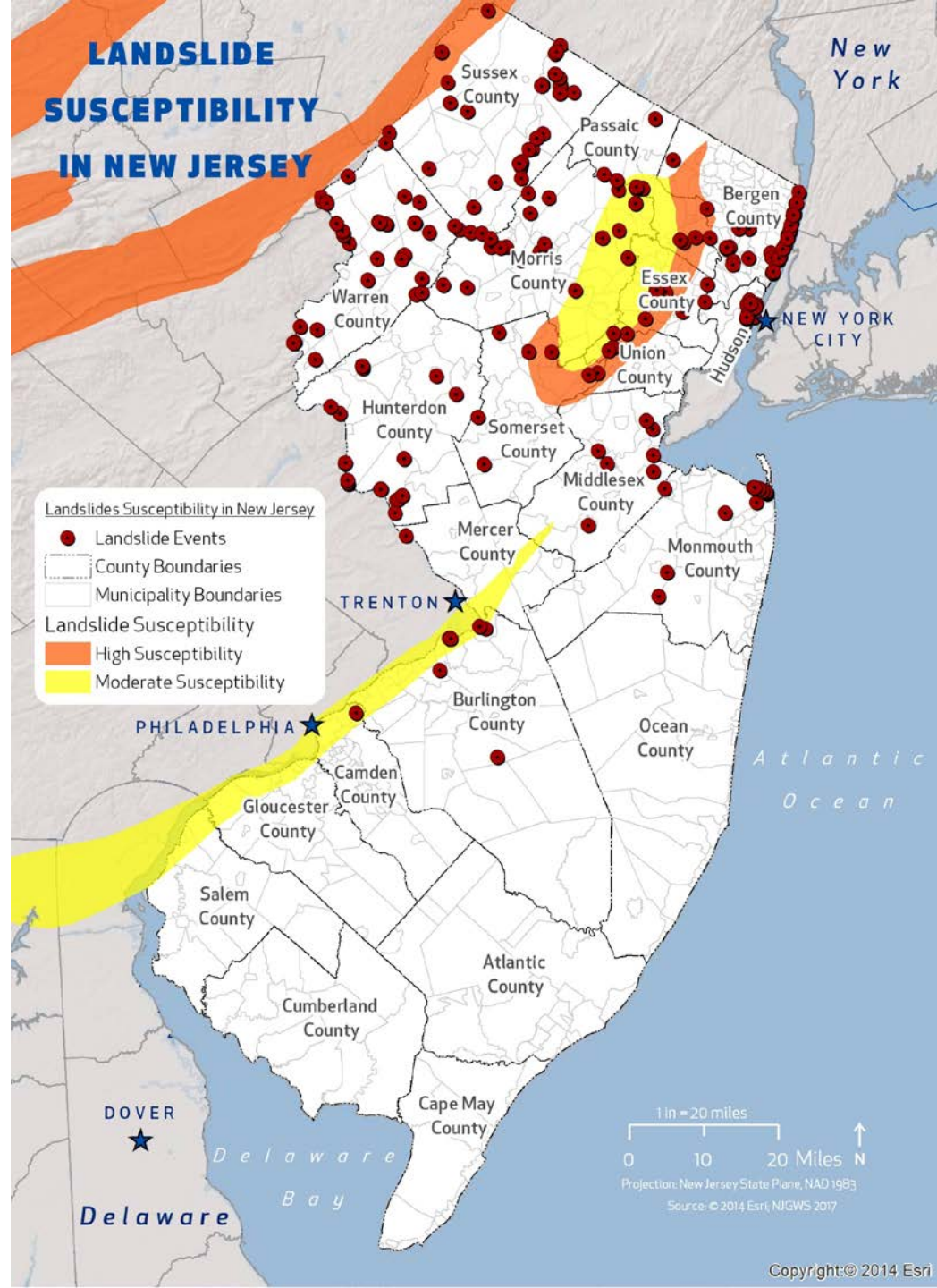
# Geological Hazards



# Landslides

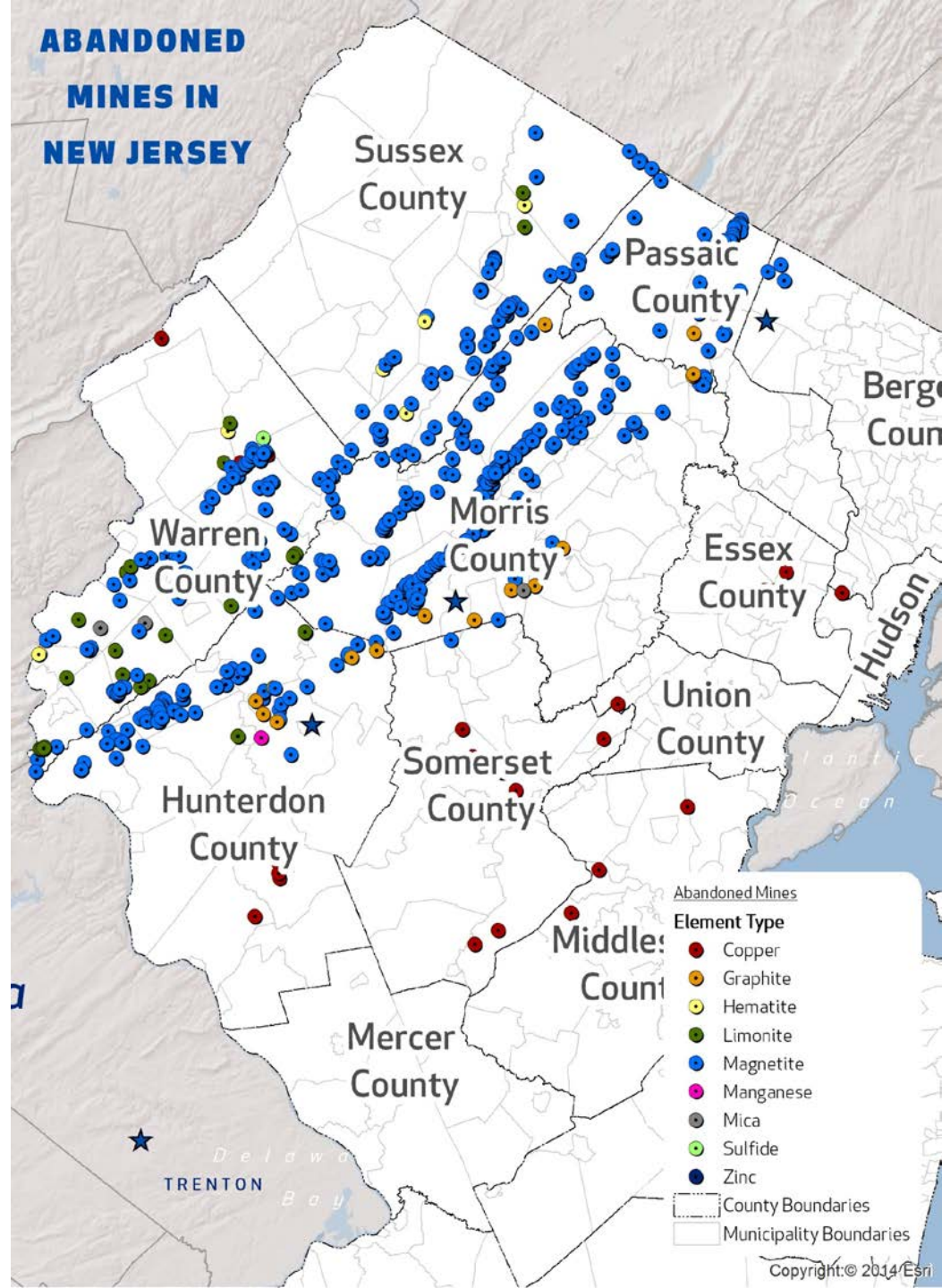


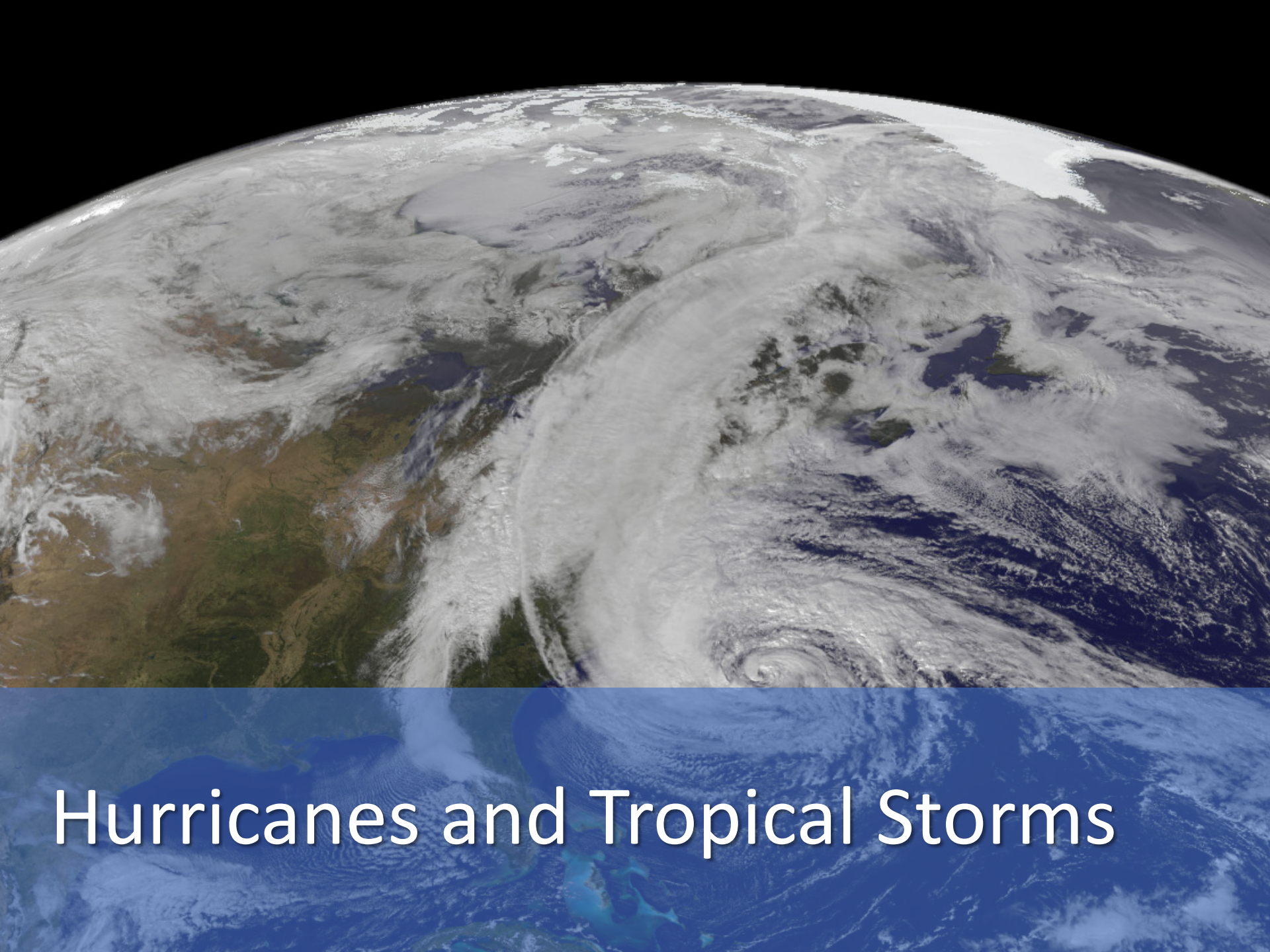
# Landslide Susceptibility





# Abandoned Mines in New Jersey

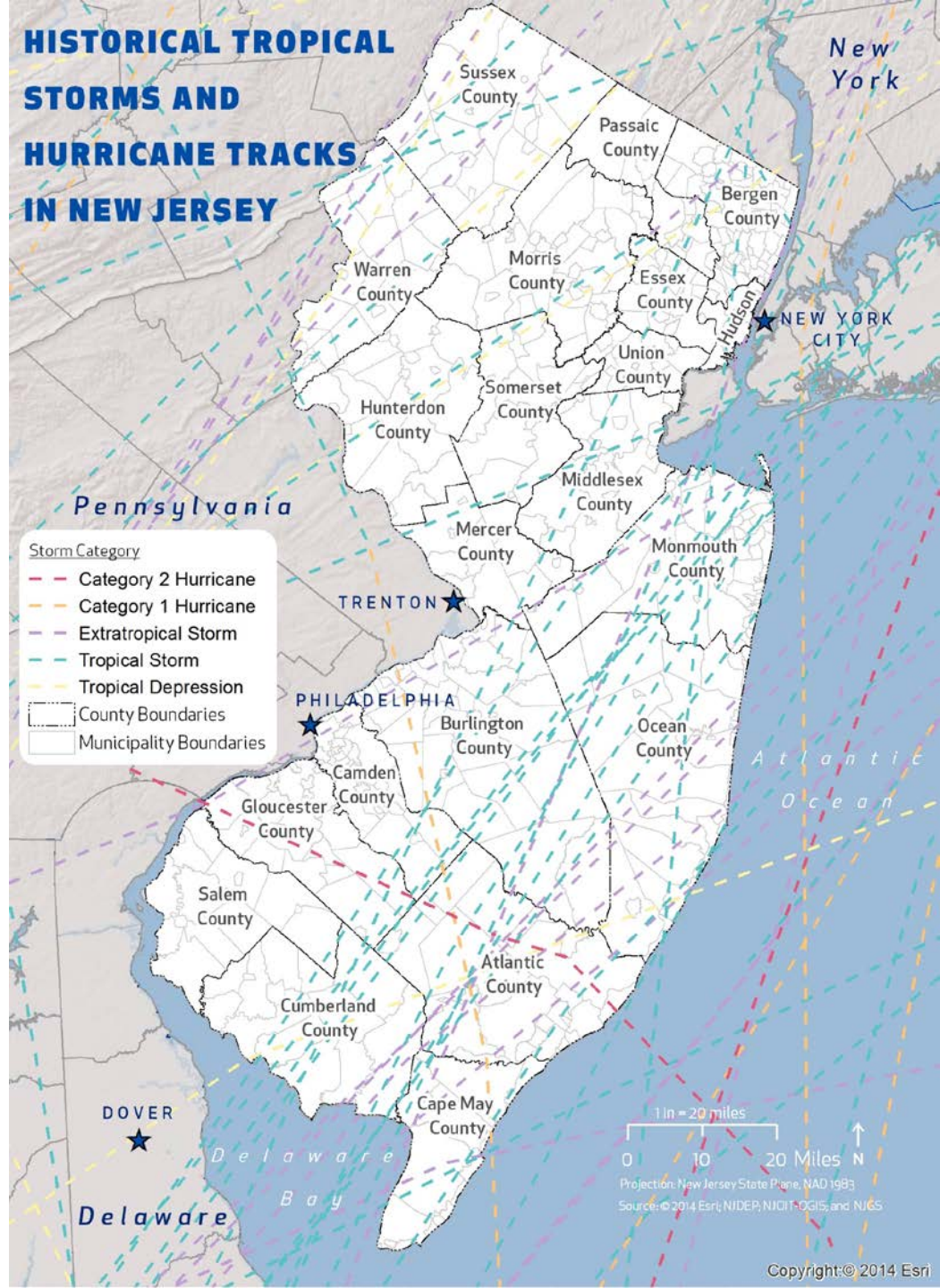




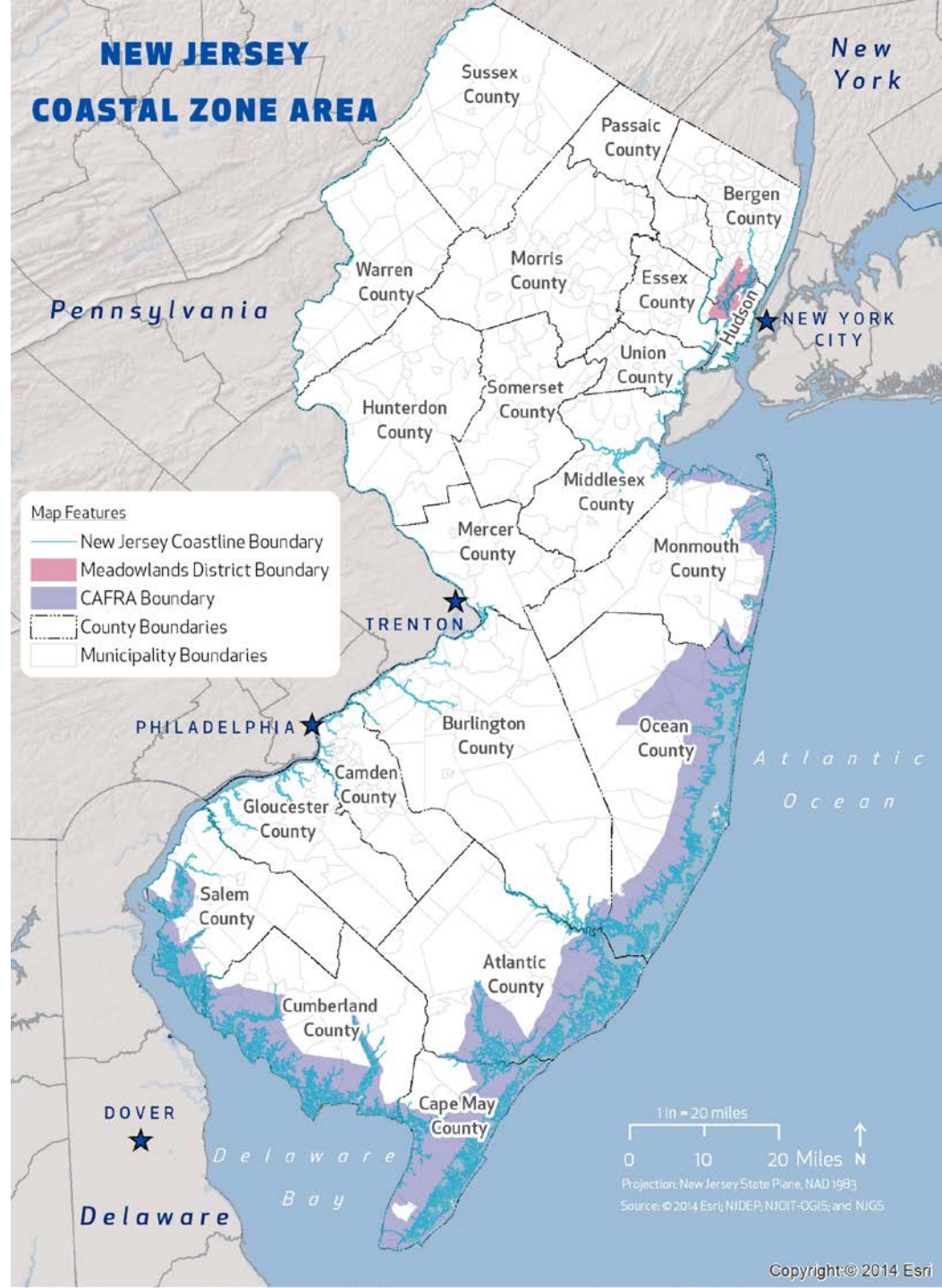
# Hurricanes and Tropical Storms



# Tropical Storms and Hurricane Tracks

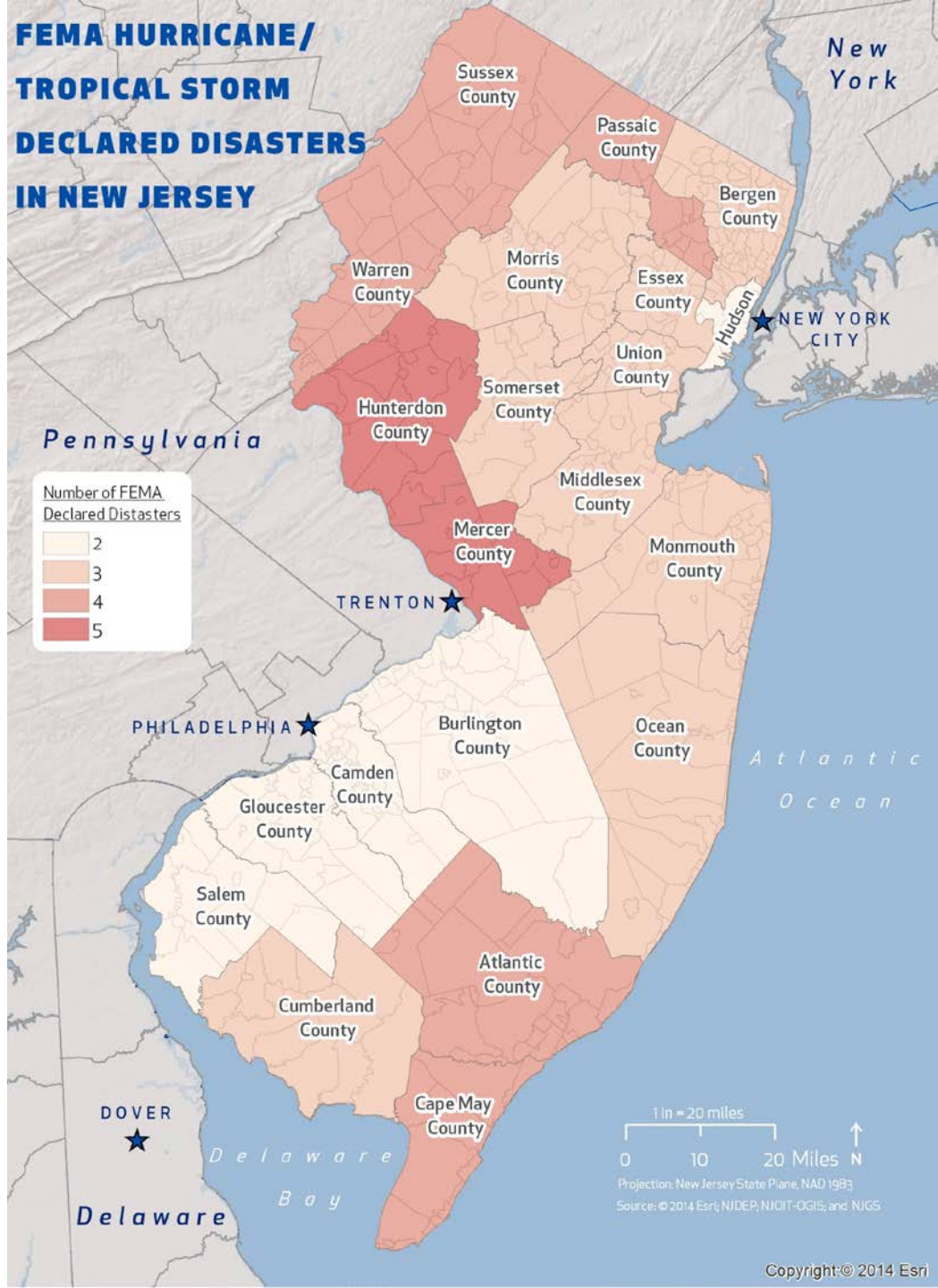


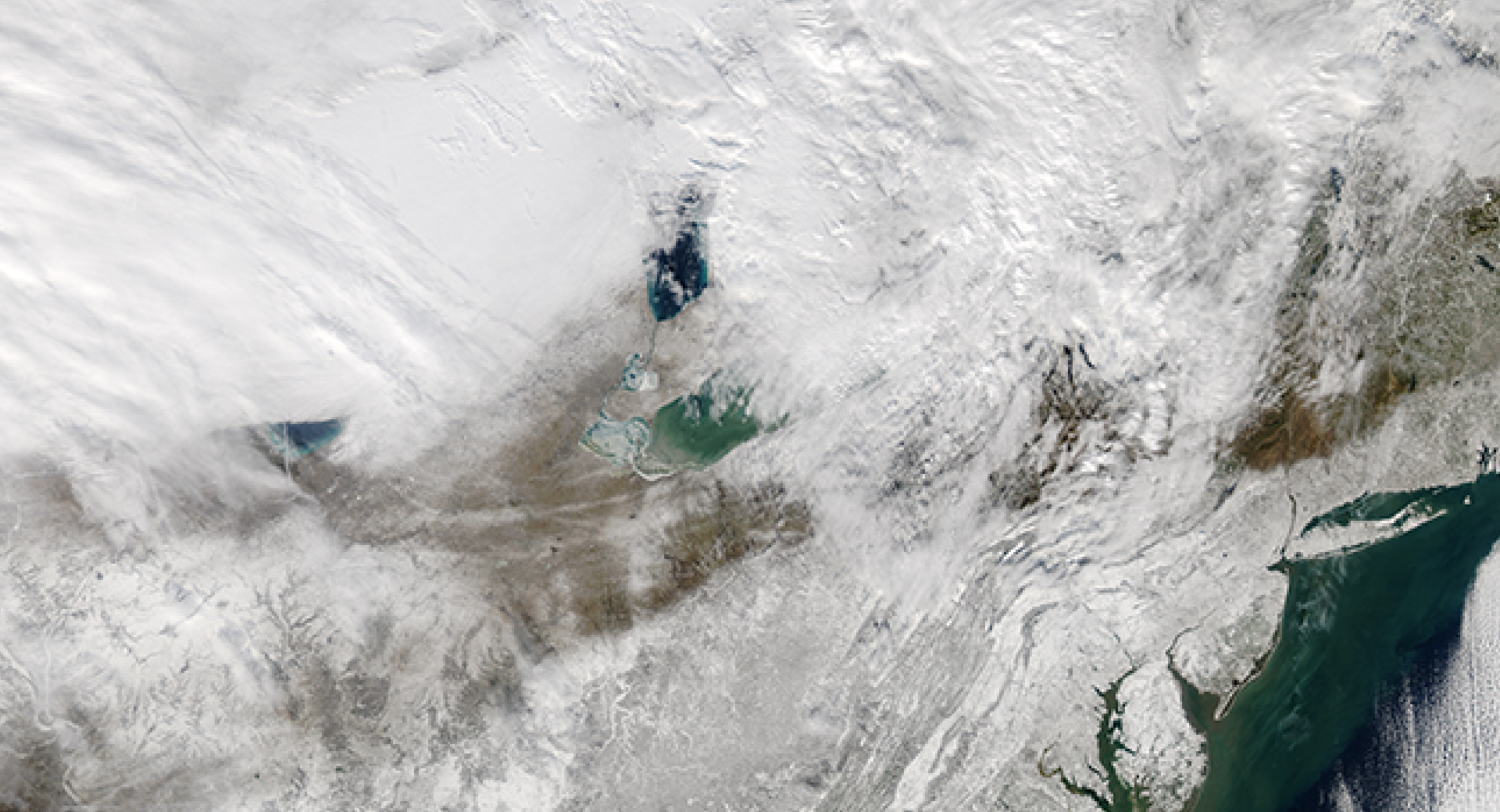
# Coastal Zone Area





# FEMA Tropical Storm/Hurricane Disaster Declarations



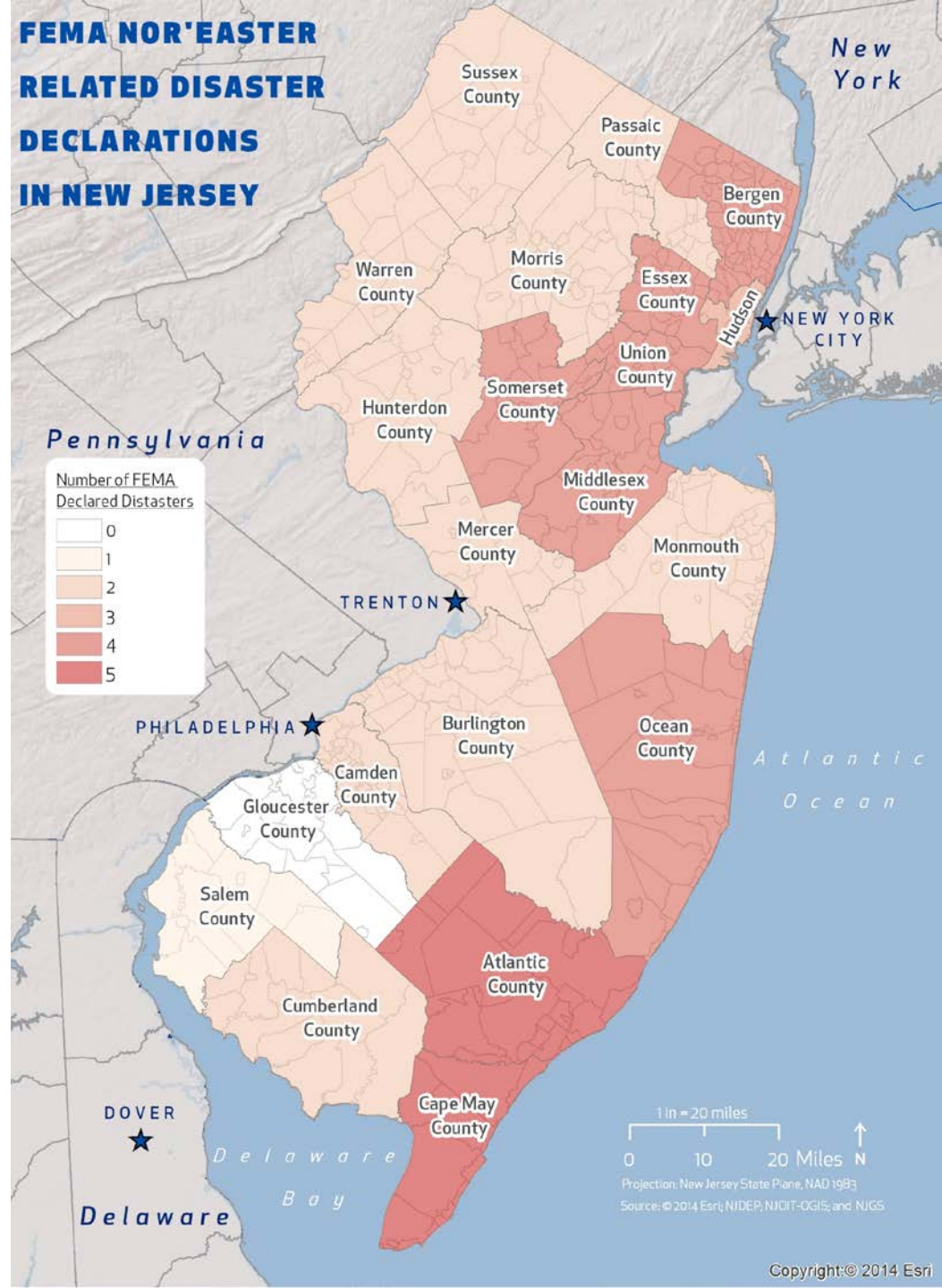


Nor'easter

200 km



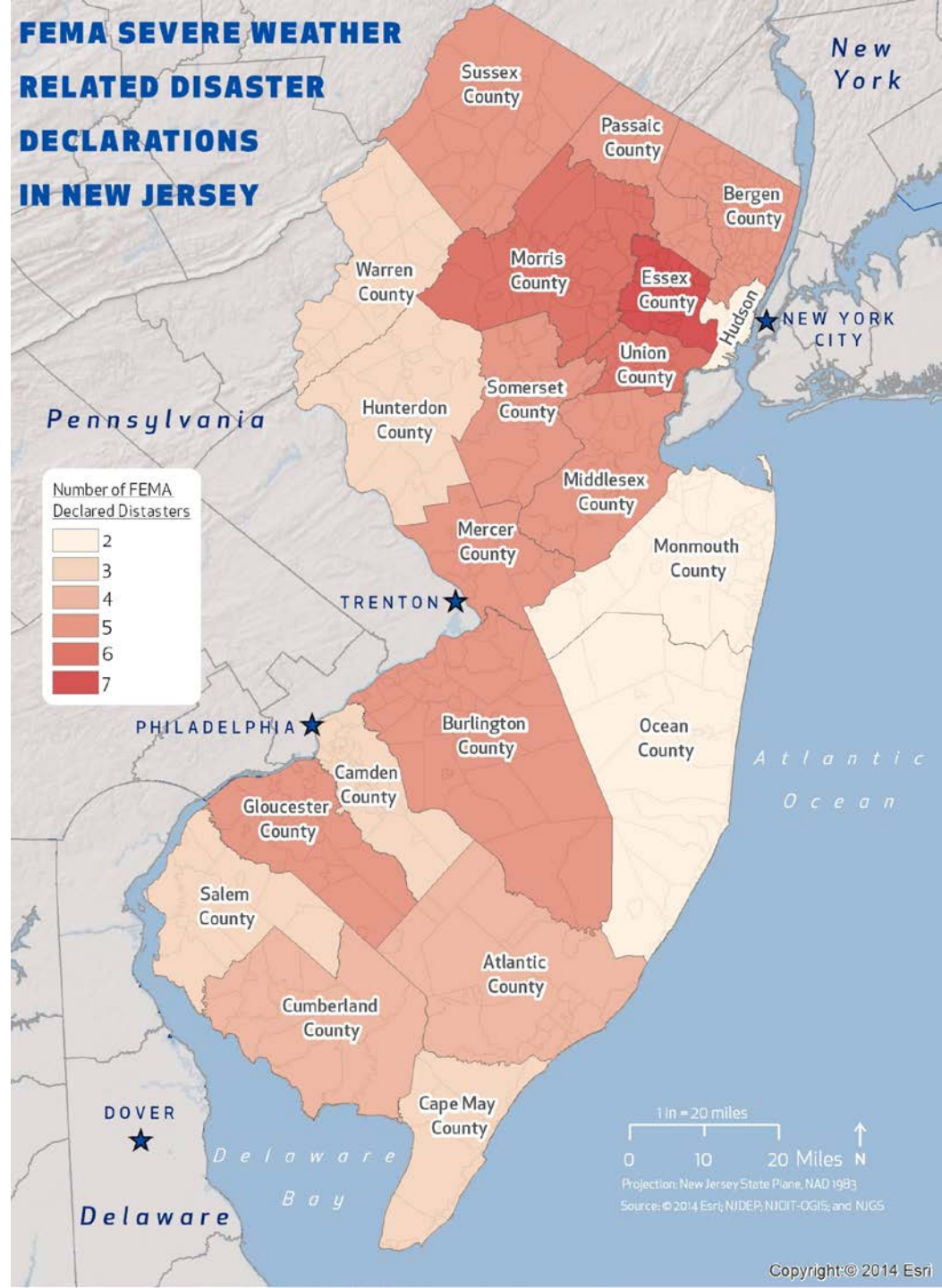
# FEMA Nor'easter Related Disaster Declarations





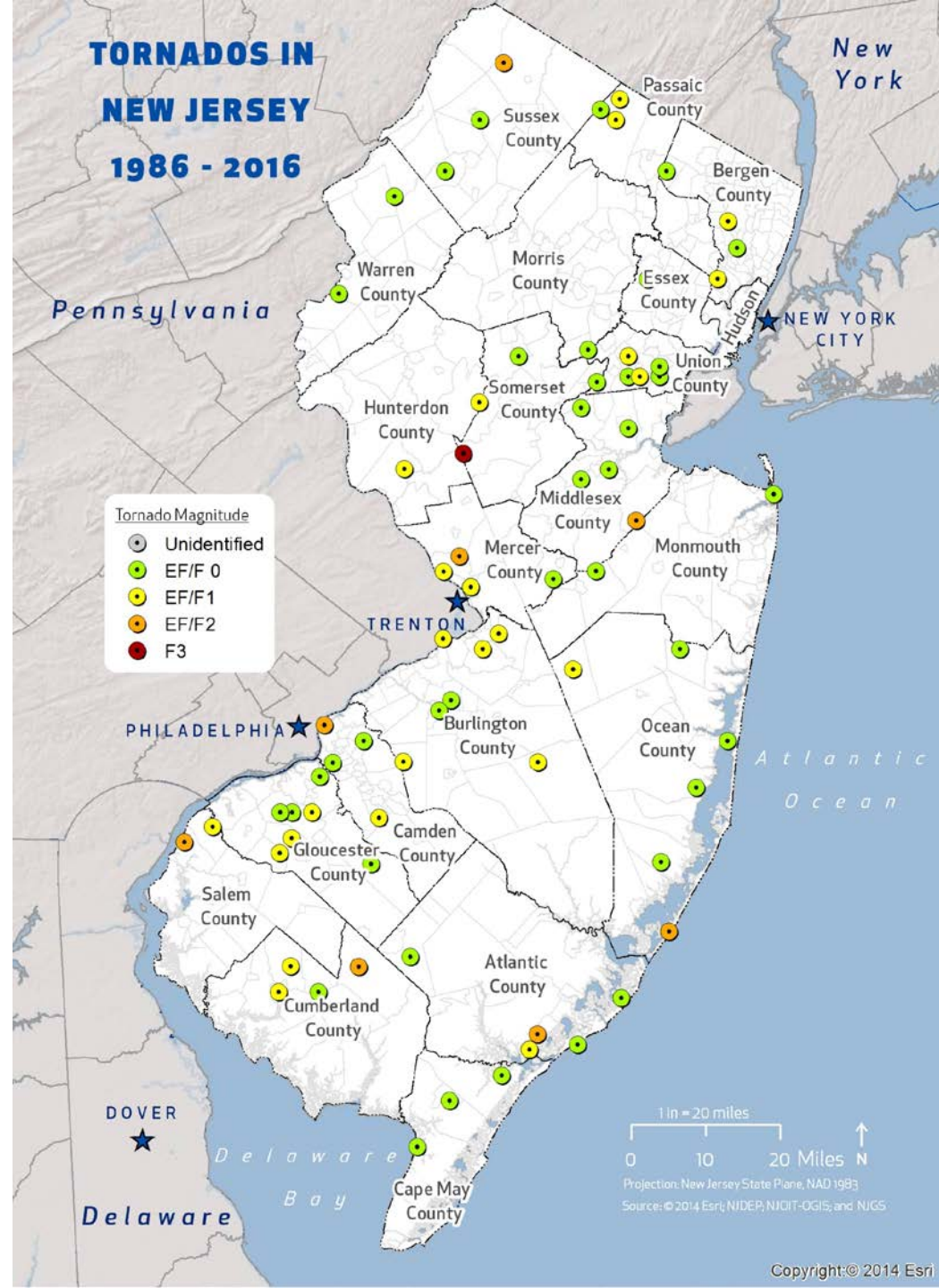
Severe Weather

# FEMA Severe Weather Related Disaster Declarations



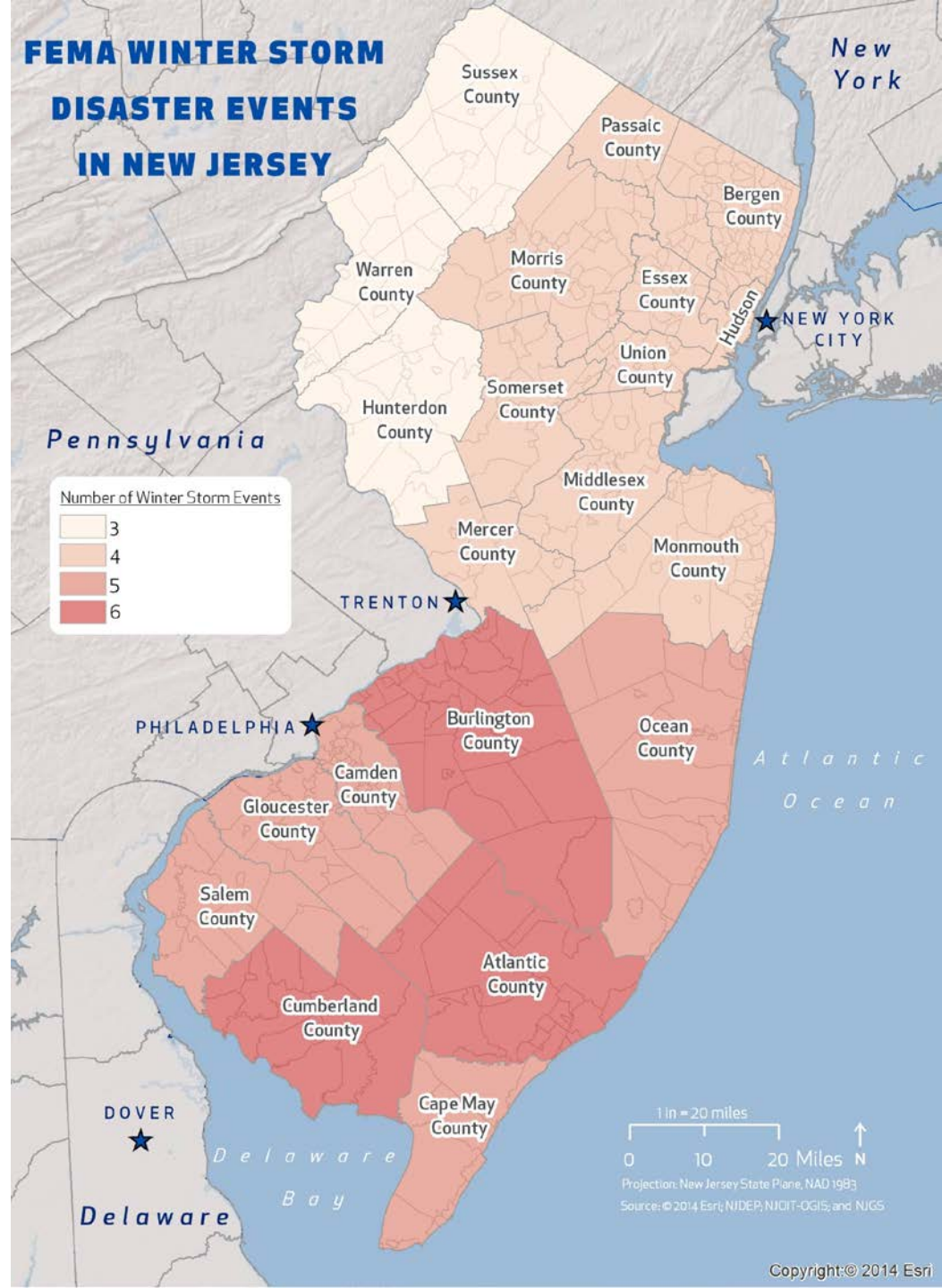


# Tornados (1986-2016)





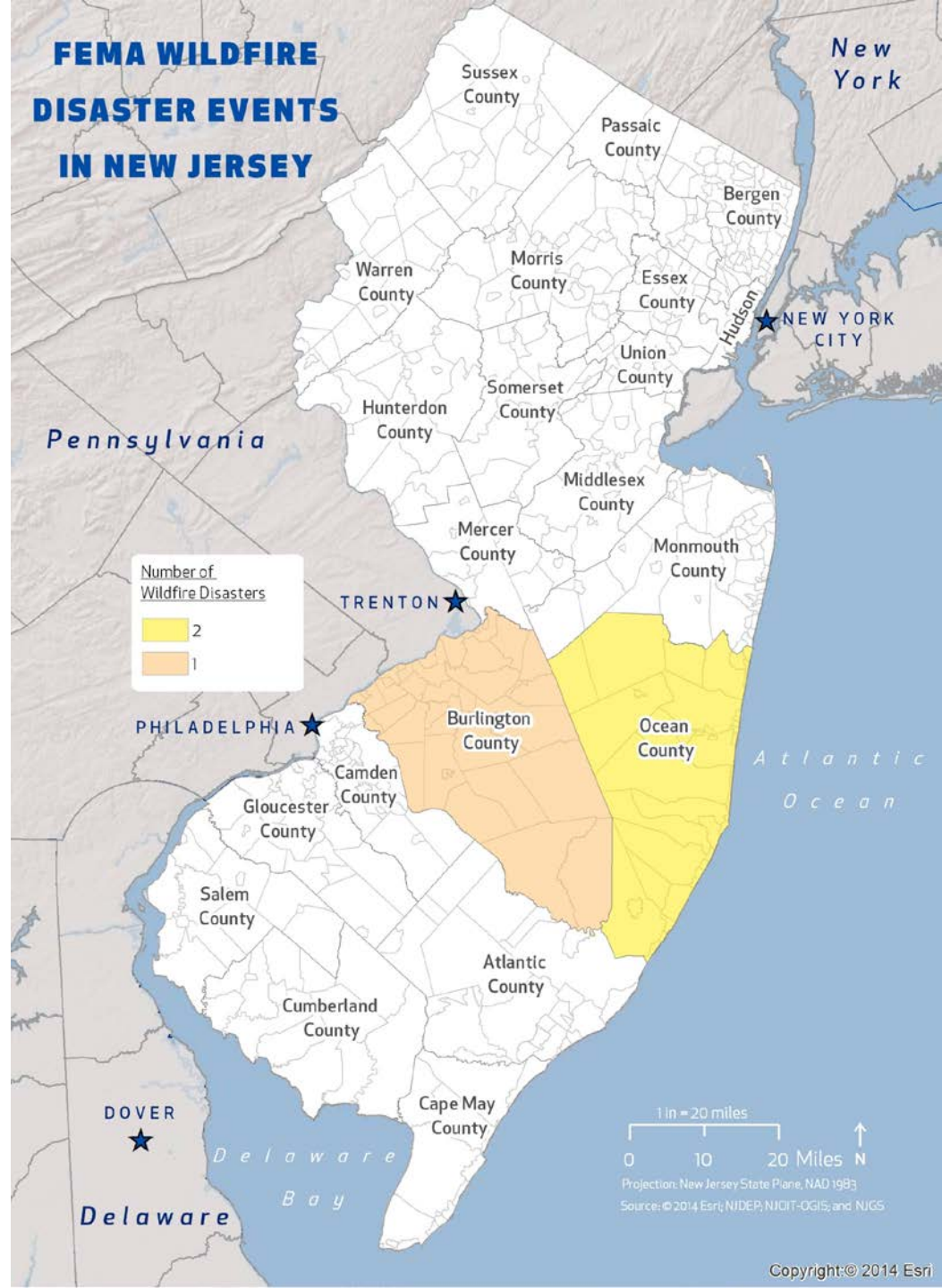
# FEMA Winter Storm Disaster Declarations





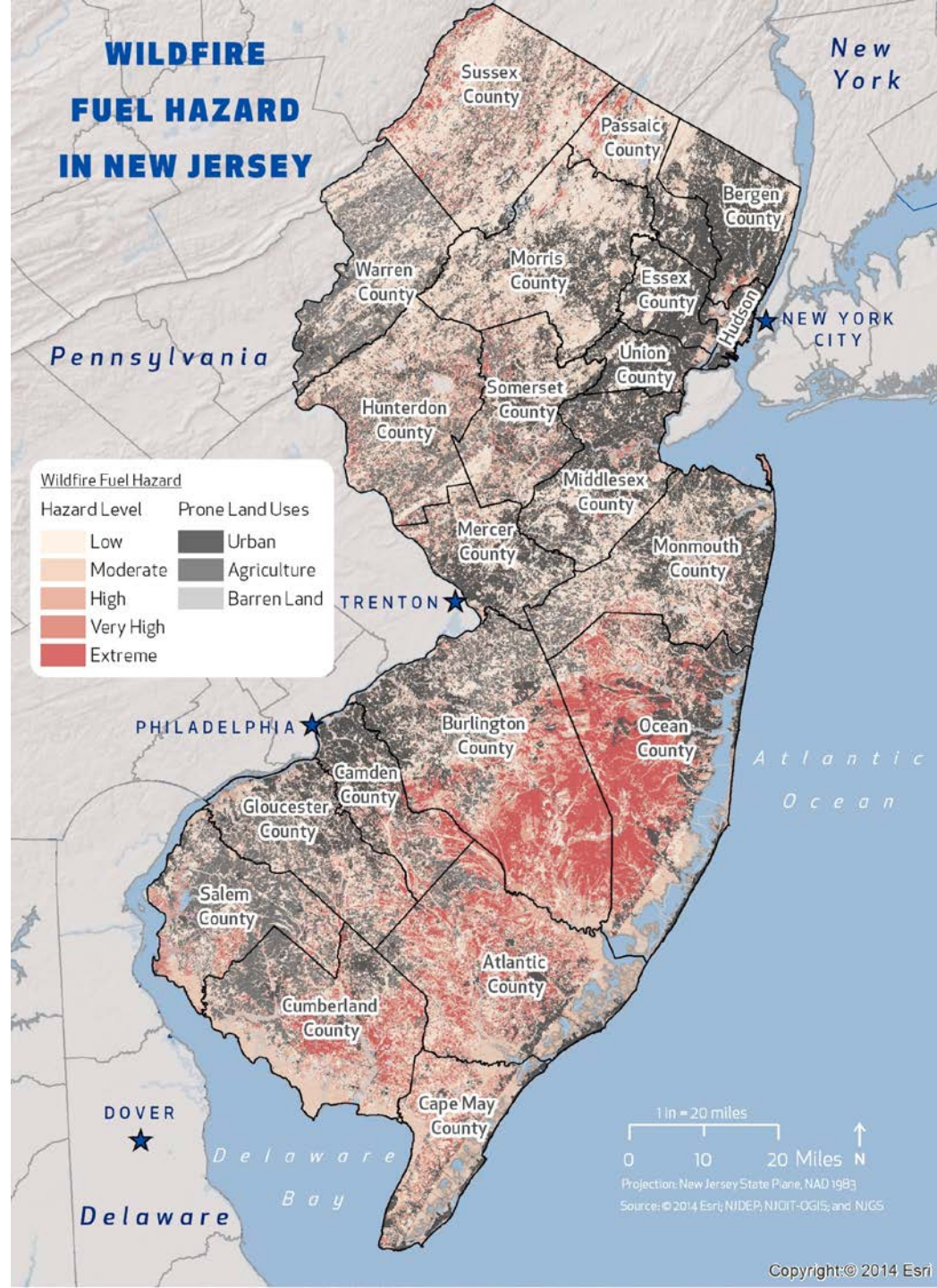
Wildfire

# FEMA Wildfire Disaster Declarations



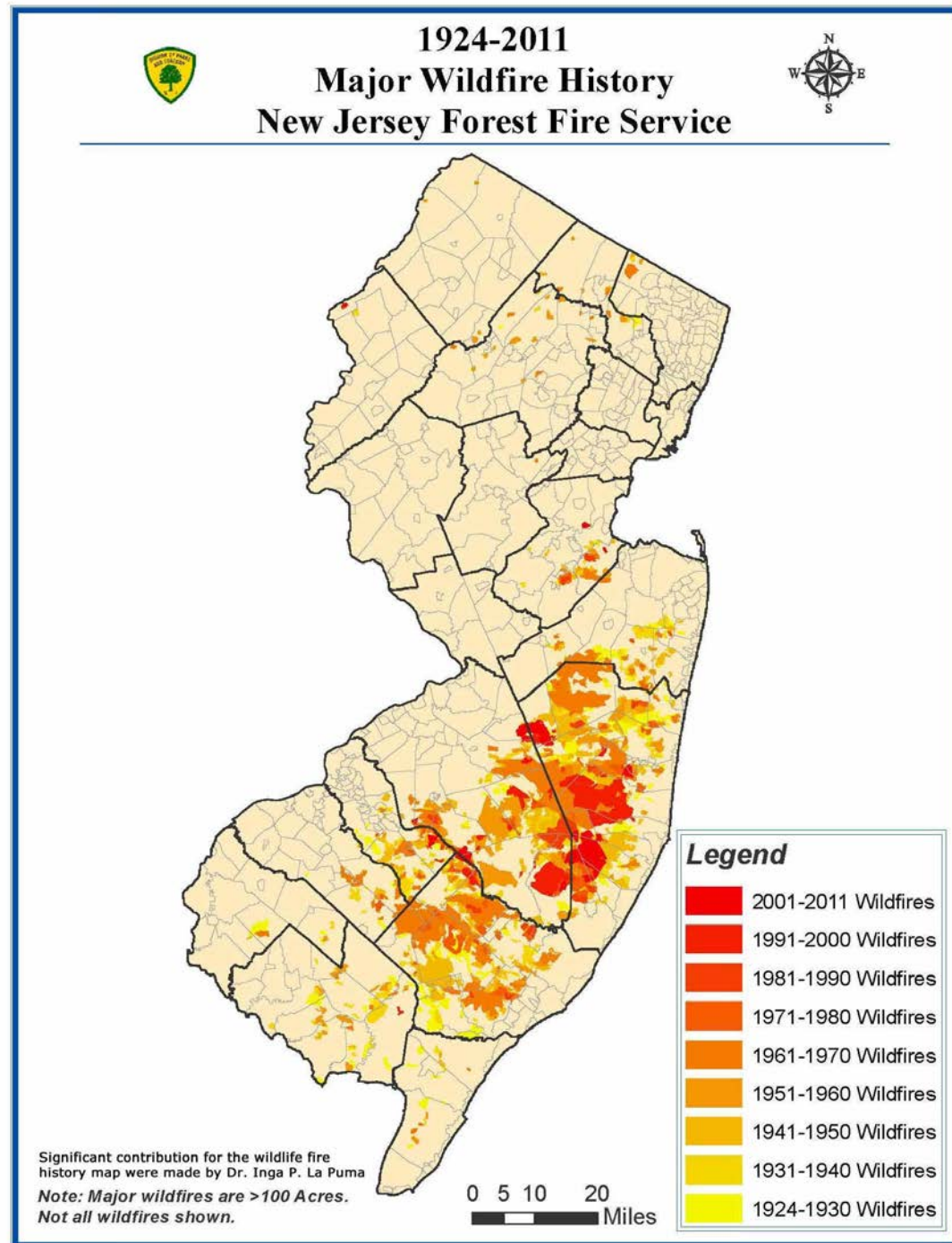


# Wildfire Fuel Hazard

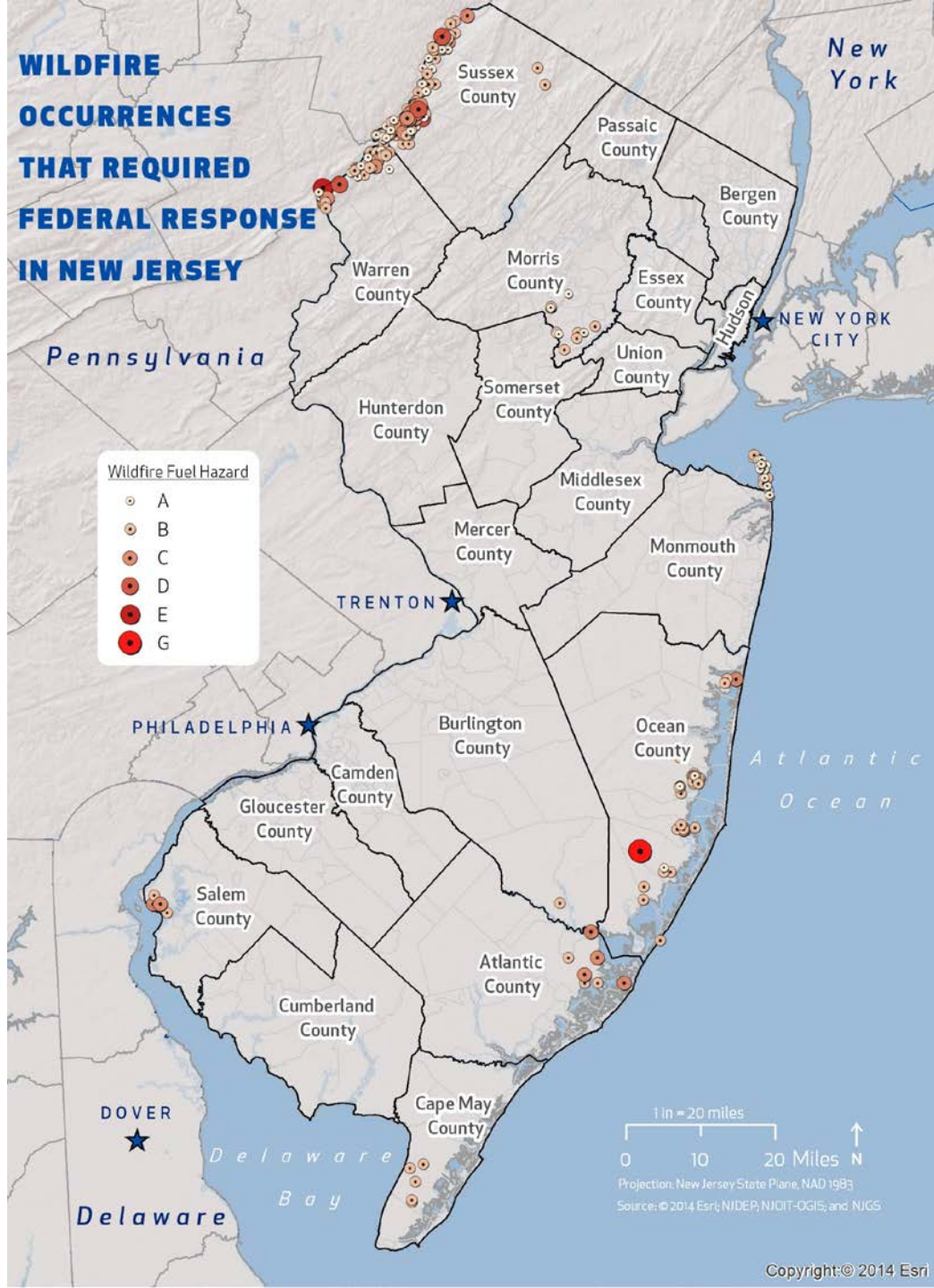




# Major Wildfire History



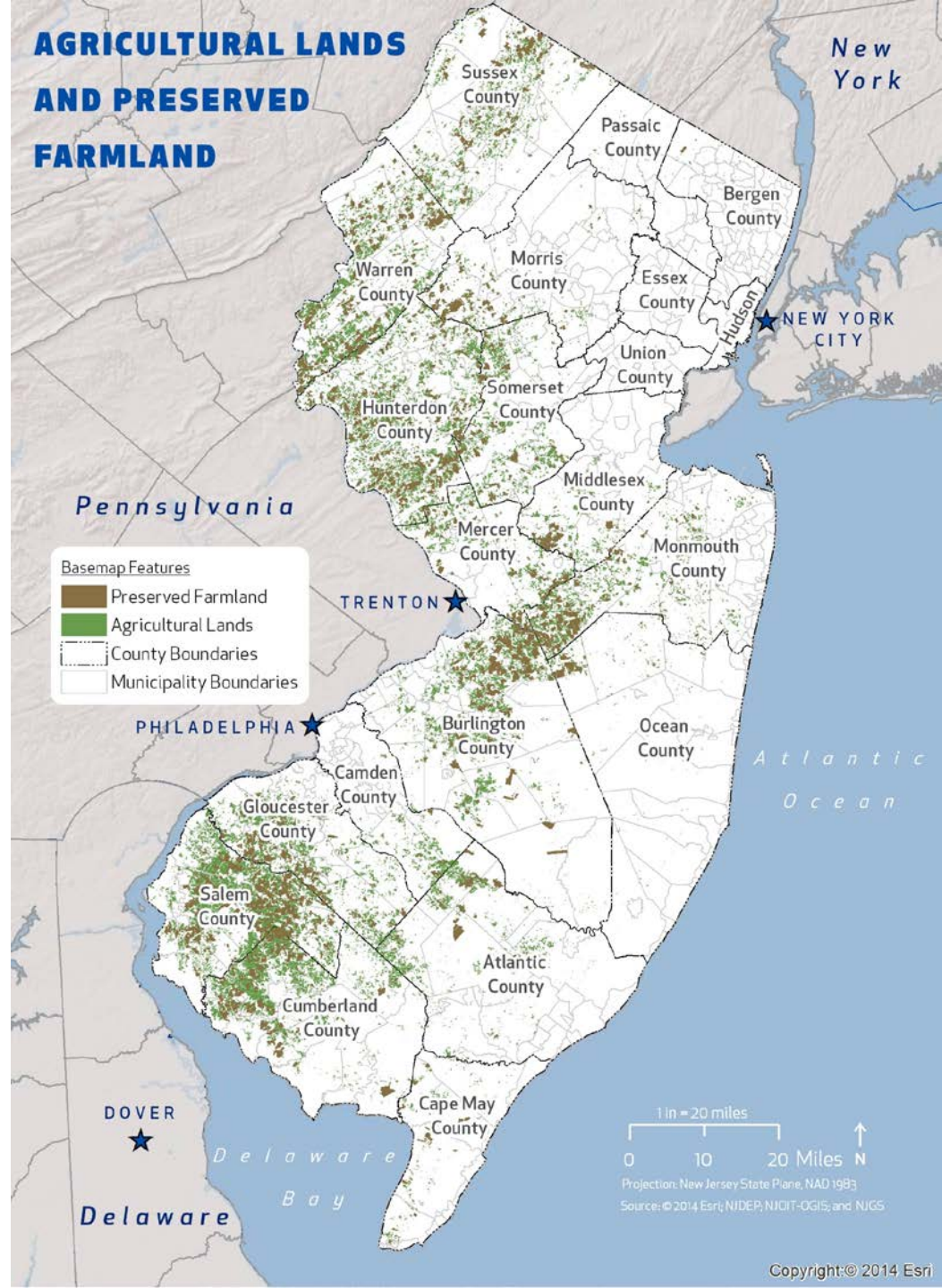
# Wildfire Occurrences that Required Federal Response



Animal Disease/Crop Failure

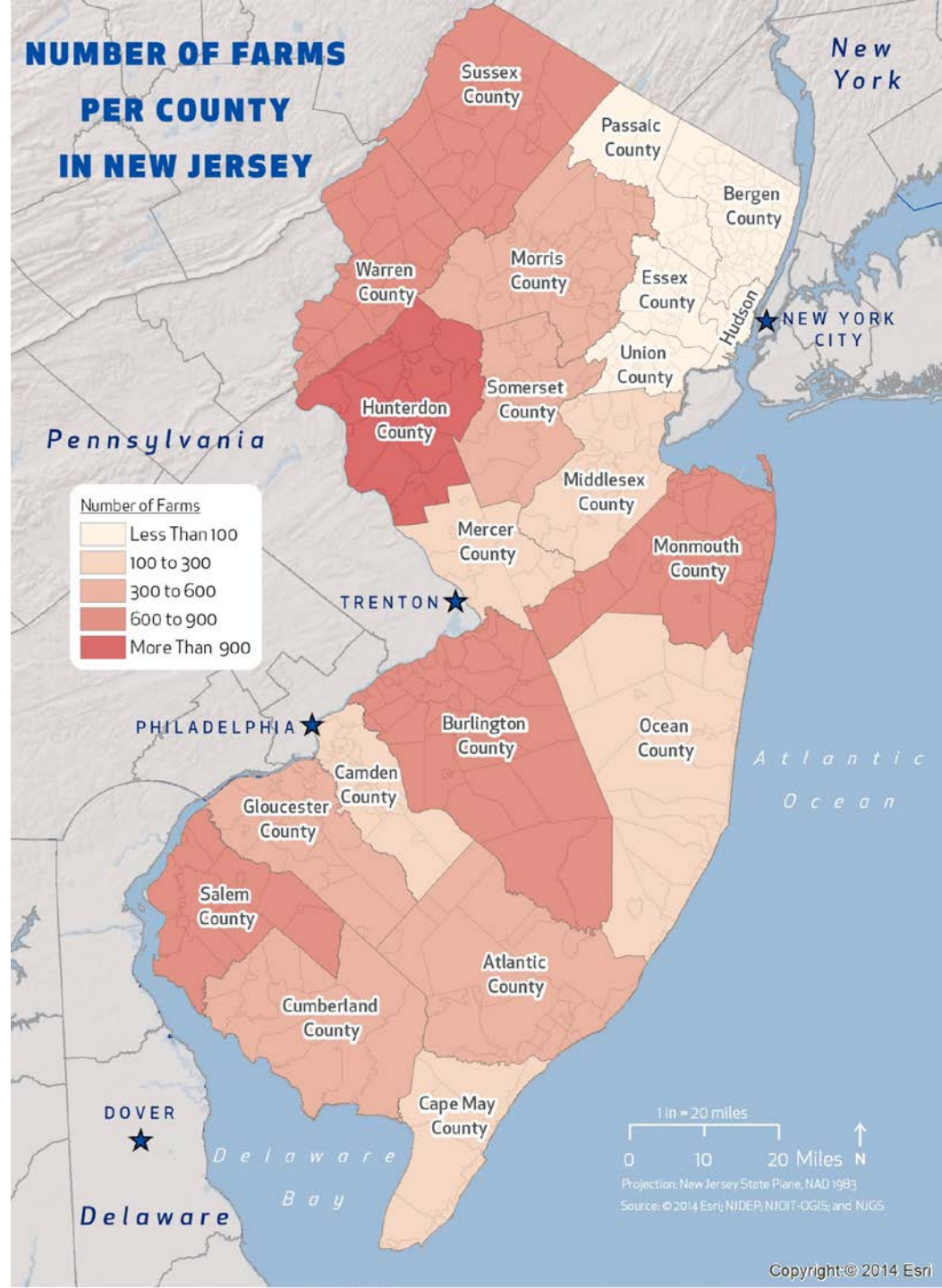


# Agricultural Lands and Preserved Farmland

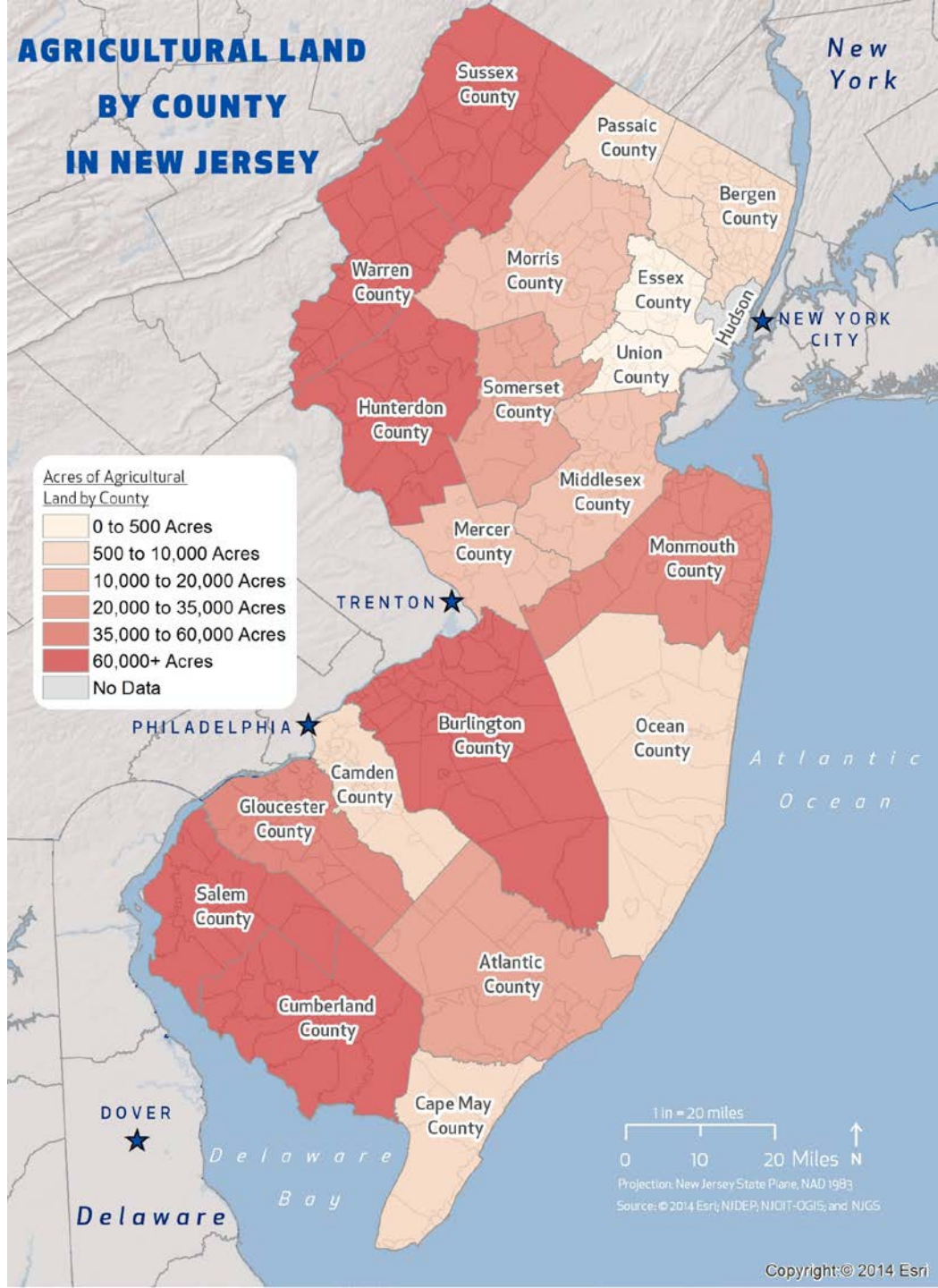




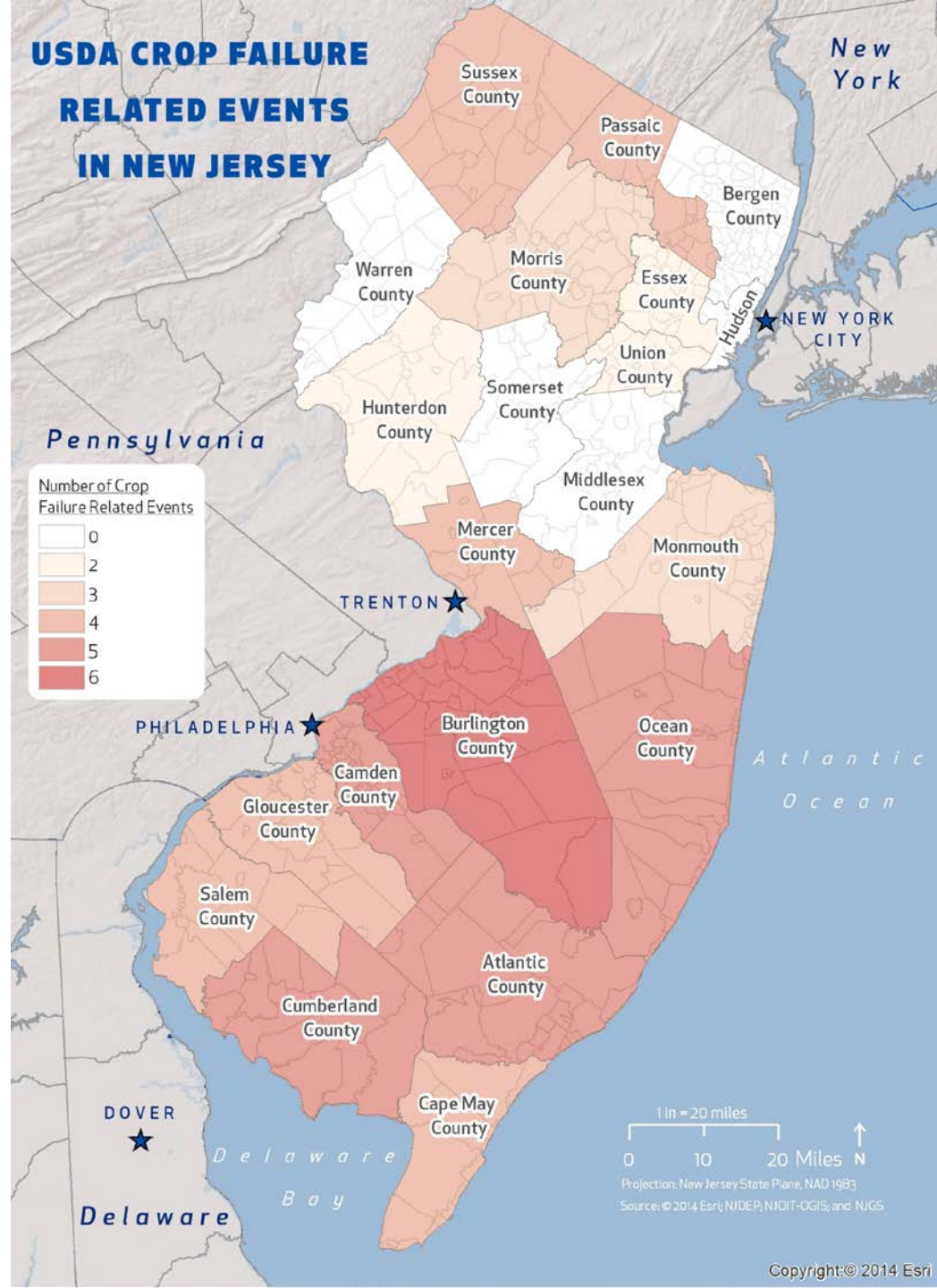
# Number of Farms Per County



# Agricultural Land by County



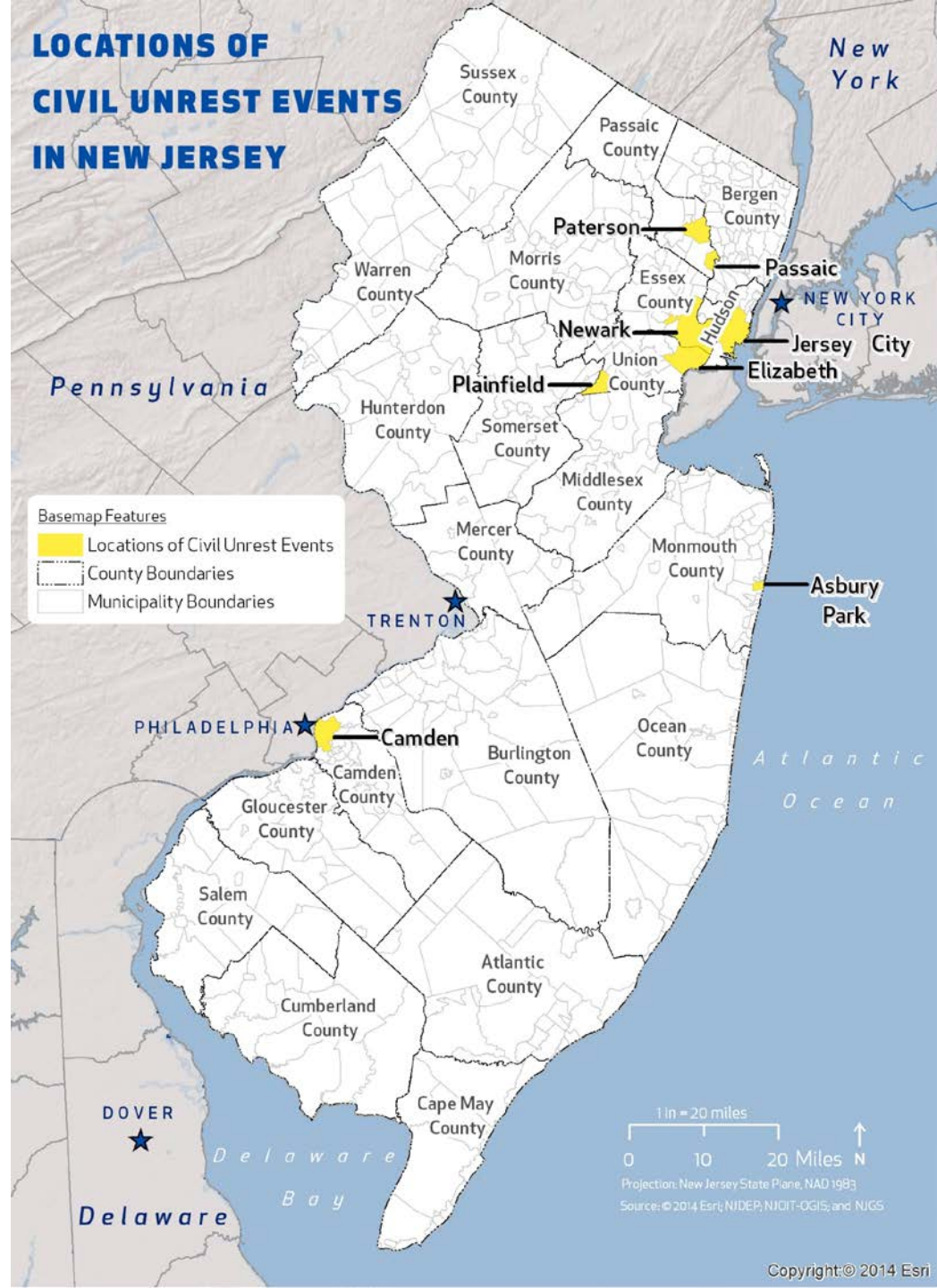
# USDA Crop Failure Related Events



Civil Unrest

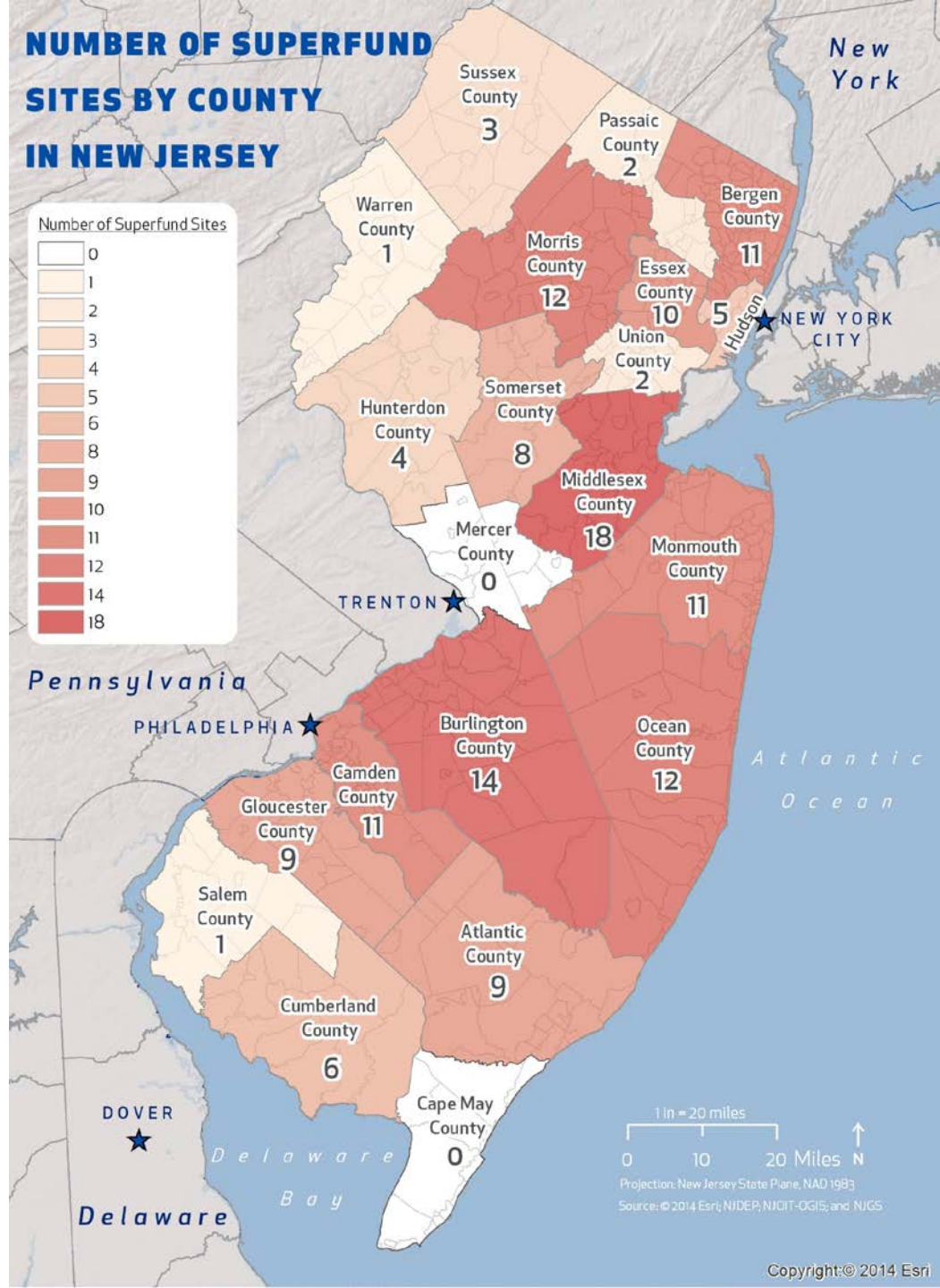


# Locations of Civil Unrest Events



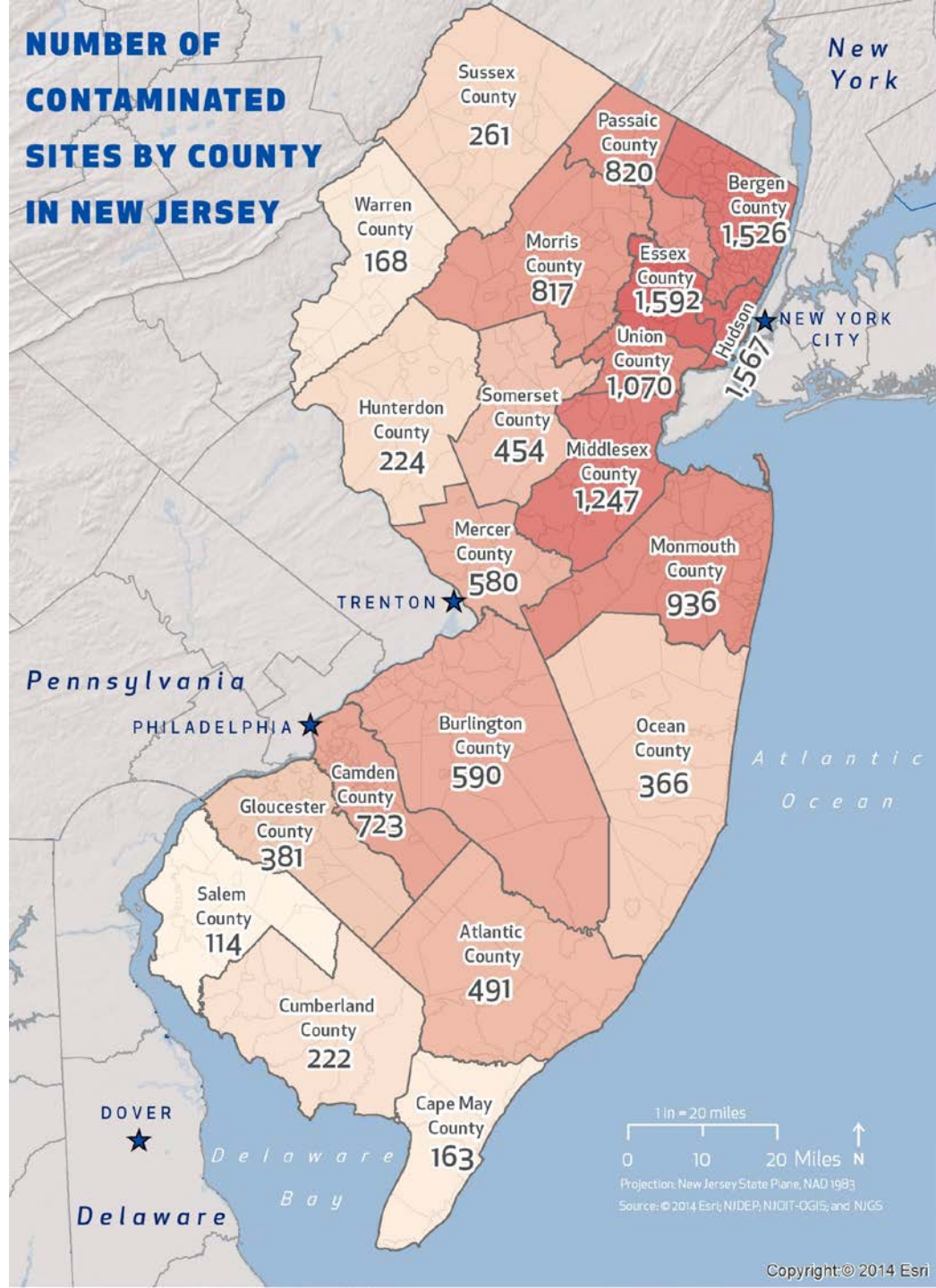
# Hazardous Substances

# Number of Superfund Sites by County





# Number of Contaminated Sites by County

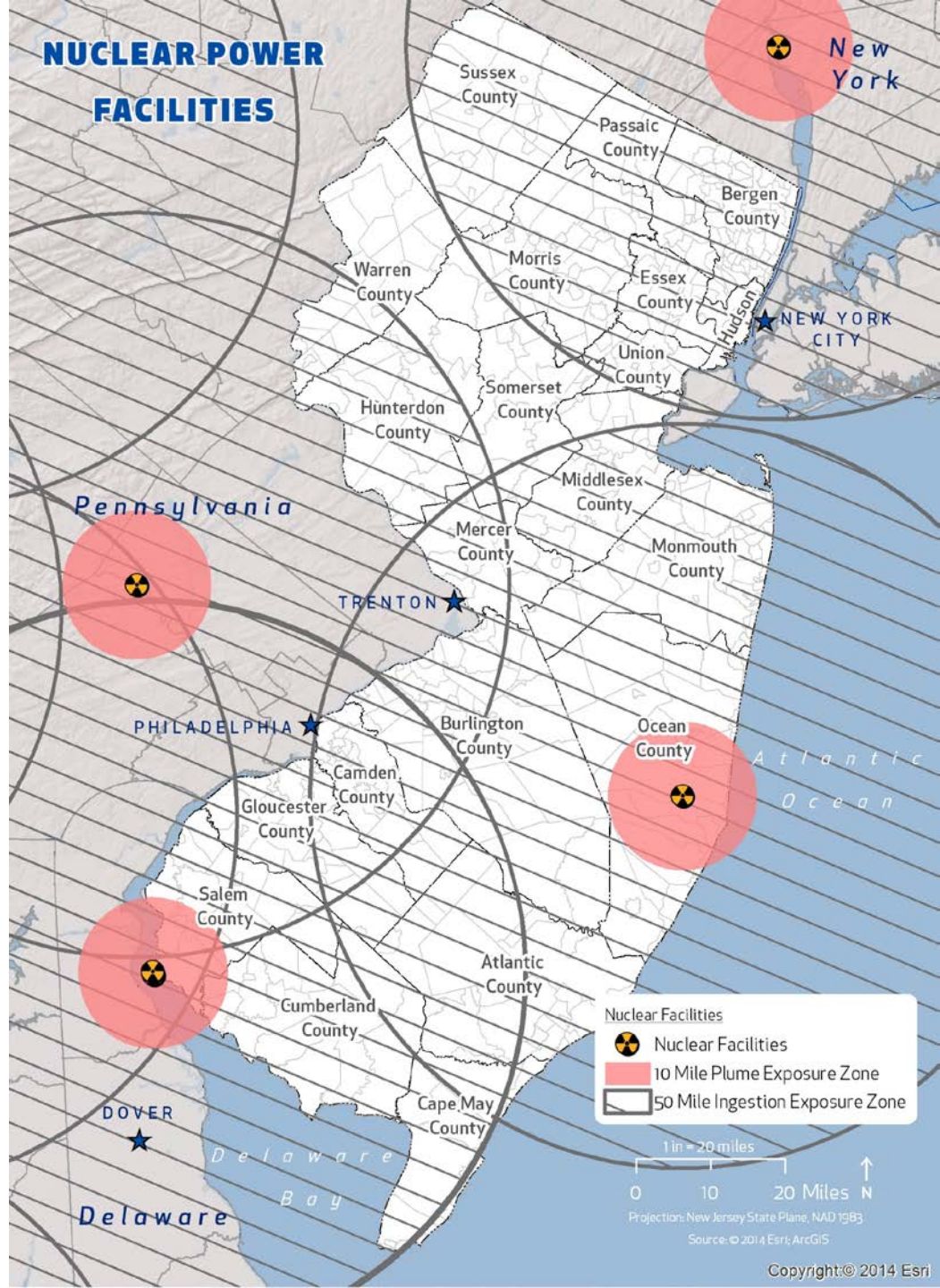






Nuclear Hazard

# Nuclear Power Facilities



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Environmental Protection

**Date:** March 26, 2018

**Time:** 9 am

### **Minutes/Notes:**

#### **Welcome and Introductions**

- Chris Testa gave opening remarks and commented on the following:
  - Hazard mitigation is the effort to reduce loss of life and property by lessening the impact of disasters. State, tribal, and local governments engage in hazard mitigation planning to identify risks and vulnerabilities associated with natural disasters, and develop long-term strategies for protecting people and property from future hazard events.
  - The State Hazard Mitigation Plan updates every 5 years and we are going on to our 3<sup>rd</sup> time updating it.
  - This is an opportunity for a shared agenda and to interconnect not only the different divisions within this state agency, but to interconnect with all state agencies.
  - The NJ Office of Emergency Management wants to make disasters feel like inconveniences rather than devastating events for the public.
  - Today we are looking over the past 5 years and what your division accomplished, set up in place for the future, and what your needs are to improve hazard mitigation planning.
  - Items that have helped you manage disaster situations will be added to your capability assessment and items that your division needs assistance with can be worked into mitigation actions.
    - Mitigation Actions are specific action, project, activity, or process taken to reduce or eliminate long term risk to people and property from hazards and their impacts. The State capability assessment presents: The State's pre- and post-disaster management policies, programs, and capabilities; an analysis of State funding opportunities to directly support hazard mitigation; and a summary of new programs and changes in State capabilities.
  - This plan update The State of New Jersey is focusing on intertwining climate change into each hazard when applicable. We would like to hear each group's input on Sea Level Rise projections data that they may be using or their input on the best available data out there. We are currently using Rutgers's data from NOAA.



## NJDEP Site Remediation and Waste Management

**Date:** March 26, 2018

**Time:** 9:00am – 10:00am

### **Attendees:**

Name	Organization	Title	Email
Robin Heston-Murphy	NJDEP-DSHW	Env. Specialist 4	robin.heston-murphy@dep.nj.gov
Bill Linder	NJDEP-RRP	Manager	william.lindner@dep.nj.gov
Tom Byrne	NJDEP DSHW	Section Chief	<a href="mailto:Tom.byrne@dep.nj.gov">Tom.byrne@dep.nj.gov</a>
Michael Kolber	NJDEP-OCLUP	Planner	<a href="mailto:Michael.kolber@dep.gov.nj">Michael.kolber@dep.gov.nj</a>
Matt Warren	NJDEP- OCLUP	Env. Trainee	<a href="mailto:Garrett.warren@dep.nj.gov">Garrett.warren@dep.nj.gov</a>
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### **Minutes/Notes:**

#### **Opening Remarks:**

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### **Capabilities Discussed During the Meeting:**

- There is a Disaster Debris Management Planning Toolkit for NJ Municipalities available.
- Debris Management Plan
  - General Debris Handling and Waste Prioritization
  - Temporary Staging Areas for Vegetative and Waste Debris
  - Emergency Debris Removal & Transportation Contracts
  - Communications and information resources for local officials, residents, and businesses
  - Personnel Training
- Technical Guidance: Planning for and Response to Catastrophic Events at Contaminated Sites
- The Department strongly encourages municipalities to act now to select areas that would be suitable for temporary staging of both construction and demolition storm debris and vegetative debris and to have those areas pre-approved by the Department. Or you can also work with your county's solid waste planner to develop a regional TDMA.
- Community Development Block Grant Disaster Recovery (CDBG-DR) Action Plan and Amendments
- The dirty dirt debris piles can have serious environmental and public-health threats. These piles can then be washed into major water sources.
  - Right to Know sites and Hazmat database - playbook now exists for post disaster cleanup - became new national standard per HUD
  - Kim McEvoy - has HUD information



**Mitigation Actions Discussed During the Meeting:**

- Understanding of how the waste management facilities work post disaster - private sector partners
  - 13 landfills - 12 publicly operated - county operated
  - Backup Generators for sites that manage waste post disaster.
- Tracking of dirty debris piles/floodproofing hazardous waste sites
- GIS inventory of solid waste facilities
  - Which solid waste facilities could be at risk of flooding?
  - Which properties need to be identified so that they can be hardened or have flood walls? --> Some of these properties are private companies, while other facilities are part of the private sector.
- Governor State of Emergency plus Commissioner Approval needed for Temporary Debris Management Area (TDMA) –
  - need to add 90 days minimum (326 sites after sandy)/retroactive approval
- Outreach for each county to adopt their own Debris Management Plan
  - County Debris Management Plan - template exists
- Need tracking mechanisms for
  - DOT Closure Maps
  - DOT Coordination for where they can go or not? Where is the network down?
    - Rail dependency
      - Hurricane Irene and Hurricane Sandy were 2 different storms. Debris was worse during Irene, it did not improve during Sandy, but rail was available to transfer it. We need better access to knowing which rail systems will be able to commute to sites during an event.
    - Transfer Stations – need to be floodproofed or relocated out of the floodplain

## NJDEP Engineering and Construction

**Date:** March 26, 2018

**Time:** 10:00am – 11:00am

### **Attendees:**

Name	Organization	Title	Email
John Moyle	NJDEP Flood Control	Director	<a href="mailto:John.moyle@dep.nj.gov">John.moyle@dep.nj.gov</a>
Joseph Ruggeri	NJDEP Flood Control	Engineer	<a href="mailto:Joseph.ruggeri@dep.nj.gov">Joseph.ruggeri@dep.nj.gov</a>
Georgeann Gary	NJDEP Coastal Engineering	Admin Analyst	<a href="mailto:Georgeann.gary@dep.nj.gov">Georgeann.gary@dep.nj.gov</a>
John Ritchey	NJDEP Flood Control	Manager	<a href="mailto:John.Ritchey@dep.nj.gov">John.Ritchey@dep.nj.gov</a>
Erick Doyle	NJDEP Coastal Engineering	Manager	<a href="mailto:Ericke.doyle@dep.nj.gov">Ericke.doyle@dep.nj.gov</a>
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	<a href="mailto:Paige.kaspar@mbakerintl.com">Paige.kaspar@mbakerintl.com</a>
Chris Testa	NJOEM	Project Manager	<a href="mailto:lpptestc@gw.njsp.org">lpptestc@gw.njsp.org</a>

### **Minutes/ Notes:**

#### **Opening Remarks:**

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### **Capabilities Discussed During the Meeting:**

- Guidelines available for developing an Emergency Action Plan- Dam Safety
- Outreach program exists for Dam Safety
- Sea Level Rise - DEP has not adopted anything standards for projections
- Allocated Community Development Block Grant – Disaster Recovery (CDBG-DR) funding from the US Department of Housing and Urban Development (HUD) to fund projects or improvements that reduce storm surge or flood risk.
  - Kim McEvoy - Follow-up to get more information
- USACE - HATS, Back Bay Study
  - Coastal engineering group
- FEMA to do audit of self-insured States
- DEP had EAPs that impact the jurisdiction
- Pequannock Floodway expansion

#### **Mitigation Action Ideas**

- CRS - create database where communities could upload their information - SDs, Flood Permits, Elevation Certs, etc. Project to determine the list, as well as tracking the list
  - What SDs have not been mitigated? 4500 vs 620
  - FMA List -
  - Local FPM has the most up to date info and that is hard to keep track of
    - SD update needed for applications?
- Dam Safety
  - Digitize the Location of all dams
  - Enhance Dam Emergency Planning and Risk and Vulnerability Analysis
    - Inundation Boundary maps
    - Emergency Action Plans for Each Dam
- Database for coastal assessments pre- and post, lot of beach infill (almost all)
  - Sea Bright / Monmouth Beach Seawall - still maintain mostly
  - Absecon Jetty
- Consider not using public funding to elevate structures in the V-Zone

## NJDEP Land Use Management

**Date:** March 26, 2018

**Time:** 11:00am – 12:00pm

### Attendees:

Name	Organization	Title	Email
Nancey Fury	NJDEP LUM	AC REEP	Nancy.fury@dep.nj.gov
Kim Springer	NJDEP LUM	Manager OPI	Kim.springer@dep.nj.gov
Sam Baldeo	NJDEP LUM	AA2	Sam.baldeo@dep.nj.gov
Kelly Pflicke	NJDEP LUM	Senior Planner	Kelly.pflicke@dep.nj.gov
Rebecca Hill	NJDEP LUM	Env. Specialist	Rebecca.hill@dep.nj.gov
Liz Semple	NJDEP LUM	Manager	elizabeth.semple@dep.nj.gov
Nick Angarone	NJDEP LUM	Manager	Nick.angarone@dep.nj.gov
Colleen Keller	NJDEP LUM	Assistant Director	Colleen.keller@dep.nj.gov
Craig Wenger	Michael Baker Intl	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### Minutes/Notes:

#### Opening Remarks:

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### Capabilities Discussed During the Meeting:

- FRAMES integration into State and County Hazard Mitigation Planning is needed
- HUD funding is integrated into Hazard Mitigation Plan
- FEMA's Environmental Planning and Historic Preservation (EHP) program reviews have been critical to hazard mitigation and recovery.
- Department participates in Emergency Plans and FEMA Trainings
- Sea Level Rise – DEP has not adopted an official sea level rise projection. Have no objections to the Rutgers Study on Sea Level Rise.
- U.S. Army Corps of Engineers (USACE) is conducting a New Jersey Back Bays Flood Risk Management Feasibility Study
- Office is actively involved in Resiliency Plans
- Somerset Hazard Mitigation Plan integrated into Somerset Master Plan
- Monmouth County - Beach Nourishment - USACE only included berm, not the dune
- Resilient Coastal Communities Initiative (RCCI) report - emergency response not entirely focused

#### Mitigation Actions Discussed During the Meeting:

- Permitting - Embed staff at Joint Field Office (JFO) –



- Programmatic Agreements for Project Worksheets (PW)/Public Assistance
  - How do we review the PW in a timely manner? → working on closeout
  - Someone to coordinate next steps after JFO leaves.
    - Communications post-disaster ---> SOP
    - Need for an ombudsman in the disaster - someone to sort through and coordinate the questions
    - Having a good point of contact list for each division
  - Emergency rules needed and capabilities to waive certain requirements during and post disaster for recovery

## NJDEP Emergency Management

**Date:** March 26, 2018

**Time:** 12:00pm – 1:00pm

### Attendees:

Name	Organization	Title	Email
Michelle Taormino	NJDEP Emergency Management	Env. Specialist,	<a href="mailto:Michelle.taormino@dep.nj.gov">Michelle.taormino@dep.nj.gov</a>
Gary Pearson	NJDEP Emergency Management	Assistant Director	Gary.Pearson@dep.nj.gov
Bob Van Fossen	NJDEP Emergency Management	Director	<a href="mailto:Robert.VanFossen@dep.nj.gov">Robert.VanFossen@dep.nj.gov</a>
Mitzi Kaiura	NJDEP Emergency Management	Planner	Mitzi.kaiura@dep.nj.gov
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### Minutes/Notes:

#### Opening Remarks:

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### Capabilities Discussed During the Meeting:

- Michelle is the POC for Emergency Management
- The New Jersey Pollutant Discharge Elimination System (NJPDES) regulations require NJPDES-permitted facilities to have an operation and maintenance manual that includes an emergency plan.
- Sherry Driver mapped infrastructure for the state including emergency response with NJDOT/rail
- Parks
  - Public assistance dollars spent on the Parks system
  - Damage assessment inventory of parks system
    - Includes infrastructure outside of the LBAM dataset
    - Damage assessments are MS Excel spreadsheet estimates that get submitted.
    - The inventory identifies the impacts regularly.
  - DEP is responsible for plowing the parks during snow events, including Nor'easters
  - Wastewater treatment facilities exist at different park sites
- Forest Fire - relies on old VHF communication systems
- DEP Fueling Facilities Plan
- Household hazardous waste management plans

- Debris management process with Hazmat Component
  - Hazardous Material Staging Area
  - Project Worksheets linked to certain items – Temporary Debris Management Agreement required
  - 79 Project Worksheets - 700 million in projects
- Mitigation vs rehabilitate
  - Bulls Island - rehabbed vs elevate
- Emergency Planning and Community Right to Know Act (EPCRA)
  - Emergency Response Plans

**Mitigation Actions Discussed During the Meeting:**

- Create and maintain a spatial damage assessment and inventory of damage to parks systems and infrastructure from hazard events.
- Assessment on the need for facilities to have generators and be made more resilient
- Debris Management with HAZMAT
  - Storage area for hazardous materials (one per county).
  - Contracts in place prior to the event - Don't want to wait for the contracting process.
    - Treasury wants to do it on an emergency basis
    - Project Worksheets getting written unilaterally - make them boiler plate
- Forest Fire response currently relies on old VHF communication systems – needs an equipment upgrade

## NJDEP Air Quality Energy and Sustainability

**Date:** March 26, 2018

**Time:** 1:00pm – 2:00pm

### Attendees:

Name	Organization	Title	Email
Jenny Goodman	BER	Manager	<a href="mailto:Jenny.goodman@dep.nj.gov">Jenny.goodman@dep.nj.gov</a>
Nancy Stanley	BER	Radiation Physicist	<a href="mailto:Nancy.stanby@dep.nj.gov">Nancy.stanby@dep.nj.gov</a>
Christine Schell	AQUES	Exec. Asst.	<a href="mailto:Christing.Schell@dep.nj.gov">Christing.Schell@dep.nj.gov</a>
Katelyn White	Coastal & Land Use Planning	Env. Trainee	Katelyn.white@dep.nj.gov
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### Minutes/Notes:

#### Opening Remarks:

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### Capabilities Discussed During the Meeting:

- Environmental Remediation
  - Nuclear hazards are included, but Dirty bombs and nuclear material licensing are not included in the program.
  - Radiation monitors/nuclear power plants
  - Program does not track if the licensees are in the floodplain
  - Storage protection - potentially a capability
  - Public education items are available
    - Social Media Campaign is a budding capability
- Fuel Tool kit
- Generators - Permit process is a capability
- National Ambient Air Monitoring
  - Air monitoring system throughout the state. State owned – damaged in Sandy
  - Air Pollution Control Code
  - Air Administrative Procedures and Penalties
  - Sampling and Analytical Procedures
- Climate Change
  - Governor came out with executive order on greenhouse gases
  - National Climate Assessment
  - Energy Master Plan speaks on climate change



**Mitigation Actions Discussed During the Meeting:**

- Enhanced radiation monitoring for power plants
- Enhance Social Media Campaign for public education

## NJDEP Compliance and Enforcement/ Science Advisory-Commissioner's Office

**Date:** March 26, 2018

**Time:** 2:00pm – 3:00pm

### Attendees:

Name	Organization	Title	Email
Nick Procopio	NJDEP- DSREH	Manager	Nick.Procopio@dep.nj.gov
Metthea Yepsen	NJDEP- DSREH	Research Scientist	Metthea.Yepsen@dep.nj.gov
Sherry Driber	NJDEP – EHAP	Assistant Director	Sherry.Driber@dep.nj.gov
Steve Anderson	NJDEP – EHAP	RSI	Steve.anderson@dep.nj.gov
Art Zanfini	NJDEP-C&E	Analyst	Arthur.zanfini@dep.nj.gov
Adria Wentzel	NJDEP-C&E	Analyst	Adria.wentzel@dep.nj.gov
Knute Jensen	NJDEP-C&E	Director	Knute.jensen@dep.nj.gov
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### Minutes/Notes:

#### Opening Remarks:

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### Capabilities Discussed During the Meeting:

- Science Advisory Board
  - Science and Research - peer reviewed literature, concurrence on science use, science advisory board
    - Sea Level Rise projections for New Jersey - is a growing concern throughout the agency. The DEP has not adopted a formal projection. The Science Advisory has reviewed Rutgers Study on Sea-Level Rise and feels comfortable supporting the projections cited in the report.
- Private Well Testing - well testing information
  - Test does not measure water level
  - 100,000 or so homes have been investigated
  - 425,000 homes likely on private well - 25% hit in 15 years
- Science Research and Environmental Health
  - Nature Conservancy - collecting wave velocity information
  - Need for wetland mitigation added benefits
  - Salt marsh condition assessments – normalization
    - Capability and Prioritization
    - Reference wetland database

- Beneficial Use of Dredge Material
  - Restoration Planning Tools
- Lessons learned and debriefing documents available from Compliance and Enforcement
  - Vulnerability Assessment on hazards
  - GIS exhibits and reports (not public)
  - Analysis for railways, highways, and pipeline that transport hazards
  - Pilot update- chemical facilities only right now for explosives and flammables
  - Natural Assets inventory: fisheries, wetlands, ecosystems, marshes

#### Mitigation Actions

- Need storm drains and outfalls inventoried to integrate with flood data.
- Data Gaps
  - Sediment loads
  - Low tides
  - Multi-Spectral Imagery
  - Post-Impact assessments
  - Day time census/population to understand vulnerabilities during different times of day.
  - Private Well Testing - Do not know where every well is located and do not know all of their ground water depths.

## NJDEP Natural and Historic Resources

**Date:** March 26, 2018

**Time:** 3:00pm – 4:00pm

### Attendees:

Name	Organization	Title	Email
Jeremy Webber	NJFFS	Asst. Division Fire-warden	Jeremy.Webber@dep.nj.gov
Todd Wyckoff	NJDEP Forest Service	Chief	Todd.Wyckoff@dep.nj.gov
Carrie Sargeant	NJFS	NJUCF Program Coordinator	Carrie.Sargeant@dep.nj.gov
Hosnick Martinez	NJDEP Park Police	Officer/OEM Liaison	Hosnick.Martinez@dep.nj.gov
Katelyn White	OCLUP	Env. Sciences Trainee	Katelyn.White@dep.nj.gov
Bob Cartica	NJDEP, NJFS, Nat Lands	Administrator	Bob.Cartica@dep.nj.gov
John Kline	NJDEP – Park Police	Officer	John.Kline@dep.nj.gov
Yang Cao	NJDEP - Green/Blue Acres	Project Manager	Yang.Cao@dep.nj.gov
Elena Williams	NJDEP – P & F	GIS Specialist	Elena.Williams@dep.nj.gov
Courtney Wald-Wittkop	NJDEP - Green/Blue Acres	Project Manager	Courtney.Wald-Wittkop@dep.nj.gov
Kimberly Testa	NJDEP - Green/Blue Acres	Project Manager	Kimberley.testa@dep.nj.gov
Kim Rennick	NJDEP - Green/Blue Acres	Project Manager	Kimberley.rennick@dep.nj.gov
Lisa Barno	NJDEP Fish & Wildlife	Chief	Lisa.barno@dep.nj.gov
Jessica Petterson	NJDEP – Green/Blue Acres	Compliance Office	Jessica.patterson@dep.nj.gov
Fawn McGee	NJDEP - Green/Blue Acres	Director	Fawn.mcgee@dep.nj.gov
Karl Niederer	NJDEP Historic Preservation Office	Project Administrator	Karl.niederer@dep.nj.gov
Kinney Clark	NJDEP Historic Preservation Office	GIS Specialist	Kinney.clark@dep.nj.gov
Charles Welch	NJDEP State Park Service, Island Beach State Park	Asst. Superintendent	Charlie.welch@dep.nj.gov
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>



Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

## **Minutes/Notes:**

### **Opening Remarks:**

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

### **Capabilities Discussed During the Meeting:**

- The Historic Preservation Office
  - Received their own Hurricane Sandy funds to do restoration for State owned sites.
  - Design Guidelines are being made available through certified local government programs
  - NJCAR- Cultural Alliance Response
  - GIS cultural assets. Using GIS to identify cultural artifacts. This is only in a test phase, but if successful than it will become state wide. Currently only in Ocean County
- Urban and Community Forestry Program
  - Debris management/trees/vegetative debris – post disaster clean-up
  - Ready Trees NJ website.
    - Tree Risk Assessment by certified arborist
  - Discussing trees in the state profile
    - Discussing plant & insect diseases
      - Emerald Ash Bore
- Preservation of biodiversity (Natural Lands Trust)
  - Invasive species
  - Vegetation plan
- US Forest Service has grants available for mitigation
  - FireWise for communities
  - Risk assessment portal
- Hurricane preparation plan for each State Park
  - Conservation officer respond and assess post event damage. They do a lot of restocking saltwater intrusion
- Coastal mitigation
  - Living shorelines are being installed on some bayside
  - Local ordinances requiring additional free board
- State Pilot Program

- Digitize and GIS for every property purchased

**Mitigation Actions Discussed During the Meeting:**

- Cultural Resources
  - Enhance Integration of plans
    - Cultural Institutions weren't on the radar of the emergency response post Sandy. These include libraries, museums, art institutes, etc.
  - Improving preparedness at the local level at cultural institutions
    - Disaster preparedness education for cultural resources
- Adopt Alternatives to consistently chipping trees for mulch for debris management
- Aquaculture/fisheries
  - UV systems
  - Generators
- Property Buyouts (Green Acres/Blue Acres)
  - Create an inventory of properties targeted for large buyouts to reduce risk from hazard events
    - Coordinating with DCA

## NJDEP Water Resource Management

**Date:** March 26, 2018

**Time:** 4:00pm – 5:00pm

### Attendees:

Name	Organization	Title	Email
Bill Machotka	NJDEP-Municipal Finance and Construction	Section Chief	Wiliam.Machotka@dep.nj.gov
Matt Mahu	Water Resource Management	Program Coordinator	<a href="mailto:Matt.Mahu@dep.nj.gov">Matt.Mahu@dep.nj.gov</a>
Kati Angarone	NJDEP-DWSG	Policy Advisor	<a href="mailto:Katrina.Angarone@dep.nj.gov">Katrina.Angarone@dep.nj.gov</a>
Michael Kolber	NJDEP-OCUP	Planner	Michael.Kolber@dep.nj.gov
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Paige Kaspar	Michael Baker Intl.	Planner	Paige.kaspar@mbakerintl.com
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org

### Minutes/Notes

#### Opening Remarks:

Craig Wenger and Chris Testa started the meeting by giving a summary of the NJ State All-Hazard Mitigation Plan Update process.

#### Capabilities Discussed During the Meeting:

- Emergency Homeland Security for Water Resource
  - Incident Management Plan
  - Hurricane Decision Support Tool
    - Protocols of water infrastructure response by county
      - 600 water systems
      - 350 wastewater systems
  - Homeland Security Prioritization Index - does not include vulnerability
- Post-Sandy
  - After Action Report - captures critical infrastructure for preparedness and interconnectivity of cascading failures
- Wastewater projections - April 18th - Argon National Labs
  - 2008/2009 interconnection study
    - Passaic Valley Sewerage Commission
  - R-RAP, DHS Feasibility Study
  - GIS Mapping tools - sludge management tools/residuals of treatment
    - Sludge bottlenecks can occur in the system
    - Understanding Multi-state needs
- Statewide plan for potable water/bottled water/tankers
  - Drought capability
- Easier system to determine options for moving materials

- Cyber threats for water infrastructure – How do you engage resources for response?
  - Water quality accountability act - cyber security mandates
- State Revolving Fund - NJEIT

**Mitigation Actions Discussed During the Meeting:**

- Conduct Hydraulic modeling and Feasibility study
- Have a better understanding of water loss and leakage
- Reservoirs need to be replaced
- Enhance protection from Cyber threats to bolster emergency response





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Environmental Protection Division of Air Quality	
<b>Description of Organization</b>	Ensures clean air, for both public health and the environment. Manages air quality with ambient air monitoring, inventories of sources, emission reduction plans, rules, permits, air quality modeling and risk assessment, vehicle inspections and voluntary programs to modernize fleets and promote electric vehicles.
<b>Point of Contact</b>	Name/Title: Email: NJDEP-BAQP@dep.nj.gov Phone: (609) 292-6722 Address: 401 East State Street, Mail Code 501-07H, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/daq/">http://www.nj.gov/dep/daq/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Hazardous Substance, Wildfire
<b>Describe your organization's contribution to loss reduction from hazards.</b>	While department efforts focus on improving and monitoring air quality, certain initiatives that the department supports help contribute to loss reduction. For example, State Implementation Plans that the department has created target limiting the release of hazardous pollutants into the ozone, which also targets limiting the amount of hazardous substance incidents. Another similar priority is monitoring fire burning because of the release of carbon monoxide. This also helps advocate for the prevention of wildfire.
<b>Does your organization provide technical assistance?</b>	Yes.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	State Implementation Plans, support of regulations that help regulate wood burning in New Jersey including NJAC 7:27-5, NJAC 7:27-3
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Specifically State Implementation Plans contain specific components that include coordinating with other states, state agencies and regional organizations.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Environmental Protection - Bureau of Environmental Radiation</b>
<b>Description of Organization</b>	The Bureau of Environmental Radiation addresses the protection of the public from excessive exposure to radiation, exclusive of x-ray and nuclear powerplant sources. This includes the State's program to reduce radon gas exposure in homes and other buildings; licensing the use of certain radioactive materials in medicine, industry and research; supporting the clean-up of the State's radioactively contaminated sites; and the control of nonionizing radiation from industrial microwave and radiofrequency sources of such radiation.
<b>Point of Contact</b>	Name/Title: Jenny Goodman Email: jenny.goodman@dep.nj.gov Phone: (609) 984-5400 Address: 25 Arctic Parkway PO Box 420 (Mail Code 25-01) Trenton, New Jersey 08625-0420 Website: <a href="http://www.nj.gov/dep/rpp/ber/">http://www.nj.gov/dep/rpp/ber/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Nuclear Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	While department efforts focus on improving and monitoring air quality, certain initiatives that the department supports help contribute to loss reduction. For example, State Implementation Plans that the department has created target limiting the release of hazardous pollutants into the ozone, which also targets limiting the amount of hazardous substance incidents. Another similar priority is monitoring fire burning because of the release of carbon monoxide. This also helps advocate for the prevention of wildfire.
<b>Does your organization provide technical assistance?</b>	Staff of the Bureau of Environmental Radiation provide technical support to the Site Remediation Program ( <a href="http://www.nj.gov/dep/srp/">http://www.nj.gov/dep/srp/</a> ) on the investigation and remediation of radiologically contaminated sites in New Jersey. The Licensed Site Remediation Professional (LSRP) program
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	N.J.A.C. 7:28-12 Remediation Standards for Radioactive Materials  In addition to licensing and inspecting diffuse NARM and source and special nuclear material facilities, staff are responsible for the General Licensing program which includes radioactive material Registrations as per N.J.A.C. 7:28-52 (10 CFR 31 incorporated by reference), and decommissioning of all facilities using radioactive materials, including industrial and medical facilities.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	The Department of Environmental Protection (DEP) Radon Section conducts outreach activities to educate the public on the risks of radon and how homes can be remediated. These activities include formal educational slide presentations on radon awareness, participation in exhibits and conventions.
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Coordination and oversight of the Bureau of Environmental Radiation is with the U.S. Nuclear Regulatory Commission. On September 30, 2009, the U.S. Nuclear Regulatory Commission and New Jersey signed an Agreement authorizing the State to license and regulate byproduct, source, and certain special nuclear radioactive materials users. However, NJDEP overall is an active member of the State Hazard Mitigation Team and is involved in additional hazard mitigation coordination with FEMA/NJOEM.



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

Organization Name: New Jersey Department of Environmental Protection Bureau of Dam Safety & Flood Control	
Description of Organization	Leads the State's efforts as the State NFIP Coordinator and Community Rating System (CRS) support. In addition, the section's responsibilities include the funding of construction and operation of federal-state-local flood control mitigation projects throughout the state, including the 24-hour operation of the Pompton Lakes Dam Flood Gates. The section has also taken a lead role on the development and adoption of NJ Flood Hazard Area mapping, as well as an active partnership with FEMA on their FEMA Map Modernization Program efforts.
Point of Contact	Name/Title: Joseph Ruggeri, P.E., CFM, Supervising Engineer Email: joseph.ruggeri@dep.state.nj.us Phone: (609) 292-2296 Address: 501 East State Street, Mail Code 501-01A, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/floodcontrol/">http://www.nj.gov/dep/floodcontrol/</a>
Hazard Mitigation Effectiveness - Current Capabilities	
What hazards are addressed by your organization?	Flood Risk Hazards
Describe your organization's contribution to loss reduction from hazards.	Assistance
Does your organization provide technical assistance?	Yes. Assistance to communities participating in the NFIP and interested in joining CRS thru the NJDEP Community Assistance Program Unit.
Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents	NJDEP serves as the local sponsor on US Army Corps of Engineers flood risk reduction projects.
Does your organization hold or attend mitigation trainings/seminars/ conferences?	NJDEP is an active participants in the state chapter of ASFPM. Through NJAFM a yearly conference is held in NJ and provides training on flood hazard topics including hazard mitigation.
Is Funding available for Hazard Mitigation?	Yes - large scale flood control projects are cost-shared with the US Army Corps of Engineers through an annual state appropriation under the HR-6 Flood Control project budget. Also, \$25 million was appropriated from the "Dam, Lake, Stream, Flood Control, Water Resources Project Bond Act 2003" to finance the costs of state-local flood control projects. Effectiveness 544 of the 566 total municipalities in NJ participate in the NFIP program of which 45 also participate in the CRS program. 9 communities with a Class 9 rating (5% premium reduction); 23 with a Class 8 rating (10% premium reduction); 11 with a Class 7 rating (15% premium reduction) and 2 with a Class 6 rating (20% premium reduction). The avg. savings per policy holder is about \$87.00 per year or a total community savings of about \$9,384,397 per year. The NJ Dam Safety program, new state stormwater management requirements, and the development of all hazard mitigation plans, are some of the efforts at the State level that are available to provide CRS credits for all NJ municipalities. Communities are encouraged to adopt freeboard elevation requirements, which also provide CRS credits. Many municipalities in New Jersey are small and lack the professional support to fill out a CRS application, or do not have the flood insurance policy base to make it worth their while. However, we do reach out to communities during Community Assistance Visits, Community Assistance Contacts, technical assistance contacts and workshops to promote the CRS program.
Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?	Yes, NJDEP is an active member of the State Hazard Mitigation Team and is involved in additional hazard mitigation coordination with FEMA/NJOEM.



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Environmental Protection - Compliance and Enforcement</b>
<b>Description of Organization</b>	Compliance and Enforcement's (C&E) mission is to ensure that New Jersey's environment is clean, safe, enjoyable, and maintained for future generations. We are organized into three divisions, whose main function is to enforce hundreds of environmental laws, rules and regulations administered by DEP regulatory programs and delegated federal authority. C&E inspectors perform more than 24,000 inspections and compliance evaluations per year and issue approximately 6,000 enforcement actions.	
<b>Point of Contact</b>	Name/Title: Knute Jensen Email: Knute.jensen@dep.nj.gov Phone Address: Mail Code 401-04B , 401 East State Street PO Box 420 , Trenton, NJ 08625-0420 Website: www.nj.gov/dep/enforcement/	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Hazardious Substances	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Compliance and enforcement ensures environmental stewardship and compliance. This helps reduces potential losses from a hazard by lessening the risk of environmental and health threats before a hazard occurs. Compliance and enforcement are also an	
<b>Does your organization provide technical assistance?</b>	Yes. Compliance assistance training is part of C&E's continuing commitment to quality customer service. The program is designed to help individuals, business, industry and government understand and meet, or surpass, their environmental obligations. Here you will find useful information such as: current training opportunities, outreach materials, guidance documents, links to additional training web sites, and much more	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	no, not directly	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes, online training resources and compliance advisories are available.	
<b>Is Funding available for Hazard Mitigation?</b>	no	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>		





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Environmental Division Land Use Management</b>
<b>Description of Organization</b>	Land Use Management is a group of diverse programs that protect and enhance New Jersey's environment through implementation of State land use regulations, regional land use planning, coastal resource management and funding projects that result in improvements to the quality of the State's environment. Land Use Management strives to balance responsible land development and protection of New Jersey's valuable natural resources.	
<b>Point of Contact</b>	Name/Title: Colleen Keller, Assistant Director NJDEP LUM Email: Colleen.keller@dep.nj.gov Phone: 609-633-2289 Address: 501 East State Street, Mail Code 401-07B, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/lum/">http://www.nj.gov/dep/lum/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Coastal erosion, Drought, Flood, Hurricane and tropical storms, nor'easters, winter storms,	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The Bureau of Inland Regulation handles permitting of Freshwater Wetlands, Flood Hazard Areas, Highlands and Waterfront Development. The Bureau of Coastal Regulation handles permitting for CAFRA, Waterfront Development, Coastal Wetlands, and Flood Hazard Areas and has a separate unit for reviewing Freshwater Wetlands applications. The Bureau of Urban Growth & Redevelopment handles permitting in urban areas, all renewable energy projects and all State agency transportation projects. Office of Dredging & Sediment Technology is under Site Remediation, but handles all Land Use permitting for purposes of investigation, remediation, closure and/or redevelopment of a property under the purview of the Site Remediation Program or the Division of Solid and Hazardous Waste.	
<b>Does your organization provide technical assistance?</b>	Yes, provides technical assistance for the permitting and review process of applications.	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Laws (N.J.S.A.) N.J.S.A. 13:9B Freshwater Wetlands Protection Act N.J.S.A. 58:16A-50 Flood Hazard Area Control Act N.J.S.A. 13:9A Wetlands Act of 1970 N.J.S.A. 12:5-3 Waterfront Development Act N.J.S.A. 58:10A NJ Water Pollution Control Act N.J.S.A. 13:19 Coastal Area Facility Review Act (CAFRA) N.J.S.A. 12:3 Tidelands Act N.J.S.A. 13:20 Highlands Water Protection and Planning Act N.J.S.A. 58:16A-67 Stream Cleaning Act Regulations (N.J.A.C.) N.J.A.C. 7:7A Freshwater Wetlands Protection Act Rules N.J.A.C. 7:13 Flood Hazard Area Control Act Rules N.J.A.C. 7:7 Coastal Zone Management Rules N.J.A.C. 7:38 Highlands Water Protection and Planning Rule	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes.	
<b>Is Funding available for Hazard Mitigation?</b>	NJDEP Office of Coastal and Land Use Planning has received \$10 million in grant funding from the U.S. Department of Housing and Urban Development's National Disaster Resilience Completion to develop and implement up to 5 regional plans to build resilience to future flooding events.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. In the case where an emergency exists that poses a threat to health and human safety and/or a danger to the environment, there are provisions which allow for work to be conducted to take care of the emergency situation in a way that also meets the various rules and regulations administered by this Division.	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Environmental Division of Science, Research and Environmental Health</b>
<b>Description of Organization</b>	The function of the Division of Science, Research and Environmental Health is to help ensure that the department's decision-making is based upon the best possible scientific and technical information. The role of this division is to provide the department with, and access to, expertise and information that supports its technical and policy needs. In addition, the division performs research to meet the information and problem-solving needs, identifies and understands emerging issues that require the department's attention and advocates/integrates the multi-disciplinary perspective into the department's identification, analysis and resolution of	
<b>Point of Contact</b>	Name/Title: Nick Procopio, Manager/Bureau Chief Email: Nick.Procopio@dep.nj.gov Phone: (609) 984-6070 Address: 501 East State Street, Mail Code 401-01, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/dsr/">http://www.nj.gov/dep/dsr/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Staff provide technical information and expertise to support information in relations to Human Health, Ecological and Natural Sciences, Environmental Science, Drinking Water, Analytical Methods, Standards, Data Analysis and Environmental Trends.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Staff provide technical information and expertise to support information in relations to Human Health, Ecological and Natural Sciences, Environmental Science, Drinking Water, Analytical Methods, Standards, Data Analysis and Environmental Trends.	
<b>Does your organization provide technical assistance?</b>	Yes.	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	The Division of Science, Research and Environmental Health has published risk assessments of hazards and advisories including, but not limited to, the following:  Guidance for the Development of Human Health Risk Assessment Document  2017 New Jersey Fish Consumption Advisories  NJ Risk: Implementing an Integrated Computational Tool to Support Prioritization of Chemicals of Emerging Concern  Damage Assessment Report on the Effects of Hurricane Sandy on the State of New Jersey's Natural Resources (May 2015)	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes.	
<b>Is Funding available for Hazard Mitigation?</b>	No.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, but not directly. The Division of Science, Research and Environmental Health supports NJDEP Programs that directly coordinate with NJOEM and FEMA.	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Environmental Division of Solid and Hazardous Waste</b>
<b>Description of Organization</b>	<p>The Bureau of Solid Waste Planning &amp; Licensing oversees county solid waste planning; economic regulation of solid waste public utilities; licensing of companies commercially engaged in the solid waste industry; escrow accounts of solid waste facilities; county recycling and clean communities grants; and support to the Division in the areas of budgets, fee collection, Open Public Records Act (OPRA), and data management.</p> <p>The Bureau of Solid Waste Permitting is responsible for the management of permit applications for solid waste landfills, resource recovery facilities (incinerators), and transfer stations/materials recovery facilities.</p>	
<b>Point of Contact</b>	<p>Name/Title: Tom Byrne, Section Chief NJDEP DSHW Email: Tom.byrne@dep.nj.gov Phone: 609-292-9880 Address: 501 East State Street, Mail Code: 401-02C, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/dshw/">http://www.nj.gov/dep/dshw/</a></p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	All Hazards.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Manage and regulate disposal of debris from any hazard that causes the quantity of solid waste debris generated to exceed the capacity of a geographic area and prevent the ability of government or private entities to safely and effectively manage the solid waste debris in accordance with the State's comprehensive regulatory standards.	
<b>Does your organization provide technical assistance?</b>	Planning for and Response to Catastrophic Events at Contaminated Sites. The Department strongly encourages municipalities to act now to select areas that would be suitable for temporary staging of both construction and demolition storm debris and vegetative debris and to have those areas pre-approved by the Department.	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	<p>County Emergency Debris Management Plan Template and Information Packet - March 2017</p> <p>Disaster Debris Management Planning Tool Kit for New Jersey Municipalities (REVISED November 2015)</p> <p>The Division of Solid and Hazardous Waste, Bureau of Solid Waste Permitting provides a TDMA Form for Counties and Municipalities to request pre-approval of sites that will be used to temporarily store debris after an emergency event.</p>	
<b>Does your organization hold or attend mitigation trainings/seminars/conferences?</b>	<p>The division provides guidance for each county to adopt their own Debris Management Plan. The division wishes to strengthen their outreach efforts in the future to each county on debris management.</p>	
<b>Is Funding available for Hazard Mitigation?</b>	No	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Environmental Protection - Division of Water Supply and Geoscience</b>
<b>Description of Organization</b>	The Division of Water Supply and Geoscience (Water Supply) works to ensure adequate, reliable and safe water supply is available for the future. This goal is accomplished through the regulation of ground and surface water diversions, permitting of wells, permitting of drinking water infrastructure, monitoring of drinking water quality and technical support for water systems to achieve compliance with all Federal and State standards. In addition, Water Supply staff act in a support role during an emergency situation to provide technical assistance, as needed to re-establish safe and adequate public water supplies.
<b>Point of Contact</b>	Name/Title: Fred Sickels/Director Email: Fred.Sickels@dep.state.nj.us Phone: 609-292-7219 Address: PO Box 420, Mail Code 401-04Q, Trenton, NJ 08625 Website: <a href="http://www.nj.gov/dep/watersupply/">http://www.nj.gov/dep/watersupply/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Water Supply's primary function is to ensure cooperative and coordinated response operations that involve many water systems. In this regard, this Division has chosen to present its emergency response plan from an "all hazards" view point, such that the effect of the event is more important than the type of event which caused the emergency. Such events may include flooding and drought impacts on water supply; natural and man-made contamination of drinking water.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Water Supply implements an Asset Management Program to promote O&M protocols and infrastructure investment to sustain water systems through inventory of assets, staffing and training, preventative maintenance and financial planning.
<b>Does your organization provide technical assistance?</b>	Yes. Water Supply staff provides technical assistance to assist water systems during water supply emergencies and to address routine non-compliance from significant deficiencies or poor water quality test results.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Yes. In response to Superstorm Sandy, Water Supply is drafting additional guidance that focuses on auxiliary power, flood protection and resiliency of infrastructure, asset management planning for water systems and emergency response and preparedness.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes. Water Supply has participated in several round table discussions and tabletop exercises with Internal staff, other government agency staff and impacted facilities to discuss lessons learned as a result of emergency events. This has resulted in additional training on emergency response as well as the development of additional guidance documents to support internal and external capabilities.
<b>Is Funding available for Hazard Mitigation?</b>	Yes. The Drinking Water State Revolving Fund (DWSRF) program assists water systems in financing the cost of infrastructure through the use of federal and New Jersey Infrastructure Trust funds. Additionally, Water Supply provides operator licensing and training support as well as financial assistance through the DWSRF program.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Water Supply continues to coordinate with NJOEM on emergency response activities and has engaged in conversations with FEMA regarding damaged or destroyed water system infrastructure. Water Supply ensures a cooperative and coordinated response in the event of a water supply emergency.





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	
<b>New Jersey Department of Environmental - Emergency Management Program</b>	
<b>Description of Organization</b>	The role of the emergency management section is to put into action the department's responsibilities, outlined in the Emergency Operating Plan of the State of New Jersey, and to continue to perform the ongoing duties of each individual unit. Emergency management is the department's link to the state's Emergency Operations & Planning Centers, Regional Response Team and Port Area Committees. The section is operational 24 hours a day, 7 days a week.
<b>Point of Contact</b>	Name/Title: Bob Van Fossen, Director Email: Robert.VanFossen@dep.nj.gov Phone: (609) 984-6070 Address: 501 East State Street, Mail Code 401-01, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/emergency/">http://www.nj.gov/dep/emergency/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	All Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The New Jersey Department of Environmental Protection (NJDEP) has the responsibility of responding to emergencies involving a wide variety of hazards that threaten the public, environment and infrastructure of the state. Traditionally, these were principally to oil and hazardous materials; to ensure that discharges of these materials do not threaten the health of the public and environment. Today, the department's mandate includes a much broader spectrum of threats including natural disasters, pathogenic outbreaks, and terrorism. In response to this mandate, NJDEP maintains the Bureau of Emergency Response (BER). The bureau, headquartered in Trenton, supports two field offices strategically located for rapid response on a 24-hour basis, 7 days a week.
<b>Does your organization provide technical assistance?</b>	New Jersey Department of Environmental Protection maintains a state of the art communications center. Calls made to the department's Hot Line (877) WARN DEP are answered here. The center responds to over 49,000 calls every year from the public as well as government and professional agents. Calls to the center are received and evaluated before being forwarded to the appropriate department for action.  NJDEP also maintains an environmental Equipment Service Center will continue the mission of providing logistical support and equipment service for the department's field operatives. This mission includes maintaining a vast array of general and task specific instruments and equipment, as well as personal protective and safety equipment, spill related materials and related logistics. These materials are ready for rapid deployment into the field whenever and wherever they are needed.  Emergency Management is also the department's point of contact for sites with explosive hazards. It oversees the majority of the Munitions and Explosives of Concern (MEC) cleanups under the U.S. Army Corps of Engineers, Military Munitions Response Program.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Emergency Operating Plan of the State of New Jersey
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, The Bureau of Emergency Response is responsible for acting as the state's on scene coordinator when incidents involve multiple jurisdictions, agencies and disciplines.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update



<b>Organization Name:</b>		<b>New Jersey Department of Environmental - Green Acres / Blue Acres Program</b>
<b>Description of Organization</b>	<p>The Green Acres Mission: To achieve, in partnership with others, a system of interconnected open spaces, whose protection will preserve and enhance New Jersey's natural environment and its historic, scenic, and recreational resources for public use and enjoyment. The Green Acres Program was created in 1961 to meet New Jersey's growing recreation and conservation needs. Together with public and private partners, Green Acres has protected over half a million acres of open space and provided hundreds of outdoor recreational facilities in communities around the State.</p> <p>Blue Acres Funding The Green Acres, Farmland, Blue Acres, and Historic Preservation Bond Act of 2007 authorized \$12 million for acquisition of lands in the floodways of the Delaware River, Passaic River or Raritan River, and their respective tributaries, for recreation and conservation purposes. An additional \$24 million was approved by the voters in the Green Acres, Water Supply and Floodplain Protection, and Farmland and Historic Preservation Bond Act of 2009.</p>	
<b>Point of Contact</b>	<p>Name/Title: Yang Cao Email: Yang.Cao@dep.nj.gov Address: 501 East State Street, Mail Code 401-01, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="https://www.nj.gov/dep/greenacres/">https://www.nj.gov/dep/greenacres/</a></p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Staff provide technical information and expertise to support information in relations to Human Health, Ecological and Natural Sciences, Environmental Science, Drinking Water, Analytical Methods, Standards, Data Analysis and Environmental Trends.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	<p>The Green Acres, Farmland, Blue Acres, and Historic Preservation Bond Act of 2007 authorized \$12 million for acquisition of lands in the floodways of the Delaware River, Passaic River or Raritan River, and their respective tributaries, for recreation and conservation purposes. An additional \$24 million was approved by the voters in the Green Acres, Water Supply and Floodplain Protection, and Farmland and Historic Preservation Bond Act of 2009.</p> <p>Properties (including structures) that have been damaged by, or may be prone to incurring damage caused by, storms or storm-related flooding, or that may buffer or protect other lands from such damage, are eligible for acquisition.</p> <p>All Blue Acres acquisitions must be from willing sellers.</p>	
<b>Does your organization provide technical assistance?</b>	Provides assistance to communities on how to complete Surveys in order to recover from Hurricane Sandy. NJ Licensed Land Surveyors who wish to help in the effort to rebuild the Jersey Shore and other towns hit hard by Super Storm Sandy are encouraged to contact municipalities in the affected areas. You can help if you are able to provide bulk or reduced rates for elevation certificates across a full city block, conduct property resurveys if	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	<p>Surveys for Blue Acres – guidelines for surveys related to purchase of improved residential lots in flood prone areas in cooperation with FEMA.</p> <p>Forms and Checklists by Survey Type – for State land acquisitions, local and non-profit land acquisitions, Environmental Infrastructure Funding Program (EIFP and EIT), Diversions and State House Commission Actions.</p> <p>Hurricane preparation plan for each state park</p>	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Holds public hearings to review plans and land acquisitions,	
<b>Is Funding available for Hazard Mitigation?</b>	<p>Coastal Blue Acres (CBA) was created with the passage of the Green Acres, Farmland, Historic Preservation and Blue Acres Bond Act of 1995. The bond act contains \$15 million for grants and loans to municipalities and counties to acquire lands in coastal areas that have been damaged by storms, that may be prone to storm damage, or that buffer or protect other lands from storm damage, for recreation and conservation purposes. The act defines coastal areas as those within the CAFRA Zone</p> <p>CBA funds are divided into two parts:</p> <p>Pre-storm: \$6 million. Acquisition of unimproved and largely unimproved storm prone and buffer lands is funded with 75 percent grant/25 percent loan. (Please note that as of November 1998, all Pre-Storm funds have been committed to projects. No Pre-Storm funds are currently available)</p> <p>Post-storm: \$9 million. Acquisition of lands that have suffered at least a 50 percent reduction in value as a result of storm damage will be funded with 50 percent grant/50 percent loan.</p>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes.	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Environmental Protection Bureau of Historic Preservation Office	
<b>Description of Organization</b>	Leads the State's efforts to preserve, protect, and promote New Jersey's historic resources. Their objectives include finding federal funding that may or may not require preservation-conscious review, assisting local code officials that may be working with the needs of historic resources for the first time ever, to an unprecedented need for recovery funding and technical assistance. They will continue help ensure that these places get as much of the special attention they need as possible as recovery moves forward.
<b>Point of Contact</b>	Name/Title: Karl Niederer/Project Administrator Email: Karl.niederer@dep.nj.gov Phone: (609) 984-0176 Address: 501 East State Street, Mail Code 501-04B, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/hpo/">http://www.nj.gov/dep/hpo/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Flood Risk Hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Disaster planning, management, and recovery
<b>Does your organization provide technical assistance?</b>	Yes. They provide guidance on what sorts of things should be taken into account when considering the design of compatible elevation treatments.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	NJ HPO produced elevation design guidance specific to New Jersey's historic properties. They also provided documents, reports, and other digital data about cultural resources in NJ's to areas that were heavily impacted by Hurricane Sandy.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	New Jersey History and Historic Preservation Conference discusses hazard mitigation
<b>Is Funding available for Hazard Mitigation?</b>	Yes -The Disaster Relief Appropriations Act of 2013 included \$16 billion in Community Development Block Grant (CDBG) funding. This funding will be allocated to states affected by Hurricane Sandy in multiple phases as determined by the federal Department of Housing and Urban Development. New Jersey received an allocation of \$1.83 billion during the initial round of CDBG funding allocations on February 6. The State of New Jersey, via the Department of Community Affairs, must now submit an action plan for disaster recovery within 90 days of the allocation, including criteria for eligibility and how the use of these funds will address disaster relief, long-term recovery, restoration of infrastructure and housing and economic revitalization in the most impacted and distressed areas.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, NJDEP is an active member of the State Hazard Mitigation Team and is involved in additional hazard mitigation coordination with FEMA/NJOEM.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Environmental - New Jersey Forest Service	
<b>Description of Organization</b>	The New Jersey Forest Fire Service is the agency responsible for protecting life and property, as well as the state's natural resources from wildfire.
<b>Point of Contact</b>	Name/Title: Todd Wyckoff, Chief NJDEP Forest Service Email: Todd.Wyckoff@dep.nj.gov Phone: Address: 501 East State Street, Mail Code 401-07B, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.state.nj.us/dep/parksandforests/forest/">http://www.state.nj.us/dep/parksandforests/forest/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Wildfires
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The objectives of the New Jersey Forest Fire Service are to hold wildfire losses at a level commensurate with values protected and to do the job safely and efficiently. The goal is to limit the number of wildfires to under 1,400 annually and the acreage burned to less than one half of one percent (.5%) of the 3.15 million acres protected, or 15,750 acres
<b>Does your organization provide technical assistance?</b>	Volunteer Fire Assistance (VFA) - The VFA is a United States Forest Service Grant Program administered by all 50 State Forest Fire Protection Agencies to provide funding to organize, train, and equip fire departments in rural areas and rural communities.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Yes. - New Jersey's Forest Action Plan - Forest Action Plan Five-year Review - N.J.A.C. 7:3 Forestry Rules - Fire Management sections within the Pinelands Commission Comprehensive Management Plan
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Fire Information and Resource Education Kits - The Forest Fire Service has assembled education kits in easily transportable, wheeled suitcases. These information packed kits, contain books, DVD's and CD's, games, lesson plans and activities for grades K- 12. The FIRE Kits are available for loan to teachers and other interested educators, from one of our four field office locations.  New Jersey Wildfire Safety Skills - A Program of Wildfire Prevention and Education for Students in Grades K – 12. Provides age-equivalent lesson plans for teachers and firefighters that meet NJ Core Curriculum Standards and complement the NJ Division of Fire Safety's "Fire Safety Skills."
<b>Is Funding available for Hazard Mitigation?</b>	Community Wildfire Hazard Mitigation Assistance Program - This NJ Forest Fire Service grant program delivers National Fire Plan funding directly to organizations on a local level.  Fuels Reduction Biomass and Marketing Grant - This grant provides one time cost-share incentives to stimulate the timber harvesting and production capabilities within the NJ Pinelands Region, with the goal of reducing the costs of hazardous wildland fuel reduction projects.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>NJDEP - Urban &amp; Community Forestry Program</b>
<b>Description of Organization</b>	The New Jersey Urban and Community Forestry (NJUCF) program's mission is to encourage and support the stewardship and effective management of trees and forest ecosystems in New Jersey communities. Urban & Community Forestry programs ensure more livable communities through the care and management of trees. Neglect and urban stress limit the life span of the average downtown tree to only ten years. With proper care, trees live longer, look better, and increase in value as they age. Without care, they decline in health and value and become liabilities. Trees deserve to be managed with the same skill and diligence as any other community asset.	
<b>Point of Contact</b>	Name/Title: Carrie Sargeant, Program Coordinator: Email: Carrie.Sargeant@dep.state.nj.us Phone: (609) 633-2320 Address: 501 East State Street, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://nj.gov/dep/njnlt/">http://nj.gov/dep/njnlt/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Coastal Erosion, Dam Levee Failure, Drought, Earthquakes, Flood, Geological Hazards, Hurricanes and Tropical Storms, Nor'easters, Severe Weather, Wildfire, Winter Storms, Animal Disease and Crop Failure	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Ready Trees NJ Program - Readiness, Response, Recovery to empower municipal and county officials to manage the tree/forest resources within their communities. Program encourages cross program coordination and enhancing potential FEMA assistance opportunities.	
<b>Does your organization provide technical assistance?</b>	Yes, Urban Forest Strike Team Training, pending Urban Forest Strike Team Mock Exercise, NJUCF Core Training, NJUCF Continuing Education Units.	
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Community Forestry Management Plans (NJAC 13:1L-17.2, 17.4, 17.7) NJAC 59:4-10 (16)(a)(2) Immunity from liability relative to community forestry. Encouraging communities to develop negative debris management plans as part of a comprehensive community forestry management plan.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes. NJUCF recently presented at the NJ County OEM Coordinators' meeting at the ROIC, Urban Forest Strike Team Training (Includes ICS requirements), Tree Risk Assessment Qualification, Urban Forest Strike Team Mock Exercise, NJUCF Core Training and Risk Tree Identification sessions, NJ Tree Foundation Right Tree Right Place with PSE&G, NJUCF continuing education units, EHAP, NJ Shade Tree Federation Conference, NJ Garden State Tree Conference, and others.	
<b>Is Funding available for Hazard Mitigation?</b>	Most of the funding that is available is for the recovery phase (e.g. reforestation and tree planting). Funding is needed for Readiness - planning, outreach, education, training, personnel, tree inventory, tree risk assessment, active stewardship to address hazards.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, in 2015 the NJUCF began working with the NJDEP OEM on outreach, training, education, and collaboration on the Urban Forest Strike Team and the development of the Ready Trees NJ initiative.	



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	
<b>New Jersey Department of Environmental Protection Office of Natural Lands</b>	
<b>Description of Organization</b>	Three related programs for conservation of biodiversity and passive recreation including NJ Natural Lands Trust. The Office of Natural Lands Management (ONLM) administers a group of interrelated land management and planning programs. It is committed to the conservation of biodiversity through excellent stewardship, and to the enhancement of passive recreational opportunities for the benefit of present and future generations. The programs include the Natural Heritage Program, the Natural Areas Program and the New Jersey Natural Lands Trust. Responsibilities include the identification and tracking of endangered and rare plant populations and rare and unique ecological communities along with the management of public open space acquired by the Natural Lands Trust or found within designated Natural Areas.
<b>Point of Contact</b>	Name/Title: Robert J. Cartica, Administrator/Executive Director (Natural Lands Trust) Email: bob.cartica@dep.state.nj.us Phone: (609) 984-1339 Address: 501 East State Street, Mail Code 501-04, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://nj.gov/dep/njnl/">http://nj.gov/dep/njnl/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	N/A
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Focus on state natural resources (biodiversity) with emphasis on plant species listed as endangered in New Jersey. The Trust manages its properties to conserve rare plant and animal species habitat and rare ecological communities. Many of these properties are located in areas vulnerable to wildfire.
<b>Does your organization provide technical assistance?</b>	Advice on reduction of impacts to state and federal rare species and mitigation for loss of species occurrences.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Office provides review of project areas for impacts to endangered/rare species in natural areas. The New Jersey Natural Heritage Program identifies the state's most significant natural areas through a comprehensive inventory of rare plant and animal species and representative ecological communities. From the inventory, the Natural Heritage Database compiles information on the distribution, biology, status, and preservation needs of these species and communities. Established in 1984 through a cooperative agreement between The Nature Conservancy, a private conservation organization, and the Department of Environmental Protection, full administration of the program was assumed by the DEP in 1986.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	None
<b>Is Funding available for Hazard Mitigation?</b>	N/A
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	None



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Environmental Protection - Passaic River Basin Flood Advisory Commission</b>
<b>Description of Organization</b>	Governor Chris Christie created the Passaic River Basin Flood Advisory Commission by Executive Order 23 on April 23, 2010 following to the severe nor'easter of March 12-15, 2010 and its flooding of the Central Passaic River basin. The Advisory Commission's charge is to provide recommendations to the Governor including (but not limited to): expanding and expediting Passaic River floodway property buyouts, prioritizing land acquisition and acquiring natural flood storage areas, operating the Pompton Lake Dam floodgates, clearing river of debris, evaluation of regulatory programs, enhancing public involvement, information and outreach for flood response, and identifying methods to phase out or prevent future development in flood-prone hazard areas.
<b>Point of Contact</b>	Name/Title: Joseph Ruggeri, P.E., CFM, Supervising Engineer Email: joseph.ruggeri@dep.state.nj.us Phone: (609) 292-2296 Address: 501 East State Street, Mail Code 501-01A, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/dep/passaicriver/">http://www.nj.gov/dep/passaicriver/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Flood Risk Reduction
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Facilitation
<b>Does your organization provide technical assistance?</b>	No
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Developed flood forecast gage inundation mapping.
<b>Does your organization hold or attend mitigation trainings/seminars/conferences?</b>	No
<b>Is Funding available for Hazard Mitigation?</b>	Yes. Funding has been provided through NJDEP and FEMA to address 15-point recommendations of the Passaic River Basin Flood Advisory Commission report.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes, on acquisition and elevation projects.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Environmental Protection - Water Resource Management</b>
<b>Description of Organization</b>	The Water Pollution Management Element is responsible for protecting New Jersey's surface and ground waters from pollution caused by improperly treated wastewater and its residuals. This is accomplished primarily through the implementation of the New Jersey Pollutant Discharge Elimination System (NJPDES) permit program. This includes publicly owned treatment facilities (e.g. sanitary sewerage plants) and privately owned facilities (e.g. industrial facilities) as well as facilities that discharge stormwater (e.g. municipalities and highway agencies) and stormwater related to development. The NJPDES program also regulates discharges to ground water (e.g. septic systems) and the proper management of any residuals that are generated as part of the treatment process. The varied ownership of infrastructure components is often a complicating factor in the regulation of these entities (e.g. ownership of a treatment facility by a public entity and sewer mains by a different municipal entity). The total universe of NJPDES permits includes over 7500 permits.
<b>Point of Contact</b>	Name/Title: Janice Brogle, Asst. Dir. Email: Janice.brogle@dep.state.nj.us Phone: (609) 292-9977 Address: DEP, 401 East State St., Trenton Website: <a href="http://www.nj.gov/dep/dwq/">http://www.nj.gov/dep/dwq/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	The program is able to finance infrastructure repair, replacement and mitigation regardless of the cause.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Permitting actions are complemented with facilitation, technical assistance, and training wherever possible.
<b>Does your organization provide technical assistance?</b>	Yes. The Programs engineering and environmental specialist staff provide technical assistance in the development, interpretation and implementation of permit conditions.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Yes. The Department is also in the process of issuing further guidance on Flood proofing, Auxiliary Power, proper Asset Management Planning, Operation and Maintenance, stormwater, and sludge resiliency.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	The Office of WRM Coordination has held the following public education sessions to provide insight into the new WQMP Rules and the Department's vision for the implementation of them.
<b>Is Funding available for Hazard Mitigation?</b>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Several coordination and partnership meetings and conversations have and continue to take place with NJOEM and FEMA both for general policy and resiliency improvement and individual project enhancement.





## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Environmental Protection - The New Jersey Environmental Infrastructure Financing Program (Program)</b>
<b>Description of Organization</b>	The New Jersey Environmental Infrastructure Financing Program (Program) is a revolving loan program for the construction of wastewater treatment facilities, sludge management systems, combined sewer overflow abatement, stormwater, and other non-point source management projects and to publicly and privately owned drinking water systems for the construction or upgrade of drinking water facilities, transmission and distribution systems, storage facilities, and source development. Funds are made available under the Federal Clean Water and Safe Drinking Water Acts and various state bond acts. The Program is administered by the Municipal Finance and Construction Element (MF&CE), and the New Jersey Environmental Infrastructure Trust (Trust), an independent state financing authority.
<b>Point of Contact</b>	Name/Title: Eugene Chebra, P.E., Asst. Dir. Email: Eugene.chebra@dep.state.nj.us Phone: (609) 292-9977 Address: DEP, 401 East State St., Trenton Website: <a href="http://www.nj.gov/dep/dwq/mface.htm">http://www.nj.gov/dep/dwq/mface.htm</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	The program is able to finance infrastructure repair, replacement and mitigation regardless of the cause.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Technical and Financial Assistance for projects that may include repair, replacement and mitigation.
<b>Does your organization provide technical assistance?</b>	Yes. The Programs engineering and environmental specialist staff provide technical assistance throughout the course of the entire project, from the planning stage through construction completion.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Yes. Especially after Superstorm Sandy the Program's technical review promotes mitigation and resiliency measures in each project under review. The Department is also in the process of issuing further guidance on Flood proofing, Auxiliary Power and proper Asset Management Planning.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	The Office of WRM Coordination has held the following public education sessions to provide insight into the new WQMP Rules and the Department's vision for the implementation of them.
<b>Is Funding available for Hazard Mitigation?</b>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes. Several coordination and partnership meetings and conversations have and continue to take place with NJOEM and FEMA.

# State of New Jersey All-Hazard Mitigation Plan Update

## NJDEP Mitigation Actions



### NEW Mitigation Actions

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP- DSHW	Conduct an inventory of contaminated/dirty debris piles throughout the state that have occurred post disaster	1, 2,4	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	To better understand risk and vulnerability to contaminated sites from debris.	Allows officials to assess threat levels to public health and environmental impacts and take actions to reduce potential losses from hazmat contamination during a hazard.
NJDEP- DSHW	Amend rules to require a 90 day minimum to Temporary Debris Management Areas approvals that are activated	1, 2,6	High	5 years	Existing State Resources	All Hazards	Allows for a continuous operation of debris management at temporary sites to facilitate clean-up	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP- DSHW	Conduct outreach for each county to increase awareness and/or adopt their own Debris Management Plan.	3	High	5 years	Existing State Resources	All Hazards	To better understand and manage debris management at the local levels for hazards	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP- DSHW	Conduct an assessment of public and private debris management facilities to study vulnerability to flooding and identify resiliency measures needed to prevent flooding and other cascading failures during a hazard.	1, 2	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	To better understand and manage debris management at all levels for hazards	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP- DSHW, NJDOT	Coordinate with NJDOT to establish an interagency tracking mechanism to understand impacted transportation networks that prevent the transfer and cleanup of debris during and post hazard event.	5	High	5 years	Existing State Resources	All Hazards	To better manage debris removal during- and post-hazard	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP- DSHW	Generators and “quick connect” points for portable generators for dedicated Waste Management Sites that receive waste post disaster.	2,6	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Ensures waste management sites can continue to receive waste during disaster recovery	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP - Bureau of Dam Safety and Flood Control	Develop a tracking system/database for floodplain managers to upload information on substantially damaged properties, flood permits, elevation certificates, and other flood related information.	2,5	High	5 years	FEMA Grant Funding; CDBG-DR	Flood-Related Hazards	Better data management to track flood-related data critical for the CRS program.	Supports continuity of operations for debris management and facilities rapid disaster recovery
NJDEP - Bureau of Dam Safety and Flood Control	Work with USACE and Stockton University to update shoreline mitigation tables.	5	Medium	5 years	Existing State Resources	Dam and Levee Failure	Partnerships with the U.S. Army Corps of Engineers and Stockton University allow the State to leverage funding to better understand coastal vulnerably.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Bureau of Dam Safety and Flood Control	Support or adopt rules to limit or restrict public funding for elevation of structures in the V zone.	1, 2	Medium	5 years	Existing State Resources	Flood-related Hazards		Strengthen State and local planning, building codes, ordinances, and enforcement
NJDEP - Bureau of Dam Safety and Flood Control	Inventory of Emergency Actions Plans for Dams outside and inside of New Jersey that have the potential to impact New Jersey.	4	High	5 years	FEMA Grant Funding; CDBG-DR	Dam and Levee Failure	Increases awareness and enhances the impact analysis for dam failure for all dams that could impact New Jersey	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Bureau of Dam Safety and Flood Control	Establish database to digitize dam locations and updates to inundation boundary maps	4	Medium	5 years	FEMA Grant Funding; CDBG-DR	Dam and Levee Failure	Allows for a better assessment of risk for dam failures.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Land Use Management	Embed staff at Joint Field Office (JFO) to facilitate the permitting process	5	High	5 years	Existing State Resources	All Hazards	Allows more efficient coordination between NJDEP Staff and the JFO to help facilitate rapid recovery and projects	Encourage the formation of partnerships to leverage and share mitigation resources

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP - Land Use Management / Emergency Management	Establish universal programmatic agreements for public assistance Project Worksheets	5	High	5 years	Existing State Resources	All Hazards	Agreement will bolster communication with NJDEP departments; facilitate closeout and next steps after joint field office leaves; and, to facilitate the capability to waive certain NJDEP requirements to expedite recovery after a disaster.	Encourage the formation of partnerships to leverage and share mitigation resources
NJDEP - Emergency Management	Create and maintain a spatial damage assessment and inventory of damage to park systems and infrastructure from hazard events.	4	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Creates a central spatial database of damage assessments for park systems, whereas the current system is composed of individually submitted spreadsheets.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Emergency Management	Assessment of NJDEP facilities for the need of resiliency improvements, such as installation of new generators.	2,6	High	5 years	Existing State Resources	All Hazards	Inventory of potential resiliency improvements to facilities that can be incorporated into future mitigation actions.	Supports continuity of operations and protection of property for critical infrastructure for emergency operations
NJDEP - Emergency Management/Forest Fire Service	Obtain a communications system upgrade for Forest Fire response. Current system relies on old VHF technology.	5,6	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Enhances communication for fire response	Improve warning and emergency communications systems
NJDEP- Emergency Management/DSHW	Establish contracts for the emergency storage of debris with a Hazmat component in each county to facilitate debris management prior to a hazard event.	5,6	High	5 years	Existing State Resources	All Hazards	Creates agreements and partnerships to identify sites for the storage of debris with a hazmat component to facilitate rapid disaster recovery planning.	Encourage the formation of partnerships to leverage and share mitigation resources
NJDEP - Radiation Protection Element	Enhance radiation monitoring for power plants	4	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Improves monitoring of radiation from power plants to protect life, property, and the environment.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Radiation Protection Element	Strengthen social media campaign to raise awareness of resources and capabilities provided by NJDEP Radiation Protection Element and to increase public education on risk.	3	High	5 years	Existing State Resources	Nuclear Hazards	Raises awareness of the capabilities offered by NJDEP Radiation Protection Element and increases public education on the risk of nuclear hazards.	Increase the awareness of Nuclear hazards
NJDEP - Science Advisory Board/C&E	Create a spatial inventory of storm drains and outfalls to integrate with flood data.	4	Medium	5 years	FEMA Grant Funding; CDBG-DR	Flood-Related Hazards	Inventory of storm drains and outfalls is a data gap in the state that will help model the impacts of flooding	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Science Advisory Board/C&E	Conduct data collection or refine current data to better understand risk and vulnerability to hazards. There are current data gaps in the following areas: sediment loads, low tides, multi-spectral imagery, post-impact assessments, and day time census information.	4	Medium	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Data collection of sediment loads, low tides, multi-spectral imagery, post-impact assessments, and day time census information helps refine risk and vulnerability models of hazards.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Science Advisory Board/C&E	Conduct a comprehensive inventory of private well locations and ground water depth at private wells.	4	High	5 years	FEMA Grant Funding; CDBG-DR	Flooding and Drought Related Hazards	Private well locations are only tracked during the event of a real estate transaction. A comprehensive database of wells and groundwater depth will aid in the understanding of risk and vulnerability to flooding and drought related hazards.	Improves hazard information databases and maps and increase accessibility to those resources
NJDEP - Historic Preservation Office	Create an outreach program to improve disaster preparedness education for cultural resources	3	Medium	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Many cultural resource sites were not considered or prepared during previous flood-related hazards.	Increases the awareness of mitigation planning for cultural resources within the State
NJDEP - Historic Preservation Office	Coordinate and integrate emergency preparedness and historic preservation plans for cultural institutions including libraries, museums, art institutes, etc.	4,5	High	5 years	Existing State Resources	All Hazards	Ensures historic preservation planning and regulations are a consideration in emergency and hazard mitigation planning	Integrates mitigation planning with other State and regional planning initiatives
NJDEP- Green Acres	Create an inventory of properties targeted for large buyouts in coordination with DCA to reduce risk from hazard events	1,2,5	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Purchase of large tracts of land vulnerable to flooding-related hazards prevents impacts to life and property.	Encourages cost-effective and environmentally-sound land use that reduces losses from flood-related hazards.
NJDEP	Install generators at state aquaculture/fishery facilities to ensure the continuous operation of critical equipment for the survival of fish used to stock New Jersey waterways.	2,6	High	5 years	FEMA Grant Funding; CDBG-DR	Fishing Failure	Prevents loss of fish used to ensure New Jersey waterways are stocked	Advances the goal of mitigating losses from the identified fishing failure hazard.
NJDEP - Water Resource Management	Conduct hydraulic modeling and a feasibility study to understand water resources and infrastructure improvements across New Jersey.	4,5	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	Supports understanding of water infrastructure and impacts to drought and flooding-related hazards.	Supports understanding of risks from drought and flooding in relation to New Jersey's water resource management
NJDEP - Water Resource Management	Conduct a study to investigate and refine estimates for total water loss and leakage that occurs throughout New Jersey's water resources.	4,5	High	5 years	FEMA Grant Funding; CDBG-DR	drought and flood-related hazards	Supports understanding of water loss and impacts to drought and flooding-related hazards.	Supports understanding of risks from drought and flooding in relation to New Jersey's water resource management

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP - Water Resource Management	Replacement or improvement of reservoirs deemed to be deficient.	1, 2	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	To reduce risk and vulnerability to water infrastructure	Prevents potential flooding to life and property from deficient reservoirs.
NJDEP - Water Resource Management	Coordinate with the New Jersey Office of Information Technology to enhance protection from cyber attacks	1,2,5	High	5 years	FEMA Grant Funding; CDBG-DR	All Hazards	To reduce risk and vulnerability to water infrastructure from cyber attack	Supports continuity of operations for water infrastructure in New Jersey

Continuing Capability/ Responsibility

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP & NJOEM	2009 PSA 235 Conduct community outreach, workshops and training to increase NFIP participation. (This action is part of the Repetitive Loss strategy – Section 8)	1, 2, 4, 5	High	Continuing Capability / Responsibility	Existing State Resources	Flood	Encourages participation in the program so that losses will be covered and allows eligibility in the FMA program.	Allows for people to receive flood insurance claims and maintains eligibility in the FMA program of which flood insurance is a requirement.
NJDEP	2010 – PSA 121 Encourage enforcement of Flood Plain Management as it relates to new and existing construction.	1	High	Continuing Capability / Responsibility	Existing State Resources and Federal grant funds (FEMA CAP-SSSE)	Flood	To guide communities in a more effective control and use of floodplains.	Improve disaster resistance of structures within the floodplain. Coordinate with the NFIP participating communities through the Community Assistance Program to ensure that they are adopting, properly using and enforcing the Local Flood Damage Prevention ordinances.
NJDEP	2009 PSA 231 Inventory damaged structures.	2	High	Continuing Capability / Responsibility	Existing State Assets and Federal grants	All Hazards	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses.	Retrofitting, elevating or removing repetitive loss properties from known hazard areas protect property and lives as well as preserve personal, state and federal financial resources.
NJDEP	2008 PSA 236 Regulate development to reduce flood losses in vulnerable fluvial and coastal areas.	2	High	Continuing Capability / Responsibility	Existing resources	Flood	Necessary to reduce flood insurance losses in flood prone areas.	Promulgates regulations governing development in flood hazard areas, which reduce flood losses and ensures a safer community.
NJDEP	2008 PSA 237 Continue NJDEP Green Acres, Blue Acres acquisition of repetitive loss and severe repetitive loss structures.	2	Medium	Continuing Capability / Responsibility	New and existing State appropriations	Flood	Requested in local mitigation planning efforts to eliminate repetitive loss structures.	Augments Federal funding to ensure that more structures will no longer be flooded thereby reducing repetitive loss claims.
NJDEP - Bureau of Dam Safety and Flood Control	2008 PSA 238 Continue State funding for federal flood control projects through annual state appropriations under the HR-6 Flood Control project budget.	2	High	Continuing Capability / Responsibility	Existing State resources	Flood	Implemented recommendations and methods would reduce flooding and protect vulnerable public and private properties, infrastructure, utilities and municipal services	Partnerships with the U.S. Army Corps of Engineers and local governments allow the State to leverage our funding to implement flood mitigation projects that provide larger scale protection.
NJDEP - Bureau of Dam Safety and Flood Control	2008 PSA 223 Continue the non-lapsing Shore Protection Fund for shore protection projects, stabilization, restoration or maintenance of the shore, including monitoring studies and land acquisition.	2	High	Continuing Capability / Responsibility	Existing resources	Flood, Coastal Erosion, Hurricanes and Tropical Storms	Implemented recommendations and methods would reduce flooding from storm surge and protect vulnerable evacuation routes on barrier islands.	Partnerships with the U.S. Army Corps of Engineers and local governments allow the State to leverage our funding to implement mitigation projects with larger scale protection. The fund supports coastal engineering research, the Beach Monitoring Network and dune-system assessments.
NJDEP - Forest Fire Service	2008 PSA 261 Continue mechanical thinning and prescribed fire use to reduce hazardous wildland fuel accumulations Statewide, particularly in high-risk areas.	2	High	Continuing Capability / Responsibility	NJFS, federal programs	Wildfire	Historically vulnerable areas require continual mitigation efforts to manage risk. Many vulnerable areas are subject to increasing development pressures, meaning that risk is gradually increasing, although the probability of fire may remain stable because of mitigation efforts.	Improving the health of the forests will make less fuel available for wildland fire and protect forest resources. Protects property and life.



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP - Forest Fire Service	2009 PSA 311 Educate the public through NJOEM and NJFS outreach programs and hazard mitigation workshops.	3	High	Continuing Capability / Responsibility	Existing State resources	Wildfire	To increase participation in hazard mitigation programs for the prevention of potential loss of life and damage to structures.	Encourages the development of Pre Disaster Mitigation plans and participation in mitigation grant programs.
NJDEP - Forest Fire Service	2009 PSA 312 Participate in the Emergency Preparedness Conference with workshops.	3	High	Continuing Capability / Responsibility	Existing State resources	Wildfire	The Emergency Preparedness Conference is an important venue to promote and increase participation in hazard mitigation programs and reaches a wide variety of people and interests.	Encourages the development of Pre Disaster Mitigation plans and participation in mitigation grant programs.
NJDEP - Forest Fire Service	2010 PSA 323 Develop a hazard event GIS database to help State and local emergency managers with hazard mitigation and other planning initiatives.	3	High	Continuing Capability / Responsibility	Existing resources	Wildfire	The current NJOEM GIS database to capture and organize the volume of information generated by research and actual disaster events needs to be expanded.	Improving knowledge of hazards and hazard events will improve mitigation and other planning designs to reduce the impact of hazard events on local and state economies.
NJDEP - Forest Fire Service	2008 PSA 262 Encourage community acceptance and inclusion of Firewise concepts in municipal and regional planning	2	Medium	Continuing Capability / Responsibility	Fosters defensible space and community development standards to improve survivability of residences during wildfire incidents	Wildfire	Allows continuity of mitigation efforts between communities and other open lands.	Improving the health of the forests will make less fuel available for wildland fire and protect forest resources.
NJDEP - Forest Fire Service	2008 PSA 263 Develop and implement effective silviculture strategies that improve the health of forests and reduce the amount of fuels available for wildland fires from dead and dying trees.	2	Medium	Continuing Capability / Responsibility	Existing resources and National Fire Plan grants	Wildfire	A portion of the state's forests has trees killed or defoliated by forest insects or disease.	Improving the health of the forests will make less fuel available for wildland fire and protect forest resources.
NJDEP - Forest Fire Service	2008 PSA 264 Limit the number of wildfires to fewer than 2,000 annually and the acreage burned to less than ½ of 1% of the state forest.	2	Medium	Continuing Capability / Responsibility	Existing resources	Wildfire	Minimizes wildfire ignitions and limits acreages burned by breaking up large areas of hazardous fuels.	Provides access for suppression and enforcement as well as contingency lines for prescribed burning and wildfire control. Improve public acceptance of efforts
NJDEP - Forest Fire Service	2009 PSA 345 Ensure that each municipality and county develops a wildfire preparedness plan for incorporation into their local and county emergency management plans.	3	Medium	Continuing Capability / Responsibility	FEMA Fire Management Assistance Grant Program; National Fire Plan grants and NJDEP Community Wildfire Hazard Mitigation Grants, others.	Wildfire	Provides resources for preparing mitigation plans and implementation of measures to mitigate wildfire hazards	Helps to address goals of protecting life and property.
NJDEP - Forest Fire Service	2008 PSA 123 Provide a legislative process to conduct wildland fuel reduction efforts on private properties.	1	Medium	Continuing Capability / Responsibility	NJFS	Wildfire	Incomplete cooperation on various land ownerships disrupts linear continuity of mitigation efforts	Protects life and property.
NJDEP, & NJOEM, New Jersey Treasury	Inventory flood damage structures (This action is part of the Repetitive Loss Strategy – Section 8)	2	High	Continuing	Existing state assets and federal grants	Flood	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses	Retrofitting, elevating or removing RL properties from known hazard areas protect property and lives as well as preserve personal, state, and federal financial resources
NJDEP	Elevation Program – This program continues to provide grants to help homeowners elevate their homes to provide increased flood protection.	2, 5	High	5 years	FEMA Grant Funding; CDBG-DR	Flood	Enhance home protection during flood events	Reduce damage to homes
NJDEP	2011 Action 240 Encourage greater municipal CRS participation through county and municipal educational programs.	2	Medium	3 years (2014)	Existing NJDEP resources	Flood	Greater CRS participation will promote general flood hazard awareness, increase flood insurance coverage and reduce flood policy costs and decreases flood losses	Increase the awareness of flood hazards.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP	2011 Action 241 Encourage regional authorities, with established land use regulatory authority to participate in the NFIP CRS program	2	Medium	3 years (2014)	Existing NJDEP resources The Meadowland Commissions can be used as a model	Flood	Greater CRS participation will promote general flood hazard awareness, increase flood insurance coverage and reduce flood policy costs.	Increase flood hazard awareness and provide greater flood insurance coverage at lower costs.
NJDEP & NJDCA	2008 Action 141 Integrate NFIP standards and Firewise into the uniform construction codes utilized by the State.	1, 2	High	2 years (2013)	Existing State funds	Flood	Incorporate NFIP requirements into the New Jersey Uniform Construction Code to reduce flood losses.	Reduction of flood losses will reduce flood insurance claims.
NJDEP - Forest Fire Service	2008 Action 471 Develop and implement a State database/GIS to track and archive past wildfire occurrences.	4	Medium	Within 2 years (2013)	PDM Grant	Wildfire	Map of all areas of the State with the ranking of the threat from wildland fuels will assist in local and regional planning	Provides basis for Pinelands Commission and other defensible space regulations and enforcement.
NJDEP - NJGWS	2008 PSA 351 Enhance public education and outreach efforts to increase awareness of earthquake hazards and risk in New Jersey.	3	Low to Medium	Included as a Continuing Mitigation Program As Noted Above	Existing State staff and funds	All Hazards	Protects life and property	Advances goals of protecting life and property.
NJDEP, NJOEM, & Local Governments	Encourage resolution of flooding issues on NFIP identified Repetitive and Severe Repetitive properties	2	High	Continuing	DEP Green Acres funding, FEMA Grant Funds, Local dedicated Open Space funds, Private contributions	Flood	Increases the level of protection from flooding throughout the state to a large segment of vulnerable population.	Advances the goal of several mitigation programs.
NJDEP - NJGWS	2008 PSA 441 Overlay an inventory of State-owned critical facilities with the level of seismic hazard at each location, using the USGS national seismic hazard maps and the New Jersey Geological Survey maps of seismic soil classes.	4	Medium	Included as a Continuing Mitigation Program As Noted Above	To be determined	All Hazards	Serves as first step in a long-term plan to reduce risks to the most critical State facilities.	Results in protecting both life and property.
NJDEP - NJGWS	2008 Action 443 Complete HAZUS loss estimation runs for the mostly likely damaging earthquakes for New Jersey	4	Medium	Estimated at two years with FEMA grant	Existing NJGS staff and financial resources.	Earthquakes	Part of a larger process to identify most at-risk areas, as basis to determine where State mitigation resources can best be used henceforth.	Results in protecting both life and property.
NJDEP - NJGWS	2008 PSA 321 Incorporate existing HAZUS/NYCEM earthquake studies into the SHMP and indicate completion schedule for other counties	3	Highest	Included as a Continuing Mitigation Program As Noted Above	FEMA grant funding needed	All Hazards	HAZUS and NYCEM data will be invaluable in the development of mitigation planning, for both the State and local communities by providing a comprehensive database for mitigation planning.	Assists in developing state and local mitigation plans with current information.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDEP	Buyout Program - Approximately 1,000 homes impacted by Superstorm Sandy will be targeted by the buyout program, in addition to another 300 repetitively flood-damaged homes located in the Passaic River Basin.	1, 2	High	Continuing	FEMA Grant Funding; CDBG-DR; and other State funds	Flood	Provide funding for the acquisition of homes in Sandy-impacted areas subject to repetitive flooding.	Properties purchased through the program will be removed and the remaining land reverted back to its natural state resulting in the mitigation of flooding for neighboring communities.
NJDEP	Improve water supply resiliency by increasing interconnections amongst water supply systems throughout the State	1	High	5 years	FEMA Grant Funding and existing State Funding Options, potentially including EPA/SRF funds	All Hazards	Existing water systems need to establish interconnections and alternate water supplies to sustain residential water service.	Provides resiliency and long-term water supply.
NJDEP & NJOSHSP	Update information technology and mapping systems	1, 2	High	10 years	FEMA Grant Funding, other federal funds and existing State funding options	All Hazards	Mapping and measuring tools will help analyze future hazards.	Facilitates a better understanding of natural systems.
NJDEP, NJOEM, & NJEDA	Improve retail fuel stations’ ability to provide fuel in the event of power disruptions through the Liquid Fuel Resilience Program, which provides funding for onsite generators and “quick connect” points for portable generators.	1, 2	High	5 years	FEMA Grant Funding	All Hazards	Builds resilience in fuel supply and distribution.	Provides liquid fuel supply continuity during future hazards. Refer to Appendix E for additional details (2013 New Jersey State Hazard Mitigation Plan Amendment).
NJDEP, NJOEM, NJOHSP, NJBPU, and others	Implement an Energy Allocation Initiative that provides government units with financing for alternative energy projects to reduce demand on the power grid during an event and while the State recovers from any grid disruption	1, 2, 6	High	5 years	FEMA Grant Funding	All Hazards	Provide energy resiliency to municipalities, counties and other government units to pursue creative and cost-effective alternatives to enhance statewide energy resilience.	Provides energy resiliency. Refer to Appendix E for additional details (2013 New Jersey State Hazard Mitigation Plan Amendment).



## **SOUTH JERSEY TRANSPORTATION AUTHORITY (4/11/2018)**





State of New Jersey All-Hazard Mitigation Plan Update  
Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: SJTA

Date: 4/11/2018

Name	Organization	Email Address	Phone Number
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James Sullivan	SJTA	JSullivan@SJTA.com	609-561-6400
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# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

**South Jersey Transportation Authority**

**Date: 4/11/2018**

**Time: 1pm**

**Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>
Gil Bosque	MBI		bgosque@mbakerintl.com
Stephan Mazur	SJTA	Director of Engineering and Chief Engineer	Stephenmazur@sjtpa.com
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James Sullivan	SJTA	Director of Operations	jsullivan@sjtpa.com
Greg Bradley	SJTA		gbradley@sjtpa.com

**Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

Capability Assessment:

The South Jersey Transportation Authority (SJTA) was established by the Legislature in June 1991 to assume operational responsibilities for the Atlantic City Expressway, Atlantic City International Airport terminal, and parking facilities in Atlantic City. As a successor to the New Jersey Expressway Authority and Atlantic County Transportation Authority (ACTA), the SJTA serves six counties --- Atlantic, Camden, Cape May, Cumberland, Gloucester, and Salem.

SJTA coordinates with emergency evacuation exercises on the Atlantic City Expressway. and provides maintenance of State Police operations for the Expressway and the Emergency Service Patrol (ESP). SJTA has noted a desire to increase coordination with NJOEM to enhance hazard mitigation activities.

Mitigations Actions:

SJTA provided a sheet of identified mitigation projects that have been identified since Superstorm Sandy (attached).

Request was made to provide additional information on funding opportunities through FEMA's grants.

## South Jersey Transportation Authority

Projects

2013

ADD 10-12%

### Recommended mitigation projects in the aftermath of Hurricane Sandy

1. Raise the last 4.5 miles of the Atlantic City Expressway, \$250M
  - a. The Expressway is the only evacuation route for Absecon Island, which includes Atlantic City, Brigantine, Ventnor and Margate. During Hurricane Sandy, the last 4.5 miles of the Expressway flooded for the first time in its 50+ year history. This project would raise the elevation of the road surface 30 inches, which should guard against a similar occurrence in the future.
2. Raise portion of the Atlantic City Expressway Connector roadway, \$15M
  - a. Portions of the Connector, which connects the end of the Atlantic City Expressway proper to the Brigantine Bridge, were under water during Hurricane Sandy. The Connector runs north/south along the backbay area of Atlantic City and connects to the tunnel. The at-grade road in certain area would be elevated by 24 inches to prevent a similar occurrence from happening in the future.
3. Improvements to the primary electric service to the NJ State Police station located at the Farley Service Plaza on the Atlantic City Expressway, \$3.5M
  - a. The current primary electric feed (the only electric feed) to the only State Police station on the Expressway is currently serviced by an aerial wire that passes through a heavily wooded area. This project would convert that feed to underground, which would protect against loss of power associated with future weather events.
4. Scour protection for the Atlantic City Expressway Connector bulkhead, \$12M
  - a. The Connector runs north/south along the backbay portion of Atlantic City. During Hurricane Sandy, portions of the bulkheading experienced erosion and scour associated with the storm surge. Reinforcement to existing bulkheads as well as other mitigation measures will be established to prevent this from happening in the future.
5. Pleasantville Toll Plaza sanitary sewer system improvements, \$6M
  - a. During Hurricane Sandy the sanitary sewer system flooded and caused significant damage to the pumps and associated equipment causing the system to be shut down for an extended period of time. This project will elevate critical portions of the system to guard against a similar occurrence in the future.
6. Enhanced detection system on the eastern end of the Atlantic City Expressway, \$18M
  - a. This project will to add and incorporate ITS devices (intelligent traffic systems) into the Expressway's current ITS system that will be designed to monitor flood-prone areas during weather events. Types of devices to be deployed are variable

message signs (VMS), CCTV cameras, weather stations, traffic monitoring equipment, etc. The Expressway already has a fiber optic backbone that these additional devices can be connected to as well as existing head-end equipment at our 24/7 communications/dispatch center, where the data will be viewed and analyzed. Having a heightened ability for early and consistent detection and monitoring will allow for better response and reduced delays during critical times of evacuation and disaster response.





# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>South Jersey Transportation Authority</b>
<b>Description of Organization</b>	The South Jersey Transportation Authority (SJTA) was established by the Legislature in June 1991 to assume operational responsibilities for the Atlantic City Expressway, Atlantic City International Airport terminal, and parking facilities in Atlantic City. As a successor to the New Jersey Expressway Authority and Atlantic County Transportation Authority (ACTA), the SJTA serves six counties --- Atlantic, Camden, Cape May, Cumberland, Gloucester, and Salem.	
<b>Point of Contact</b>	Name/Title: Stephen M. Mazur, Director of Engineering and Chief Engineer Email: stephenmazur@sjta.com Phone: (609) 561-6643 Address: PO Box 351 Hammonton, NJ 08037 Website: <a href="https://www.sjta.com/sjta/contact.asp">https://www.sjta.com/sjta/contact.asp</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Flood Related Hazards and Terrorism	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Providing the traveling public with safe and efficient transportation over the Atlantic City Expressway (a Hurricane Evacuation Route) and Atlantic City International Airport.	
<b>Does your organization provide technical assistance?</b>	SJTA has a dedicated staff of professionals that are responsible for the design and construction of capital projects and environmental mitigation on the the Atlantic City Expressway and the Atlantic City International Airport.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	N.J.A.C. 19:2 (2014) 19:2-3.9 Civil Defense regulations 19:2-4.4 Transportation of dangerous articles	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Emergency evacuation exercises are conducted in coordination with the State Police on the Atlantic City Expressway.	
<b>Is Funding available for Hazard Mitigation?</b>	No	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	SJTA coordinates with emergency evacuation exercises on the Atlantic City Expressway. and provides maintenance of State Police operations for the Expressway and the Emergency Service Patrol (ESP). SJTA has noted a desire to increase coordination with NJOEM to enhance hazard mitigation activities.	

# State of New Jersey All-Hazard Mitigation Plan Update

## South Jersey Transportation Authority Mitigation Actions



**Michael Baker**  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
South Jersey Transportation Authority	<b>Improvements to the primary electric and natural gas service to the NJ State Police station located at the Farley Service Plaza on the Atlantic City Expressway.</b>	6	High	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The current primary electric feed (the only electric feed) to the only State Police station on the Expressway is currently serviced by an aerial wire that passes through a heavily wooded area. This project would convert that feed to underground, which would protect against loss of power associated with future weather events. Natural Gas service would provide a more reliable back up power generation for the station as well.	Helps support the continuity of operations pre-, during, and post-hazard events for the State Police.	New for this Plan
South Jersey Transportation Authority	<b>Raise the last 4.5 miles of the Atlantic City Expressway</b> The Expressway is the only evacuation route for Absecon Island, which includes Atlantic City, Brigantine, Ventnor and Margate. During Hurricane Sandy, the last 4.5 miles of the Expressway flooded for the first time in its 50+ year history. This project would raise the elevation of the road surface 30 inches, which should guard against a similar occurrence in the future.	1,2,6	High	To be determined	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather, Severe Winter Weather and Economic Collapse.	The elevation and/or floodproofing of roadways from potential inundation during a high-water event advances the Authority's mission of providing safe roadways by protecting life, property and ensuring the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	The continuity of operations pre-, during, and post-hazard events is particularly important for the Authority's roadway, as it serves as a coastal evacuation route. Lastly, providing a safe toll road system that is in a state of good repair helps ensure the success of the New Jersey economy.	New for this Plan
South Jersey Transportation Authority	<b>Raise portions of the Atlantic City Expressway Connector roadway.</b> Portions of the Connector, which connects the end of the Atlantic City Expressway proper to the Brigantine Bridge, were under water during Hurricane Sandy. The Connector runs north/south along the backbay area of Atlantic City and connects to the tunnel. The at-grade road in certain area would be elevated and connects to the tunnel. The at-grade road in certain area would be elevated by 24 inches to prevent a similar occurrence from happening in the future.	1,2,6	High	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather, Severe Winter Weather and Economic Collapse.	The elevation and/or floodproofing of roadways from potential inundation during a high-water event advances the Authority's mission of providing safe roadways by protecting life, property and ensuring the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	The continuity of operations pre-, during, and post-hazard events is particularly important for the Authority's roadway, as it serves as a coastal evacuation route. Lastly, providing a safe toll road system that is in a state of good repair helps ensure the success of the New Jersey economy.	New for this Plan

State of New Jersey All-Hazard Mitigation Plan Update  
South Jersey Transportation Authority Mitigation Actions



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
South Jersey Transportation Authority	Scour protection for the Atlantic City Expressway Connector bulkhead	1,2	Low	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	The connector runs north/south along the backbay portion of Atlantic City. During Hurricane Sandy, portions of the bulkhead experienced erosion and scour associated with the storm surge. Reinforcement to existing bulkheads as well as other mitigation measures will be established to prevent this from happening in the future.	Advances the Authority's mission of providing safe roadways by protecting life, property and ensuring the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	New for this Plan

# State of New Jersey All-Hazard Mitigation Plan Update

## South Jersey Transportation Authority Mitigation Actions



**Michael Baker**  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
South Jersey Transportation Authority	<b>Pleasantville Toll Plaza sanitary sewer system elevation.</b>	2,6	Medium	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	During Hurricane Sandy the sanitary sewer system flooded and caused significant damage to the pumps and associated equipment causing the system to be shut down for an extended period of time. This project will elevate critical portions of the system to guard against a similar occurrence in the future.	This project will elevate critical portions of the system. Elevation and/or floodproofing of toll plazas from potential inundation during a high-water event advances the Authority's mission of providing safe roadways and protects life, property and ensures the continuity of operations of government, non-government, commerce, private sector, and infrastructure.	New for this Plan
South Jersey Transportation Authority	<b>Enhance signage and Intelligent Traffic Systems (ITS) detection systems on the Atlantic City Expressway.</b> This project will add and incorporate ITS devices into the Expressway's current ITS system that will be designed to monitor flood-prone areas during weather events. Types of devices are variable message signs, CCTV cameras, weather stations, traffic monitoring equipment, etc. The Expressway already has a fiber optic backbone that these additional devices can be connected to as well as existing head-end equipment at our 24/7 communications/ dispatch center, where the data will be viewed and analyzed.	1,5	Medium	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Having a heightened ability for early and consistent detection and monitoring will allow for better response and reduced delays during critical times of evacuation and disaster response.	Helps support the continuity of operations pre-, during, and post-hazard events for the State Police.	New for this Plan
South Jersey Transportation Authority	<b>Purchase and Install dual (natural gas and diesel) hook-ups for emergency generators at critical sites and facilities that support SJTPA operations.</b>	1,5	Medium	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Having a heightened ability for early and consistent detection and monitoring will allow for better response and reduced delays during critical times of evacuation and disaster response.	Helps support the continuity of operations pre-, during, and post-hazard events for the State Police.	New for this Plan



State of New Jersey All-Hazard Mitigation Plan Update  
South Jersey Transportation Authority Mitigation Actions



Michael Baker  
INTERNATIONAL

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
South Jersey Transportation Authority	Elevate above-ground storage tanks to be 2 feet above the base flood elevation.	1,5	Medium	5 Years	FEMA HMA	Flood; Hurricane and Tropical Storm; Nor'easters; Sever Weather and Severe Winter Weather.	Reduces losses from hazadious substance hazards caused by flood waters and supports continuti of operations.	Protects proerty and helps support the continuity of operations pre-, during, and post-hazard events for the SJTPA	New for this Plan



## **NJOEM MEETING (6/22/2018)**



State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

Organization: NJOEM Date: 6/22/2018

Name	Organization	Email Address	Phone Number
Michael Yaffe	Michael Baker	myaffe@mbakintl.com	
David HOSAK	FEMA R2	david.hosak@fema.dhs.gov	
Howard Wolf	FEMA R2	Howard.Wolf@FEMA.DHS.GOV	
LUKA Connolly	NJOEM	lppconnl@quinsip.org	
Chris Testa	NJOEM	lpptestc@quinsip.org	
Craig Wetzger	Michael Baker	cwetzger@mbakintl.com	

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## NJ Office of Emergency Management

**Date:** 6/22/2018

**Time:** 1 pm

**Location:** State Police Headquarters

### Attendees:

Name		Title	Email
Chris Testa	NJOEM	Project Manager	lpptestc@gw.njsp.org
David Hojsak	FEMA	Region II Mitigation	David.hojsak@fema.dhs.gov
Howard Wolf	FEMA	Region II Mitigation	Howard.wolf@fema.dhs.gov
Laura Connolly	NJOEM	Operations Analyst	<a href="mailto:lpconnl@gw.njsp.org">lpconnl@gw.njsp.org</a>
Craig Wenger	Michael Baker Intl.	Project Manager	<a href="mailto:cwenger@mbakerintl.com">cwenger@mbakerintl.com</a>
Michael Yaffe	Michael Baker Intl.	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

### Minutes/Notes:

#### NJOEM Standard Operating Procedure

##### Overall

- NJOEM and Michael Baker will host a round table discussion about SOP changes and new jurisdictional plan requirements with various stakeholders as identified by NJOEM.
  - Create a Planning Specific Handout – What goes into the new Plan/Changes of SOP?
- Remove reference to 2008 in SOP

##### Plan Update-

- Jurisdiction updating the plan shall review and consider items included in FEMA's and State's review. If items are not addressed, then the jurisdiction should provide an explanation.
- Include crosswalk tool to track changes.
- Plan should include an executive summary of changes to the plan.

##### Standard Risk Template –

- Standard Risk Template for equal comparison of risk across plans.
- Plans can reference Hazard IDs in the State Plan to make jurisdictional plans more concise and focus on what changed in community that lessened or increased risk to the profiled hazard.

##### Plan Maintenance –

- At least one county coordinator meeting per year becomes a HMP update meeting.



- Howard Wolf created a plan maintenance form based on NYC's form.

#### **Plan Annexes –**

- Each participating jurisdiction will have its own appendix that highlights and details their mitigation actions.
- List of valid specific mitigation actions for each of the RL/SRL structures

#### **Endorsement Sheet –**

- Howard has a recommended endorsement sheet that has been used in other plans
- Should include sign-off from:
  - Code officer
  - Flood Plain Manager
  - Engineer
  - Planner

Professionals should agree to the following statement: "I reviewed the Hazard Mitigation Plan and certify it is consistent with the professional duties of my office"

#### **Submittals -**

- Eliminate Paper/CD submittal – submit on flash drives or internet-based transmission
- Encourage plan to be available online to the community.
- Require a MS Word document and PDF version of the final document be submitted to the County/State OEMs.

#### **NJOEM Handouts –**

##### **All Sheets:**

- Update State Hazard Mitigation Officer/ Add Chris Testa on all sheets
- Update NJOEM Logo
- Add sheet on CRS/HMP integration

##### **Sheets:**

- Hazard Types - [UPDATE](#)
- **FACT SHEET - FEMA Grant programs administered by NJOEM Hazard Mitigation - REMOVE**
- Reprint of 44 Code of Federal Regulation (Partial - as of October 1, 2004)
- **Local Mitigation Planning - REMOVE**
- **Hazard Mitigation - Goals, Objectives, and Strategy - REMOVE**
- **A Natural Hazard Mitigation "Project" Saves Money - REMOVE**
- **Partners in Open Space - REMOVE**
- Flood Losses – [NJOEM/Dam Safety – UPDATE/Coordinate with Joe](#)
- Community Rating System – [NJOEM/Dam Safety – UPDATE/Coordinate with Joe](#)
- **Technical Fact Sheets designed as a Home Builder's Guide to Coastal Construction –**

[NJOEM/Dam Safety - ADD to Resources/Links](#)

- The National Flood Insurance Program – NJOEM/Dam Safety - REMOVE
- Federal Grants Management, Summary of Post-Award Requirements - REMOVE
- Core FEMA Mitigation Publications - [ADD to Resources/Links](#)
- Consequences of not having a FEMA Approved All Hazards Mitigation Plan - [UPDATE](#)
- Municipal Dedicated Open Space resulting from a FEMA Property Acquisition Grant requiring Bi-annual inspection - REMOVE
- What is Mitigation – [Update/Create Infograph](#)
- HAZUS - REMOVE
- Benefit/Cost Analysis - [UPDATE](#)
- Flood Mitigation Assistance - REMOVE
- FEMA's Presidential Declaration Process Fact Sheet- [ADD to Resources/Links](#)
- Hazard Mitigation Grant Program - [ADD to Resources/Links](#)
- Allowable Mitigation Projects - REMOVE
- The Repetitive Flood Claim Program - REMOVE
- F E M A – The Agency - [ADD to Resources/Links](#)
- Hazard Mitigation Assistance (HMA) Decision Matrix
- Procedures – [Move to SOP – LC will review](#)
- Submitting Local Hazard Mitigation Plans for NJOEM Review Following the 2008 Local Multi-Hazard Mitigation Planning Guidance - REMOVE
- Sample Scoring Sheet for Mitigation Project Priority
- Map Modernization, [NJOEM/Dam Safety - UPDATE/Coordinate with Joe](#)
- NJOEM Planning Tool Info - REMOVE
- Increased Cost of Compliance [NJOEM/Dam Safety - UPDATE/Coordinate with Joe](#)
- Public Assistance Program
- Federal Mitigation Programs, Activities, And Initiatives - [ADD to Resources/Links](#)
- Why Acquisition? - [Update/Create Infograph](#)
- Eligible Mitigation Actions - [ADD to Resources/Links](#)
- Understanding the Alphabet Soup of Acquisition - REMOVE
- Updating an All Hazards Mitigation Plan - REMOVE
- Multi-Jurisdictional Planning Participation - REMOVE
- NJOEM Planning Tool Information – [Move to SOP](#)
- New Jersey Presidential Declarations - [ADD to Resources/Links](#)
- Letter of Intent – [Update/now electronic – MB3 training officer - April](#)
- RiskMAP and Mitigation Plan Development - REMOVE
- Universities, Colleges, and Authorities - REMOVE
- Plans, Codes, and Ordinances – [Incorporate into Endorsement Form](#)
- New FEMA Hazard Mitigation Plan Guidance - REMOVE
- Elevation - REMOVE
- Incorporating Mitigation into Planning Mechanisms- REMOVE

# State of New Jersey All-Hazard Mitigation Plan Update

## NJOEM Mitigation Actions



### "New" Mitigation Actions from the 2014 Plan

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM	Following the development and completion of the NJ Transit and PANYNJ vulnerability assessments (discussed in Section 5.1), the 2017 Plan update will incorporate their findings, recommendations and actions.	1, 2, 6	High	3 years	Federal and State Resources	All Hazards	Further development of risk profiles and vulnerability assessments. Increased plan and program integration.	Develop mitigation actions for critical infrastructure.
NJOEM	To provide technical assistance to Counties regarding hazard mitigation plan updates to ensure consistency across local capability assessments, risk ranking and vulnerability assessments.	4, 5	High	3 years	Federal and State Resources	All Hazards	Consistent methodology and reporting of local plans will allow for an efficient roll-up of local plans and further enhance the State HMP.	Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.
NJOEM	To develop a mitigation after-action template, and use this tool to capture lessons learned and success stories post-disaster.	4, 5, 6	High	Within 18 months of a disaster declaration	Internal NJOEM resources	All	After-action reports are an integral part of the emergency preparedness planning continuum and support effective crisis response and mitigation.	Lessons learned can be used to proactively develop and enhance State and county mitigation plans and procedures that will support resiliency.
NJOEM	A data capture tool (spreadsheet or otherwise) will be developed that will support the aggregation and archiving of municipal, county, and local events and loss data as it becomes available in the post-disaster recovery period.	4, 5	Medium	3 years	Internal NJOEM resources	All	The data capture system shall be designed and made available to support local mitigation planning and grant application (benefit-cost) activities, and shall serve as a basis for the regular update of the State risk assessment.	Enhance State and local mitigation capabilities to reduce hazard vulnerabilities.
NJOEM	Promote the integration of findings and actions of local mitigation plans into other local planning mechanisms.	5	Medium	3 years	Federal and State Resources	All Hazards	Coordination of efforts	Supports resiliency

### Continuing Mitigation Actions Carried Forward from the 2011 Plan (2014 SHMP)

NJOEM	2011 Action 133 Encourage resolution of flooding issues on NFIP identified Repetitive and Severe Repetitive properties	1	High	Continuing	DEP Green Acres funding, FEMA Grant Funds, Local dedicated Open Space funds, Private contributions	Flood	Increases the level of protection from flooding throughout the state to a large segment of vulnerable population.	Advances the goal of several mitigation programs.
NJOEM	2009 Action 212 Prioritize structural and nonstructural retrofits for critical State-owned facilities based on their vulnerability to natural hazards.	2	High	3 years - 2014	Existing State Resources and possible mitigation grant funds	All Hazards	Prioritizing will address the most vulnerable structures first.	Retrofitting facilities based on their vulnerability will preserve important state buildings, as well as protect their records, systems and occupants from hazard events.
NJOEM	2008 Action 221 Inventory non-state owned critical assets that are vulnerable to natural hazards.	2	High	Continuing	Existing resources	All Hazards	Establishes comprehensive GIS-based repository for data on critical non-State owned facilities.	Database will allow identification of non-State owned critical facilities so that they may be targeted for future mitigation projects.
NJOEM	2008 Action 253 Initiate mitigation projects to reduce risks to State-owned critical facilities located in V and VE zones	2	Medium to High	To be determined based on funding.	FEMA grant programs, with State	All Hazards	Protects critical facilities.	Contribute to goals of protecting property and life.
NJOEM	2008 Action 344 Develop and maintain local government mitigation planning assistance/coordination web page.	3	Highest	6 months (2011)	Existing state resources	All Hazards	Provide up to date reference for the development and updating of local hazard mitigation plans.	This local information will be utilized in the updating of the State Hazard Mitigation Plan.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM	2011 Action 346 Encourage greater active county involvement in plan updates and local project development through establishing "Plan Update" training courses to assist counties in fulfilling the plan maintenance sections of their plans.	3	Medium	3 years (2014)	Existing NJOEM Resources	All Hazards	Brings about a greater degree of coordination between state, county and local emergency managers in plan maintenance.	Advances the goal full awareness of all hazards on all levels.
NJOEM	2008 Action 361 Encourage the NJ League of Municipalities to become more involved in mitigation activities.	3	Medium	Continuing	Existing staff	All Hazards	Helps to spread concepts of mitigation to new areas.	Advances all goals in the plan by increasing preparedness and knowledge of citizens, and law and policymakers.
NJOEM	2008 Action 411 Continuingly update the State Hazard Mitigation Plan to ensure that it includes the most current technical information, serves as a reference and guidance document for local and regional planners, and reflects current State policies, practices and priorities.	4	High	Continuing	Existing staff, support from MCT and SHMT. Potential for additional funding through FEMA grant programs.	All Hazards	Federal requirement. In order to maximize the utility of the plan, it must be constantly updated to include most recent information.	Basis for most of the State's decisions about mitigation actions and strategies.
NJOEM	2008 Action 421 Compile a GIS-based inventory of State-owned critical facilities Statewide	4	High	Two to five years (2016)	Existing staff, possibly consultants depending on funding availability	All Hazards	Developing basic information such as this will allow the State to meet federal requirements for prioritizing mitigation grant funds that will be directed to reducing losses to State-owned and operated facilities. Furthermore, and more importantly, this information will allow the State to make informed decisions regarding the use of federal and State resources to reduce potential damages.	This action is the basic building block of a mitigation strategy. Completing this action is the first step in meeting the goals of protecting lives and property, as related to State facilities
NJOEM	2008 Action 461 Conduct a survey of wind vulnerabilities, based on criteria such as age of the facility, value of operations, proximity to the coast, etc.	4	Medium	To be determined	State funds, dependent on budget priorities.	All Hazards	Although wind is not as significant a risk to the State as some other hazards, there are likely some State facilities that are quite vulnerable to wind hazards, and where these vulnerabilities may be relatively inexpensive to mitigate.	Basis for prioritizing actions to mitigate risk.
NJOEM	2008 Action 491 Ensure coordination with the State Planning Commission	4	High	Continuing	Existing State Resources	All Hazards	To ensure that growth plans do not conflict with hazard mitigation and response planning.	To enhance the State's coordination abilities.
NJOEM	2008 Action 493 Identify and describe existing plans addressing hazard mitigation issues for review and integration into the SHMP.	4	Medium	Continuing	Existing State resources	All Hazards	Develop plans for their effective use and integration with other agencies' for use of existing resources to reduce losses.	Enhances local capabilities to utilize public and private resources.
NJOEM	2008 Action 511 Seek funding for additional staff and resources	5	High	Continuing	To be determined, probably State of New Jersey and FEMA.	All Hazards	Federal requirement. In order to maximize the utility of the plan, it must be constantly updated to include most recent information.	Basis for most of the State's decisions about mitigation actions and strategies.
NJOEM	2008 Action 512 Provide ongoing staff and resources to keep the State plan a living document.	5	High	Continuing	State, NJOEM. Sandy funds	All Hazards	Ensures that the plan is a current and technically accurate document.	Ensures that all aspects of the HMP are current, and enhances resources available to local and regional planners.
NJOEM	2008 Action 521 Ensures that mitigation planning continues to evolve in the State	5	Medium	Continuing	NJOEM, FEMA, NJ counties and local jurisdictions.	All Hazards	Ensures that mitigation planning continues to evolve in the State, and that efforts of State, federal government and local jurisdictions are aligned.	Ensures a regional and statewide mitigation planning effort. Planning participation at the local level is expanding beyond municipalities to other institutions and independent subdivisions of State government.
NJOEM	2008 Action 531 Increases technical quality of HMP and abilities of State	5	Medium	Continuing	Various, including NJOEM, FEMA, local and national partners.	All Hazards	Increases technical quality of HMP and abilities of State, local and regional planners	Ensures that technical aspects of the plan and mitigation activities are based on best available technology and data.
NJOEM	2011 Action 132 Encouraging College/university participation in the mitigation planning process.	3	Medium	Continuing	Existing NJOEM Resources	All Hazards	Increase level of protection to eligible, but not covered jurisdiction, from all natural hazards and a greater awareness throughout the state to a large segment of the vulnerable population.	Advances the goal of achieving 100% mitigation planning coverage



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM	2011 Action 224 Establish an annual “mitigation” meeting to which a target group on a specific subject will be invited on a 3 year rotating schedule	2	Medium	3 years (2014)	Existing NJOEM Resources	All Hazards	Increase level of protection to eligible, but not covered jurisdiction, from all natural hazards and a greater awareness throughout the state to a large segment of the vulnerable population.	Advances the goal of achieving 100% mitigation planning coverage
NJOEM	2008 Action 251 Use HAZUS to identify local or regional police, fire, hospital and emergency operations centers that are in FEMA-designated V and VE flood zones.	2	Medium to High	One year (2011)	Existing NJOEM and local/regional resources	All Hazards	First step in initiating mitigation activities to protect critical facilities.	Protects property, and because the facilities in question are critical in nature, by extension these activities also contribute to the goal of protecting life, as well as maintaining the effective operation of government operations that may be essential in the post-event environment.
NJOEM	2008 Action 252 Undertake detailed vulnerability assessments and develop mitigation options for State-owned critical facilities in V and VE zones.	2	Medium to High	To be determined based on funding.	To be determined, probably NJOEM and regional or local entities.	All Hazards	Step in process of securing grant funds to mitigate risks to these sites.	Contributes to goals of protecting property and life.
NJOEM	2011 Action 362 Encourage plan participation by non-participating local governments	3	High	Continuing	Existing NJOEM Resources	All Hazards	Increase level of protection from all natural hazards and a greater awareness throughout the state.	Advances the goal of achieving 100% mitigation planning coverage
NJOEM	2011 Action 412 Make the AHP web site more user friendly and maintain, as part of the web site, all handouts and information developed for public distribution with current information	4	High	2014	Existing NJOEM resources and NJSP Public Information Office.	All Hazards	Increased access to the NJ AHP will help spread the concept of hazard mitigation.	Advances all of the goals of the plan by increasing preparedness and knowledge of municipal and county officials, citizens and law and policymakers.
NJOEM	Conduct yearly workshops related to FEMA hazard mitigation grant programs (This action is part of the Repetitive Loss Strategy – Section 8)	All	High	Continuing	Existing state assets and federal grants	All	Making local officials aware of FMA increases participation.	FMA contributes to the mitigations strategy to reduce future flood losses.
NJOEM	Promote acquisition and elevation of repetitive loss structures through community partnerships and outreach. (This action is part of the Repetitive Loss Strategy – Section 8)	1, 2, 4, 5	High	Continuing	Federal grants and existing state resources	Flood	Eliminating repetitive loss structures. Contacting local community partners including but not limited to emergency management directors, floodplain managers, local officials, floodplain administrators regularly to provide updated technical information and advice of opportunities/funding to acquire or elevate properties.	Structures will no longer be flooded thereby reducing RL claims. Contact local community partners including but not limited to emergency management directors, floodplain managers, local officials, floodplain administrators regularly to provide updated technical information and advice of opportunities/funding to acquire or elevate properties.
NJOEM	Provide updated SRL and RL lists to communities in advance of grant application windows. Included FEMA-calculated avoided damages for SRL properties and any state-calculated avoided damages for RL properties (This action is part of the Repetitive Loss Strategy – Section 8)	1, 2, 4, 5	High	Continuing	Existing state resources	Flood	Identifying candidates with the strongest potential to meet benefit cost requirements allows communities to focus mitigation alternatives and applications on SRL and RL properties	Retrofitting, elevating or removing RL properties from known hazard areas protect property and lives as well as preserve personal, state, and federal financial resources
NJOEM	Local Projects Program: This program continues to enable county and local governments across all 21 counties to pursue regional and local resiliency projects. These funds can be used to advance drainage, flood control, energy resiliency and other hazard mitigation projects.	All	High	5 years	FEMA Grant Funding	All Hazards	Support local government entities in mitigation actions	Funds local mitigation projects
NJOEM	Planning Grant Program – This program continues to provide eligible counties with grants to develop hazard mitigation plans.	3, 4, 5	High	5 years	FEMA Grant Funding	All Hazards	Provides eligible counties with grants to develop multi-jurisdictional hazard mitigation plans	Builds local-level hazard mitigation capability.
NJOEM	2008 Action 344 2010 Action 344 Develop and maintain local government mitigation planning assistance/coordination web page.	3	Highest	6 months (2011)	Existing State resources	All Hazards	Provide up to date reference for the development and updating of local hazard mitigation plans.	This local information will be utilized in the updating of the State Hazard Mitigation Plan.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM *	2008 Action 154 Ensure Incident Command System use, qualifications, and standards during all incident response and event planning.	1	Medium	Continuing	Existing State resources	All Hazards	DHS requirement	Protects life, property and continuity of operations.
Previous Mitigation Actions - Continuing Programs/State Capabilities (2014 SHMP)								
NJOEM	2008 PSA 213 Expand State facilities risk management program.	2	High	Continuing Capability / Responsibility	Existing resources	Flood	Maintain flood protection and fire protection	Increases safety of personnel and reduces losses due to fire/flood.
NJOEM	2008 PSA 222 Encourage training of owners and operators of non-state owned critical facilities for hazard mitigation.	2	High	Continuing Capability / Responsibility	Existing resources	All Hazards	Targeted training will augment existing initiatives of NJOEM and insurance carriers	Targeted training efforts based on identification of potential hazards will reduce vulnerabilities and losses to critical facilities through mitigation or relocation. Training to secure contents of critical facilities will protect assets from damage and minimize flood insurance claims.
NJOEM	2008 PSA 231 Inventory damaged structures.	2	High	Continuing Capability / Responsibility	Existing State Assets and Federal grants	All Hazards	Identifying repetitive loss areas and properties helps communities develop a strategy to reduce future hazard losses.	Retrofitting, elevating or removing repetitive loss properties from known hazard areas protect property and lives as well as preserve personal, state and federal financial resources.
NJOEM	2008 PSA 232 Develop and implement a detailed severe repetitive loss mitigation strategy	2	High	Continuing Capability / Responsibility	Existing State resources, in context of State Mitigation Plan update (which used FEMA grant funds)	Flood	First step in the State implementing a clear, long-term program of mitigating properties that constitute the most significant losses to the National Flood Insurance Program.	Protects property. See Appendix F of 2008 version of State plan – Severe Repetitive Loss Mitigation Strategy.
NJOEM	2008 PSA 235 Conduct community outreach, workshops and training to increase NFIP participation.	2	High	Continuing Capability / Responsibility	Existing State Resources	Flood	Encourages participation in the program so that losses will be covered and allows eligibility in the FMA program.	Allows for people to receive flood insurance claims and maintains eligibility in the FMA program of which flood insurance is a requirement.
NJOEM	2009 PSA 237 Continue NJDEP Green Acres, Blue Acres acquisition of repetitive loss and severe repetitive loss structures.	2	Medium	Continuing Capability / Responsibility	New and existing State appropriations	Flood	Requested in local mitigation planning efforts to eliminate repetitive loss structures.	Augments Federal funding to ensure that more structures will no longer be flooded thereby reducing repetitive loss claims.
NJOEM	2008 PSA 271 Update and maintain continuity of government to enable the State government to provide critical services during an interruption of business.	2	High	Continuing Capability / Responsibility	Existing resources	All Hazards	Critical services are still necessary during an interruption of business.	The existence and exercise of these plans will assure that State Government services will continue to be provided regardless of the hazards faced.
NJOEM	2008 PSA 311 Educate the public through NJOEM and NJFS outreach programs and hazard mitigation workshops.	3	High	Continuing Capability / Responsibility	Existing State resources	All Hazards	To increase participation in hazard mitigation programs for the prevention of potential loss of life and damage to structures.	Encourages the development of Pre Disaster Mitigation plans and participation in mitigation grant programs.
NJOEM	2008 PSA 312 Participate in the Emergency Preparedness Conference with workshops.	3	High	Continuing Capability / Responsibility	Existing State resources	All Hazards	The Emergency Preparedness Conference is an important venue to promote and increase participation in hazard mitigation programs and reaches a wide variety of people and interests.	Encourages the development of Pre Disaster Mitigation plans and participation in mitigation grant programs.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM	2008 PSA 313 Promote continuing education of state and local officials through Rutgers programs.	3	Medium	Continuing Capability / Responsibility	Existing State resources	All Hazards	To make local officials and emergency management coordinators aware of possible hazards and actions to reduce hazards and vulnerabilities in their community.	Increases protection to property and life in the state.
NJOEM	2008 PSA 322 Incorporate additional profiling and vulnerability information recommended by FEMA into the SHMP.	3	High	Continuing Capability / Responsibility	Existing State resources	All Hazards	To increase statewide vulnerability and hazard trends.	Decreases losses through identification of hazard prone areas. Increases protection of vulnerable state activities.
NJOEM	2008 PSA 323 Develop a hazard event GIS database to help State and local emergency managers with hazard mitigation and other planning initiatives.	3	High	Continuing Capability / Responsibility	Existing resources	All Hazards	The current NJOEM GIS database to capture and organize the volume of information generated by research and actual disaster events needs to be expanded.	Improving knowledge of hazards and hazard events will improve mitigation and other planning designs to reduce the impact of hazard events on local and state economies.
NJOEM	2008 PSA 324 Expand and enhance GIS/HAZUS hazard mitigation databases and use for analysis and mapping in the SHMP.	3	High	Continuing Capability / Responsibility	Existing resources and mitigation grants	Flood, Coastal Erosion, Hurricanes and Tropical Storms	Provide a data base for the identification of hazardous areas and provide loss estimations for hurricanes and flood winds	Provide rationalization for future land use planning.
NJOEM	2008 PSA 325 Develop state hazard profiles for manmade and technological hazards.	3	High	Continuing Capability / Responsibility	Mitigation grants	All Hazards	Existing profiles primarily discuss state and local vulnerability to natural hazards.	Improving knowledge of manmade hazards and technological hazard events will improve mitigation and other planning designs to reduce the impact of hazard events on local and state economies.
NJOEM	2008 PSA 331 Develop a cadre of supplemental staff to assist NJOEM with education of affected communities, project assessment and development of mitigation projects.	3	High	Continuing Capability / Responsibility	Mitigation grants	All Hazards	Allow flexibility in staffing and increase during periods of disasters. Hiring staff is necessary for the Mitigation Unit to fulfill its responsibilities and manage its increased workload resulting from recent disasters and commitments in the SHMP.	Provide better public relations, education and identification of viable hazard mitigation projects.
NJOEM	2008 PSA 341 Conduct community outreach, workshops and training opportunities to promote development of PDM plans.	3	High	Continuing Capability / Responsibility	Mitigation grants and technical assistance funds.	All Hazards	Development of FEMA approved plans is required for HMGP and PDM funds	Approved plans will allow communities to receive mitigation grants to implement projects that will protect life and property.
NJOEM	2008 PSA 342 Increase NJOEM staffing in areas of planning, engineering and management.	3	High	Continuing Capability / Responsibility	Mitigation grants	All Hazards	Additional staff required to expand expertise, for the timely development of hazard mitigation plans and to facilitate implementation of projects.	Development of viable local hazard mitigation plans and projects.
NJOEM	2008 PSA 431 Continuingly update repetitive loss and severe repetitive loss lists from the NFIP.	4	High	Continuing Capability / Responsibility	Existing staff	All Hazards	Essential to continuing the State's effort to reduce flood losses. Enables NJOEM to appropriately prioritize its actions to mitigate repetitive loss and severe repetitive loss properties, in accordance with FEMA requirements (and potentially qualifies the State and local jurisdictions for the 90-10 federal-local match under the SRL program.	The State mitigation strategy has a focus on reducing losses to property by implementing appropriate flood mitigation activities. Keeping these lists up to date allows the State to prioritize assistance and funds.
NJOEM	2008 PSA 432 Continue working with local and regional jurisdictions to encourage their cooperation in making repetitive property mitigation a high priority, and to offer technical support in carrying out the requirements of FEMA mitigation programs.	4	High	Continuing Capability / Responsibility	Existing staff, with support from FEMA Region II.	Flood	Basic requirement to initiate and sustain momentum	Initiates a long-term process to protect property from effects of repetitive flooding.
NJOEM	2009 PSA 441 Overlay an inventory of State-owned critical facilities with the level of seismic hazard at each location, using the USGS national seismic hazard maps and the New Jersey Geological Survey maps of seismic soil classes.	4	Medium	Continuing Capability / Responsibility	To be determined	All Hazards	Serves as first step in a long-term plan to reduce risks to the most critical State facilities.	Results in protecting both life and property.

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJOEM	2008 PSA 481 Provide grants, planning tools, training and technical assistance to increase the number of public and private sector hazard mitigation plans and initiatives, especially for multi-jurisdiction districts.	4	High	Continuing Capability / Responsibility	Existing Resources, Mitigation Grant	All Hazards	Providing incentives and resources encourages organizations to develop hazard mitigation plans and initiatives they otherwise would not have	Expanding the number of hazard mitigation initiative will improve the state's resistance to hazards and reduce the impact of hazard events on the State's economy.
NJOEM	2008 PSA 513 Continuingly update and enhance the State plan. Begin by incorporating recommended FEMA revisions. Institute stronger plan maintenance procedures, such as having agencies responsible for mitigation actions provide annual progress reports to the SHMO.	5	High	Continuing Capability / Responsibility	NJOEM, FEMA	All Hazards	Required to ensure that the plan is a current document, and remains useful to the State, as well as to local and regional planners.	The plan is the basis for prioritizing all actions.
NJOEM	2008 PSA 233 Conduct yearly workshops related to FEMA hazard mitigation grant programs.	2	High	Continuing Capability / Responsibility	Existing State Assets and Federal grants	Flood	Making local officials aware of FMA increases participation.	FMA contributes to the mitigations strategy to reduce future flood losses.
NJOEM	2008 PSA 234 Promote acquisition and elevation of repetitive loss and severe repetitive loss structures.	2	High	Continuing Capability / Responsibility	Federal grants	Flood	To eliminate repetitive loss structures	Structures will no longer be flooded thereby reducing repetitive loss claims





**DEPARTMENT OF COMMUNITY AFFAIRS  
(7/20/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of Community Affairs

**Date:** 7/20/ 2018

**Time:** 10am

Follow-up calls with Darlene Casale for Samuel Viavattine to review and provide updates to previous capabilities assessment and mitigation actions.

### **Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Darlene Casale	Staff	Sandy Recovery Division	darlene.casale@dca.nj.gov
Samuel Viavattine	Director	Sandy Recovery Division	Samuel.Viavattine@dca.nj.gov

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

### Capability Assessment:

The Sandy Recovery Division manages the majority of the federal funds that will be used to assist New Jersey in recovering from Superstorm Sandy. These funds come from the Community Development Block Grant (CDBG) Disaster Recovery programs of the U.S. Department of Housing and Urban Development. The Division is committed to efficiently and effectively addressing the long-term needs of New Jersey's Sandy-impacted residents and communities.

### Mitigations Actions:

DCA has previous mitigation actions that have become on-going capabilities for the state.

No new actions have been identified. Waiting to confirm with Samuel Viavattine.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name: Department of Community Affairs -The Sandy Recovery Division</b>	
<b>Description of Organization</b>	The Sandy Recovery Division manages the majority of the federal funds that will be used to assist New Jersey in recovering from Superstorm Sandy. These funds come from the Community Development Block Grant (CDBG) Disaster Recovery programs of the U.S. Department of Housing and Urban Development. The Division is committed to efficiently and effectively addressing the long-term needs of New Jersey's Sandy-impacted residents and communities.
<b>Point of Contact</b>	Name/Title: Samuel Viavattine via Darlene Casale, Sandy Recovery Division Email: 'darlene.casale@dca.nj.gov' Phone: (609) 292-3750 PO Box 800 Trenton, NJ 08625-0800 <a href="https://www.nj.gov/dca/divisions/sandyrecovery/">https://www.nj.gov/dca/divisions/sandyrecovery/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Flood-related hazards
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Administers the CDBG-DR funds Superstorm Sandy disaster recovery and rebuilding activities
<b>Does your organization provide technical assistance?</b>	Provides information on Housing Counseling and Rental Assistance Programs in order to meet the continuing needs of highly vulnerable households hit hard by Superstorm Sandy.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, The State's Community Development Block Grant Disaster Recovery (CDBG-DR) Action Plan was approved by the United States Department of Housing and Urban Development (HUD) on April 29, 2013. This plan and its amendments detail how the State is spending the \$4.17 billion in federal CDBG-DR funds it received for eligible Superstorm Sandy disaster recovery and rebuilding activities. The documents describe the State's use of CDBG-DR funds, including criteria for eligibility and how these funds will address disaster relief, long-term recovery, restoration of infrastructure, and housing and economic revitalization in the most impacted and distressed areas.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	New Jersey Department of Community Affairs (DCA) hosts free Housing Resource Fairs to provide Sandy-impacted residents with information about helpful housing resources. While applications for grant funds and housing vouchers are no longer being accepted, resources such as housing counseling, utility assistance, and housing search help are still available.
<b>Is Funding available for Hazard Mitigation?</b>	Community Development Block Grant (CDBG) Disaster Recovery programs of the U.S. Department of Housing and Urban Development. Including: Reconstruction, Rehabilitation, Elevation, and Mitigation (RREM) Program Low-to-Moderate Income Homeowners Rebuilding (LMI) Program Fund for Restoration of Multifamily Housing (FRM) Program Sandy Tenant-Based Rental Assistance (TBRA) Program
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status	Table
NJ DCA	2008 Action 442 Prioritize earthquake risk by conducting more detailed risk assessments of the State-owned critical facilities	1, 2, 4	Medium	Continuing	To be determined	Earthquakes	Serves as first step in a long-term plan to reduce risks to the most critical State facilities.	Results in protecting both life and property.	Continuing. Funding and personnel for this action have not been identified as this action is classified as medium to low priority	6.12 Continuing/In-Progress Mitigation Actions Carried Forward from the 2011 Plan
NJ DCA	2009 PSA 161 Implement seismic retrofits critical facilities, which are especially vulnerable seismically and located in high hazard areas.	1	Medium	Continuing Capability / Responsibility	FEMA grant funds, grants from other federal or State agencies TBD.	Earthquake	Potential for deaths and casualties in certain combinations of building types and occupancies means that some critical facilities should be protected from seismic hazards.	Protects life and property. Will help State maintain operations in the event of an earthquake.	Continuing Capability/ Responsibility	6.13 Previous Mitigation Measures and Projects Now Continuing Programs/State Capabilities
NJ DCA*	2008 PSA 239 Ensure enforcement of the seismic design provisions in the International Building Code for all new buildings and infrastructure in New Jersey.	2	Medium	Continuing Capability / Responsibility	Existing local and State resources	All Hazards	Long-term continued enforcement is best form of mitigation for most hazards.	Best possible long-term mitigation against damages from earthquakes, especially for new construction	Continuing Capability/ Responsibility	6.13 Previous Mitigation Measures and Projects Now Continuing Programs/State Capabilities
NJDCA	2010 PSA 131 Encourage participation in existing programs – FMA, PDM, HMGP.	1	High	Continuing Capability / Responsibility	Existing local, State and Federal grant funds.	All Hazards	Significant number of households are in floodplains and are potentially at risk to hazards and repetitive losses. Opportunities exist to coordinate with “smart growth” and “safe growth” planning initiatives.	Increasing municipal involvement in and public support for improving the structural integrity of vulnerable homes will improve the safety of households, which would otherwise be at risk.	Continuing Capability/ Responsibility	6.13 Previous Mitigation Measures and Projects Now Continuing Programs/State Capabilities
NJDCA Office of Smart Growth	2009 PSA 325 Develop state hazard profiles for manmade and technological hazards.	3	High	Continuing Capability / Responsibility	Mitigation grants	Cyber Attack, Terrorism	Existing profiles primarily discuss state and local vulnerability to natural hazards.	Improving knowledge of manmade hazards and technological hazard events will improve mitigation and other planning designs to reduce the impact of hazard events on local and state economies.	Continuing Capability/ Responsibility	6.13 Previous Mitigation Measures and Projects Now Continuing Programs/State Capabilities



NJDCA Office of Smart Growth	2011 Action 491 Ensure coordination with the State Planning Commission	4	High	Continuing Capability / Responsibility	Existing State Resources	All Hazards	To ensure that growth plans do not conflict with hazard mitigation and response planning.	To enhance the State’s coordination abilities.	Continuing Capability/ Responsibility	6.13 Previous Mitigation Measures and Projects Now Continuing Programs/State Capabilities
NJDCA, NJDEP	2008 Action 141 Integrate NFIP standards and Firewise into the uniform construction codes utilized by the State.	1, 2	High	2 years (2013)	Existing State funds	Flood	Incorporate NFIP requirements into the New Jersey Uniform Construction Code to reduce flood losses.	Reduction of flood losses will reduce flood insurance claims.	Continuing. This action continues to be coordinated among the two state agencies. Disaster responsibilities have caused delays	6.12 Continuing/In-Progress Mitigation Actions Carried Forward from the 2011 Plan



## **PORT AUTHORITY OF NEW YORK/NEW JERSEY (7/25/2018)**



# State of New Jersey All-Hazard Mitigation Plan Update

## Capability Assessment / Mitigation Actions Meeting

**Michael Baker**

INTERNATIONAL

Organization: Port Authority NY & NJ Date: \_\_\_\_\_

Name	Organization	Email Address	Phone Number
Michael Yaffe			
Craig Meyer			
Heaven Chapman	PADEM	hchapman@paenmj.gov	
David A. Bennett	PA Emergency Management	dabennett@paenmj.gov	201-595-4730
Andrew Varuzzo	PAENNJ	avaruzzo@paenmj.gov	
Josh DeFlorio	PA	jdeflorio@paenmj.gov	x6221

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

**Port Authority New York & New Jersey**

**Date: 7/25/2018**

**Time:** 11 am

**Location:** World Trade Center

**Attendees:**

Name	Organization	Title	Email Address
Tiffany Chapman	PANYNJ	Manager	tchapman@panynj.gov
David Warrington	PANYNJ	Senior Manager of Strategic Preparedness	dwarrington@panynj.gov
Andrew Varuzzo	PANYNJ	Leadership Feloow	avaruzzo@panynj.gov
Josh DeFlorio	PANYNJ	Chief, Resilience & Sustainability	jdeflorio@panynj.gov
Craig Wenger	MBI	Project Manager	<a href="mailto:Cwenger@mbakerintl.com">Cwenger@mbakerintl.com</a>
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

**Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

Capability Assessment:

The Port Authority (PA) is responsible for building, operating, and maintaining infrastructure critical to the New York/New Jersey region's trade and transportation network. These facilities include America's busiest airport system, marine terminals and ports, the PATH rail transit system, six tunnels and bridges between New York and New Jersey, the Port Authority Bus Terminal – the world's busiest passenger terminal, and the World Trade Center.

The Port Authority has implemented numerous preventative measures to protect its vulnerable facilities from human caused hazards, such as transportation accidents and terrorism. There is an extensive risk assessment program under way throughout the Port Authority to identify vulnerabilities and risks to natural hazards. This information will be used to influence future capital plan expenditures.

The Port Authority self funds all projects falling under its capital spending plan, including mitigation type projects. The Port Authority applies for both 406 and 404 mitigation grant funding under eligible disaster declarations.

Mitigations Actions:



The Authority provided requested to review their program and identify capabilities and mitigation actions after the meeting. They identified they will send the requested information



## **NJ TRANSIT (8/2/2018)**

# State of New Jersey All-Hazard Mitigation Plan Update

## Capability Assessment Meeting

**Michael Baker**  
INTERNATIONAL

Organization: NJ TRANSIT

Date: 8/3/18

[illegible]

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## New Jersey Transit

**Date:** August 3, 2018

**Time:** 1pm

### **Attendees:**

Name	Organization	Title	Email Address
Brad Mason	NJT	Assistant Deputy Director	bmason@njtransit.com
Emily Bayard	NJT	Legal Intern	ebayard@njtransit.com
James Yeager	MBI	Director of Transportation	jyeager@mbakerintl.com
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

### **Minutes/ Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

### Capability Assessment:

NJ TRANSIT Resilience Program is a comprehensive capital improvements program aimed at making the NJ TRANSIT transportation system even stronger, more durable, and more reliable. Each of the projects undertaken as part of the Resilience Program contributes in a significant way to system-wide integrated resiliency. And, while each project has independent utility, together they create a strengthened transit system that will meet the needs of our train, bus and light rail customers for years to come.

### Current Projects:

- Delco Lead Storage and Inspection Facility
- NJ TRANSITGRID
- Long Slip Fill and Rail Enhancement
- Raritan River Bridge Replacement
- Signals & Communications Resilience is an infrastructure resiliency project

Under the direction of the NJTPD Chief of Police, the Office of Emergency (OEM) is responsible to coordinate emergency management activities with all departments and business lines of NJ Transit.

### Mitigations Actions:

- Develop a Resiliency Action Plan for the NJ TRANSIT's system-wide infrastructure.
- Wet or dry floodproof NJ TRANSIT infrastructure and facilities that provide system critical support; and, which cannot be elevated due to physical site constraints or current operational system requirements.



- Identify and implement resiliency actions needed to flood proof and protect NJ TRANSIT's assets and transportation infrastructure that are located outside of the Rebuild by Design funded improvements along the Hudson River.
- Purchase and install track sealants and coatings for rail switches to make them more resilient to brackish flood waters.
- Purchase and install improvements needed to facilitate continuity of operations of life line critical infrastructure during and post a hazard event. Life line critical infrastructure includes: water/wastewater, transportation, transit, energy and communication systems.



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

**DRAFT 8/24/2018**

<b>Organization Name:</b>		<b>NJ TRANSIT</b>
<b>Description of Organization</b>	<p>NJ TRANSIT is New Jersey's public transportation corporation. Its mission is to provide safe, reliable, convenient and cost-effective transit service with a skilled team of employees, dedicated to our customers' needs and committed to excellence.</p> <p>Covering a service area of 5,325 square miles, NJ TRANSIT is the nation's third largest provider of bus, rail and light rail transit, linking major points in New Jersey, New York and Philadelphia. The agency operates an active fleet of 2,221 buses, 1,231 trains and 21 light rail vehicles. On 252 bus routes and 12 rail lines statewide, NJ TRANSIT provides nearly 270 million passenger trips each year.</p>	
<b>Point of Contact</b>	<p>Name/Title: Brad Mason, Sr. Director of Capital Resilience and Enterprise Asset Management, Email: BMason@njtransit.com Phone: (973) 491 -7646 Address: 1 Penn Plaza East, Newark NJ 07105 Website: <a href="http://njtransitresilienceprogram.com/">http://njtransitresilienceprogram.com/</a>, <a href="https://www.njtransit.com">https://www.njtransit.com</a></p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	<p>Flood-related hazards; Extreme weather events such as 2012's Superstorm Sandy helped identify vulnerabilities in the New Jersey / New York region's transportation. The likelihood of more and frequent severe weather events underscores the need to make transportation resiliency a high priority for the area.</p>	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	<p>NJ TRANSIT Resilience Program is a comprehensive capital improvements program aimed at making the NJ TRANSIT transportation system even stronger, more durable, and more reliable. Each of the projects undertaken as part of the Resilience Program contributes in a significant way to system-wide integrated resiliency. And, while each project has independent utility, together they create a strengthened transit system that will meet the needs of our train, bus and light rail customers for years to come.</p> <p>Current Projects: -Delco Lead Storage and Inspection Facility -NJ TRANSITGRID -Long Slip Fill and Rail Enhancement - Raritan River Bridge Replacement - Signals &amp; Communications Resilience is an infrastructure resiliency project</p> <p>Under the direction of the NJTPD Chief of Police, the Office of Emergency (OEM) is responsible to coordinate emergency management activities with all departments and business lines of NJ Transit.</p>	
<b>Does your organization provide technical assistance?</b>	No	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	<p>Yes, - Comprehensive Emergency Management Plan (CEMP) - NJ TRANSIT Response to TEEX After Action Report - NJ TRANSITGRID TRACTION POWER SYSTEM Agency and Public Coordination Plan (May 25, 2016) - Contracted with Stevens Institute of Technology in Hoboken, NJ for the Coastal Storm Surge Emergency Warning System (CSSEWS). -Under the direction of the NJTPD Chief of Police, the Office of Emergency (OEM) is responsible to coordinate emergency management activities with all departments and business lines of NJ Transit.</p>	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Yes	
<b>Is Funding available for Hazard Mitigation?</b>	Yes, NJ TRANSIT Resilience Program administers a comprehensive capital improvements program	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Yes	

State of New Jersey All-Hazard Mitigation Plan Update

NJ TRANSIT Mitigation Actions



DRAFT 8/24/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
<sup>1</sup> NJ TRANSIT	<b>Develop a Resiliency Action Plan for the NJ TRANSIT's system-wide infrastructure.</b>  Study of vulnerability to identify risk of NJ TRANSIT's infrastructure against extreme weather conditions and flood-related hazards. Plan would identify and prioritize potential mitigation actions to reduce losses from hazards. Plan will also define sacrificial components and how they may be impacted in the event of an extreme weather event.	4	High	Within 2 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Critical first step in identifying appropriate sites and operations for mitigation priorities for NJ TRANSIT	The Resiliency Action Plan develops and maintains an understanding of risks from hazards. It also establishes an action plan to increase capabilities to mitigate against future losses and vulnerability.	New for this Plan
<sup>2</sup> NJ TRANSIT	<b>Elevate NJ TRANSIT's critical infrastructure and facilities to NJ Transit's defined Design Flood Elevation, which is 2.5 (ft) above Base Flood Elevation (B.F.E.).</b>	1,2,6	High	5 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Protection of transportation infrastructure ensures continuity of operations for vital transit services within the State	The floodproofing of NJ TRANSIT infrastructure from potential inundation during a high-water event advances the mission of providing safe, reliable travel; particularly for people with disabilities and senior citizens.	New for this Plan
<sup>3</sup> NJ TRANSIT	<b>Wet or dry floodproof NJ TRANSIT infrastructure and facilities that provide system critical support; and, which cannot be elevated due to physical site constraints or current operational system requirements.</b>	1,2,6	High	5 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Protection of transportation infrastructure ensures continuity of operations for vital transit services within the State	The floodproofing of NJ TRANSIT infrastructure from potential inundation during a high-water event advances the mission of providing safe, reliable travel; particularly for people with disabilities and senior citizens.	New for this Plan

# State of New Jersey All-Hazard Mitigation Plan Update

## NJ TRANSIT Mitigation Actions



**Michael Baker**  
INTERNATIONAL

DRAFT 8/24/2018

Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy	Plan Update Status
<sup>4</sup> NJ TRANSIT	<b>Develop a companion study to the Rebuild by Design - Hudson River Project to identify resiliency actions needed to flood proof and protect NJ TRANSIT's assets and transportation infrastructure that are located outside of the Rebuild by Design funded improvements along the Hudson River.</b>	4	High	5 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Sever Weather and Severe Winter Weather.	Protection of transportation infrastructure ensures continuity of operations for vital transit services within the State	The floodproofing of NJ TRANSIT infrastructure from potential inundation during a high-water event advances the mission of providing safe, reliable travel; particularly for people with disabilities and senior citizens.	New for this Plan
<sup>5</sup> NJ TRANSIT	<b>Purchase and install track sealants and coatings for rail switches to make them more resilient to brackish flood waters.</b>	1,2,6	High	5 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Sealants and coatings for rail switches are a new innovative approach to make them more resilient to coastal flooding. There are few alternatives to protecting rail switches from flooding impacts since they cannot be elevated.	The floodproofing of rail switches from brackish water during a high-water event ensures the continuity of operations post-hazard events.	New for this Plan
<sup>6</sup> NJ TRANSIT	<b>Purchase and install improvements needed to facilitate continuity of operations of life line critical infrastructure during and post a hazard event. Life line critical infrastrucure includes: water/wastewater, transportation, transit, energy and communication systems.</b>	1,2	High	5 years	None Currently Available	Flood; Hurricane and Tropical Storm; Nor'easters; Severe Weather and Severe Winter Weather.	Supports rapid recovery and continuity of operations for system critical infrastructure in the event of a hazard.	Ensures protection of life and property	New for this Plan





**DEPARTMENT OF STATE (OFFICE FOR PLANNING  
ADVOCACY) (8/5/2018)**

# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

## Department of State Office for Planning Advocacy

**Date:** 8/05/2018

**Time:** 10am

Follow-up emails to Melanie Willough who is acting Executive Director of the New Jersey Business Action Center. Staff of the Department of the State indicate she represents the Office for Planning Advocacy since the director position of the office of planning advocacy is currently vacant.

### **Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Melanie Willough	Department of State Office for Planning Advocacy	Executive Director	Melanie.Willoughby@sos.nj.gov

### **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

Based on previous assessment:

Supports and coordinates planning throughout NJ to protect the environment, mitigate development hazards and guide future growth into compact, mixed use development and redevelopment while fostering a robust long-term economy. The Office implements the goals of the State Development and Redevelopment Plan to achieve comprehensive, long term planning; and integrates that planning with programmatic and regulatory land use decisions at all levels of government and the private sector.

OPA regularly produces analysis of demographic, environmental, and other hazard related data on an as needed basis not just to the Department of State but to other departments whose capabilities are not as robust as our own. For example, our office produced some of the earliest estimates of seasonal housing stock damage from Sandy using Census and geographic data. Occasionally, we are asked to provide training on technical tools in which we are involved e.g. Site Evaluator aka Smart Growth Locator.

Since receiving the contract for and delivering the 1999 rewrite of the Hazard and Vulnerability section of the State Hazard Mitigation Plan, our office has become increasingly involved in hazard work at the state level. Our office has been a member of the State Hazard Mitigation Team (SHMT) for over a decade and has worked with the OEM and FEMA regularly over the years. It is expected that the Office of Emergency Management will be asked to sit on the State Strategic Plan steering committee to shape

its integration of hazard mitigation recommendations into the State Strategic plan. Partnerships, both informal and form, would improve our ability to support the state in its work to make the state a safer place.

Mitigations Actions:

The Department did not identify any mitigation actions for this plan update. Historically, the Department has not provided actions.



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>Office for Planning and Advocacy</b>
<b>Description of Organization</b>	Supports and coordinates planning throughout NJ to protect the environment, mitigate development hazards and guide future growth into compact, mixed use development and redevelopment while fostering a robust long-term economy. The Office implements the goals of the State Development and Redevelopment Plan to achieve comprehensive, long term planning; and integrates that planning with programmatic and regulatory land use decisions at all levels of government and the private sector.	
<b>Point of Contact</b>	Name: Melanie Willoughby Email: <a href="mailto:Melanie.Willoughby@sos.NJ.gov">Melanie.Willoughby@sos.NJ.gov</a> Address: PO Box 46023, Newark, NJ 07102 Website: <a href="https://www.nj.gov/state/planning/index.html">https://www.nj.gov/state/planning/index.html</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Our office, through the State Strategic Plan, its 200 publications, and many planning activities over 25 plus years have addressed many hazards affecting New Jersey but generally focused on natural hazards in order to prevent development in the way of known hazards e.g. floods and coastal events	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Research, facilitation, coordination, data location and distribution, statistical and geographic analysis, provision of insight	
<b>Does your organization provide technical assistance?</b>	OPA regularly produces analysis of demographic, environmental, and other hazard related data on an as needed basis not just to the Department of State but to other departments whose capabilities are not as robust as our own. For example, our office produced some of the earliest estimates of seasonal housing stock damage from Sandy using Census and geographic data. Occasionally, we are asked to provide training on technical tools in which we are involved e.g. Site Evaluator aka Smart Growth Locator.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, our office is responsible for the State Strategic Plan which is THE document by which we address planning in the state of New Jersey, one component of which is long range planning for hazards. We have also produced almost 200 research reports and publications over our 25+ years in existence; these documents can be found at <a href="http://www.state.nj.us/state/planning/publications.html">http://www.state.nj.us/state/planning/publications.html</a>	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	While we do not host or offer mitigation related events, our employees have been involved in hazard mitigation events as participants and speakers for over a decade and we continue to see our office as an integral part of statewide hazard mitigation planning.	
<b>Is Funding available for Hazard Mitigation?</b>	While our office has offered funding for planning activities in the past, we do not currently offer funding. Our office has been working with OEM and DEP on perhaps utilizing Hurricane Sandy recovery money to fund staff to work at the state and county levels to assist, facilitate and	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Since receiving the contract for and delivering the 1999 rewrite of the Hazard and Vulnerability section of the State Hazard Mitigation Plan, our office has become increasingly involved in hazard work at the state level. Our office has been a member of the State Hazard Mitigation Team (SHMT) for over a decade and has worked with the OEM and FEMA regularly over the years. It is expected that the Office of Emergency Management will be asked to sit on the State	





## **HIGHLANDS COUNCIL(8/5/2018)**

# NJ State Hazard Mitigation Plan Update

## Meeting Minutes/ Call Log

### Highlands Council

**Date:** August 5, 2018

**Time:** 10am

Phone call with Follow-up emails to confirm capabilities.

#### Attendees:

Name	Organization	Title	Email Address
Maryjude Haddock-Weiler	Highlands Council	Principal Planner	maryjude.haddock-weiler@highlands.state.nj.us
James Humphries	Highlands Council	Director of Planning and Science	james.humphries@highlands.nj.gov.
Michael Yaffe	MBI	Senior Planner	<a href="mailto:Michael.yaffe@mbakerintl.com">Michael.yaffe@mbakerintl.com</a>

#### Minutes/ Notes:

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

#### Capability Assessment:

- The NJ Highlands Region represents a 1,343 square mile area in the northwest part of the State
- 2001 was established as a Special Resource Area of the State
- The NJ Highlands Council was established by the legislature in 2004 as part of the Highlands Water and Protection Planning Act and charged with the development and oversight of the Highlands Regional Master Plan (RMP).
- The NJ Highlands Council Regional Master Plan area includes lands within portions of seven counties and includes 88 municipalities.
- The Highlands Region serves as a vital source of drinking water for the State that is increasingly at risk of being overdeveloped.
- In 2002 the United States Forest Service Study Update indicated the region experienced an 11 % increase in population between 1990- 2001 and continued development is threatening the region's significant natural resources and the state's drinking water supply.
- Forest health hazards to be addressed in Forest Resource Management Plans to incorporate risk assessment of deadfalls, invasive species infestation and management, fire fuel loading, and risks for future instability in wind events. Stream flood hazards to be addressed in Stream Corridor Protection, Mitigation and Restoration Plans based on Stream Functional Value Assessment protocols.

#### Mitigations Actions:

The commission did not identify any mitigation actions for this plan update. Historically, the Commission has not provided actions.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Highland Council	
<b>Description of Organization</b>	The NJ Highlands Region represents a 1,343 square mile area in the northwest part of the State and in 2001 was established as a Special Resource Area of the State. The NJ Highlands Council was established by the legislature in 2004 as part of the Highlands Water and Protection Planning Act and charged with the development and oversight of the Highlands Regional Master Plan (RMP). The NJ Highlands Council Regional Master Plan area includes lands within portions of seven counties and includes 88 municipalities. The Highlands Region serves as a vital source of drinking water for the State that is increasingly at risk of being overdeveloped. In 2002 the United States Forest Service Study Update indicated the region experienced an 11 % increase in population between 1990- 2001 and continued development is threatening the region's significant natural resources and the state's drinking water supply. While growth management efforts by individual municipalities continue under the Municipal Land Use Law, the state legislature determined that a coordinated regional effort is necessary.
<b>Point of Contact</b>	Name/Title: James Humphries, Director of Planning and Science Email: james.humphries@highlands.nj.gov. Phone: (908) 879-6737 Address: 100 North Road, Rt 513, Chester, New Jersey 07930 Website: www.highlands.state.nj.us
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Forest health hazards to be addressed in Forest Resource Management Plans to incorporate risk assessment of deadfalls, invasive species infestation and management, fire fuel loading, and risks for future instability in wind events. Stream flood hazards to be addressed in Stream Corridor Protection, Mitigation and Restoration Plans based on Stream Functional Value Assessment protocols.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Highlands Council RMP programs support hazard mitigation as related to stream mitigation to avoid flood hazards and forest health hazards.
<b>Does your organization provide technical assistance?</b>	Yes, Review and recommendations for forest resource management plans, stream corridor protection plans, as well as GIS capabilities.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Yes, Critical habitat mitigation ratio determination policy in place for establishing the Highlands resource mitigation ratio that may be required.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	no
<b>Is Funding available for Hazard Mitigation?</b>	Yes, RMP grant funding for forest resource and stream corridor protection and management planning to include identification of restoration, mitigation and stewardship programing needs and mechanisms.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	no



## **DELAWARE RIVER BASIN COMMISSION (8/7/2018)**



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Delaware River Basin Commission

**Date: 8/7/218**

Follow-up emails with Joe Ruggeri who is a member on the Flood Advisory Committee of the DRBC.

## **Attendees:**

Name	Organization	Title	Email Address
Joseph Ruggeri	Flood Advisory Committee of the DRBC	Supervising Engineer, NJDEP	joseph.ruggeri@dep.state.nj.us
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com

## **Minutes/Notes:**

Michael Baker gave a summary of the status of the plan update and explained the capability survey and discussed mitigations actions.

## Capability Assessment:

As a result of the multiple flooding events that occurred on the Delaware River in 2004-2006, four governors directed DRBC staff to convene an interstate task force to develop a set of recommended measures for mitigating and alleviating flooding impacts along the Delaware and its tributaries.

Prepared a Multi-Jurisdictional Flood Mitigation Plan For The Non-Tidal N.J. Section of the DRB

## Mitigations Actions:

The commission did not identify any mitigation actions for this plan update. Historically, the Commission has not provided actions.

However, **one** of the six priority management areas identified in the Interstate Flood Mitigation Task Force Report was structural and non-structural mitigation measures. Two of the nine specific recommendations in this management area included:

- Provide training for local officials to maximize use of available mitigation funding; and
- Evaluate and coordinate flood mitigation plans and strategies



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Delaware Flood Mitigation Traks Force &amp; Delaware River Basin Commission Interstate Flood Mitigation Task Force</b>
<b>Description of Organization</b>	As a result of the multiple flooding events that occurred on the Delaware River in 2004-2006, four governors directed DRBC staff to convene an interstate task force to develop a set of recommended measures for mitigating and alleviating flooding impacts along the Delaware and its tributaries. In July 2007, the Delaware River Basin Interstate Flood Mitigation Task Force forwarded to the four basin state governors its action agenda for a more proactive, sustainable, and systematic approach to flood damage reduction. The final report with 45 consensus recommendations addressed six management areas: flood warning, reservoir operations, floodplain regulation, floodplain mapping, structural and non-structural mitigation, and stormwater management.	
<b>Point of Contact</b>	Name/Title: Joseph Ruggeri, P.E., CFM, Supervising Engineer Email: joseph.ruggeri@dep.nj.gov Phone: (609) 292-2296 Address: 501 East State Street, Mail Code 501-01A, P.O. Box 420, Trenton, NJ 08626-0420 Website: <a href="http://www.nj.gov/drbc/programs/flood/index.html">http://www.nj.gov/drbc/programs/flood/index.html</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Flood Risk Reduction	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The Task Force was instrumental in reviewing and providing comments for the new Flood Control Act regulations and supports pre and post hazard mitigation. The Governor relies on the Task Force as an Advisory body for flooding issues.	
<b>Does your organization provide technical assistance?</b>	No, but it is a recommendation in the Multi-Jurisdictional Flood Mitigation Plan For The Non-Tidal N.J. Section of the DRB	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Multi-Jurisdictional Flood Mitigation Plan For The Non-Tidal N.J. Section of the DRB One of the six priority management areas identified in the Interstate Flood Mitigation Task Force Report was structural and non-structural mitigation measures. Two of the nine specific recommendations in this management area included: Provide training for local officials to maximize use of available mitigation funding; and Evaluate and coordinate flood mitigation plans and strategies	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No	
<b>Is Funding available for Hazard Mitigation?</b>	No	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Thanks to a grant awarded by FEMA in 2006, DRBC partnered with the N.J. Department of Environmental Protection and the state's Office of Emergency Management to develop a multi-jurisdictional flood mitigation plan for 43 New Jersey municipalities located in Hunterdon, Mercer, Sussex and Warren counties in the DRB. This plan, which was approved by the Federal Emergency Management Agency (FEMA) in a letter dated November 7, 2008, contains over 160 locally developed mitigation actions that, if implemented, could reduce future flood loss.	



## **DEPARTMENT OF TRANSPORTATION (10/1/2018)**



State of New Jersey All-Hazard Mitigation Plan Update  
Capability Assessment / Mitigation Actions Meeting

**Michael Baker**  
INTERNATIONAL

Organization: NJ DOT Date: 10/11/2018

Name	Organization	Email Address	Phone Number
Michael Yaffe	MB	Michael.Yaffe@mbaker	609-807-9683
Paige Kaspar	MB	Paige.Kaspar@mbaker	609-807-9673
ROBERT BURD	NJ DOT	Robert.Burd@dot.nj.gov	609-571-0757



# NJ State Hazard Mitigation Plan Update

*Meeting Minutes/ Call Log*

Department of Transportation

**Date:** October 1, 2018

**Time:** 3:00pm

**Attendees:**

Name	Organization	Title	Email Address
Michael Yaffe	Michael Baker Intl.	Senior Planner	Michael.yaffe@mbakerintl.com
Paige Kaspar	Michael Baker Intl.	Planner	Paige.Kaspar@mbakerintl.com
Robert Burd	DOT	Manager, Office of Emergency Management & Transportation Security	Robert.burd@dot.nj.gov

**Minutes/Notes:**

-Mitigation Actions:

- Most likely will stay the same.
- Hardening of draw bridges. Risk Assessment/ Vuln Assessment that was done prior to Burd. State bridges. Took money from TTF line item. \$1.5 million dollars of state funds and \$1.5 million dollars federal funds. Received more money than anticipated. Homeland Security prospective moved some funds. Still working with HMTB on vuln assessment.
- Some of the pump stations have been implemented
- Extreme Winter Weather
  - Salting of Roads
- Orphan Bridges?

-Loss Avoidance Study-

-Next plan update need to have an all-day departments meeting

-What is a capability?

-Receive federal highway funds for planning. Assess and identify if the department needs its own hazard mitigation plan/ or its own emergency response plan. Better chance to receive funding if you have a plan already written.

-Maintenance yards are sometimes in a flood zones. Elevations could be a mitigation action.



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Transportation - Haz Mat and Rail Inspection Program</b>
<b>Description of Organization</b>	NJDOT, through the Division of Multimodal Services, is responsible for the oversight and / or support of several modes of transportation including: general aviation, maritime, light rail, and freight rail; making it a multi-modal focused organization. The Rail Freight Assistance Program, enabled by the New Jersey State Rail Plan Update supports the preservation, rehabilitation and enhancement of New Jersey's freight railroad network, and details projects that have been submitted for funding consideration under N.J.A.C. 16:53C. MMS is also responsible for NJDOT's Freight Rail Hazardous Materials (HAZMAT) Inspection Program. The HAZMAT Inspection Program is performed under the authority of the Federal Railroad Administration (FRA). The Office of Fixed Guideway Safety and Security, under a federally-mandated program, proactively coordinates safety and security programs for the light rail systems in the State.
<b>Point of Contact</b>	Name/Title: Nicole Minutoli, Division of Multimodal Services Email: Nicole.Minutoli@dot.nj.gov Phone: 609-530-2854 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website:
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Pre-emption through safety and oversight, of a HAZMAT release from freight rail cars in transit. OFG - Multiple Hazards - HAZMAT Release from Freight Rail Cars in transit; flooding, storm surge, road closures, power outages, hurricanes, etc.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Infrastructure preservation, mobility, and safety; Vigilant inspection of facilities and / or rail yards involved with shipping or receiving HAZMAT, and properly enforcing the applicable federal regulations, lessens the risks associated with the movements of the materials and the possibility of releases at rail yards or facilities.
<b>Does your organization provide technical assistance?</b>	Y – NJDOT's inspection reports and violations-related documents are routinely filed in FRA's secure Information Management system, and are provided to FRA's Region I Office in Massachusetts and their Headquarters in Washington, DC. NJDOT's Inspector provides assistance to the shippers and receivers by advising them of the applicable regulations and requirements, as necessary. OFGSSO maintains a log of all hazardous conditions on each of the rail transit systems within its jurisdiction. Additionally, OFGSSO participates in federal, state, and local training as it becomes available.
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	MMS follows the directions and guidance issued by the Federal Railroad Administration to administer the Program. OFG – Yes. OFG as part of its federal requirements, issues a copy of the NJDOT's NJ State System Program Standards, which include directions on how hazards and hazardous conditions must be treated and reported to OFG.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	NJDOT's Inspector provides assistance to the shippers and receivers by advising them of the applicable regulations and requirements, as necessary. FRA pays the full costs associated with training and travel in order for NJDOT's Inspector to maintain his FRA-Issued certification. OFG meets with all rail transit properties under its jurisdiction on a quarterly basis to discuss issues/accidents/hazards that have occurred in the last quarter and to provide updates as to where those conditions and mitigation actions stand. This methodology also serves to make all of the rail transit systems to become aware of ongoing and potential issues for all of the systems under OFG's jurisdiction.
<b>Is Funding available for Hazard Mitigation?</b>	N/A
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	NJDOT's Inspector provides assistance to the shippers and receivers by advising them of the applicable regulations and requirements, as necessary. FRA pays the full costs associated with training and travel in order for NJDOT's Inspector to maintain his FRA-Issued certification. OFG meets with all rail transit properties under its jurisdiction on a quarterly basis to discuss issues/accidents/hazards that have occurred in the last quarter and to provide updates as to where those conditions and mitigation actions stand. This methodology also serves to make all of the rail transit systems to become aware of ongoing and potential issues for all of the systems under OFG jurisdiction.



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - Multi-modal Grants and Programs</b>
<b>Description of Organization</b>	<p>NJDOT, through the Division of Multimodal Services, is responsible for the oversight and / or support of several modes of transportation including: general aviation, maritime, light rail, and freight rail; making it a multi-modal focused organization. The Bureau of Multimodal Grants and Programs (MGaP): Administers grants to: <input type="checkbox"/> General Aviation Public Use Airports via the Airport Improvement Program; <input type="checkbox"/> Freight Railroads (via the Rail Freight Assistance Program), and <input type="checkbox"/> Maritime Facilities via I-Boast NJ Program (currently inactive). All new Grants under the Airport Improvement Program and the Rail Freight Assistance Program are being administered through an online resource called SAGE (System for Administering Grants Electronically.) The Airport Improvement Program, enabled by NJSA 8 and NJAC 16:56, offers Capital Improvement Program Grants and Matching Grants to Federal Aviation Administration (FAA) Grants awarded to New Jersey airports. The Rail Freight Assistance Program, enabled by the New Jersey State Rail Plan Update supports the preservation, rehabilitation and enhancement of New Jersey's freight railroad network, and details projects that have been submitted for funding consideration under N.J.A.C. 16:53C. MGaP also responsible for NJDOT's Freight Rail Hazardous Materials (HAZMAT) Inspection Program. The HAZMAT Inspection Program is performed under the authority of the Federal Railroad Administration (FRA). The Office of Fixed Guideway Safety and Security, under a federally-mandated program, proactively coordinates safety and security programs for the light rail systems in the State.</p>	
<b>Point of Contact</b>	<p>Name/Title: Dominick Critelli/Acting Manager, Multimodal Grants and Programs  Email: Dominick.Critelli@dot.state.nj.us  Phone: 609-530-2847  Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600  Name/Title: David Morgan/Manager, Fixed Guideway Safety and Security  Email: David.Morgan@dot.state.nj.us  Phone: 609-530-2551  Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600</p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	<p>MGaP – HAZMAT release from freight rail cars in transit. OFGSSO - Multiple Hazards - HAZMAT Release from Freight Rail Cars in transit; flooding, storm surge, road closures, power outages, hurricanes, etc.</p>	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	<p>Infrastructure preservation, mobility, and safety; Vigilant inspection of facilities and / or rail yards involved with shipping or receiving HAZMAT, and properly enforcing the applicable federal regulations, lessens the risks associated with the movements of the materials and the possibility of releases at rail yards or facilities.</p>	
<b>Does your organization provide technical assistance?</b>	<p>Y – NJDOT's inspection reports and violations-related documents are routinely filed in FRA's secure Information Management system, and are provided to FRA's Region I Office in Massachusetts and their Headquarters in Washington, DC. NJDOT's Inspector provides assistance to the shippers and receivers by advising them of the applicable regulations and requirements, as necessary.OFGSSO maintains a log of all hazardous conditions on each of the rail transit systems within its jurisdiction. Additionally, OFGSSO participates in federal, state, and local training as it becomes available.</p>	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	<p>MGaP – Yes. MGaP follows the directions and guidance issued by the Federal Railroad Administration to administer the Program. OFGSSO – Yes. OFGSSO as part of its federal requirements, issues a copy of the NJDOT's NJ State System Program Standards, which include directions on how hazards and hazardous conditions must be treated and reported to OFGSSO.</p>	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	<p>NJDOT's Inspector provides assistance to the shippers and receivers by advising them of the applicable regulations and requirements, as necessary. FRA pays the full costs associated with training and travel in order for NJDOT's Inspector to maintain his FRA-Issued certification. OFGSSO meets with all rail transit properties under its jurisdiction on a quarterly basis to discuss issues/accidents/hazards that have occurred in the last quarter and to provide updates as to where those conditions and mitigation actions stand. This methodology also serves to make all of the rail transit systems to become aware of ongoing and potential issues for all of the systems under OFGSSO's jurisdiction.</p>	
<b>Is Funding available for Hazard Mitigation?</b>	<p>MGaP - No. OFGSSO – No.</p>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	<p>MGaP - No. OFGSSO – No.</p>	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Transportation - Planning and MPOs</b>
<b>Description of Organization</b>	NJDOT is managing a transportation system which is experiencing increases in demand, as populations grow and its needs and expectations rise. Congestion is increasing and the need for public transit is intensifying. Very few capacity increases are planned in terms of new state highways. As the system has matured, it has also aged. Its maintenance and rehab costs are greater than the funding available. The long-range planning process identifies goals, policies, strategies, and actions to improve the movement of people and freight and support economic growth during these difficult times. There are three Metropolitan Planning Organizations (MPOs) in New Jersey composed of locally elected officials and representatives from each geographic urban area. Each of them is a forum for continuing, coordinated transportation planning with its portion of federal funds in the Transportation Improvement Program. NJDOT is a voting member of each of the three regional MPOs – the North Jersey Transportation Planning Authority, the South Jersey Transportation Planning Organization, and the Delaware Valley Regional Planning Commission. These MPOs coordinate with the Department to oversee a multi-billion dollars capital program, and solicit public input into funding decisions. They also conduct studies, assist county and local planning agencies, and monitor compliance with national air quality goals.
<b>Point of Contact</b>	Name/Title: Andrew Swords, NJDOT – Director of Statewide Planning Email: Dominick.Critelli@dot.state.nj.us Phone: 609-530-2847 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website: <a href="http://www.nj.gov/transportation/works/njchoices/">www.nj.gov/transportation/works/njchoices/</a>
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Infrastructure preservation, enhance mobility, adopt smart growth policies, optimize freight distribution, and improve safety; Facilitation
<b>Does your organization provide technical assistance?</b>	Y – Subregional planning program; traffic counts, roadway capacity, planned highway construction schedule, and maps; MPOs can develop models to help identify the logistics and equipment necessary and identify what is available for temporary and long-term housing/relocations, and debris removal.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Regional Catastrophic Planning Grant Program; Newark/Jersey City UASI Regional Evacuation Planning Study, Monmouth County Coastal Evacuation Route Improvement Study, and the new National Response Framework.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Hurricane Preparedness and Climate Change Seminars
<b>Is Funding available for Hazard Mitigation?</b>	Y – Federal and state funding
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	No





# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Transportation - Reverse Lane Strategies (or contraflow operations)	
<b>Description of Organization</b>	NJDOT has three contraflow plans in place. The New Jersey Turnpike Authority and the South Jersey Transportation Authority also have one plan each (Garden State Parkway and Atlantic City Expressway). When activated, for a temporary period of time, NJDOT and its partners expand the lanes available for all travel in an outbound direction (away from the anticipated area of danger) and facilitate its usage for outbound vehicular travel.
<b>Point of Contact</b>	Name/Title: Robert Burd, Manager, NJDOT Office of Emergency Management Email: Robert.Burd@dot.state.nj.us Phone: 609-530-27177 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website:
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Evacuation to preserve life and possessions; Facilitation
<b>Does your organization provide technical assistance?</b>	Y - Reverse lane strategies are already in place for the shore region. Training and exercises are conducted annually. NJDOT OEM provides traffic control assistance including cones, barriers, signs, VMS, arrow boards, HAR, etc. as required at key posts along the route.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	Trans-Hudson Emergency Transportation and Evacuation Plan; NJ-Philadelphia Cross Border Evacuation Plan; Atlantic City Expressway Contraflow Coastal Evacuation; Garden State Parkway Coastal Evacuation; I-195 Contraflow Coastal Evacuation; Route 47/347 Contraflow Coastal Evacuation; and Route 72 Contraflow Coastal Evacuation Plan.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Regular discussions and updates to work through the county's first responders and emergency management personnel.
<b>Is Funding available for Hazard Mitigation?</b>	N
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Not FEMA. See above for NJDOT's partnership with the NJ State Police, NJ Turnpike Authority, and South Jersey Transportation Authority.



# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - ROW and Property Acquisitions</b>
<b>Description of Organization</b>	<p>NJDOT is empowered to acquire real property that is needed for public use, such as for road construction or an improvement to a transportation facility. NJDOT must comply with the Eminent Domain Act of 1971 for the acquisition of real property needed for transportation projects. This property acquisition process is governed by both Federal and State law under the eminent domain procedure. The property acquisition steps include notification, valuation, negotiations (eminent domain), and relocation. Additionally, excess NJDOT land sometimes becomes available for lease or sale as surplus property to other public or private interests. The ROW division is also responsible for the implementation of the State Highway access management code. This process involves modifying, revoking, or adjusting all highway access on State highways.</p>	
<b>Point of Contact</b>	<p>Name/Title: Victor Akpu, Director of ROW and Access Management          Email: Victor.Akpu@dot.state.nj.us          Phone: 609-530-2360          Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600</p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	<p>The Division of Right of Way and Access Management is not specifically tasked with hazard mitigation activities. However, the eminent domain/property acquisition process and the sale of surplus government property should be of interest to post-disaster impacted communities seeking re-distribution of land assets for transportation infrastructure protection.</p>	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	<p>ROW and Access Management are not specifically charged with mitigating natural hazards. However, in areas where property acquisitions are necessary in order to help with the recovery and infrastructure resiliency of a community, understanding the state highway access process and the excess land sale process may be helpful.</p>	
<b>Does your organization provide technical assistance?</b>	<p>The Division of Right of Way and Access Management participates in public information meetings to explain the real estate acquisition process as well as the relocation process to the public. These public forums are designed for highway improvement projects, especially those impacted by Right of Way takings. Generally, after a natural disaster, this Division does not get involved with those public information meetings, which are precipitated by the NJ State Police/NJ Office of Emergency Management.</p>	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	<p>None. If a new highway project has an impact of on an environmentally sensitive land parcel such as a gas station, or other known hazardous site, the Division would be involved in the remediation of hazardous materials.</p>	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	<p>No</p>	
<b>Is Funding available for Hazard Mitigation?</b>	<p>No</p>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	<p>No. The Division coordinates with DOT's environmental unit when seeking to remediate hazardous materials in its property acquisition process.</p>	



**Capability Assessment Form**  
**State of New Jersey All-Hazard Mitigation Plan Update**

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Transportation -Winter Readiness	
<b>Description of Organization</b>	NJDOT strives to make winter travel as safe as possible. NJDOT has 13,295 lane miles of interstate, US, and State routes under its jurisdiction, which it is charged with keeping open and passable at all time during winter weather. The goal during a winter storm is to maintain the roads for safe travel, at safe speeds, by using anti-icing materials, and, when appropriate, removal of snow with plows.
<b>Point of Contact</b>	Name/Title: Douglas Campbell/ Winter Operations Supervisor Email: Douglas.campbell@dot.nj.gov Phone: 609-530-2815; 609-203-0543 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website:
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Multiple hazards – snow and ice road closures, flooding, storm surge, tree and debris removal, power outages, etc.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Infrastructure preservation, mobility, and safety; Facilitation; NJDOT has increased its salt-brine making capabilities as well as installed numerous Road Weather Information Sites across the state.
<b>Does your organization provide technical assistance?</b>	No
<b>Is hazard mitigation addressed in existing plans/policies/ documents? If so please name relevant plans /policies/ documents</b>	Y. Winter Maintenance Training Manual and Snow Plowing guides for internal use
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Y - internally with field staff
<b>Is Funding available for Hazard Mitigation?</b>	No
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Y – We provide staff in the State EOC for better coordination and communication with the state agency partners during winter events and we have representation with the NJ Turnpike Authority and South Jersey Transportation Authority at STMC for resource coordination.



# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - 511 Traffic Monitoring</b>
<b>Description of Organization</b>	The traffic monitoring system, 511NJ, is a free service for the public that supplies traffic information about the New Jersey Interstates, State Highways, New Jersey Turnpike, Garden State Parkway, Atlantic City Expressway, and all bridge and tunnel crossings to motorists. The system combines traffic data into up to date condition reports that are always available and accessible via text, voice, or internet to commuters.	
<b>Point of Contact</b>	Name/Title: Johnathan Martinez, Principal Engineer Email: johnathan.martinez@dot.nj.gov Phone: 609.530.4690 Address: 1035 Parkway Ave, Trenton, NJ 08625 Website: <a href="http://511nj.org/">http://511nj.org/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	The system can be used to alert the public about any traffic incident on the New Jersey Interstates, State Highways, New Jersey Turnpike, Garden State Parkway, Atlantic City Expressway, and any bridge or tunnel crossing or large scale items such as states of emergency or travel bans.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	The 511NJ system is a tool to inform the public about traffic incidents. This prevents long delays and reduces the number of people involved in hazardous situations.	
<b>Does your organization provide technical assistance?</b>	The 511NJ system data includes traffic information from traffic cameras, travel time sensors, and local law enforcement. This information is provided free of charge to the public. There is also the capability for the system to alert drivers to Amber and Silver alerts as well as other emergency messages.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	No	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No	
<b>Is Funding available for Hazard Mitigation?</b>	No	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Not FEMA. The 511 system assists NJOEM in conveying messages. FHWA provides funding for 511NJ for data and web development.	



# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b> New Jersey Department of Transportation - Capital Program	
<b>Description of Organization</b>	NJDOT allocates funds to projects and programs through two main capital program documents – the Transportation Capital Program and the Statewide Transportation Improvement Program. The Transportation Capital Program is a document required by State Law which allocates federal and State transportation funding for both NJDOT and NJ Transit within one state fiscal year. It also includes funds that are allocated to counties and municipalities. The Statewide Transportation Improvement Program (STIP) is required by federal law. It allocates funding over a ten year period constrained by what are reasonable revenue expectations. It includes NJDOT, NJ Transit, and the counties and municipalities. The STIP is compiled from three regional Transportation Improvement Programs (TIPs) which are developed in conjunction with NJ's three metropolitan planning organizations (MPOs). Each MPO has extensive public involvement activities in preparation for the TIP. A companion document, the Statewide Capital Investment Strategy, lays out capital investment goals for NJDOT, NJ Transit, the NJ Turnpike Authority, and the South Jersey Transportation Authority. NJDOT programs approximately \$2 billion annually for capital improvements on state and local roads and bridges. The Capital Program is approved as part of the State's budget.
<b>Point of Contact</b>	Name/Title: Dave Kuhn, Assistant Commissioner Email: David.Kuhn@dot.state.nj.us Phone: 609-530-5228 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	Multiple hazards – flooding, storm surge, hazardous materials, road closures, power outages, hurricanes, etc.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	No
<b>Does your organization provide technical assistance?</b>	Infrastructure preservation, mobility, and safety
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	No
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No
<b>Is Funding available for Hazard Mitigation?</b>	Y – Funding of the Program is typically federal through the Federal Highway Administration or State through the Transportation Trust Fund.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	No





# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - County Diversionary Route Plans</b>
<b>Description of Organization</b>	These Diversion Plans are a compilation of predetermined diversion routes developed to improve coordination between State and local agencies when incidents occur. These Diversion Plans offer the Incident Commanders viable alternate routes to utilize during incidents. NJDOT/NJSP can provide assistance to the Incident Commander in establishing these designated diversions for the movement of traffic around an incident, thus avoiding region-wide gridlock. These plans support pre mitigation.	
<b>Point of Contact</b>	Name/Title: Sal Cowan. Director of Traffic Operations. Transportation Systems Management Unit Email: Salvatore.cowan@dot.state.nj.us Phone: 609-530-4690 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website: <a href="http://www.state.nj.us/transportation/">http://www.state.nj.us/transportation/</a> or <a href="http://www.dvrpc.org/Operations/IDrum.htm">http://www.dvrpc.org/Operations/IDrum.htm</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	NJDOT Diversion Plans can be used for any hazard that is a full road closure of a state-controlled/operated roadway.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Facilitation	
<b>Does your organization provide technical assistance?</b>	Not technical assistance per se, but mutual coordination is critical. All the county diversion routes are in place. NJDOT's Traffic Operations is now in the process of reviewing all of the older versions of these routes since nothing is likely to stay the same. We approach the locals and inform them of our plan and they provide feedback to our team for recommended changes to the plan. We then incorporate their changes into the total document. Then we submit them for inclusion into our new electronic system (IDRuM).	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	NJDOT does not produce an Incident Management Plan each year. We have an Incident Management Program that is a federally funded program which provides for NJSP support for IM personnel to work hand in hand with our team. It provides funding for NJDOT Maintenance's response to incidents with their equipment, equipment and supplies for our responders as well as outreach to local agencies, participation in incident management task forces, and many other tools in the IM toolbox.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	Regular discussions and updates to work through the county police authorities.	
<b>Is Funding available for Hazard Mitigation?</b>	Diversion plan scope/funding is part of NJDOT's Incident Management with federal authorization.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Not FEMA. See above for NJDOT's IM partnership with the NJ State Police.	



## Capability Assessment Form

### State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>	<b>New Jersey Department of Transportation - Dredged Material Management</b>
<b>Description of Organization</b>	Dredged material is mostly sediment that has settled into the waterways through natural erosion processes. Dredging is the activity of removing the dredged material for purposes of safe navigation. Dredged material, particularly from state navigation channels, is relatively uncontaminated. This material can often be beneficially used for beach replenishment, as fill, or mixed with leaf mulch or wood chips to create topsoil. NJDOT provides interagency support, program planning and policy recommendations on maritime issues to the Commissioner, Governor, and the Legislature. NJDOT serves as the primary advisory body for the support of New Jersey's \$50 billion maritime industry which includes ports and terminals, cargo movement, boat manufacturing and sales, ferry operations, marine trades, recreational and commercial boating and maritime environmental resources. Management of dredging activities in New Jersey is generally divided into three main geographic areas – New Jersey/New York Harbor, Delaware River/Delaware River Ports and the State's Navigation Channels. This program also promotes coordination and cooperation among federal, state, regional, and non-governmental agencies.
<b>Point of Contact</b>	Name/Title: Genevieve Boehm Clifton Email: genevieve.boehm-clifton@dot.state.nj.us Phone: 609-530-4770 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website: www.state.nj.us/transportation/airwater/maritime
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>	
<b>What hazards are addressed by your organization?</b>	NJDOT/OMR works with agency partners and stakeholders to reduce the navigation hazards associated with sedimentation and debris in state channels. Current initiatives to utilize dredged material for marsh restoration will increase coastal resiliency to storm surge and sea level rise.
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Through this Dredged Material Resource Management Program, NJDOT/OMR contributes to safe and resilient navigation (recreational and commercial boating) and beach replenishment. Current initiatives to utilize dredged material for marsh restoration will increase coastal resiliency to storm surge and sea level rise.
<b>Does your organization provide technical assistance?</b>	Y – NJDOT/OMR is responsible for the development, creation and maintenance of databases associated with New Jersey's Marine Transportation System including channel conditions, dredged material management locations/capacity, dredging projects, dredged material quality, etc. Parts of this system will be publicly accessible. NJDOT/OMR has produced numerous articles, brochures and other educational materials that educate the public on the benefits of NJ's Marine Transportation System.
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	NJDOT/OMR will integrate hazard mitigation planning into existing plans, policies, and documents, post Super-storm Sandy.
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	N
<b>Is Funding available for Hazard Mitigation?</b>	NJDOT/OMR has not previously provided funding for mitigation projects to others, but has worked with Federal partners to obtain funds to assist the State in maintaining our MTS, including providing disaster relief.
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Y; For Superstorm Sandy, OMR worked closely with NJDEP, NJOEM and the NJSP to coordinate the response and recovery efforts. NJDOT/OMR also provides guidance, advice and information on other maritime related matters when requested.



# Capability Assessment Form State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - Geographic Information System (GIS)</b>
<b>Description of Organization</b>	The Geographic Information System (GIS) is a computerized mapping system that stores a variety of data including traffic incidents, demographics, and open space. The department uses GIS to create maps that are used in several areas including planning and highway construction. GIS is also used to coordinate and plan project locations with other government agencies.	
<b>Point of Contact</b>	Name/Title: Timothy Stewart Email: <a href="mailto:timothy.stewart@dot.nj.gov">timothy.stewart@dot.nj.gov</a> Phone: 609-530-28393 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website: <a href="http://www.state.nj.us/transportation/gis/">http://www.state.nj.us/transportation/gis/</a>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	GIS data can be used to address traffic accidents or congestion in addition to any geographical changes due to natural disasters.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	GIS provides a critical capability with data and resources, which can be used to address our preparedness for all hazards.	
<b>Does your organization provide technical assistance?</b>	GIS consumes existing geographical data from source location or EDW, including construction, road inventory, accidents, demographics, and open space. The data is displayed and used to generate municipal, county, state, and specialized maps. State and county maps are available online for the public.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	No.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No.	
<b>Is Funding available for Hazard Mitigation?</b>	No.	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Y - GIS has working relationship supporting NJDOT/NJOEM, as well as other agencies, with transportation related maps used for planning, response and recovery events as needed.	



# Capability Assessment Form

## State of New Jersey All-Hazard Mitigation Plan Update

**Michael Baker**  
INTERNATIONAL

<b>Organization Name:</b>		<b>New Jersey Department of Transportation - Local Aid and Economic Development</b>
<b>Description of Organization</b>	<p>NJDOT is committed to advancing transportation projects that enhance safety, renew aging infrastructure, and support new transportation opportunities at the county and municipal level. The Transportation Trust Fund and the Safe, Accountable, Flexible, Efficient Transportation Equity (SAFE-TEA) Act legislation provide the opportunity for funding assistance to local governments for road, bridge, and other transportation projects. NJDOT has established a number of Local Aid Programs that provide financial support to counties and municipalities for capital improvements to transportation infrastructure.</p>	
<b>Point of Contact</b>	<p>Name/Title: Dave Kuhn, Assistant Commissioner          Email: David.Kuhn@dot.state.nj.us          Phone: 609-530-5228          Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600          Website: <a href="http://www.state.nj.us/transportation/business/localaid/">http://www.state.nj.us/transportation/business/localaid/</a></p>	
<b>Hazard Mitigation Effectiveness - Current Capabilities</b>		
<b>What hazards are addressed by your organization?</b>	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.	
<b>Describe your organization's contribution to loss reduction from hazards.</b>	Infrastructure preservation, mobility, and safety	
<b>Does your organization provide technical assistance?</b>	Y – NJDOT's Division of Local Aid has provided technical assistance to counties in assessing damage after storm events. The damage assessments are needed as part of the application process for federal Emergency Relief Program funds.	
<b>Is hazard mitigation addressed in existing plans/policies/documents? If so please name relevant plans /policies/ documents</b>	No.	
<b>Does your organization hold or attend mitigation trainings/seminars/ conferences?</b>	No.	
<b>Is Funding available for Hazard Mitigation?</b>	<p>Y - Annually, Local Aid Programs provide approximately \$350 million in a combination of federal and state transportation trust fund funding. The Transportation Trust Fund alone provides \$175 million in State Aid to municipalities and counties for local transportation improvements. In FY 2011, the Municipal Aid funding was \$78.75 million for municipalities, \$78.75 million for counties, and \$17.5 million for the Local Aid Infrastructure Fund. In addition, several programs which provide funding to counties and municipalities are supported with federal monies available through the Transportation Equity Act for the 21st Century (TEA 21) legislation. The State funded programs include Bikeway Grants, Local Bridges, Safe Streets and Neighborhoods, Transit Village, and Centers of Place.</p>	
<b>Does your organization have any NJOEM/FEMA Mitigation partnership/coordination?</b>	Y – Close coordination is required to ensure that damage is properly assessed and also to determine what is eligible under FEMA or FHWA regulations.	

# State of New Jersey All-Hazard Mitigation Plan Update

## Mitigation Actions



Responsible Agency	Mitigation Action/Initiative	Goal	Priority	Projected Timeline	Projected Resources	Hazards Addressed	Rationale for Action and Priority	How Action Contributes to Mitigation Strategy
NJDOT	Constructing seismic retrofits on bridges to improve resiliency against earthquake damage	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	Earthquake	Critical bridge/route for evacuation purposes.	Reduces future earthquake road and bridge damage.
NJDOT	Hardening of traffic controllers	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	All Hazards	Critical bridge/route for evacuation purposes.	Reduces future traffic controller and signal damage.
NJDOT	Hardening of draw bridges	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	All Hazards	Critical bridge/route for evacuation purposes.	Reduces future moveable bridge damage.
NJDOT	Upgrading highway drainage systems	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	Flood	Critical bridge/route for evacuation purposes.	Reduces flood damage.
NJDOT	Installing and and hardening pumps stations	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	Flood	Critical bridge/route for evacuation purposes.	Reduces flood damage.
NJDOT	Installing deep pavement boxes throughout critical evacuation routes	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	All Hazards	Critical bridge/route for evacuation purposes.	Reduces future road and bridge damage.
NJDOT	Geospatial mapping of navigable waterways	4, 5, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	All Hazards	Understand State assets to better prepare for future hazards.	Improves allocation of resources to maintain navigable waterways.
NJDOT	Anti-scouring measures to improve bridge and road longevity	1, 2, 6	High	Ongoing	FHWA ER Program and/or FEMA 404	Flood	Critical bridge/route for evacuation purposes.	Reduces future road and bridge damage.