



Appendix G. Capability Assessment



New Jersey Delaware River Flood Mitigation Task Force & Delaware River Basin Commission Interstate Flood Mitigation Task Force	
Description	As a result of the multiple flooding events that occurred on the Delaware River in 2004-2006, The Task Force was called to analyze state flooding issues. A NJ Flood Mitigation Task force was convened in 2005 and reported out in 2006. An interstate Flood Mitigation Task Force was convened in 2005
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: http://www.nj.gov/drbc/programs/flood/index.html
Effectiveness	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.
Contribution to Loss Reduction	Assistance
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	No
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Yes
Mitigation Training/seminars/conferences?	No
NJOEM/FEMA Mitigation partnership/coordination? Y/N	No
Funding Offered? Y/N (If yes, please provide description)	No
Hazards addressed by your organization(e.g. Multiple hazards, natural hazards, flooding, etc.)	Flood Risk Reduction
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	No



New Jersey Department of Agriculture (NJDA)	
Description	
Point of Contact	Name/Title: Jeff Beach, NJDA Policy Advisor/Emergency Management Coordinator Email: jeffrey.beach@ag.state.nj.us Phone: 609-439-2038 Address: 369 S. Warren St., PO Box 330, Trenton, NJ 08625 Website: http://www.state.nj.us/agriculture/
Effectiveness	Preparing the agricultural community and the food industries it supplies to endure natural and man-made hazards with the least loss possible. Secretary Douglas Fisher, Assistant Secretary Al Murray, State Vet Dr. Manoel Tamassia, Food and Nutrition Division Director Rose Tricario, Policy Advisor/Emergency Management Coordinator Jeff Beach, Dairy Coordinator Dan Wunderlich, Livestock Coordinator/Ag Fairs Coordinator Lynn Mathews, ESF Alternate Coordinators Nikki Steward and Rob Vivian.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	N
Provides Technical Assistance? Y/N (If yes, describe type)	Y. 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).
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	ESF11 and Appendices.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe)	Y. Specifically in ESF11 appendices. Also, participation as a “core member” of OHSP Food and Agriculture Sector working group.
Mitigation Training/seminars/conferences?	Y. 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.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	? (Does working with OEM on routine coordination for ESF11 apply here?)
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Loss of crops, livestock and farm infrastructure as a result of severe weather and/or animal and plant diseases (including those on farms and also in aquatic operations).
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Pursuing further integration and standardization of CART and AEWG functions through a wider statewide effort.



New Jersey Department of Banking & Insurance	
Description	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.
Point of Contact	Name/Title: Richard S. O'Brien, Director of Administration Email: Richard.O'Brien@dobi.state.nj.us Phone: 609-218-1172 Address: PO Box 325, Trenton, NJ 08625 Website: http://www.state.nj.us/dobi/index.html
Effectiveness	The Department regulates the solvency of insurers so that sufficient funds exist to pay claims, intervenes on behalf of consumers when insurers do not meet contractual obligations, and encourages insurer investment in the marketplace in order to foster competition, which increases the availability of coverage and puts downward pressure on premiums. One tool used by Insurers to maintain availability and control costs for insureds is the encouragement of mitigation, such as through the hardening of structures to lessen or avoid potential damages. Storm shutters and roof tie downs are examples of mitigation against damage.
Contribution to Loss Reduction	The Department provides assistance and issued Order (A07-126) mandating companies authorized to sell homeowner insurance to have a prepared Business Continuation Plan.
Available Funding? Y/N (If Yes, please describe the types of funding available)	NO
Provides Technical Assistance? Y/N (If yes, describe type)	Yes. The Department can provide assistance with the understanding of insurance contracts, insurance market conditions and with data collection regarding claims activity.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes. The Department recently participated in the Insurance Industry Roundtable hosted by FEMA and shared OFB (Open For Business)-EZ document. The document was prepared by the Insurance Institute for Business & Home Safety (IBHS). The institute works to reduce the social and economic effects of natural disasters and other risks on residential and commercial property by conducting building science research and advocating improved construction, maintenance and preparedness practices.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Yes. The Department is currently partnering with the Domestic Security Preparedness Task Force (DSPTF) on its Continuity of Operations (COOP) and Continuity of Government (COG) plans in an exercise series titled, Garden State Guardian. This exercise will consist of several tabletop exercises beginning in August and culminate in an operation based exercise in 2014.
Mitigation Training/seminars/conferences?	Yes. I'm currently scheduled to participate in Emergency Management training on 7/16 and 7/17 at Kean University.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes. I represent the Department at the Joint Field Operation (JFO) in Lincroft where I partner with NJOEM and FEMA on a daily basis on various Superstorm Sandy related topics, including mitigation.
Funding Offered? Y/N (If yes, please provide description)	NO
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	The Department is engaged with industry on multiple hazards that impact the State,
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Yes. There are currently federal grants for Hazard Mitigation Planning but will defer to NJOEM on the allocation methodology.



New Jersey Department of Education	
Description	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.
Point of Contact	Name/Title: James Palmer, Director, Project Management Office Email: james.palmer@doe.state.nj.us Phone: 609-292-3276 Address: 100 Riverview Drive, Trenton, NJ 08625 Website: http://education.state.nj.us
Effectiveness	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.
Contribution to Loss Reduction	We share information with individual school districts about federal, state and county work tied to reducing losses.
Available Funding? Y/N (If Yes, please describe the types of funding available)	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 grants. The NJDOE shares information with individual school districts about FEMA mitigation grants and encourages each district to take full advantage of any funding available.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Do you have any plans/documents/guidance that address or promote hazard mitigation?
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	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.
Mitigation Training/seminars/conferences?	The NJDOE does not host any hazard mitigation training conferences.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	We are not aware of any existing hazard mitigation partnership with NJOEM but such a partnership could be beneficial.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Please describe the hazards addressed by you agency.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Many changes have taken place since the last State Plan update. Has your agency changed? Given new responsibilities related to mitigation?



New Jersey Department of Environmental Protection Bureau of Dam Safety & Flood Control	
Description	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: http://www.nj.gov/dep/floodcontrol/
Effectiveness	
Contribution to Loss Reduction	Assistance
Available Funding? Y/N (If Yes, describe the types of funding available)	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.
Provides Technical Assistance? Y/N (If yes, describe type)	Yes. Assistance to communities participating in the NFIP and interested in joining CRS thru the NJDEP Community Assistance Program Unit.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	NJDEP serves as the local sponsor on US Army Corps of Engineers flood risk reduction projects.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Produce non-regulatory flood risk map products that could be used as hazard mitigation planning tools.
Mitigation Training/ seminars/conferences?	NJDEP is an active participants in the state chapter of ASFPFM. Through NJAFM a yearly conference is held in NJ and provides training on flood hazard topics including hazard mitigation.
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.
Funding Offered? Y/N (If yes, please provide type)	Yes, cost share on design and construction of US Army Corps of Engineers flood risk reduction projects.
Hazards addressed by your organization (e.g. Multiple hazards, flooding, etc.)	Flood Risk Hazards
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Since FY2006, NJDEP is a Coordinating Technical Partner (CTP) with FEMA R2 on the production of Flood Risk Map products.



New Jersey Department of Environmental Protection - Division of Water Supply and Geoscience	
Description	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.
Point of Contact	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: http://www.nj.gov/dep/watersupply/
Effectiveness	Water Supply is critical to the health and welfare of all New Jersey citizens and is an important factor in the economic development and prosperity of the State.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	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.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes. Water Supply staff ensures that existing resiliency requirements are examined through the permitting of drinking water infrastructure. Additionally, the DWSRF program currently awards additional ranking points for those water systems with an asset management plan.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	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.
Mitigation Training/seminars/conferences?	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.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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.
Funding Offered? Y/N (If yes, please provide description)	Yes. Through the DWSRF program, low interest loans with limited amounts of forgiveness are awarded annually.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	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.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Yes. Recovery from Superstorm Sandy has highlighted the need to assess and protect critical water supply infrastructure especially in coastal regions. New data sharing and emergency response procedures are being implemented to promote greater system resiliency during and after major events.



New Jersey Department of Environmental Protection – Passaic River Basin Flood Advisory Commission	
Description	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.
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: http://www.nj.gov/dep/passaicriver/
Effectiveness	In 2011, the Commission released 15 recommendations to minimize the impact of flooding in the Passaic River Basin. These recommendations are monitored and progress-to-date reports are updated on the Commission website.
Contribution to Loss Reduction	Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	Yes. Funding has been provided through NJDEP and FEMA to address 15-point recommendations of the Passaic River Basin Flood Advisory Commission report.
Provides Technical Assistance? Y/N (If yes, describe type)	No
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Website: http://www.nj.gov/dep/passaicriver/
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Developed flood forecast gage inundation mapping.
Mitigation Training/seminars/conferences?	No
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes, on acquisition and elevation projects.
Funding Offered? Y/N (If yes, please provide description)	In 2011, \$350,000 awarded to Wayne, Pompton Lakes, Pequannock and Riverdale for stream cleaning. In the future, \$3,000,000 in matching grants will be available to communities in the Passaic River Basin.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Flood Risk Reduction.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Stream Cleaning Grant Program.



New Jersey Department of Environmental Protection – Water Resource Management	
Description	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.
Point of Contact	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: http://www.nj.gov/dep/dwq/
Effectiveness	The NJPDES program has been a major force in the State's efforts to protect and restore the quality of our rivers, lakes, and coastal waters.
Contribution to Loss Reduction	Permitting actions are complemented with facilitation, technical assistance, and training wherever possible.
Available Funding? Y/N (If Yes, please describe the types of funding available)	Low Interest Loans and a limited amount of loan forgiveness is made available each year through the New Jersey Environmental Infrastructure Financing Program within the Municipal Finance and Construction Element in the Division of Water Quality.
Provides Technical Assistance? Y/N (If yes, describe type)	Yes. The Programs engineering and environmental specialist staff provide technical assistance in the development, interpretation and implementation of permit conditions.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes. Especially after Superstorm Sandy the Program's technical review promotes mitigation and resiliency measures wherever possible.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe)	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.
Mitigation Training/seminars/conferences?	Since Superstorm Sandy the Department has initiated several round table discussions with impacted facilities to gather information on lessons learned. This resulted in the Department issuing further mitigation guidance and several meetings and conferences to discuss the guidance.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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.
Funding Offered? Y/N (If yes, please provide description)	Yes. As noted above, low Interest Loans and a limited amount of loan forgiveness. Approx. \$350 Million/year.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	The program is able to finance infrastructure repair, replacement and mitigation regardless of the cause.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	The Program is in the process of developing guidance for Flood proofing, Auxiliary Power, proper Asset Management Planning, Operation and Maintenance, stormwater, and sludge resiliency. An initiative to implement a new individual permit program for the reduction of Combined Sewer Overflows is well underway. In addition, the Program is expanding its Green Infrastructure Program through training, outreach, and tailored permit requirements.



New Jersey Department of Environmental Protection Water Resource Management	
Description	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.
Point of Contact	Name/Title: Eugene Chebra, P.E., Asst. Dir. Address: DEP, 401 East State St., Trenton Email: Eugene.chebra@dep.state.nj.us Phone: (609) 292-8961 Website: http://www.nj.gov/dep/dwq/mface.htm
Effectiveness	Since the inception of the Financing Program, more than \$5.9 billion in state and federal funds have been awarded.
Contribution to Loss Reduction	Technical and Financial Assistance for projects that may include repair, replacement and mitigation.
Available Funding? Y/N (If Yes, please describe the types of funding available)	Yes. Low Interest Loans and a limited amount of loan forgiveness is made available each year. Approximately \$350 million is awarded annually.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes. Especially after Superstorm Sandy the Program's technical review promotes mitigation and resiliency measures in each project under review.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe)	Yes. The Department is also in the process of issuing further guidance on Flood proofing, Auxiliary Power and proper Asset Management Planning.
Mitigation Training/seminars/conferences?	Since Superstorm Sandy the Department has initiated several round table discussions with impacted facilities to gather information on lessons learned. This resulted in the Department issuing further mitigation guidance and several meetings and conferences to discuss the guidance.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes. Several coordination and partnership meetings and conversations have and continue to take place with NJOEM and FEMA.
Funding Offered? Y/N (If yes, please provide description)	Yes. Low Interest Loans and a limited amount of loan forgiveness. Approx. \$350 Million/year.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	The program is able to finance infrastructure repair, replacement and mitigation regardless of the cause.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Yes. The Program is in the process of establishing a disaster relief fund that will be able to provide short term or bridge loans to entities that are in need of an upfront cash flow. The term of the loan is limited to three years and is designed to be reimbursed after the receipt of alternate funding sources (FEMA, CDBG, etc...)



New Jersey Department of Law and Public Safety	
Description	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.
Point of Contact	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: R.J. Hughes Justice Complex 25 Market Street, Trenton, NJ 08625 Website: http://www.nj.gov/oag/
Effectiveness	A representative of the Department of Law and Public Safety, Office of the Attorney and a representative of the New Jersey Office of Emergency Management sit on the State Hazard Mitigation Team as well as its Steering Committee. The Office of the Attorney General provides legal counsel to the Office of Emergency Management. The Department of Law and Public Safety, Division of Law provides legal counsel to New Jersey executive branch agencies. See also the Capabilities Assessment of the Office of Emergency Management.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	Funding may be available through the New Jersey Office of Emergency Management which administers certain grant programs, including mitigation programs. The Office does apply for FEMA grants for mitigation projects. See the Capabilities Assessment of the Office of Emergency Management.
Provides Technical Assistance? Y/N (If yes, describe type)	See the Capabilities Assessment of the Office of Emergency Management.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	See the Capabilities Assessment of the Office of Emergency Management.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	See the Capabilities Assessment of the Office of Emergency Management.
Mitigation Training/seminars/conferences?	See the Capabilities Assessment of the Office of Emergency Management.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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.
Funding Offered? Y/N (If yes, please provide description)	See the Capabilities Assessment of the Office of Emergency Management.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	See the Capabilities Assessment Office of Emergency Management.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	See the Capabilities Assessment Office of Emergency Management.



New Jersey Department of Law & Public Safety – Office of Homeland Security and Preparedness – Emergency Operations Plan	
Description	Through the Emergency Support Function ESF 14, Long-term Recovery Planning, NJOEM will work with the Office of Homeland Security and Preparedness to have a plan for long term planning and recovery prior to a disaster or emergency. One of the areas of planning includes mitigation. This coordination will allow for another State wide plan to incorporate mitigation principles and planning.
Point of Contact	Name/Title: Bradford Mason, Assistant Deputy Director Email: Bradford.mason@ohsp.state.nj.us Phone: 609-584-4346 Address: NJ OHSP - 1200 Negron Drive, Hamilton, NJ 08625 Website: http://njhomelandsecurity.gov
Effectiveness	
Contribution to Loss Reduction	Assistance
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	Yes – guidance and support related to the National Disaster Recovery Framework (NDRF) and ongoing resiliency projects affecting the state’s critical infrastructure.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes - NDRF
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	No
Mitigation Training/seminars/conferences?	No
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes
Funding Offered? Y/N (If yes, please provide description)	No
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	All hazards approach with significant focus on critical infrastructure
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	No



New Jersey Department of Law & Public Safety – Office of Homeland Security and Preparedness – Emergency Operations Plan	
Description	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
Point of Contact	Name/Title: Steven Gutkin, Bureau Chief Email: steven.gutkin@ohsp.state.nj.us Phone: 973-645-5231 Address: PO Box 46023, Newark, NJ 07102 Website: http://njhomelandsecurity.gov
Effectiveness	The EOP provides for coordinated planning efforts for Local and State Emergency Management following prescribed emergency Support Functions. Mitigation is a section that is reviewed by each organization and once they begin the work, will draw attention to potential mitigation measures. This Office supports pre hazard and recovery mitigation.
Contribution to Loss Reduction	Assistance
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	Yes - Planning
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Yes – numerous response coordination and communication plans
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	No
Mitigation Training/seminars/conferences?	No
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes
Funding Offered? Y/N (If yes, please provide description)	No
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	All hazards approach with significant focus on critical infrastructure
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	No



New Jersey Department of the State - Office of Planning Advocacy – Business Action Center	
Description	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.
Point of Contact	Name/Title: Dan Kennedy, Deputy Director OPA, Karl Hartkopf, Director of Research and Tech Email: dan.kennedy@sos.state.nj.us ; karl.hartkopf@sos.state.nj.us Phone: 609-292-5263, 609-984-9797 Address: 225 W. State Street, PO Box 820, Trenton, NJ 08625 Website:
Effectiveness	The Office for Planning Advocacy houses some of the state’s long term planning expertise through its role in preparing the State Strategic Plan as well as in the experts housed in its division. Generally, division staff are generalists with specialties, performing tasks on an as needed basis.
Contribution to Loss Reduction (Assistance, Facilitation, etc.)	Research, facilitation, coordination, data location and distribution, statistical and geographic analysis, provision of insight
Available Funding? Y/N (If Yes, please describe the types of funding available)	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 ultimately improve hazard mitigation plans being produced.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	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 http://www.state.nj.us/state/planning/publications.html
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	The existing State Plan and upcoming State Strategic Plan encourages and provides guidance to municipalities, counties and regions in addressing hazard mitigation. In turn, many counties and municipalities have built hazard mitigation planning into their planning documents.
Mitigation Training/seminars/conferences?	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.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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 formal, would improve our ability to support the state in its work to make the state a safer place.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	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
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	While our general focus and capabilities remain the same as in the past, our new association with the Business Action Center has resulted in an increased emphasis on business losses associated with hazard events and protecting economic activity in New Jersey. In addition, given our reduced staffing levels and changing workforce, our capacity and areas of expertise have shifted.
Comments – Units, Departments, Organizations (Please include any additional entities that should be included in the update)	At some point, we do expect the Business Action Center’s Business Advocacy Unit to get its own section; however, at the moment we did not feel they were well enough developed IN HAZARD RESPONSE to call out separately. If you feel differently, we can create a new section for that unit, as well.



New Jersey Department of Transportation - 511 Traffic Monitoring	
Description	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.
Point of Contact	Name/Title: Jim Hadden, 511 and Special Projects Manager Email: James.Hadden@dot.state.nj.us Phone: 609.530.2938 Address: Website: http://511nj.org/
Effectiveness	511NJ relays information about conditions including accidents and construction to motorists. This allows the public easy access to information so that they can make informed decisions about their travel plans. As a result, congestion is reduced and motorists experience faster travel times. The system can also warn of a natural hazard such as flooding to limit any damage.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	N
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	N
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	N
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Not FEMA. The 511 system assists NJOEM in conveying messages. FHWA provides funding for 511NJ for data and web development.
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	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.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	The 511NJ system now includes a Personalized Traffic Alert Service. Motorists can subscribe to 'My 511NJ' and have the traffic conditions sent to their cell phone, PDA, or e-mail.



New Jersey Department of Transportation – Capital Program	
Description	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.
Point of Contact	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:
Effectiveness	The Capital Program provides legislative authority to obligate and expend funds on capital projects. Legislative authority carries over from year to year. The current Statewide Capital Investment Strategy covers FY 2013-2022. This document represents an asset management approach to addressing our transportation needs. By investing \$771 million annually in bridges, we aim to slow the growth of bridges that can be deemed structurally deficient. Local bridge investment targets are included under the Local System Support section. Our \$241 million investment in road assets seeks to improve pavement smoothness, preventative maintenance, and rehabilitation. NJ is ranked 48th State in the nation for “travel time to work”, which provides a significant disadvantage in attracting new businesses. We intend to reduce intersection crashes by 20 percent from a baseline of 76,000 crashes in 2008.
Contribution to Loss Reduction	Infrastructure preservation, mobility, and safety
Available Funding? Y/N (If Yes, please describe the types of funding available)	Y – Funding of the Program is typically federal through the Federal Highway Administration or State through the Transportation Trust Fund.
Provides Technical Assistance? Y/N (If yes, describe type)	N
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	N
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	N
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	N
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization(e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple hazards – flooding, storm surge, hazardous materials, road closures, power outages, hurricanes, etc.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	N



New Jersey Department of Transportation – County Diversionary Route Plans	
Description	
Point of Contact	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: http://www.state.nj.us/transportation/ or http://www.dvrpc.org/Operations/IDrum.htm
Effectiveness	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.
Contribution to Loss Reduction	Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	Diversion plan scope/funding is part of NJDOT's Incident Management with federal authorization.
Provides Technical Assistance? Y/N (If yes, describe type)	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).
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	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.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Yes - Diversion plans used for major incidents, planned events.
Mitigation Training/seminars/conferences?	Regular discussions and updates to work through the county police authorities.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Not FEMA. See above for NJDOT's IM partnership with the NJ State Police.
Funding Offered? Y/N (If yes, please provide description)	It's listed in the STIP, page 75 on the link below. http://www.state.nj.us/transportation/capital/tcp13/sec3/pli.pdf
Hazards addressed by your organization(e.g. Multiple hazards, natural hazards, flooding, etc.)	NJDOT Diversion Plans can be used for any hazard that is a full road closure of a state-controlled/operated roadway.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Y- Ongoing deployment of IDRuM (Interactive Detour Route Mapping) application that takes the diversion routes and incorporates them into a web-based "point-and-click" application.



New Jersey Department of Transportation – Dredged Material Management	
Description	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.
Point of Contact	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
Effectiveness	The more contaminated the sediment, the more limited the options for dredged material management become, and the more costly it becomes. During the dredged material management crisis of 1993, NJDOT became involved in dredging state navigation channels for the first time. This is a program of great importance to New Jersey’s recreational boating and marine trade community. NJDOT continues to remain in the forefront of innovative dredged material management planning and technology, ensuring that dredging projects can proceed in the most cost effective, environmentally protective way possible.
Contribution to Loss Reduction	Through this Dredged Material Resource Management Program, NJDOT/OMR contributes to safe and resilient navigation (recreational and commercial boating) and beach replenishment. Infrastructure preservation, mobility, and safety; Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	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.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	None at this time.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	NJDOT/OMR will integrate hazard mitigation planning into existing plans, policies, and documents, post Super-storm Sandy.
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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.
Funding Offered? Y/N (If yes, please provide description)	OMR manages the National Boating Infrastructure Grant Program, the Ferry Boat Discretionary fund and the IBOAT NJ Program (currently suspended). While these programs do not provide funding for dredging, they do provide assistance for maritime infrastructure for commuter ferries and marinas, as well as educational and recreational programs.
Hazards addressed by your organization(e.g. Multiple hazards, natural hazards, flooding, etc.)	NJDOT/OMR works with agency partners and stakeholders to reduce the navigation hazards associated with sedimentation and debris in state channels.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	With information/data collected following Superstorm Sandy, NJDOT expects to be better prepared in the event of the next hurricane season. We will incorporate the data into our Waterway Linear Segmentation System, which is being developed.



New Jersey Department of Transportation - Geographic Information System (GIS)	
Description	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.
Point of Contact	Name/Title: Cindy Dey Email: Cynthia.Dey@dot.state.nj.us Phone: 609-530-2844 Address: 1035 Parkway Avenue, PO Box 600, Trenton, NJ 08625-0600 Website: http://www.state.nj.us/transportation/gis/
Effectiveness	GIS can be used to identify the patterns of where accidents and traffic congestion have been occurring. The maps that are created using this information aid other agencies, including law enforcement, in finding solutions to reduce traffic incidents. The GIS data can also be used to identify geographical changes after a natural disaster, so any anomalies or problems can be addressed.
Contribution to Loss Reduction	GIS provides a critical capability with data and resources, which can be used to address our preparedness for all hazards.
Available Funding? Y/N (If Yes, please describe the types of funding available)	N
Provides Technical Assistance? Y/N (If yes, describe type)	GIS collects geographical data about construction, road inventory, accidents, demographics, and open space. The data is stored and used to generate municipal, county, state, and specialized maps. State and county maps are available online for the public.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	N
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	GIS has not integrated hazard mitigation into existing plans.
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Y - We routinely work with NJOEM, as well as other agencies, especially during an event.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	GIS data can be used to address traffic accidents or congestion in addition to any geographical changes due to natural disasters.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Currently, GIS is being expanded to include ramps and more local roads.



New Jersey Department of Transportation – Local Aid and Economic Development	
Description	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.
Point of Contact	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: http://www.state.nj.us/transportation/business/localaid/
Effectiveness	These programs have been very effective in providing additional transportation support.
Contribution to Loss Reduction	Infrastructure preservation, mobility, and safety
Available Funding? Y/N (If Yes, please describe the types of funding available)	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.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Examples of Local Aid Program documents - State Aid Handbook, Federal Aid Handbook, Centers of Place Handbook, Transportation Enhancements Handbook.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	N
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Y – Close coordination is required to ensure that damage is properly assessed and also to determine what is eligible under FEMA or FHWA regulations.
Funding Offered? Y/N (If yes, please provide description)	Y – FHWA Emergency Relief Program funds are available for damage to federal aid system facilities in a qualifying storm.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	N



New Jersey Department of Transportation – Multi-modal Grants and Programs	
Description	<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.</p> <p><u>The Bureau of Multimodal Grants and Programs (MGaP):</u></p> <p>Administers grants to:</p> <ul style="list-style-type: none"> • General Aviation Public Use Airports via the Airport Improvement Program; • Freight Railroads (via the Rail Freight Assistance Program), and • Maritime Facilities via I-Boast NJ Program (currently inactive). <p>All new Grants under the Airport Improvement Program and the Rail Freight Assistance Program are being administered through an online resource called SAGE (<u>S</u>ystem for <u>A</u>dministering <u>G</u>rants <u>E</u>lectronically.)</p> <p>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.</p> <p>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.</p> <p>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).</p> <p><u>The Office of Fixed Guideway Safety and Security</u>, under a federally-mandated program, proactively coordinates safety and security programs for the light rail systems in the State.</p>
Point of Contact	<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 Website:</p> <p>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 Website:</p>
Effectiveness	<p>MGaP’s HAZMAT Inspection Program affords our inspector the opportunity to serve as a Subject Matter Expert on HAZMAT transported by rail and the applicable Federal Regulations relating both to the HAZMAT and the rail transport, for First Responders, as well as for Federal, State, and Local Agency Partners at the incident command centers, exercises, and in planning activities.</p> <p>OFGSSO oversees all safety and security related matters as it relates to Rail Transit in the State of New Jersey; OFGSSO serves as Subject Matter Experts on the safety and security of passenger rail transportation (not subject to regulation by the Federal Railroad Administration).</p> <p>Dominick Critelli, Acting Manager of NJDOT MGA, serves as the State Program Manager for the Freight Rail HAZMAT Inspection Program.</p> <p>Joseph Bowen, Environmental Compliance Inspector I of NJDOT MGA, serves as NJDOT’s Freight Rail HAZMAT Inspector.</p> <p>David Morgan, Manager of NJDOT Office of Fixed Guideway Safety and Security Oversight.</p> <p>Todd Kropilak, Principal Engineer.</p>
Contribution to Loss Reduction	<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> <p>OFGSSP staff are continually inspecting rail transit systems and meeting/discussing on-going safety and security issues as they relate to individual rail transit systems as well as how some issues (both national and local) effect the rail transit systems in the State of New Jersey.</p>



New Jersey Department of Transportation – Multi-modal Grants and Programs	
Available Funding? Y/N (If Yes, please describe the types of funding available)	No, no funding is offered. No, no FEMA funding applications are submitted.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	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.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	MGaP - No. OFGSSO – see above
Mitigation Training/seminars/conferences?	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.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	NJDOT’s participated in the HAZMAT Inspection Program in partnership with the New Jersey State Police. We also coordinate with the Pipeline Hazard Material Safety Administration (PHMSA) and NJDEP, as necessary. OFGSSO – NJDOT OFGSSO works in association with the Federal Transit Administration and DHS/TSA.
Funding Offered? Y/N (If yes, please provide description)	MGaP - No. OFGSSO – No.
Hazards addressed by your organization(e.g. Multiple hazards, natural hazards, flooding, etc.)	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.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	MGaP - No. OFGSSO – No.



New Jersey Department of Transportation – Planning and MPOs	
Description	NJDOT is managing a transportation system which is experiencing a tremendous increase 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 oversee billions of dollars in transportation improvement projects 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.
Point of Contact	Name/Title: Andrew Swords, NJDOT – Director of Statewide Planning Email: Andrew.Swords@dot.state.nj.us Phone: 609-530-2856 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website: www.nj.gov/transportation/works/njchoices/
Effectiveness	Federal and state laws require NJDOT and NJ TRANSIT to develop a Long Range Transportation Plan (LRP). Its effectiveness is measured by how well we reduce injuries and fatalities, eliminate bottlenecks, expand system capacity, make fares more competitive, improve transit speed and reliability, improve airport safety, expand ITS, reduce the duration of incidents, lower fuel emissions, increase freight capacity, and improve customer satisfaction. Key principles of coastal hazard mitigation planning is steering development away from hazard prone areas, ensuring structures are built to withstand storm surge and wind, and encouraging land conservation regulations, open space set-aside, and encouraging smart redevelopment.
Contribution to Loss Reduction	Infrastructure preservation, enhance mobility, adopt smart growth policies, optimize freight distribution, and improve safety; Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	Y – Federal and state funding
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	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.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Y – APA Policy Guide on Planning and Climate Change
Mitigation Training/seminars/conferences?	Hurricane Preparedness and Climate Change Seminars
NJOEM/FEMA Mitigation partnership/coordination? Y/N	N
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	N



New Jersey Department of Transportation –Reverse Lane Strategies (or contraflow operations)	
Description	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.
Point of Contact	Name/Title: Robert Burd, Manager, NJDOT Office of Emergency Management Email: Robert.Burd@dot.state.nj.us Phone: 609-530-2717 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website:
Effectiveness	These reverse lane strategies are intended to assist in reducing evacuation time prior to the commencement of emergency conditions, such as hurricane force winds and rain, posing a threat to the health and safety of visitors and residents, primarily along the coastline. The goal is to complete the coastal evacuation before the onset of tropical storm winds of 39 mph. Reverse Lane Strategies are a compilation of predetermined routes developed to improve the capacity of those travel lanes heading away from danger, while maintaining minimal travel lanes for emergency response. They are developed as a measure of last resort for those evacuation populations in harm’s way in the coastal region. These lanes require significant advanced planning and coordination between State and regional transportation and emergency management agencies. These plans offer the NJ Office of Emergency Management viable clearance time during an evacuation. Clearance time is defined as the time needed for clearing all non-emergency vehicles from the road network. It starts with the first evacuating vehicle and it ends when the last vehicle reaches an assumed point of safety. Clearance time includes time required by evacuees to secure their home and prepare to leave as well as time lost to traffic congestion/delays, if any, along the contraflow route.
Contribution to Loss Reduction	Evacuation to preserve life and possessions; Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	The decision to implement the Reverse Lane Operation is normally made by the Governor, in consultation with the State Director of Emergency Management, and after consultation with the affected transportation agencies. When a Presidential Disaster declaration is made, there is an opportunity for FEMA and USDOT reimbursement for eligible costs among eligible public agencies. However, NJDOT does not act as a pass-through agency for these funds. Towing services should be available along the route, so to expedite the removal of stalled or disabled vehicles. NJDOT can provide its cost-free Safety Patrol assistance during the evacuation to keep the lanes of traffic moving.
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Trans-Hudson Emergency Transportation and Evacuation Plan (draft); NJ-Philadelphia Cross Border Evacuation Plan (draft); 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.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Yes – The Reverse Lane Strategies are integrated into the Hurricane Annex to the State Emergency Operations Plan and the draft State Supported Shelter Initiative (SSSI) ESF1 Bus Mobilization Plan (v6-1-12).
Mitigation Training/seminars/conferences?	Regular discussions and updates to work through the county’s first responders and emergency management personnel.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Not FEMA. See above for NJDOT’s partnership with the NJ State Police, NJ Turnpike Authority, and South Jersey Transportation Authority.
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple hazards – flooding, storm surge, road closures, power outages, hurricanes, etc.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Y- Developing a North Barrier Island Coastal Evacuation Plan and CONOPs/Operations Plan for the Shore Region for the 2013 Hurricane Season.



New Jersey Department of Transportation – ROW and Property Acquisitions	
Description	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.
Point of Contact	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 Website:
Effectiveness	The effectiveness of the unit is measured in terms of the percentage of right of way projects that are delivered on time. The entire process involves various steps: property acquisition, appraisals of real estate, conducting bono fide negotiation agreement with owners, and assistance for relocation of former property owners. Before a project goes to acquisition, it must first be reviewed for compliance with the State Highway access process. Once the project has undergone the access process, then the project is transmitted for right of way acquisitions. NJDOT provides relocation assistance to occupants of residential and business properties who must move. In instances where NJDOT has owned the surplus/excess land requested for less than 10 years, the previous owner must be contacted and provided the opportunity to repurchase the property at its current fair market value. An auction takes place when there is more than one adjoining property owner interested or when surplus property/land is a stand-alone buildable lot. The minimum bid at a public auction is based on NJDOT's estimated value of the property. The State House Commission must approve all sales or leases of state-owned property before a sale is final.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	N
Provides Technical Assistance? Y/N (If yes, describe type)	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.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	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.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	No. However, if a property is to be acquired as part of a highway improvement project, there might be an exception made for integration with community redevelopment planning .
Mitigation Training/seminars/conferences?	N
NJOEM/FEMA Mitigation partnership/coordination? Y/N	No. The Division coordinates with DOT's environmental unit when seeking to remediate hazardous materials in its property acquisition process.
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	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.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	None. Not particularly applicable to Right of Way and Access Management.



New Jersey Department of Transportation – Winter Readiness	
Description	NJDOT works to make winter travel as safe as possible. NJDOT has 13,295 lane miles of interstate, US and state routes under its jurisdiction that it strives to keep 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.
Point of Contact	Name/Title: David Bowlby Email: David.Bowlby@dot.state.nj.us Phone: 609-530-2815; 609-352-8943 Address: 1035 Parkway Avenue. PO Box 600. Trenton, NJ 08625-0600 Website:
Effectiveness	NJDOT utilizes a wide array of resources to provide the best possible road conditions during each winter storm. The intensity, duration, and temperature of each storm determines how quickly NJDOT is able to improve conditions and get back to bare pavement after the storm. Travelers should always use caution and drive according to the road and weather conditions.
Contribution to Loss Reduction	Infrastructure preservation, mobility, and safety; Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	N – no funding is offered
Provides Technical Assistance? Y/N (If yes, describe type)	N
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Winter Maintenance Training Manual and Guide for internal use
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	N
Mitigation Training/seminars/conferences?	Y – internally with field staff
NJOEM/FEMA Mitigation partnership/coordination? Y/N	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.
Funding Offered? Y/N (If yes, please provide description)	N
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple hazards – snow and ice road closures, flooding, storm surge, tree and debris removal, power outages, etc.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Y- NJDOT has increased its salt-brine making capabilities



New Jersey Department of Treasury - Coordination with the NJ Board of Public Utilities	
Description	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.
Point of Contact	Name/Title: James P. Giuliano / Director, Emergency Management Email: james.giuliano@bpu.state.nj.us Phone: 609-633-7733 Address: Website:
Effectiveness	Supports pre and post hazard mitigation.
Contribution to Loss Reduction	Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	
Mitigation Training/seminars/conferences?	
NJOEM/FEMA Mitigation partnership/coordination? Y/N	
Funding Offered? Y/N (If yes, please provide description)	
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	



New Jersey Department of the Treasury, Division of Administration - Emergency Response Unit	
Description	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.
Point of Contact	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:
Effectiveness	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.
Contribution to Loss Reduction	Management and facilitation of funding applications and project management
Available Funding? Y/N (If Yes, please describe the types of funding available)	Yes, grant application coordination.
Provides Technical Assistance? Y/N (If yes, describe type)	Yes through State professional staff and contract engineering services
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	
Mitigation Training/seminars/conferences?	Yes, through State Insurance Carrier.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes.
Funding Offered? Y/N (If yes, please provide description)	
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	



New Jersey Department of Treasury - Division of Risk Management

Description	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. 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.
Point of Contact	Name/Title: William Mayo / Acting Director Email: William.Mayo@treas.state.nj.us Phone: (609) 292-1850 Address: 20 W. State St, PO Box 620, Trenton, NJ 08625-0620 Website: Website:
Effectiveness	This Division supports pre and post hazard mitigation.
Contribution to Loss Reduction	Facilitation
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	Yes through State Insurance Carrier, FM Global.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	
Mitigation Training/seminars/conferences?	Yes, through State Insurance Carrier.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	No, Treasury ERU is the representative for the Department.
Funding Offered? Y/N (If yes, please provide description)	
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	



New Jersey Geological and Water Survey	
Description	Evaluates geologic, hydrogeologic and water quality data to manage and protect water resources, to identify natural hazards and contaminants, and to provide mineral resources including offshore sands for beach nourishment. Information provided by the survey includes GIS data and maps of geology, topography, groundwater and aquifer recharge. In addition the data tracks wellhead protection areas, aquifer thicknesses, properties and depths, groundwater quality, drought, geologic resources, and hazards such as earthquakes, abandoned mines, karst-influenced sinkholes and landslides.
Point of Contact	Name/Title: Karl W. Muessig Email: Karl.muessig@dep.state.nj.us Phone: 609-292-1185 Address: PO Box 420, Mail Code 29-01, Trenton, NJ 08625 Website: njgeology.org
Effectiveness	Geologic and water resources data are critical to the State Hazard Mitigation Plan. The earthquakes module for HAZUS has been updated for seven counties under grants from NJOEM. A FEMA Pre-Disaster Mitigation Planning grant is nearly completed to prioritize abandoned mine hazards. Annual offshore investigations identify sand and gravel resources for beach and dune replenishment to protect the coastlines during storms. The New Jersey Geological and Water Survey website receives over 250,000 hits per month for this information
Contribution to Loss Reduction	Technical Assistance
Available Funding? Y/N (If Yes, please describe the types of funding available)	No direct monetary assistance is provided.
Provides Technical Assistance? Y/N (If yes, describe type)	Yes – Equivalent of three work days is available to counties and/or municipalities upon written or electronic request to the State Geologist.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	No
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	No
Mitigation Training/seminars/conferences?	No
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Yes. Core Team member, SHMT member, and subject matter expert.
Funding Offered? Y/N (If yes, please provide description)	No
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Earthquakes, Landslides, Sinkholes, Abandoned Mines, Drought Analysis
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Yes. Results of Pre-Disaster Mitigation Planning grant will provide prioritize abandoned mine hazards to counties for inclusion in their mitigation plans. Completion of offshore investigations for sand and gravel will assist beach and dune replenishment to protect the coastlines during storms.



New Jersey Highlands Council - Planning and Science	
Description	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.
Point of Contact	Name/Title: Christine Danis, Director of Planning and Science Email: highlands@highlands.state.nj.us Phone: (908) 879-6737 Address: 100 North Road, Rt 513, Chester, New Jersey 07930 Website: www.highlands.state.nj.us
Effectiveness	
Contribution to Loss Reduction	Highlands Council RMP programs support hazard mitigation as related to stream mitigation to avoid flood hazards and forest health hazards.
Available Funding? Y/N (If Yes, please describe the types of funding available)	Y, 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.
Provides Technical Assistance? Y/N (If yes, describe type)	Y, Review and recommendations for forest resource management plans, stream corridor protection plans, as well as GIS capabilities.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Y, Stream corridor protection, critical habitat management and forest management plans address mitigation in response to impacts.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Y, Critical habitat mitigation ratio determination policy in place for establishing the Highlands resource mitigation ratio that may be required.
Mitigation Training/seminars/conferences?	
NJOEM/FEMA Mitigation partnership/coordination? Y/N	
Funding Offered? Y/N (If yes, please provide description)	
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	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.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Y, Highlands Council specific guidance related to Forest Resource Management Plans and Stream Corridor Protection, Mitigation and Restoration Plans is in final development and will be released to the public in the near future.



Port Authority of New York & New Jersey

Description	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.
Point of Contact	Name/Title: Gerard McCarty, Director, Office of Emergency Management Email: GMcCarty@panynj.gov Phone: 201-595-4673 Address: 241 Erie Street, Jersey City, NJ 07301 Website:
Effectiveness	The Port Authority supports hazard mitigation in New Jersey primarily by designing and implementing its own hazard mitigation projects and programs for its facilities. The Port Authority participates in the FEMA 406 Mitigation program during presidentially declared disasters, and participates in the FEMA 404 HMG Program. Mitigation activities at the Port Authority are managed under the auspices of 2 offices. The Office of Emergency Management works with FEMA and state agencies to develop 406 project grants after disaster declarations. A new Office of Storm Mitigation and Resilience was formed to perform the necessary program management to design and construct mitigation measures funded under federal grants or through capital plan expenditures.
Contribution to Loss Reduction	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.
Available Funding? Y/N (If Yes, please describe the types of funding available)	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.
Provides Technical Assistance? Y/N (If yes, describe type)	The Port Authority generates risk and vulnerability data for its own facilities. It does not actively participate in any broader training or public education or information programs.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	No.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	The Port Authority is in the process of a comprehensive risk assessment and vulnerability study for its facilities. This will be incorporated into future capital planning when completed.
Mitigation Training/seminars/conferences?	Not at the present.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Not at the present. As part of on-going Sandy recovery efforts the Port Authority is forming an Office of Storm Mitigation and Resilience which could serve as a partner with other organizations in mitigation.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Flooding, Earthquake, power failure, Terrorism, other man-made hazards.
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Office of Storm Mitigation and Resilience.



Jacques Cousteau National Estuarine Research Reserve's Coastal Training Program

Description	The Coastal Training Program provides up-to-date scientific information, access to technologies and skill-building opportunities to professionals responsible for making decisions about coastal resources.
Point of Contact	Name/Title: Lisa Auermuller/Watershed Coordinator Email: auermull@marine.rutgers.edu Phone: 609-812-0649 x204 Address: 130 Great Bay Blvd. Tuckerton, NJ 08087 Website: http://www.jcnerr.org/education/coastaltraining/index.html
Effectiveness	We regularly measure effectiveness through post-training evaluations and ongoing program and tool/technical assistance evaluations.
Contribution to Loss Reduction	Science-based information to help reduce risk now and into the future.
Available Funding? Y/N (If Yes, please describe the types of funding available)	None
Provides Technical Assistance? Y/N (If yes, describe type)	Yes – works with local communities and counties to understand coastal processes/environmental issues and provides science-based information to aid in the decision making process.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	<p>“Getting to Resilience” (www.prepareyourcommunitynj.org) is an online self-assessment developed to assist communities in reducing vulnerability and increase preparedness by linking planning, mitigation, and adaptation. Through this interactive process communities will learn how their preparedness can yield valuable points through voluntary programs like FEMA’s Community Rating System and Sustainable Jersey. The assessment process will also increase the community’s understanding of where future vulnerabilities should be addressed through hazard mitigation planning.</p> <p>Developed to be used in association with NJFloodMapper.org , Getting to Resilience is the next step in communities planning for the risks associated with climate change and sea level rise. Together, these websites will help communities visualize their future risk and plan for that risk using their existing municipal planning tools.</p> <p>The Getting to Resilience questionnaire will not be completed in one day or by one person. It was developed to be completed by a set of individuals from a community and to be completed over a period of time. Creating an account will allow your community to create one set of answers and to work together collectively. Key municipal officials and staff should include Land Use Planners, Hazard Mitigation Planners, Floodplain Managers, Emergency Managers, Stormwater Managers, Natural Resource Planners, Municipal Engineers, Municipal Leaders, Zoning and Permitting Officials, and Public Works Officials.</p>
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	
Mitigation Training/seminars/conferences?	On occasion – yes. These are usually scheduled with NJAFM and/or NJ DEP Bureau of Floodplain and/or NJ State OEM
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Working as an academic partner to FEMA/ NJDEP Bureau of Flood on the Region 2 remapping project and RISK MAP project.
Funding Offered? Y/N (If yes, please provide description)	No
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Multiple natural hazards with a focus on flooding (storm surge and inundation) and sea level rise information.



Jacques Cousteau National Estuarine Research Reserve's Coastal Training Program

<p>New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).</p>	<p>NJFloodmapper.org</p> <p>While sea level rise is a global phenomenon, adapting to its impacts is a local challenge that requires site-specific remedies. As recent storm events have demonstrated, local planners and managers need access to detailed, place-based information on critical human and environmental infrastructure that is potentially at risk to sea level rise and flooding. To address these needs, an interactive mapping tool was developed to provide ready access to sea level rise simulations and FEMA flood/storm surge maps along with location of key institutional facilities, coastal evacuation routes, and social and environmental vulnerability, the NJFloodMapper (www.NJFloodMapper.org).</p> <p>The project was a collaboration between the Rutgers University Center for Remote Sensing & Spatial Analysis (CRSSA), the Jacques Cousteau National Estuarine Research Reserve (JC NERR) and the NOAA Coastal Services Center. CRSSA was responsible for the technical aspects, while JC NERR was responsible for the collaborative, evaluation/assessment and knowledge dissemination portions of the project. A stakeholder-based approach was used to ensure collaboration among investigators, intended users, and relevant stakeholders throughout development of the tool. NOAA CSC provided the software template that CRSSA customized to meet the user needs in New Jersey.</p> <p>Although the project was initiated well prior to Hurricane Sandy, the NJFloodMapper will be useful for response and rebuilding efforts pursued by state agencies, municipal governments and individual landowners. Mike De Luca, Manager of the Jacques Cousteau National Estuarine Research Reserve, states the NJFloodMapper tool will help communities reduce their vulnerability to sea level rise and flood events, and help to identify open space areas to preserve as a buffer from damaging storm waters.</p>
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Rutgers University – The Office of the New Jersey’s State Climatologist	
Description	The Office of the New Jersey State Climatologist (ONJSC) is situated within the New Jersey Agricultural Experiment Station at Rutgers, The State University of New Jersey. The ONJSC mission is three fold: 1) gather and archive NJ weather and climate observations, 2) conduct and foster research associated with NJ’s weather and climate, and 3) provide critical climate services to all seeking assistance.
Point of Contact	Name/Title: Dr. David A. Robinson Email: david.robinson@rutgers.edu Phone: 848-445-4741 Address: Office of the NJ State Climatologist, Department of Geography, Rutgers University, 54 Joyce Kilmer Ave., Piscataway, NJ 08854 Website: http://njclimate.org
Effectiveness	The ONJSC collaborates with public and private entities involved with NJ hazard mitigation assessment and planning. This involves the generation and expert evaluation of historic weather and climate data and value-added products to assist in mitigation efforts. The ONJSC is led by Dr. David A. Robinson, a professor of geography at Rutgers and for the past 22 years, the New Jersey State Climatologist. Assistant State Climatologist, Mathieu R. Gerbush, assists Dr. Robinson along with others on a small staff that includes a meteorologist, IT specialists, field technicians, and students.
Contribution to Loss Reduction	Knowledge of historic, ongoing and potential future weather and climate episodes can reduce losses to natural or human-caused hazards. The ONJSC is the “go to” source for data, information and expertise for virtually any effort that aims to reduce losses.
Available Funding? Y/N (If Yes, please describe the types of funding available)	No
Provides Technical Assistance? Y/N (If yes, describe type)	The ONJSC generates and archives data. Generated data are from the NJ Weather and Climate Network (NJWxNet), an assemblage of 55 automated weather stations situated throughout NJ. A decade or more of hourly observations are available from some of the stations, while others have shorter records. Since fall 2012 observations are available on a five-minute basis. Along with these records, ONJSC archives or has ready access to National Weather Service (NWS) Cooperative Weather Station data. These are daily observations from several dozen stations at any given time over the past century plus. Individual stations have as many as 120 years of data; others have come and gone since the late 19th century. Another source of generated data is the Community Collaborative Rain, Hail and Snow Network (CoCoRaHS), which includes daily observations of rain and snow from as many as several hundred volunteers throughout NJ. This network began in 2008 and is coordinated by the ONJSC. The ONJSC provides NJWxNet training to the NWS, the NJOEM, the NJDEP and others. Training is also provided to CoCoRaHS observers. The ONJSC provides frequent educational presentations to schools, community organizations and other groups. Topics fall under the general rubric of environmental education.
Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	The ONJSC has generated multiple weather and climate products that are used by municipal, county and state officials, with the potential of creating others in cooperation with these individuals.
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	No. This is not within the purview of the ONJSC.
Mitigation Training/seminars/conferences?	No. This is not within the purview of the ONJSC.
NJOEM/FEMA Mitigation partnership/coordination? Y/N	The ONJSC partners with the NJOEM and other agencies regarding hazard mitigation, making every effort to provide these groups with any and all weather/climate related information necessary for successful planning.
Funding Offered? Y/N (If yes, please provide description)	No, the ONJSC does not offer funding. The ONJSC receives modest operational funds from Rutgers. To a large extent the office relies on grants from state and federal agencies that support staff salaries and NJWxNet operations.



Rutgers University – The Office of the New Jersey’s State Climatologist

<p>Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)</p>	<p>The ONJSC plays multiple roles with regard to weather and climate hazards impacting New Jersey on local to statewide scales. Hazards range in time from flash flood-inducing heavy rains to long-term precipitation deficits that lead to drought. Other examples include extreme heat, snowstorms, ice storms, severe thunderstorms, and damaging winds (tornadoes, downbursts, straight line). Hazards without a natural cause often require timely, local information, such as chemical spills and potential terrorist activities. The ONJSC staff is involved with the monitoring of any hazardous event, with maintaining a library of data and other materials associated with hazards, and with providing expert advice to decision makers and stakeholders.</p>
<p>New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).</p>	<p>The NJWxNet has added approximately 20 stations and begun observing every five minutes since the last update. The NJ CoCoRaHS network has expanded from approximately 100 active observers since the update to over 250 in 2013.</p>



Stevens Institute of Technology

Description	Stevens Institute of Technology - Coastal Engineering Research Laboratory conducts applied coastal research, engineering and modeling.
Point of Contact	Name/Title: Dr. Thomas O. Herrington Email: Thomas.Herrington@stevens.edu Phone: (201) 216-5320 Address: Stevens Institute of Technology, Castle Point on Hudson, Hoboken, NJ 07030 Website: http://archive.stevens.edu/ses/cms/CERL.html
Effectiveness	<p>What is your agency's role in hazard mitigation in NJ?</p> <p>Conducts fundamental and applied research on the design, implementation and monitoring of shore protection structures, systems and beach fill projects. Stevens research staff are funded through the NJ State Shore Protection Fund to work with NJDEP and NJ coastal municipalities to develop sustainable and resilient coastal protection strategies that enhance the natural environment while providing required protection from coastal storm events.</p> <p>What staff at your agency handles mitigation activities and what are their roles?</p> <p>Dr. Thomas Herrington, Director of the NJ Coastal Protection Technical Assistant Service. Dr. Herrington works with NJDEP, NJOEM, FEMA, USACE and local officials to develop coastal hazard mitigation plans and projects.</p> <p>Dr. Jon Miller, NJ Sea Grant Coastal Process Specialist. Dr. Miller provides research-based coastal protection and sustainability outreach to coastal communities and local officials to enhance and implement best practices in coastal hazard mitigation and resiliency. Dr. Miller also leads a research team in the design and application of living shorelines for coastal sustainability and storm surge reduction.</p> <p>Dr. Alan Blumberg, Director of the Center for Maritime Systems, Stevens Institute of Technology. Dr. Blumberg has develop an operational coastal ocean forecast model that provides 3D forecasts of ocean currents temperature, and salinity, and water levels including storm surge that runs 4 times per day and provides 72 hour forecasts of each predicted variable (see: http://hudson.dl.stevens-tech.edu/maritimeforecast/). The model is presently being used to investigate storm surge reduction strategies for communities in Hudson County and along the Barnegat Bay through funding from the NJDEP</p>
Contribution to Loss Reduction	<p>How does your agency reduce losses to natural or human-caused hazards?</p> <p>Through the research, design and monitoring of coastal protection systems, Stevens researchers provide the state of NJ and its municipalities with science based best practices in coastal sustainability and storm damage reduction methods. Research staff work closely with NJDEP and local municipalities to implement and monitor the effectiveness of these strategies over time.</p>
Available Funding? Y/N (If Yes, please describe the types of funding available)	<p>Do you offer funding for mitigation projects? NO</p> <p>Do you apply for FEMA grants for mitigation projects/activities? YES - as partners with other state agencies, universities and local governments (e.g., Shrewsbury River Flood Warning System: http://www.visitmonmouth.com/PressDetail.aspx?ID=529)</p>
Provides Technical Assistance? Y/N (If yes, describe type)	<p>Do you generate data? YES – Lab reports on coastal structure design, high-resolution coastal survey data, in-situ monitoring of coastal protection systems, wave and current measurements, water level measurements.</p> <p>Do you provide training? YES – Stevens offers a 30 credit Masters Degree in Ocean Engineering. Courses include; Coastal Engineering, Coastal Sediment Transport, Port and Harbor Structure Design, Floodplain Engineering and Multi-Hazard Engineering, among other courses. Through the NJ funded Coastal Protection Technical Assistance Service, Stevens researchers provide focused training to state agency personnel, and local officials on coastal processes, coastal hazard mitigation techniques, storm surge risk assessment, and living shoreline implementation/restoration.</p> <p>Does your agency participate in any public education or information program (e.g., household preparedness, fire safety, environmental education)? YES – Through our partnership with the NJ Sea Grant Consortium, Dr. Jon Miller provides public outreach and education to the state's coastal municipalities and citizens on coastal sustainability and protection techniques (i.e., dune building and plantings, Bay shoreline stabilization, beach and dune maintenance).</p>



Stevens Institute of Technology

Plans/documents that address or promote mitigation? Y/N (If yes, describe type)	Do you have any plans/documents/guidance that address or promote hazard mitigation? YES – NJ Sea Grant Manual for Coastal Hazard Mitigation (Herrington, 2003) Coastal Dune Evolution and Management (Herrington and Miller, 2007) Various technical reports submitted to NJDEP on coastal protection techniques
Mitigation Integration in existing Plans/Policies/ Documents? (If yes, describe type)	Has your agency integrated hazard mitigation into existing plans, policies, documents? YES – Stevens researchers have worked closely with NJDEP staff on revisions to the Coastal Zone Management rules to permit the use of science-based coastal management and protection techniques that were previously prohibited. Such rule changes include the use of seasonal dune fencing to collect blowing sand for use as beach nourishment, design changes to wave/wake screens for improved wave attenuation, the use of natural (oyster shell, eel grass, rock, sediment) elements for the stabilization and restoration of natural bay shorelines).
Mitigation Training/seminars/conferences?	Do you host or offer mitigation-related training/conferences/seminars? Encourage employees to attend training? YES
NJOEM/FEMA Mitigation partnership/coordination? Y/N	Do you partner or coordinate with NJOEM? Would partnerships with other agencies assist your agency with hazard mitigation? YES. Stevens researchers have partnered directly and indirectly with NJOEM and NJOHSP on mitigation projects/activities.
Hazards addressed by your organization (e.g. Multiple hazards, natural hazards, flooding, etc.)	Please describe the hazards addressed by you agency Natural Hazards: Storm Surge, Flooding, Shoreline Erosion, Barrier Island Breaching
New capabilities? (e.g. responsibilities, programs, initiatives) Y/N (If yes, please describe).	Many changes have taken place since the last State Plan update. Has your agency changed? Given new responsibilities related to mitigation? NO