



Section 3: Planning Process

What's new (summary of updated information) ...

- Where available tables, maps and figures have been identified with source information.
- 2000 Census information was used in the 2011.

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3.1: Interim Final Rule for the Planning Process

"An effective planning process is essential to developing and maintaining a good plan. The mitigation planning process should include coordination with other State agencies, appropriate Federal agencies, interested groups, and be integrated to the extent possible with other ongoing State planning efforts as well as other FEMA mitigation programs and initiatives."

The IFR Subsection 201.4 (c) (1) requires that the plan include: "Description of the planning process used to develop the plan, including:

- How it was prepared,
- Who was involved in the planning process, and
- How other agencies participated."

3.2: Description of the Planning Process

For the 2008 Plan update, NJOEM secured the services of planning consultants Jeffrey S. Ward and Associates, Inc., and Vissering Pardue and Associates, Inc. These firms facilitated the process and performed the technical work related to hazard identification, vulnerability determinations and risk assessment that forms the basis of the 2011 Plan.

For the 2011 New Jersey Hazard Mitigation Plan (HMP) subject matter experts were solicited from within state government for specific information regarding hazards, risks, capabilities and strategies. The mitigation Core Team (MCT) and The State Hazard Mitigation Team (SHMT) members reviewed the mitigation strategies identified in the 2008 Plan, and provided feedback on progress towards achieving the goals and completing the actions. SHMT members provided interim reviews of draft sections appropriate throughout the update process.

The 2011 plan was completed and commented, as outlined below.

1. Comprehensive review of all plan sections, and a written gap analysis to compare the 2005 version of the plan to IFR and "Blue Book" requirements.
2. Consultation with FEMA Region II to discuss the 2008 version of the HMP, especially areas where FEMA believes that there is opportunity for improvement.
3. Comprehensive update to the Hazard Identification and Profiling, and Vulnerability Assessment and Loss Estimation sections of the plan, as the basis of other planning elements.
4. Detailed review and update of the Mitigation Strategy Section. The update process was completed by the NJOEM, the Mitigation Core Team and the State Hazard Mitigation Team through a detailed review of the existing plan to identify progress on the actions it described, and development of additional goals, strategies and actions based on new results of the vulnerability assessment and loss estimation.



5. Creation of a new appendix dedicated to the FEMA Severe Repetitive Loss mitigation program, and New Jersey's strategy to implement it in the State.
6. Development of an array of new and updated technical data and maps, most of which can be used by local and regional planners as they create hazard mitigation plans Statewide over the next year.

PLANNING TEAMS AND JOB DESCRIPTIONS

The development of the 2011 Plan built on the work of the:

- Plan Development Committee that conducted the research and compiled information for presentation to,
- Mitigation Core Team that conducted an initial review of the plan up-date and presentation to,
- State Hazard Mitigation Team that reviewed the final plan content before final reviews as outlined in Section 8

3.2.1: Plan Development Committee

The Plan Development Committee met on a monthly basis to edit, update and rewrite specific sections of the Plan. Draft documents were then presented to the Mitigation Core Team. The Mitigation Core Team met 7 times during the course of the Plan update. Meeting dates were usually held mid-month and results of the meetings were in the form of plan revisions.

3.2.2: The Mitigation Core Team

For the 2011 AHP, NJOEM determined that the planning process should be facilitated by a group of subject matter experts who would be responsible for decision making, technical input and document review. The Mitigation Core Team (MCT) also acts as an Adjunct Staff to NJOEM by assuming both a role in the development of the plan and in the administration of many of the mitigation strategies. This group is comprised of the individuals shown in Table 3.2.1-1., with responsibilities of each member outlined the 2011 update process.

Table 3.2.2-1
Membership of the New Jersey State Hazard Mitigation Core Team

The Mitigation Core Team members represent the combined expertise of the agencies that are represented. Individual members represent their agencies but, at times, alternates attended.

Organization Represented by Core Team Member	Role in the Plan Development Process
New Jersey Office of Emergency Management SFC Robert Little	Project manager for State. Chairman of the Updated Plan, responsible for leading the teams and meetings, supporting data collection requests, overall project coordination. Liaison with FEMA Region II. Lead coordinator from NJOEM for all data collection, dissemination and organization for the MCT and SHMT. Primary liaison with consultant team, MCT and SHMT. Primary technical reviewer for all sections of the plan update.



Organization Represented by Core Team Member	Role in the Plan Development Process
New Jersey Office of Emergency Management Tom Rafferty	Lead IT and GIS coordinator. Coordinated HAZUS-related activities. Liaison with State Treasury for matters related to inventories of State-owned facilities and the LBAM database. Staff responsible for HAZUS tabular data extracts used in flood and wind risk assessments. Coordinated land use/land cover analyses and provided technical review.
NJDEP, State NFIP Coordinator's Office Joseph Ruggeri	Primary technical reviewer for all flood-related aspects of the mitigation plan update. Technical advice on NFIP, NJ and FEMA floodplain mapping, USACE and NJDEP flood mitigation projects and dam safety.
New Jersey Department of Environmental Protection (Regulatory) Helen Owens	Expertise in land use, environmental issues, floodplain management and hazards statewide.
NJ Forest Fire Service Mike Drake	Technical review of all hazard sections, focus on those related to fire hazards, fire regulations and fire history.
NJDEP Green Acres Program Fawn McGee	Responsible for the administration of the State's open space acquisitions through the Green Acres and Blue Acres Programs
New Jersey Department of Treasury Jeffrey Burns	Expertise in grants, budget and management of critical facilities. Input on State facilities aspects of the plan update.
New Jersey Geological Survey Karl Muessig	Primary technical reviewer for all geological hazards. Technical expertise in earthquakes, landslides, and subsidence statewide.
NJ State Climatologist David Robinson	Primary reviewer for all weather-related hazards covered in the plan.

3.2.3: The State Hazard Mitigation Team (SHMT)

The focus of New Jersey's State wide hazard mitigation effort is centered in the New Jersey Office of Emergency Management (NJOEM), located in the Division of State Police in the New Jersey Department of Law and Public Safety. NJOEM provides administrative support to the State Hazard Mitigation Team (SHMT). The SHMT is chaired by a representative of the Governor's Office. Other State agencies represented on the SHMT and actively involved in hazard mitigation include the Department of Environmental Protection (NJDEP), the Department of Community Affairs (NJCA), the Department of Transportation (NJDOT), and the Department of Banking and Insurance (NJDOBI). The Executive Order establishing the SHMT is attached to this plan as Appendix C.

The SHMT consists of representatives identified under Executive Order #115 (Florio) with responsibilities that include, but are not limited to, the following:



1. Identifying hazards, monitoring changes in hazard vulnerability, and implementing measures for reducing potential damage by providing a mechanism for follow-up activities crucial to the successful implementation of team recommendations.
2. Developing and maintaining a comprehensive state hazard mitigation plan for the reduction of natural hazards.
3. Promoting public awareness of risks associated with known hazards and preparedness among residents of the State.
4. Serving as an advisory group to the Governor’s Advisory Council on Emergency Services (GACES) and preparing post-disaster hazard mitigation recommendations for all applications for assistance.
5. Investigating and recommending cost-effective hazard mitigation opportunities to the NJOEM and the GACES as part of any disaster recovery effort.

**Table 3.2.3-1
Membership of the New Jersey State Hazard Mitigation Plan Update
State Hazard Mitigation Team (SHMT)**

The SHMT members represent the combined expertise of the agencies that are represented. Individual members were appointed to represent their agencies but, at times, alternates attended.

Affiliation or Agency	Representative	Mitigation Contributions
Office of the Governor	Un-named	The Governor of New Jersey is considered one of the most powerful governorships in the nation. Along with the LT. Governor, they are the only statewide elected office in the state and appoint many government officials. Chair of the SHMT and authority on behalf of the Governor.
New Jersey State Police Office of Emergency Management		Oversight and management of state and local hazard mitigation plan preparation process; identification and evaluation of mitigation planning programs and opportunities; coordination of mitigation planning with preparedness, response and recovery planning and event management; coordination of natural hazard mitigation with mitigation of manmade hazards, including terrorism.
	SFC. Robert Little Kathy Klemp Michael Gallagher Kathy Lear Thomas Rafferty	Co-Chair of the SHMT, State Hazard Mitigation Officer and project manager for State Hazard Plan Development. Responsible for data collection requests, overall project coordination. Lead coordinator from NJOEM for all dissemination and organization for the MCT and SHMT. Project Development. FEMA funding Expertise. Joint Field Office representative. Local mitigation plan reviews, outreach and education. Expertise in FMA/HMGP planning and projects. NJOEM Lead IT and GIS coordinator.
New Jersey Department of Environmental Protection	Helen Owens (Regulatory)	Provision and analysis of digital data and research publications and memoranda; assessment of natural hazards, identification of management programs; direct participation of the State Coordinator for the National Flood Insurance Program, the Office of Land Use Regulation, Forest Fire Service, Geologic Survey and other experienced personnel; coordination with state and federal programs affecting natural hazard mitigation including open space conservation, historic preservation, water resources management, dam safety and shore protection. Expertise in land use, environmental issues, floodplain management and hazards statewide.



Affiliation or Agency	Representative	Mitigation Contributions
	Joseph Ruggeri (Flood Control, Dam Safety, Coastal Engineering)	Expertise in NFIP, floodplain mapping, flood mitigation projects, and dam safety.
	Fawn McGee (Green Acres)	Expertise in Green Acres and Blue Acres programs for NJ.
	Steve Jandoli (Green Acres)	Planner
	Dennis Contas	Expertise in flood hazard area regulations, stormwater management, projects and issues.
	Michael Drake Maris Gabliks (Forest Fire)	Expertise in fire hazards, fire regulations and fire history.
	Karl Muessig Richard Dalton (NJ. Geological Survey)	Technical expertise in earthquakes, landslides, and subsidence statewide.
	James Watt -	Expertise in the Community Assistance Program Technical expertise in flood insurance program policy and regulations.
Department Of Transportation		Planning, management and integration of all transportation facilities to ensure the safe, efficient and effective movement of people and goods; planning and project implementation to reduce vulnerabilities to natural hazards and to mitigate potential impacts of natural hazards on critical transportation infrastructure; identify and reduce vulnerabilities of people and materials to natural hazards through emergency evacuation or other needs and initiatives.
	Robert Sudol Lisa Webber Edward Rogacki	Expertise in road construction, drainage related road construction, policies enforced by DOT regarding contra flow and evacuation routes, emergency management, and the budget and CIP processes at DOT.
Department of Banking and Insurance		Identification of opportunities to improve the collection of data regarding property losses associated with natural hazard events; identification of opportunities to ensure that hazard mitigation is given proper consideration in private sector banking, insurance and real estate transactions.
	Susan Bauer Steve Mattson	Expert in insurance industry regulations and work with insurance industry to promote mitigations efforts within industry, industry standards and with the insured.
Office of the Attorney General	Thomas Balaint Carl Wyhopen	Define policies and procedures for hazard mitigation planning and project implementation consistent with appropriate precedent and practice. Experts in NJ Statutes, regulations and legal review of plan
Division of Military and Veterans Affairs	Stephen Iaquinto Charles Guylas	Coordination with NJ National Guard efforts Liaison to the US Army Corp of Engineers and expertise with National Guard/ NJ military capabilities
New Jersey Department of Community Affairs		Assessment of building codes and their development, oversight and enforcement affecting hazard mitigation; coordination of state and local planning policies and initiatives affecting land use and infrastructure investments through State Development and Redevelopment Plan and needs for hazard mitigation; oversight of local government fiscal management; technical support for local redevelopment and revitalization initiatives that provide opportunities for hazard mitigation.



Affiliation or Agency	Representative	Mitigation Contributions
	Carmine Giangiruso	Expertise in Building Code and Standards, Smart Growth processes, and inspectors programs (to ensure enough inspectors are available to jurisdictions faced with a disaster/emergency)
Department of Treasury		Identification of resources available for program implementation through oversight of state agency budgets; identification and management of state property and state owned and leased facilities potentially vulnerable to natural hazards.
	Jeff Burns	Expertise in grants, budget and management of critical facilities
State Climatologist		Collection and management of weather, hydrologic and associated meteorological data; identification of opportunities to analyze and present data in ways that facilitate hazard mitigation planning and decision making.
	Dave Robinson	Expertise in weather-related hazards statewide.
Board of Public Utilities	To be appointed	Provision and analysis of natural hazard information affecting the provision of electric power, telecommunications, public water, sewage collection and treatment, and other regulated public utilities.
Office of Information Technology	Douglas M. Schleifer	The New Jersey Office of Information Technology (OIT) is the central IT organization that oversees the technology infrastructure for the executive branch of State government. It is this infrastructure that enables the State to deliver vital services to New Jersey's citizens and businesses every day. Provision of digital data and identification of opportunities for establishing, organizing and enhancing data necessary to improve identification and mitigation of natural hazards.

**Table 3.2.2-2
Meeting Dates and Subject Matter for State Hazard Mitigation Team
During the 2009-2010 NJ State Mitigation Plan Update**

MCT meeting date	Subject Matter
January 21, 2009	Discussion of the FY 2009 mitigation grant program applications that were submitted.
April 15, 2009	<ul style="list-style-type: none"> • Discussion of the All-Hazards Plans in the state. Six county plans have been approved so far. • Discussion of the status of on-going projects. • NJDEP gave a presentation on the GIS planning project they are doing with their HMGP grant to produce a statewide "fire risk" map • Discussion of the mitigation meetings held with municipalities to promote the mitigation grant programs. • Discussion of the NJEPA conference to be held in Atlantic City. • Discussion of the benefits of having an enhanced State Hazard Mitigation Plan and what is required
May 2009	Discussion of the All-Hazards Plans being done by the counties and which ones have been approved by FEMA.
May 15, 2009	<ul style="list-style-type: none"> • Meeting with NJDEP Blue Acres/Green Acres to discuss the \$12 million that NJDEP is going to receive for these programs. NJDEP Green Acres would like to spend more funds on acquisitions in



	<p>Wayne Township.</p> <ul style="list-style-type: none"> • Discussion of the Severe Repetitive Loss Program. • Discussion of the status of the All-Hazards Plans and the eligibility of the towns and counties with approved plans.
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July 15, 2009	<ul style="list-style-type: none"> • Review of the status of all on-going projects and All-Hazards Plans • Review of the update of the State Hazard Mitigation Plan. • Discussion of the Benefit Cost Analysis training to be held in August. • Discussion of the E-Grant Application process and utilization of the Hazard Mitigation Assistance 2010 guidance.
August 2009	Discussion of possible future projects and how the Mitigation Unit will hold workshops this spring for eligible sub-grantees.
October 21, 2009	<ul style="list-style-type: none"> • Discussion of the E-Grant applications that were received. This year 16 applications were received from potential sub-grantees. There were applications under the FMA, PDM, RFC and SRL grants. • The applications were reviewed and ranked by the State Hazard Mitigation Team and submitted to FEMA for consideration. • SFC Little talked about going to Washington D.C. to participate in the National review of the E-grant applications submitted.
November 2009	Discussion on holding training for everyone that may use the E-Grants system to make application for future projects.
January 2010	Upcoming NJEPA conference in May- a mitigation session will be held to educate OEM coordinators about the requirements for a project application
April 27, 2010	<ul style="list-style-type: none"> • Update on the State Hazard Mitigation Plan and review of the mitigation actions in the plan that need to be updated by the state agencies. • Discussion of the EMAP program and how NJOEM is requesting accreditation for our emergency management programs. • Status of the sub-grant applications that were submitted to FEMA last year. Eight of the project applications are being considered for an award this year. • Discussion of the Letters of Intent submitted for DR-1867 and DR-1873. We need to prioritize the projects selected for funding. Would like to choose projects from all over the state.
May 2010	Upcoming training on the National Flood Insurance Program/Community Rating System.
May 19, 2010	<ul style="list-style-type: none"> • Powerpoint presentation on all of the disaster-related project applications submitted under the four current disasters. • Update on the State Hazard Mitigation Plan and the need for the state agencies participating in the revision to respond with their information soon.

The State Hazard Mitigation Team met on April 27, 2010 during the plan update process and was provided a detailed explanation of the process, the preliminary results of the vulnerability assessment and loss estimation, and a discussion of the Mitigation Strategy section. When the draft plan was completed in mid April 2010, each member of the SHMT was sent an email requesting their review and comment on the document. The draft plan was made available to the SHMT via postings on various sites and via email, depending on individual needs. The SHMT was provided an email address where they could send feedback. When the planning team received this feedback, it was



compiled into a single document and circulated to the MCT, so this group could determine on a case-by-case basis which comments should be incorporated.

Upon the FEMA Regional Director's written acknowledgment to the Governor that the New Jersey State Hazard Mitigation Plan update has been approved, the Plan will be distributed to the SHMT and to the Governor's Advisory Council on Emergency Services (GACES) and will be made available to interested parties via posting on the NJOEM web site, and by request to the State Hazard Mitigation Officer. NJOEM coordinated distribution of the updated SHMP to county and local emergency management officials and other appropriate organizations.



3.3: Coordination with Federal and State Agencies, and Interested Groups

3.3.1: Coordination with FEMA Region II and Other Federal Agencies

Early in the 2011 AHP update process, NJOEM contacted FEMA Region II to advise them of the process that the State would follow, and to request Regional cooperation in developing the document. This was particularly important because of the relatively short time frame allotted to complete the update. FEMA Region II agreed that it would best serve the interests of the State to ensure that the updated version is well organized and correctly responds to FEMA Interim Final Rule requirements and 2008 FEMA review comments.

The relationship between the State Hazard Mitigation Officer, the Mitigation Unit and FEMA Region II is informal. Conversation, guidance and coordination between the various FEMA program managers and NJOEM are almost a daily occurrence. Formalized training occurs upon request from the SHMO to FEMA. NJOEM conducts various workshops throughout the year with FEMA support as requested or required.

During the yearly program rollouts, naturally the amount of coordination between Region II and NJOEM significantly increases. Application development coordination is especially important and has been very successful cooperative effort. Project development and administration has required an informal and close working relationship with the FEMA Region. As NJOEM or FEMA has become aware of significant changes within program guidance or laws and regulations, more formal meetings or training will take place involving all of the appropriate personnel at the State and federal agency level.

Due to the nature of the work, much of the coordination and collaboration were done through telephone calls, emails and in person meetings. Due to staffing constraints, NJOEM relies heavily on the guidance of its FEMA Region II partners for help in the development of applications; technical assistance, local plan questions, implementation support and Hazard Plan Update guidance. Regions II support and assistance is an invaluable asset to the NJOEM and the SHMT to meet their mitigation priorities, goals and actions. In addition to ongoing work, FEMA Region II has been a source of guidance and assistance with updating the HMP by providing personnel to help with hazard data collection and analysis, dedicating time and resources to review sections of the plan, attends SHMT meetings, and answer any questions the MCT has as it updates the plan.

In addition routine, formal and informal communications took place between State personnel and personnel from FEMA and other Federal agencies closely associated with the planning, regulatory and investment activities of the State agencies. For example, NOAA, the United States Army Corps of Engineers and USEPA typically oversee or implement programs through the New Jersey Department of Environmental Protection, which in turn related Federal opportunities and constraints regarding potential natural hazard mitigation efforts for the State Hazard Mitigation Plan through its representatives on the State Hazard Mitigation Team. The New Jersey Department of Transportation addresses natural hazard mitigation issues in the course of its coordination of policies, plans and projects with agencies within and associated with the United States Department of Transportation. Federal land holding agencies in New Jersey, such as the Department of Defense and the National Park Service and Fish and Wildlife Service of the United States Department of the Interior, actively cooperate in mitigation planning, funding, and resource sharing in fuel reduction and wildfire suppression activities on and around their properties. The United States Department of Agriculture, Forest Service is a major provider of funding, training, and standards for all wildfire programs in New Jersey. As an example of the cooperation shared with these agencies, the "East Plains Fire Shed Management Plan," being developed with National Fire Plan monies provided by the USDA Forest Service, will work to mitigate wildfires caused by errant bombs on the Warren Grove Bombing Range. This wildland/urban interface mitigation plan covers 75,000 acres in six municipalities within two counties surrounding the range.



FEMA requires all municipalities to develop and adopt natural hazard mitigation plans to be eligible for a range of mitigation assistance and grants from FEMA. The Agency has provided significant funding assistance to New Jersey to develop hazard mitigation plans. Additional information regarding the preparation of local hazard mitigation plans in New Jersey is provided in Section 4 of the 2005 version of the State Hazard Mitigation Plan and Section 6 of the 2008 update.

3.3.2: Coordination with State Agencies

Due to its early colonization and development, New Jersey's land development patterns and emergency management programs were established long ago. Partnerships were formalized by creation of the 1984 State Hazard Mitigation Plan, and the State agency partners have continued to participate in developing revisions to that plan. While this current State Hazard Mitigation Plan is in a new format prescribed by FEMA which has challenged existing state emergency planning structures, the legacy of several decades of significant coordination between and among state agencies in implementing hazard mitigation projects and plans remains intact.

This planning effort was undertaken by representatives of the key State agencies involved in preparing for, responding to, recovering from and mitigating natural hazards. These entities comprised the State Hazard Mitigation Planning subcommittee: The New Jersey Office of Emergency Management, the New Jersey Department of Environmental Protection, the New Jersey Department of Community Affairs, the New Jersey Department of Treasury, the New Jersey Department of Transportation, the Department of Banking and Insurance, the New Jersey Board of Public Utilities, the New Jersey Office of Information Technology, the New Jersey State Climatologist and the Office of the Attorney General.

Each participating agency presented its programs, identified mitigation programs and opportunities, and subsequently discussed revisions to the plan required by FEMA. Each of the State agency members contributed data and analytical information to the plan (including the hazard and vulnerability analysis), provided draft narrative for inclusion in the plan, assisted in development and selection of mitigation strategies, reviewed all drafts of all sections of the plan and, through discussions at meetings of the planning subcommittee and of the State Hazard Mitigation Team, provided other relevant information on their subject areas of expertise. Plans and programs provided by or through New Jersey state agencies for hazard mitigation measures and funding are discussed throughout this plan. For the 2008, each of the agencies noted in the table above were either included in the process (as described earlier), or received separate notification that the draft plan update was available for review.

Throughout the development of the updated Plan, the NJOEM Mitigation Unit, the State Hazard Mitigation Officer (SHMO) and members of the SHMT informed the public about the updated plan, reached out to organizations to help educate, review and encourage participation by their members in hazard mitigation plans, and solicited comments from the public at various venues. Table 3.2-1-1 provides a brief overview of these organizations and efforts.

**Table 3.3.1-1
Public Outreach Efforts during the 2008 Plan Update Process**

Event	Organization	Date
New Jersey Association for Floodplain Management Annual Conference	New Jersey Association of Floodplain Management	10/19-20/2009
Department of Environmental Protection, the New Jersey Office of Emergency Management, the National Weather Service. Testimony concerning flood mitigation and response from the New Jersey.	Public Hearing before Assembly, Statewide Flooding legislative panel	9/24/2009



Delaware River Greenway Partnership (DRGP) Fall forum	Delaware River Greenway Partnership	10/28/2009
United States Army Corps of Engineers, the New Jersey Association for Floodplain Management, the New Jersey State League of Municipalities, distinguished experts from the academic community. Testimony concerning flood mitigation.	Panel Meeting of Statewide Flooding legislative panel	10/8/2009
NJ League of Municipalities Annual Conference	NJ League of Municipalities	11/20/2009
Location: Hazard Mitigation Grant Programs DR-1867-NJ; At: Essex County Office of Emergency Management Codey Arena, West Orange, NJ. Subject: Hazard Mitigation Grant Program DR-1867-NJ	Participants: NJOEM, DSG. Katherine Klemp, FEMA, Kathleen Rhodes Hazard Mitigation Department, FEMA and 29 Patrons	1/24/20010
Location: Atlantic County Office Of Emergency Management, Canally Training Center, EHT, NJ. Subject: Hazard Mitigation Grant Programs DR-1867-NJ	Participants: NJOEM, SFC Robert Little NJOEM, DSG. Katherine Klemp, Kathleen Rhodes, , Michael Padden, FEMA.	1/27/2010
Location: Hazard Mitigation Grant Programs DR-1867-NJ; Ocean County Office Of Emergency Management ,R.J. Miller Air Park, Toms River, NJ. Subject: Hazard Mitigation Grant Programs DR-1867-NJ	Participants: NJOEM, DSG. Katherine Klemp, Kathleen Rhodes Hazard Mitigation Department, FEMA	1/29/2010
Location: Milltown Borough Municipal Complex Subject: Potential projects, Relocation of the Utility Substation and possible elevation of structures to meet BCA requirements.	Participants: NJOEM,, Mike Foley, FEMA Region II, Gary Holsten, Milltown Borough Councilman	2/8/2010
Location: Lower Twp. Municipal Complex, Villas, NJ. Subject: Opportunity for lower Township to apply for (HMGP) under DR-1867-NJ. Outfall pipe damaged, needs repairs. Lower Township eligible for 406 mitigation funds.	Participants: NJOEM, DSG. Katherine Klemp, Mike Foley, FEMA Region II, Mark Sray, Steve Morey, Hatchmontt Mac Donald, Kathleen McPherson, Colleen Crippler, Gary Douglas,	2/22/2010
Location: Cape May Court House, NJ. Subject: The County was going to concentrate on storm water management projects, which would be eligible under HMGP, PDM, and FMA. Specific Projects to be considered were identified as pump stations in wildwood, tide-flex valves and bulkheads located in Sea Isle City.	Participants: NJOEM, DSG. Katherine Klemp, Mike Foley, FEMA Region II, Frank McCall, Abe Foster, Arthur Treon, Cape May County.	2/22/2010
Location: Northfield , Public Works, NJ. Subject: PDM Road Elevation CR651 (Mill Rd)	Participants: NJOEM, DSG. Katherine Klemp, Mike Foley, FEMA Region II, Barry Hackett, Joe Maher, Matt Duffy ,John Masi, Scott Macpherson, Dan McGinnis, Doug DiMeo, NorthField.	3/22/2010
Location: NJSP/ROIC Subject: PDM Meeting reference HMA 2010 application revisions. Reviewed FEMA Comments required for Application to be awarded. John Miller he would make revisions expeditiously and re-submit the application for grant award.	Participants: NJOEM, DSG. Katherine Klemp, Mike Foley, FEMA Region II, John Miller, Lambertville	4/12/2010



Location: Neptune TWP. Municipal Complex Subject: Outfall valve installation project was considered under PDM and FMA for 2010 grant award.	Participants: NJOEM Katherine Klemp and Michael Gallagher, NJSP; Mike Foley, FEMA Region II, Michael Bascom, Leanne Hoffman, Neptune Twp.	4/14/2010
Location: Lincoln Park Borough Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Robert Little, Mike Foley, FEMA Region II, Ellen Ross	5/5/2010
Location: Pompton Lakes Township Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Robert Little, Mike Foley, FEMA Region II, Ellen Ross	5/5/1110
Location: Nutley Twp. Municipal Complex Subject: FMA/RFC M/HMA Application Revisions	Participants: NJOEM Katherine Klemp and Michael Gallagher,; Mike Foley, FEMA Region II, Salvatore Ferraro, Nutley Twp.	5/15/2010
Location: Little Falls Twp. Municipal Complex Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Little, Mike Foley, FEMA Region II, Joanne Bergin, Dennis Lindsay	5/16/2010
Location: North Wildwood Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Robert Little, Mike Foley, FEMA Region II, Twp Engineer	5/27/2010
Location: Harmony Township Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Robert Little, Mike Foley, FEMA Region II,	5/28/2010
Location: Passaic River Communities Joint Meeting Subject: SRL Program , \$140,000,000 Open Application Period	Participants: NJOEM, NJOEM Katherine Klemp and Michael Gallagher, SFC Robert Little, Mike Foley, FEMA Region II, EI	5/31/2010

As noted in Subsection 3.2.2, the State Hazard Mitigation Team (SHMT), which was established by Governor's Executive Order #115 (Florio), is the means that NJOEM uses to coordinate its mitigation activities with other State agencies. Since the first version of the NJ All Hazard Mitigation Plan (Plan) was approved in April, 2005, members of the SHMT have been meeting quarterly to assess mitigation projects, prioritize applications for submittal, and determine if there are any changes to the Plan.

3.3.3: Coordination with Other Specifically Interested Groups

In addition to its collaborative work with other State Agencies and FEMA, The NJOEM and NJDEP work closely with various organizations that work on mitigation from a regional perspective. Members of the SHMT participate on the Flood Task Force for NJ and for DRBC. Table 3.3.2-1 lists the various organizations with which NJOEM interacts on issues of hazards and hazard mitigation. Those that are not directly represented on the MCT and the SHMT were notified when the draft plan was available for review, and were requested to provide feedback to NJOEM.



Table 3.3.3-1
New Jersey Organizations with ongoing involvement with NJOEM on Hazard Mitigation and Mitigation Planning

Organization	Mission and Membership
<p>Passaic River Basin Flood Advisory Commission (New)</p>	<p>By Executive Order 23, signed April 23, 2010, Governor Christie created Passaic River Basin Flood Advisory Commission consisting of seven (7) members with the Commissioner of the Department of Environmental Protection to serve as the chairperson of the Advisory Commission, and the Superintendent of the State Police to serve as a member of the Advisory Commission.</p> <p>The Advisory Commission is responsible for identifying both short-term and long-term recommendations to enhance flood mitigation efforts, emergency response planning, and streamlining requirements that impede post-flooding recovery. In addition, Advisory Commission shall identify ways to minimize damage in the future, thus minimizing flood impacts to residents and businesses.</p> <p>More information can be found at: http://www.nj.gov/dep/passaicriver/</p>
<p>USACE "Silver Jackets" Program (New)</p>	<p>Silver Jackets , developed by the US Army Corps of Engineers is the state level implementation program for the National Flood Risk Management Program. The program's goals are to leverage information and resources of federal, state and local agencies, improve public risk communication through a united effort and create a mechanism to collaboratively solve issues and implement initiatives beneficial to local communities.</p> <p>The New Jersey team, whose organizational meeting was held in June 2010, includes representatives from FEMA and the USACE, the New Jersey State Hazard Mitigation Officer and the state National Flood Insurance Program coordinator, who serve as standing members and lead facilitators. The goal of the program will be to foster relationships where they do not exist, strengthen relationships that need improvement, and supplement and expand already successful teams.</p> <p>More information can be found at: http://www.njfrmp.us.state/</p>
<p>FEMA Portfolio Management Program (New)</p>	<p>Portfolio Management is a dynamic process that enables timely and informed decision-making through the use of consistent data, effective tools, and clear priorities. Effective Portfolio Management provides the right information to the right people at the right time to inform mitigation decisions. Portfolio Management may be viewed conceptually as a method to support the achievement of mitigation goals and objectives identified in the Mitigation Plan.</p> <p>FEMA's Portfolio Management Program was initially described in a June 2010 meeting. Program elements will be further described as more information is developed.</p>



Organization	Mission and Membership
<p>New Jersey Association for Floodplain Management</p>	<p>The New Jersey Association for Floodplain Management (NJAFM) is dedicated to reducing loss of life and property damage resulting from floods and promoting sound floodplain management at all levels of government. Our organization of 170 active New Jersey members is a chapter of the national Association of State Floodplain Managers (ASFPM), with 11,000 individual members and chapter members strong. Our goals are to heighten awareness of flood risk, provide education, promote mitigation and improve communication to protect public safety, property and the economy.</p> <p>For current membership information contact Joseph Ruggeri at the DRBC web site at drbc@state.nj.us or visit NJAFM at www.njafm.org.</p>
<p>Delaware River Basin Commission (DRBC)</p>	<p>The Delaware River Basin Commission was created in 1961 by a federal-interstate compact. The Delaware River Basin Commission is a water resource agency with authority to regulate, plan and coordinate management of the water resources of the Delaware Basin. The Commission's members are the governors of the states of New York, New Jersey, Pennsylvania and Delaware and a federal member appointed by the President. Since 1997, the federal member has been the North Atlantic Division Commander of the U.S. Army Corps of Engineers, based in Brooklyn, New York. Each commissioner has one vote of equal power with a majority vote needed to decide most issues. Unanimity is required for votes on the annual budget and drought declarations. The Commission holds business meetings and hearings on policy matters and water resource projects under regulatory review. These sessions, along with meetings of the commission's various advisory committees, including their Flood Advisory Committee, are open to the public. DRBC's Flood Advisory Committee (FAC) was established in 1999. The committee has since served to coordinate and leverage federal, state and local agencies efforts to improve the basin's flood warning system and mitigate flood losses.</p> <p>For membership and contact information see the DRBC web site at; www.drbc.state.nj.us 2010 Membership: of the Delaware River Basin Commission are the governors of the four basin states and a federal representative. Each member appoints alternate commissioners. Governor Christie is currently the Commissioner for NJ and NJDEP Commissioner is his alternate.</p>
<p>Delaware River Basin Interstate Flood Mitigation Task Force</p>	<p>The Delaware River Basin Interstate Flood Mitigation Task Force was assembled in October 2006 at the request of the governors of the four basin states (New York, New Jersey, Pennsylvania and Delaware). The Task Force is comprised of 32 members from a geographically diverse array of government agencies (legislative, executive, federal, state and local), private businesses and not-for-profit Organizations. The group has identified a total of 45 consensus recommendations in a report issued in July 2007 that calls for a proactive, sustainable, and systematic approach to flood damage reduction. The recommendations are based upon a set of six guiding principles concerning floodplain restoration, floodplain protection, institutional and individual</p>



Organization	Mission and Membership
	<p>preparedness, local storm water management and engineering standards, and the use of structural and non-structural measures. The report is available online at www.drbc.net. For membership and contact information see the DRBC web site at; drbc@state.nj.us</p> <p>2010 NJ Members of the Interstate Task Force include: John Moyle, P.E., Manager, Bureau of Dam Safety and Flood Control, New Jersey Department of Environmental Protection (NJDEP); SFC. Robert Little, State Hazard Mitigation Officer, New Jersey Office of Emergency Management (NJOEM); David K. Burd, Emergency Management Coordinator, City of Lambertville, NJ; Marcia A. Karrow, Hunterdon and Warren Counties, NJ State Assemblywoman; Congressman Rush Holt (D-12), Member of the Delaware River Basin Congressional Task Force.</p>
NJ League of Municipalities	<p>New Jersey State League of Municipalities is a voluntary association created to help communities do a better job of self-government through pooling information resources and brain power. It is authorized by State Statute and since 1915, has been serving local officials throughout the Garden State. All 566 municipalities are members of the League. Over 560 mayors and 13,000 elected and appointed officials of member municipalities are entitled to all of the services and privileges of the League</p> <p>For membership and contact information see the League web site at; www.njslom.org/</p>
NJ Flood Mitigation Task Force	<p>The Delaware River Basin Interstate Flood Mitigation Task Force was assembled in October 2006 at the request of the governors of the four basin states (New York, New Jersey, Pennsylvania and Delaware). The Task Force is comprised of 32 members from a geographically diverse array of government agencies (legislative, executive, federal, state and local), private businesses and not</p> <p>For 2010 membership and contact information see the DRBC web site at; drbc@state.nj.us</p> <p>Honorable Bob Martin*, DEP Commissioner Carol Collier, DRBC Executive Director Honorable David M. Del Vecchio, Mayor of Lambertville Elizabeth Johnson, Trenton Resident and CEO of Isles, Inc. Robert Medina, P.E., President of Medina Consultants John Miller, P.E., CFM, Senior Water Resource Engineer for Princeton Hydro, LLC, Sergeant First Class Robert Little, State Hazard Mitigation Officer Professor James K. Mitchell, Chairman of the Rutgers Department of Geography Honorable Douglas H. Palmer, Mayor of Trenton Henry S. Patterson, III, Executive Director of the New Jersey Water Supply Authority Lt. Colonel Robert J. Ruch, Philadelphia District COE</p>



Organization	Mission and Membership
	<p>Jeff Scott, Planning/zoning chair, Frenchtown Borough Cleighton D. Smith, P.E., CFM, Senior Project Manager for Dewberry & Davis Maya K. van Rossum, Delaware River Keeper, Gregory J. Westfall, USDA Natural Resources Conservation Service Honorable Harry L. Wyant, Jr., Mayor of Phillipsburg</p>
<p>Delaware and Raritan Canal Commission</p>	<p>Established in October, 1974, when Governor Brendan Byrne signed the D&R Canal State Park Law. The Commission was created to accomplish three main tasks: To review and approve, reject or modify any action by the State in the Canal Park, or any permit for action in the park; to undertake planning for the development of the Canal Park; and to prepare and administer a land use regulatory program that will protect the Canal Park from the harmful impacts of new development in central New Jersey.</p> <p>For membership and contact information see the D&R Canal Commission web site at: www.dandrcanal.com/drcc.index.html David DelVecchio, <i>Chairman</i>, Martin D. Jessen, <i>Vice-Chairman</i>, Bob Martin, Commissioner DFP Al Pane, Division of Parks and Forestry David H. Knights John S. Loos Phyllis L. Marchand Alison Mitchell Douglas H. Palmer</p>

In addition to the agencies and organizations listed in the table above, the 2008 version of this Plan listed several additional offices and agencies with some involvement with hazard mitigation. This section is retained verbatim from the original plan.

3.3.3.1: New Jersey Office of Smart Growth

In response to the need for increased coordination between the State Planning Commission and other agencies of state government with the New Jersey Office of Emergency Management, the Office of Smart Growth (Department of Community Affairs) has taken action to ensure that emerging issues related to mitigation and planning are effectively addressed.

Policies promoting hazard mitigation planning incorporated into land use and infrastructure plans at all levels of government were incorporated into the revised New Jersey State Development and Redevelopment Plan prepared under New Jersey's State Planning Act and adopted by the New Jersey State Planning Commission, and independent, quasi-legislative body, in March 2001. In 2010 The New Jersey State Planning Commission consist of 17 members representing state government. Agencies participating in the State Hazard Mitigation Team, either as members of the State Planning Commission itself or as members of the Interagency Smart Growth Team, have an opportunity to alert the State Planning Commission and Office of Smart Growth when any proposed changes to the State Development and Redevelopment Plan may encourage development in hazard prone areas, cause potential threat to nearby areas, or reduce open space that provides flood storage. Proposed changes to the State Development and Redevelopment Plan were being identified, evaluated and negotiated in early 2005. Through



initiatives such as the “endorsement” of local land use plans by the State Planning Commission, local governments are encouraged to incorporate local hazard mitigation planning in “smart growth” initiatives.

In addition, a member of the Office of Smart Growth Executive Management Team serves on the State Hazard Mitigation Team. This individual reports issues of concern to the Office of Smart Growth Executive Director who serves as NJOSG’s primary interface with the State Planning Commission. Information is also shared with the State Hazard Mitigation Team from the State Planning Commission through a similar process. Secretary Mrs. Rendeiro provided an update on the State Plan in early 2009 these were obtained at opened public meetings. For updates on state plan go to;

www.state.nj.us/dca/divisions/osg/commissions/spcsummaries.html

The Office of Smart Growth serves as staff to the State Planning Commission and coordinates and facilitates two implementation teams. The Interagency Smart Growth Team, representing twelve state agencies, serves as a deliberative body for smart growth policy and strategy including emerging hazard mitigation issues. The Smart Growth Project Review Team (also interagency) facilitates the completion of redevelopment projects in Planning Areas 1, 2 and Designated Centers as defined in the State Development and Redevelopment Plan. For more details go to

www.state.nj.us/dca/divisions/osg/commissions/spc.html

One recent major project, under development in Bloomfield, New Jersey, involved potential flood plain issues. Through the cooperative efforts of the Department of Environmental Protection, Office of Smart Growth, local officials and the developer, plans were created to mitigate any potential flood issues. These steps were taken to ensure that no loss of life or property would occur as a result of this important redevelopment project.

The staff member who represents the Office of Smart Growth on the State Hazard Mitigation Plan Team and communicates issues of concern to the State Planning Commission leads both teams. Recommendations of the State Hazard Mitigation Plan Team will be communicated to the Chairperson of the State Planning Commission for inclusion in the State Development and Redevelopment Plan prior to its next adoption.

More information on the New Jersey State Development and Redevelopment Plan can be found at their web site at:

www.state.nj.us/dca/divisions/osg/plan/

3.3.3.2: Floodplain Management Committee

In 2004, a newly formed Floodplain Management Committee was established under the New Jersey Section of the American Water Resources Association. NJOEM is represented on this committee. This committee’s work can be identified as a new initiative to develop a plan to address flood hazards and mitigation. In January 2005 the Association mailed a survey to all NJ Municipal Mayors to determine local capabilities, needs and interests regarding floodplain management, in order to facilitate the development of programs to address these needs. Expanded use of GIS and other tools may be developed to facilitate the local’s needs.

Results of the survey will be available at:

www.awra.org/state/new_jersey/

In 2006, the Floodplain Management Committee became a chapter of the Association of State Floodplain Managers, under the name New Jersey Association for Floodplain Management. The purpose of the organization is described in the organization’s constitution, and includes a range of floodplain management-related issues, including promoting public awareness of proper floodplain management, encouraging the exchange of ideas about floodplain management, informing concerned individuals about pending floodplain and coastal management legislation, and



studying and supporting floodplain management legislation, among other missions. More information on the New Jersey Floodplain Management Committee can be found at their web site at:

www.njflood.org

3.3.3.3: New Jersey Department of Transportation Capital Project Planning

The New Jersey Department of Transportation coordinates its capital planning with hazard mitigation through four routinely updated documents (including the date of the most recent update):

1. "Ranking for Statewide drainage Projects" (updated annually, last update 08/09)
2. "Division of Design Services - Status of NJDOT Dams 2005" (last update 02/10)
3. "Overall Scour Report-State -Owned Bridges" (continuously updated)
4. "Overall Scour Report-County-owned Bridges" (continuously updated)

More information on the New Jersey State Department of Transportation Capital Planning can be found at their web site at:

www.nj.gov/transportaion/



3.4: Integration into other Ongoing State Planning Efforts

3.4.1: State Facilities Risk Management Program

The State of New Jersey addresses hazard mitigation for State-owned and State-leased properties through the Bureau of Risk Management in the Department of the Treasury in association with its insurance carrier(s). Each facility is required to have an emergency response plan in place along with a loss prevention and control program that includes a "red tag permit system" supervising all fire protection water supply valve closures, an electrical system maintenance program and a risk assessment of all plans for additions or other changes to building construction, protection or building use.

Department of the Treasury, Bureau of Risk Management distributed copies of a detailed, four-page Flood Checklist to each State department specifying actions to be taken when flood threatens, after a flood, and each year prior to flood season. In addition, Flood Emergency Response Plans have been developed, or are being developed, and updated each February for each State facility. These plans include:

1. An overview of the flood threat, identifying the source of potential flooding and the depth of 100 year and 500 year floods relative to the floor heights of each facility;
2. Monitoring procedures during potential flood events, including regular observations of flood heights in water bodies, listening for flood alerts, and checking local water backup points at bridges, culverts and storm drains during heavy rain and thunderstorms to ensure drainage is not obstructed;
3. An action matrix addressing areas sensitive to potential impacts of flood waters and required responses to weather advisories, changes in river elevation, flood and post-flood conditions; and
4. Lists of emergency contacts and approved contractors for future mitigation and remediation.

3.4.2: Coastal Land Use Regulation Program

NJDEP is also involved in a variety of hazard mitigation initiatives as part of the Coastal Zone Management Program and as part of the Department's interaction with FEMA related to the National Flood Insurance Program (NFIP). The Coastal Area Facilities Review Act (N.J.S.A. 13:19), the Waterfront Development Law (N.J.S.A. 12:5-3), and the Wetlands Act of 1970 (N.J.S.A. 13:9A) provide rules and regulations governing development in vulnerable coastal areas of New Jersey. Department staff routinely provides information to and work directly with municipal officials and property owners in the hazard identification, vulnerability analysis and mitigation planning. Through the NJDEP regulatory programs, hazard mitigation activities are often required as a condition of a permit approval.

New Jersey's coastal zone is vulnerable to various coastal hazards including chronic and episodic erosion, flooding, storm surge, tropical and extra tropical storms, wind, and sea level rise. Many areas of the coast were developed before there was an informed appreciation of coastal hazards. Consequently, extensive areas of dense development exist in areas subject to coastal hazards. Moreover, recent population increase, as evidenced by the 2000 census data, has placed more people and property at risk from these hazards. With the continuing trend of sea level rise, this vulnerability will increase.

Development continues in hazardous areas along the coast, particularly reconstruction of existing residential development and the conversion of single family/duplex dwellings into multi-unit dwellings. In many cases, modest seasonal shore homes are replaced with larger year-round dwellings. As a result, the number of people and value of



the property at risk is significantly increasing. On the other hand, improved hazard resistant construction techniques and hazard sensitive building standards are resulting in more storm-resistant coastal development.

Coastal hazard vulnerability, particularly along the intensely developed oceanfront areas of New Jersey, is often influenced by the management practices on the adjacent beaches, dune systems, and shorelines. Protection, management, and enhancement of these important features, is a critical component of the New Jersey Coastal Management Program. With more than 50 municipalities, numerous beach associations and hundreds of private property owners controlling beach and dune areas, management practices and the resultant degree of vulnerability vary greatly.

New Jersey's Coastal Management Program has responded to these hazards in several ways. New Jersey has adopted a number of enforceable policies that deal directly with development in hazardous areas. These standards are codified in the Coastal Zone Management rules. These standards are designed to facilitate sound management of beaches, dunes, and shorelines throughout the coast to establish and support a consistent line of protection in the form of well-maintained and protected beaches and dunes. The standards are also intended to reduce development in the most vulnerable areas and provide that any such development is located to reduce potential damage from coastal hazards, and does not adversely affect either the adjacent shorelines or structures or ecosystem. For more information on these standards go to:

www.stae.nj.us/dep/cmp/czm_enforcepolicies.html.

In oceanfront and bay front areas, NJDEP rules prevent additions to or tearing down and rebuilding homes that result in placing the home closer to an eroding shoreline, or in additional encroachment on dunes that is not mitigated for by enhancing the dune as a shore protection feature. These enforceable policies also prohibit much residential development in V-zones, and govern beach and dune disturbance. Further, these Coastal Zone Management rules contain standards for beach and dune management and implementation of Best Management Practices (BMPs). These standards also maximize the benefits of the Federal/State beach nourishment program by restoring the natural and beneficial functions of the beach and dune systems.

Among the enforceable policies in riverine and bay front areas are regulations that strongly encourage the use of bioengineering as a preferred alternative to hard shoreline protection structures, particularly along the lower energy shorelines of the back-bays and rivers. By reflecting wave and current energy, bulkheads have frequently caused scour and erosion of sensitive environmental resources. NJDEP has also successfully promoted construction of sloped riprap revetments as an alternative to bulkheads. Sloped revetments have less impact on marine and estuarine resources because they tend to dissipate wave and current energy and thus reduce erosive and scour effects.

The NJDEP Coastal Management Office is the conduit for federal Coastal Zone Management grants that may be used for hazard mitigation activities such as historical shoreline change mapping projects, educational programs and coastal area planning initiatives. Under NOAA's 309 Grant Program, the Coastal Management Office has provided and will continue to provide pertinent information for local and State hazard mitigation plans. These efforts include disseminating coastal hazards information through the Coastal Management Program website; working with municipalities to provide the public with information regarding the limitations of beach nourishment; and data collection, such as beach and dune mapping and beach profile mapping to determine the degrees of vulnerability of coastal communities. Pursuant to Federal regulations at 15 CFR 930, Federal activities affecting the coastal zone are required to be consistent with approved state coastal management programs.

More information on the New Jersey State Department of Environmental Protection Coastal Regulation Program can be found at their web site at

www.state.nj.us/dep/cmp/



3.4.3: Open Space Acquisition Programs

3.4.3.1: Coastal Blue Acres

The Green Acres Farmland Historic Preservation and Blue Acres Bond of 1995 contained \$15 million for the creation of a new program: Coastal Blue Acres (CBA). These funds were divided into two parts: \$6 million dollars which has been used for pre-storm acquisition of unimproved or largely unimproved storm damage prone and buffer lands. Nine million dollars has been reserved for post-storm funding to acquire properties that have suffered at least a 50% reduction in the value of improvements as a result of storm damage. These properties can be located anywhere on a coastal barrier island, within 150 feet of the mean high water line of a tidal waterway or 150 feet of the landward limit of a beach or dune.

The purpose of CBA is to provide grants and loans to county and municipal governments to acquire, for recreation and conservation purposes, lands in the coastal areas that:

- Have been damaged by storms or storm related flooding
- May be prone to incurring damage by storms or storm related flooding
- Buffer or protect other lands from storm damage

CBA acquisitions can only be made from willing sellers. The CBA legislation specifically prohibits the use of eminent domain by a local government in acquiring land using CBA funding. Municipalities must be willing participants in the program as well. Sites acquired with CBA funding will be restricted to minimal improvements for public access. The development of recreation facilities that could become a storm hazard is prohibited.

The CBA legislation also states that all lands acquired with CBA funds shall be regulated under existing Green Acres rules. This includes submission of a recreation and open space inventory and the attachment of contractual restriction to all CBA acquired lands and all other lands held by a local government for conservation and recreation purpose.

3.4.3.2: Blue Acres and Green Acres Programs

The Green Acres Program was created in 1961 to meet New Jersey's growing recreation and conservation needs. From 1961 through 1995, New Jersey's voters overwhelmingly approved nine bond issues, earmarking over \$1.4 billion for land acquisition and park development. On November 3, 1998, New Jersey voters approved a referendum, which creates a stable source of funding for open space, farmland, and historic preservation and recreation development, and on June 30, 1999, then Gov. Christie Whitman signed into law the Garden State Preservation Trust Act. The Act will allow New Jersey to preserve 1 million acres over the next ten years. The bill establishes, for the first time in history, a stable source of funding for preservation efforts.

Green Acres' primary focus is acquiring land that creates linkages between existing protected lands to form open space corridors. These corridors provide linear habitat for wildlife to move through, parkland for recreation, and areas of scenic beauty between towns and urban centers.

Green Acres is committed to preserving New Jersey's rich natural, historic, and cultural heritage. So far, more than 390,000 acres of conservation and recreation land have been or are being preserved, and hundreds of public parks



have been developed with Green Acres funds. Recreation needs are as diverse as the people who play. To meet these needs, Green Acres funds different types of parks in a variety of settings. Whether in rural, suburban, or urban areas, parks play an important role in sustaining New Jersey's high quality of life.

Increasingly, Green Acres gathers other public and private partners together to assist in buying and managing open space. The Program works with municipal and county governments, nonprofit organizations, and the state Farmland Preservation Program to meet compatible conservation goals. Green Acres also accepts donations of conservation and recreation land to the State. Since the 1980s, private citizens interested in land preservation have donated more than 5,400 acres of land.

The Green Acres Program serves as the real estate agent for the Department of Environmental Protection (DEP), acquiring land - much of which has been offered for sale by property owners - that becomes part of the system of state parks, forests, natural areas, and wildlife management areas. Green Acres works with the DEP's divisions of Parks and Forestry, Fish and Wildlife, and the New Jersey Natural Lands Trust to determine which lands should be preserved. Green Acres does not own the land it acquires; instead land is assigned to the divisions for management.

The Program's Appraisal Review Section guides applicants through the real estate appraisal process, reviews appraisals, and certifies the market value of property included in local government, **nonprofit and** state acquisition projects, and in requests for diversions of land from recreation or conservation use.

Green Acres administers the \$15 million in "Inland Blue Acres" funds. This money it's being used for state acquisition of flood prone lands in the Passaic River basin. The new plans and approved funds will be found at:

www.nj.gov/dep/greeacres/

3.4.4: Statewide Building Codes

The Department of Community Affairs has adopted building codes that address different hazards that affect New Jersey. The State has adopted the 2000 International Building Code (IBC) and the 2000 International Residential Code (IRC) modified to comply with State laws. These address the construction of new buildings and their relationship to weather-related and geological hazards.

**Table 3.4-1
Natural Hazards/Building Codes**

	Hazard	IBC Code
Geological	Sinkholes and landslides	The current Building Sub code provides requirements for soils investigations before a building is designed that addresses these issues.
	<i>Earthquakes</i>	The current Building Sub code provides requirements for soils investigations before a building is designed that addresses these issues.
Meteorological	<i>High Wind</i>	The Building Sub code and the One and Two Family Sub code (IBC and IRC 2000, New Jersey edition) has the latest wind maps and requires new buildings to be designed and constructed using these current values. In the years since the Uniform Construction Code was adopted, the requirements for building construction has been changed to address the current requirements concerning wind pressure requirements.
	<i>Flooding</i>	The IBC and IRC 2000, New Jersey Edition, requires new buildings to be designed and constructed to comply with the most recent requirements concerning construction in a flood hazard area (A and V zones).
	<i>Wave Action</i>	Under the IBC and IRC 2000, New Jersey requires new buildings to be designed and constructed to comply with the most recent requirements concerning construction in a



	Hazard	IBC Code
		flood (velocity) hazard area (coastal V zones).
	<i>Drought</i>	The Plumbing Sub code and the Energy Sub code of the Uniform Construction Code provide water conservation standards.
Manmade	<i>Conflagration (Fire)</i>	The Uniform Construction Code provides for fire safety through the Building Sub code. The requirements for combustibility/non-combustibility, suppression, ratings of exterior walls, etc. address this area. New Jersey fire departments that report to the Division of Fire Safety use a National reporting system, developed by the Federal Government, referred to as N.F.I.R.S. 5.0 (National Fire Incident Reporting System). This system captures information regarding fire department responses to emergencies in the community. The benefit of this system is that the information collected is "all-incident," not just fire related, giving a computer generated statistically accurate picture of to which hazards the fire service responds. Additionally, this system provides the SHMT the ability to address trends in urban and wildland fires. Not all fire departments in New Jersey report fires using NFIRS. About 60-70% of fire departments submit incident reports to the Division of Fire Safety.
	<i>Energy</i>	The Uniform Construction Code provides for energy conservation through the adoption of the Energy Sub code. Further, the code officials in the State of New Jersey receive continuing education for all new code requirements and all other aspects of the adopted codes.

More information on the New Jersey State Department of Community Affairs Building Code Programs can be found at their web site at:

www.state.nj.us/dca

3.4.5: Hurricane Programs

The NJOEM, in conjunction with the FEMA Region II, the New Jersey Department of Environmental Protection, the National Weather Service and the U.S. Army Corps of Engineers Philadelphia District, has completed a technical data report entitled "New Jersey Hurricane Evacuation Study 1992". This study has been reviewed by interested parties and the data is being used to increase the State's preparedness levels. This comprehensive report contains data quantifying the major factors involved in hurricane evaluation decision-making. Proper use of this study will permit each county to update and revise hurricane evacuation plans and operational procedures. More information on the New Jersey State Office of Emergency Management Hurricane Program Coordination can be found at their web site at:

www.state.nj.us/njoem .

3.4.6: State Transportation Improvement Plan Flood Mitigation Projects

Over recent years, approximately \$2 billion per year has been spent on transportation projects. Along with state investments, transportation programs rely substantially on capital financing provided by the federal government. The state's Transportation Trust Fund (TTS) and the Federal Transportation Equity Act for the 21st Century (TEA-21) primarily provide funding for transportation projects. TEA-21 also established a nationwide pilot program to help communities reconcile land use and transportation decision-making, which includes opportunities to integrate hazard mitigation in both transportation and land use planning and projects.



The Department of Transportation works closely with the three Metropolitan Planning Agencies (Mops) in New Jersey. Projects using Federal funding are first approved through the State Transportation Improvement Plan (STEP) as a result of discussions between the Department and the MOP. Once federal funding is approved the project is moved into the planning phase. The Department planning process begins with the submission of a "Problem Statement", which can come from any number of sources. Highway infrastructure repetitive issues and losses are rolled into the NJDOT Drainage Management System and are dealt with through the NJDOT Capital Program or Maintenance Repair Contracts. In either case project execution is dependent on annual funding allocations. During the planning and scoping processes for each project, whether State, Interstate, Freeway, or Land Service, flooding mitigation reviews are implemented up to the 100-year storm. These mitigation efforts include but are not limited to, expanded drainage system, enlarged drainage system, retention/detention basins and vortex chambers.

An example of NJDOT mitigation efforts is the replacement of the New Jersey Route 72 Bridge in Ocean County. This existing bridge is the only egress from Long Beach Island and is recognized as a vulnerable area for that reason. Working within the NJDOT, the Offices of Design and of Emergency Management are providing mitigation efforts in the planning of the new bridge with the addition of a pumping station immediately on entering the island. The project remains several years "out" in the capital budget at this time.

NJDOT maintenance, Traffic Operations Centers and office buildings have historically not sustained repetitive losses due to flooding or natural hazards.

More information on the New Jersey State Department of Transportation can be found at their web site at:
www.nj.gov/transportation/

3.4.7: Reserved for Future Use

3.4.8: Tidal Gauge Monitoring

As a method of pre-emptive mitigation, the USGS has put in place a series of tidal gauges recording real time information that is transmitted directly to the USGS and the Weather Service. These gauges are located along the coast of the Delaware Bay and River and are used by DOT and NJOEM to follow tidal changes before and during a weather event. Due to budget constraints through, DOT will no longer fund the monitoring and maintenance. Due to a coordinated effort, NJOEM was given notice of the DOT lack of funding in advance and was able to offset the closing of the program due to lack of funds. The New Jersey Association for Floodplain Management and the New Jersey League of Municipalities is presently working with the State legislature to find a secure and permanent source of funding for this program. More information on the USGS can be found at their web site at:

www.state.nj.us/njoem

3.4.9: State of New Jersey Water Emergency Plan

The State of New Jersey Water Emergency Plan approved in 2002 guides the necessary actions to be taken in response to a potential water shortage situation or water shortage emergency pursuant to the Water Supply Management Act and the Emergency Management Act. It describes the responsibilities of the New Jersey Department of Environmental Protection under the Water Supply Management Act with respect to the State's water supply in such an emergency and serves as a supplement to the State Emergency Operations Plan. More information on the New Jersey State DEP can be found at their web site at:

www.state.nj.s/dep/



3.4.10: NJDEP Dam Safety Program

The purpose of the Dam Safety program is to minimize the possibility of a dam failure and to mitigate the effects of dam failures that do occur. A dam failure on a sunny day can cause major floor damage and a dam failure during a general flood event can greatly increase flood damage.

The Division of Engineering and Construction, Dam Safety Program published Dam Safety Standards, N.J.A.C. 7:20. Under N.J.A.C. 7:20-1.4, General Requirements and Prohibitions, subsection (g) states: "The Department may deny any application for a dam permit, based upon its conclusion that the construction or operation of a dam will cause an unacceptable threat to or impact on natural or cultural resources or the environment".

N.J.A.C. 7:20-1.7 Application Stage, subsection (f), states: "All applicants must submit an Operation and Maintenance Manual in accordance with N.J.A.C. 7:20-1.1 and applicants for Class I and II dams (see N.J.A.C. 7:20-1.8) shall prepare and submit an Emergency Action Plan which shall at least include a Dam Breach Analysis, Inundation Maps and Emergency Notification and Evacuation Plans." The NJDEP developed Guidelines For Developing An Emergency Action Plan, on file at NJOEM, to assist dam owners in the preparation of an emergency action plan.

In 1912 the legislature of the State of New Jersey instituted laws relating to the construction, repair, and inspection of existing and proposed dams. The law was amended in 1981 and became known as the Safe Dam Act. New Jersey's Dam Safety program is administered by the Department of Environmental Protection, Division of Engineering and Construction, Bureau of Dam Safety and Flood Control, under rules and regulations promulgated in May 1985 known as the Dam Safety Standards

In New Jersey, a dam is any artificial barrier, together with appurtenant works that raise the waters of a stream more than five feet above the usual mean low water height. The Bureau of Dam Safety and Flood Control reviews plans and specifications for the construction of new dams, or for the alteration, repair or removal of existing dams and must grant approval before the owner can proceed with caution. All applicants must submit an Operation and Maintenance Manual and applicants for Class I and II dams must prepare and submit an Emergency Action Plan.

The New Jersey Office of Emergency Management maintains a number of published plans and procedures to facilitate coordination in hazard preparedness, response, recovery and mitigation (see below). Many of these plans are prepared and maintained through interdepartmental efforts. More information on the New Jersey State Dam Safety Program can be found at their web site at:

www.state.nj.us/dep/

3.4.11: Other State Agency Plans Guiding Mitigation Actions

1. State of New Jersey Emergency Operations Plan, March 2005, New Jersey Office of Emergency Management sets guidance and policies for State departments and agencies, counties and municipalities in the development of emergency plans and sets procedures in their support of state emergency management activities.
2. Winter Storm Procedures, January 2005, NJ Office of Emergency Management. This procedure describes the actions necessary to properly respond to and manage a winter storm event from the state Emergency Operations Center.
3. Reverse 911 Procedures, August 2004, NJ Office of Emergency Management. This plan sets guidance policies and procedures for notification by telephone of residents of selected areas of impending or actual events that may affect life and safety



4. Hurricane Procedures, July 2004, NJ Office of Emergency Management. This procedure describes the actions necessary to properly respond to and manage a hurricane event from the state Emergency Operations Center.
5. State Warning Plan, June 2004, NJ Office of Emergency Management. The purpose of this plan is to alert the affected segments of a given population to have them take specific protective action.
6. Emergency Alert System Operational Plan, June 2001, NJ Office of Emergency Management. This plan provides direction and control for the NJ state emergency communications committee of the emergency alert system in accordance with the rules, regulations and policies of the Federal Communications Commission.

3.5: Integration into other FEMA Mitigation Programs and Initiatives

The NJOEM and the State Hazard Mitigation Officer are responsible for educating local officials and emergency managers, disseminating current information and reviewing and administering many of the mitigation grant programs that FEMA offers. In this capacity, NJOEM works closely with FEMA to understand the grant requirements and utilize on-line and in-person training that FEMA provides. Effective communication with FEMA Region II in support of further educating NJ communities to the grant opportunities, applications and obligations as well as obtain guidance to help facilitate grant application is essential. .

Additional information on Specific FEMA program can be found in Section 2.2.2; in Appendix H ; and in subject specific NJOEM Handouts as fact sheets that NJOEM provides to explain the various grant opportunities.

3.5.1: Public Assistance

The objective of the Federal Emergency Management Agency's (FEMA) Public Assistance (PA) Grant Program is to provide assistance to State, Tribal and local governments, and certain types of Private Nonprofit organizations so that communities can quickly respond to and recover from major disasters or emergencies declared by the President.

Through the PA Program, FEMA provides supplemental Federal disaster grant assistance for debris removal, emergency protective measures, and the repair, replacement, or restoration of disaster-damaged, publicly owned facilities and the facilities of certain Private Non-Profit (PNP) organizations. The PA Program also encourages protection of these damaged facilities from future events by providing assistance for hazard mitigation measures during the recovery process.

The Federal share of assistance is not less than 75% of the eligible cost for emergency measures and permanent restoration. The grantee (usually the State) determines how the non-Federal share (up to 25%) is split with the sub-grantees (eligible applicants).

3.5.2: National Flood Insurance Program (NFIP) and Community Rating System (CRS)

The NFIP is administered by the NFIP Coordinator within the NJ Department of Environmental Protection. The NFIP Coordinator works closely with NJOEM on all NFIP issues, since eligibility for pre- and post-disaster programs relies on participation in the program. The three components of the program are: flood insurance, floodplain management, and flood hazard mapping. The NFIP makes federally backed flood insurance available to homeowners, renters, and business owners in the participating communities. Community participation in the NFIP is voluntary. Gaining municipality participation in the NFIP and encouraging property owners to purchase flood insurance significantly



reduces disaster costs. Together these programs systematically reduce flood exposure to people and their property. Of the 566 municipalities in NJ, there are 549 participating in the NFIP. The NFIP Coordinator works closely with FEMA to educate or inform communities of their responsibilities

Also, the National Flood Insurance Program's Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance.

For CRS participating communities, flood insurance premium rates are discounted in increments of 5%; i.e., a Class 1 community would receive a 45% premium discount, while a Class 9 community would receive a 5% discount (a Class 10 is not participating in the CRS and receives no discount). The CRS classes for local communities are based on 18 creditable activities, organized under four categories:

- (i) Public Information,
- (ii) Mapping and Regulations,
- (iii) Flood Damage Reduction, and
- (iv) Flood Preparedness..

More information on the NFIP and CRS can be found at their web site at:
FEMA.Gov

3.5.3: Flood Mitigation Assistance Program (FMA)

Although the NFIP is administered by NJDEP, the FMA program is the responsibility of NJOEM. NJOEM works with the SHMT to identify prioritize and implement FMA programs. There are three types of grants available under FMA: Planning, Project, and Technical Assistance Grants. FMA Planning Grants are available to States and communities to prepare Flood Mitigation Plans. NFIP participating communities with approved Flood Mitigation Plans can apply for FMA Project Grants. FMA Project Grants are available to States and NFIP participating communities to implement measures to reduce flood losses. Ten percent of the Project Grant is made available to States as a Technical Assistance Grant. These funds may be used by the State to help administer the program. Communities receiving FMA Planning and Project Grants must be participating in the NFIP. The program requires a 75/25 cost share.

More information on the FMA can be found at their web site at
www.fema.gov/government/grant/fma/index.shtm

3.5.4: Hazard Mitigation Grant Program (HMGP)

HMGP is authorized under Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act. The HMGP, administered by FEMA, provides grants to States and local governments to implement long-term hazard mitigation measures after a federal disaster declaration. The purpose of the program is to reduce the loss of life and property due to natural disasters and to enable mitigation measures to be implemented during the immediate recovery from a disaster. The Program requires a 75/25 cost-share. The SHMT reviews all applications. The SHMT will review, select, and prioritize applications for potential projects.

Hazard mitigation planning is an important aspect of a successful mitigation program. A fundamental component of the DMA2K is the emphasis on planning. The State is eligible for up to 15% of the overall federal disaster expenditures if the State has an approved Standard All Hazards Mitigation Plan. Hazard mitigation planning is a



collaborative process whereby hazards affecting the community are identified, vulnerability to the hazards is assessed, and consensus reached on how to minimize or eliminate the effects of these hazards.

More information on the HMGP can be found at their web site at
www.fema.gov/government/grant/hmgp/index.shtm

3.5.5: Pre-Disaster Mitigation Program (Competitive) (PDM-C)

PDM is authorized by §203 of the Robert T. Stafford Disaster Assistance and Emergency Relief Act (Stafford Act), 42 USC, as amended by §102 of DMA2K. Funding for the program is provided through the National Pre-Disaster Mitigation Fund to assist States and local governments in implementing cost-effective hazard mitigation activities that complement a comprehensive mitigation program. All applicants must be participating in the NFIP if they have been identified as having a Special Flood Hazard Area. In addition, the community must not be suspended or on probation from the NFIP. The NJOEM works directly with the FEMA Region II program coordinator to develop and submit projects and plans for funding consideration. 44 CFR Part 201, Hazard Mitigation Planning, establishes criteria for State and local hazard mitigation planning authorized by §322 of the Stafford Act, as amended by §104 of the DMA.

After November 1, 2003, local governments and Indian Tribal governments applying for PDM funds through the States need to have an approved local mitigation plan prior to the approval of local mitigation project grants. States are also required to have an approved Standard State mitigation plan in order to receive PDM funds for State or local mitigation projects after November 1, 2004. Therefore, the development of State and local multi-hazard mitigation plans is key to maintaining eligibility for future PDM funding. NJOEM mitigation staff works with local jurisdictions to develop projects for potential PDM funding.

More information on the PDM-C can be found at their web site at
www.fema.gov/government/grant/pdm/index.shtm

3.5.6: Severe Repetitive Loss Grant Program (SRL)

Early in 2008 FEMA initiated the Severe Repetitive Loss Grant Program, which makes available mitigation grant funds to reduce losses to a high-risk subset of NFIP repetitive loss properties. In addition to these funds being available through a new, dedicated source, the program also offers an improved 90/10 federal/non-federal cost share when certain conditions are met. These are described in detail in Appendix G of the 2008 NJ HMP.

More information on the SRL can be found at their web site at
www.fema.gov/government/grant/srl/index.shtm

3.5.7: Repetitive Flood Claims Program (RFC)

The Repetitive Flood Claims (RFC) grant program is designed to reduce or eliminate the long-term risk of flood damage to structures that are insured under the National Flood Insurance Program (NFIP) and have had one or more claim payment(s) for flood damages. RFC funds may only be used to mitigate structures located within a State or community that is participating in the NFIP and cannot meet the requirements of the Flood Mitigation Assistance (FMA) program due to lack of state or local capacity, which includes either inability to manage the sub-grant or lack of 25% non-Federal cost share.

The goal of the RFC grant program is to reduce or eliminate long-term flood risks through mitigation activities that are in the best interest of the National Flood Insurance Fund. The RFC grants are awarded to Applicants on a



nationwide basis without reference to State allocations, quotas, or other formula-based allocations. All grants are eligible for up to 100 percent Federal assistance.

Eligible mitigation activities include acquisition of properties and either demolition or relocation of flood-prone structures, where the property is deed restricted for open space uses in perpetuity. Awards will be further prioritized to fund acquisitions that create the greatest amount of savings to the NFIP based on a benefit-cost analysis. A FEMA-approved State standard or enhanced hazard is required.

More information on the RFC program can be found at their web site at
www.fema.gov/government/grant/rfc/index.shtm

3.5.8: Fire Management Assistance Grants (FMAG)

Fire Management Assistance is available to the State for the mitigation, management, and control of fires on publicly or privately owned forests or grasslands, which threaten such destruction as would constitute a major disaster. The Fire Management Assistance declaration process is initiated when a State submits a request for assistance to the FEMA Regional Director at the time a "threat of major disaster" exists. The entire process is accomplished on an expedited basis and a FEMA decision is rendered in a matter of hours. The Fire Management Assistance Grant Program (FMAGP) provides a 75 percent Federal cost share and the State pays the remaining 25 percent for actual costs. Before a grant can be awarded, a State must demonstrate that total eligible costs for the declared fire meet or exceed either the individual fire cost threshold - which applies to single fires, or the cumulative fire cost threshold, which recognizes numerous smaller fires burning throughout a State. Eligible firefighting costs may include expenses for field camps; equipment use, repair and replacement; tools, materials and supplies; and mobilization and demobilization activities.

More information on the FMAG program can be found at their web site at
www.fema.gov

3.5.9: Emergency Management Performance Grant (EMPG)

Emergency Management Performance Grant funding is available to the State of New Jersey to educate people and protect lives and structures from natural and technical hazards. The grant is to encourage the development of comprehensive emergency management, including terrorism consequence management, at the State and local level and to improve emergency management planning, preparedness, mitigation, response and recovery capabilities.

More information on the EMPG program can be found at their web site at
www.fema.gov

3.5.10: Other Federal Funding Assistance

This summary of available federal programs relates to mitigation planning and may provide possible sources of funding or technical support for mitigation initiatives. **Note:** The information below was included in the Hudson and Cape May Counties All Hazard Plans prepared by the consulting Firm of Tetra Tech.



Program/Activity	Type of Assistance	Agency and Contact
B a s i c a n d A p p l i e d R e s e a r c h / D e v e l o p m e n t		
Center for Integration of Natural Disaster Information	Technical Assistance: Develops and evaluates technology for information integration and dissemination	Department of Interior (DOI) US Geological Survey (USGS) Center for Integration of Natural Hazards Research: (703) 648-6059 hazinfo@usgs.gov
Hazard Reduction Program	Funding for research and related educational activities on hazards.	National Science Foundation (NSF), Directorate for Engineering Division of Civil and Mechanical Systems Hazard Reduction Program: (703) 306-1360
Decision, Risk, and Management Science Program	Funding for research and related educational activities on risk, perception, communication, and management (primarily technological hazards)	National Science Foundation (NSF), Directorate for Social, Behavioral and Economic Science, Division of Social Behavioral and Economic Research, Decision, Risk, and Management Science Program (DRMS): (703) 306-1757 www.nsf.gov/sbe/drms/start.htm
Societal Dimensions of Engineering, Science, and Technology Program	Funding for research and related educational activities on topics such as ethics, values, and the assessment, communication, management and perception of risk	National Science Foundation (NSF), Directorate for Social, Behavioral and Economic Science, Division of Social, Behavioral and Economic Research Societal Dimensions of Engineering, Science and Technology Program: (703) 306-1743
National Earthquake Hazard Reduction Program (NEHRP) in Earth Sciences	Research into basic and applied earth and building sciences.	National Science Foundation (NSF), Directorate for Geosciences, Division of Earth Sciences: (703) 306-1550
T e c h n i c a l a n d P l a n n i n g A s s i s t a n c e		
Planning Assistance to States	Technical and planning assistance for the preparation of comprehensive plans for the development, utilization, and conservation of water and related land resources.	Department of Defense (DOD) US Army Corps of Engineers (USACE) - North Atlantic Regional Office (212) 264-7813



Program/Activity	Type of Assistance	Agency and Contact
Disaster Mitigation Planning and Technical Assistance	Technical and planning assistance grants for capacity building and mitigation project activities focusing on creating disaster resistant jobs and workplaces.	FEMA * See below for contact information Department of Commerce (DOC) Economic Development Administration (EDA): (800) 345-1222 Disaster Recovery Coordinator: (202) 482-6225 www.doc.gov/eda
Watershed Surveys and Planning	Surveys and planning studies for appraising water and related resources, and formulating alternative plans for conservation use and development. Grants and advisory/counseling services to assist w/ planning and implementation improvement.	US Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Watersheds and Wetlands Division: (202) 720-4527 Deputy Chief for Programs: (202) 690-0848 www.nrcs.usda.gov
National Flood Insurance Program	Formula grants to States to assist communities to comply with NFIP floodplain management requirements (Community Assistance Program).	FEMA * See below for contact information
Emergency Management / Mitigation Training	Training in disaster mitigation, preparedness, planning.	FEMA * See below for contact information
National Dam Safety Program	Technical assistance, training, and grants to help improve State dam safety programs.	FEMA * See below for contact information
National Earthquake Hazards Reduction Program	Training, planning and technical assistance under grants to States or local jurisdictions.	FEMA – See below for contact information Department of Interior (DOI) US Geological Survey (USGS) Earthquake Program Coordinator: (703) 648-6785
Volcano Hazards Program	Technical assistance: Volcano hazard warnings and operation of four volcano observatories to monitor and assess volcano hazard risk.	Department of Interior (DOI) US Geological Survey (USGS) Volcanic Hazards Program Coordinator: (703) 648-6708 (650) 329-5228
Floodplain Management Services	Technical and planning assistance at the local, regional, or national level needed to support effective floodplain management.	Department of Defense (DOD) US Army Corps of Engineers (USACE) - North Atlantic Regional Office (212) 264-7813



Program/Activity	Type of Assistance	Agency and Contact
Watershed Protection and Flood Prevention Program	Technical and financial assistance for installing works of improvement to protect, develop, and utilize land or water resources in small watersheds under 250,000 acres.	US Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Director, Watersheds and Wetlands Division: (202) 720-3042 (202) 690-4614 www.nrcs.usda.gov
Environmental Quality Incentives Program (EQIP)	Technical, educational, and limited financial assistance to encourage environmental enhancement.	USDA-NRCS – See above
National Earthquake Hazard Reduction Program	Technical and planning assistance for activities associated with earthquake hazards mitigation.	FEMA – See below for contact information Department of Interior (DOI) US Geological Survey (USGS) Earthquake Program Coordinator: (703) 648-6785
H a z a r d I d e n t i f i c a t i o n A n d M a p p i n g		
National Flood Insurance Program: Flood Mapping	Flood insurance rate maps and flood plain management maps for all NFIP communities;	FEMA * See below for contact information
National Flood Insurance Program: Technical Mapping Advisory Council	Technical guidance and advice to coordinate FEMA's map modernization efforts for the National Flood Insurance Program.	Department of Interior (DOI) US Geological Survey (USGS) National Mapping Division: (573) 308-3802
National Digital Orthophoto Program	Develops topographic quadrangles for use in mapping of flood and other hazards.	Department of Interior (DOI) US Geological Survey (USGS) National Mapping Division: (573) 308-3802
Stream gauging and Flood Monitoring Network	Operation of a network of over 7,000 stream gauging stations that provide data on the flood characteristics of rivers.	Department of Interior (DOI) US Geological Survey (USGS) Chief, Office of Surface Water, USGS: (703) 648-5303
Mapping Standards Support	Expertise in mapping and digital data standards to support the National Flood Insurance Program.	Department of Interior (DOI) US Geological Survey (USGS) USGS – National Mapping Division: (573) 308-3802



Program/Activity	Type of Assistance	Agency and Contact
Soil Survey	Maintains soil surveys of counties or other areas to assist with farming, conservation, mitigation or related purposes.	US Department of Agriculture (USDA) National Resources Conservation Service (NRCS) Deputy Chief for Soil Science and Resource Assessment: (202) 720-4630
National Earthquake Hazards Reduction Program	Seismic mapping for U.S.	Department of Interior (DOI) US Geological Survey (USGS) Earthquake Program Coordinator: (703) 648-6785
P r o j e c t S u p p o r t		
Aquatic Ecosystem Restoration	Direct support for carrying out aquatic ecosystem restoration projects that will improve the quality of the environment.	Department of Defense (DOD) US Army Corps of Engineers (USACE) - North Atlantic Regional Office (212) 264-7813
Beneficial Uses of Dredged Materials	Direct assistance for projects that protect, restore, and create aquatic and ecologically related habitats, including wetlands, in connection with dredging an authorized Federal navigation project.	Department of Defense (DOD) US Army Corps of Engineers (USACE) North Atlantic Regional Office (212) 264-7813
Wetlands Protection – Development Grants	Grants to support the development and enhancement of State and tribal wetlands protection programs.	US Environmental Protection Agency (EPA) EPA Wetlands Hotline: (800) 832-7828 Or EPA Headquarters, Office of Water Chief, Wetlands Strategies and State Programs: (202) 260-6045
Clean Water Act Section 319 Grants	Grants to States to implement non-point source programs, including support for non-structural watershed resource restoration activities.	US Environmental Protection Agency (EPA) Office of Water Chief, Non-Point Source Control Branch: (202) 260-7088, 7100
Coastal Zone Management Program	Grants for planning and implementation of non-structural coastal flood and hurricane hazard mitigation projects and coastal wetlands restoration.	Department of Commerce DOC National Oceanic and Atmospheric Administration (NOAA) National Ocean Service Office of Ocean and Coastal Resource Management Chief, Coastal Programs Division: (301) 713-3102



Program/Activity	Type of Assistance	Agency and Contact
Community Development Block Grant (CDBG) State Administered Program	Grants to States to develop viable communities (e.g., housing, a suitable living environment, expanded economic opportunities) in non-entitled areas, for low- and moderate-income persons.	Department of Housing and Urban Development (HUD) State CDBG Program Manager Or State and Small Cities Division, Office of Block Grant Assistance, HUD Headquarters: (202) 708-3587
Community Development Block Grant Entitlement Communities Program	Grants to entitled cities and urban counties to develop viable communities (e.g., decent housing, a suitable living environment, expanded economic opportunities), principally for low- and moderate-income persons.	Department of Housing and Urban Development (HUD) City and county applicants should call the Community Planning and Development staff of their appropriate HUD field office. As an alternative, they may call the Entitlement Communities Division, Office of Block Grant Assistance, HUD Headquarters: (202) 708-1577, 3587
Emergency Watershed Protection Program	Provides technical and financial assistance for relief from imminent hazards in small watersheds, and to reduce vulnerability of life and property in small watershed areas damaged by severe natural hazard events.	US Department of Agriculture (USDA) National Resources Conservation Service (NRCS) National Office – (202) 690-0848 Watersheds and Wetlands Division: (202) 720-3042
Rural Development Assistance -- Utilities	Direct and guaranteed rural economic loans and business enterprise grants to address utility issues and development needs.	US Department of Agriculture (USDA) Rural Utilities Service (RUS) Program Support: (202) 720-1382 Northern Regional Division: (202) 720-1402 Electric Staff Division: (202) 720-1900 Power Supply Division: (202) 720-6436
Rural Development Assistance – Housing	Grants, loans, and technical assistance in addressing rehabilitation, health and safety needs in primarily low-income rural areas. Declaration of major disaster necessary.	US Department of Agriculture (USDA) -Rural Housing Service (RHS) Community Programs: (202) 720-1502 Single Family Housing: (202) 720-3773 Multi Family Housing: (202) 720-5177
Flood Mitigation Assistance (Previously described)	Grants to States and communities for pre-disaster mitigation to help reduce or eliminate the long-term risk of flood damage to structures insurable under the National Flood Insurance Program.	FEMA * See below for contact information



Program/Activity	Type of Assistance	Agency and Contact
Hazard Mitigation Grant Program (Previously described in 2.3.2.3)	Grants to States and communities for implementing long-term hazard mitigation measures following a major disaster declaration.	FEMA * See below for contact information
Public Assistance Program (Infrastructure) (Previously described in 2.3.2.2)	Grants to States and communities to repair damaged infrastructure and public facilities, and help restore government or government-related services. Mitigation funding is available for work related to damaged components of the eligible building or structure.	FEMA * See below for contact information
National Flood Insurance Program (Previously described)	Makes available flood insurance to residents of communities that adopt and enforce minimum floodplain management requirements.	FEMA * See below for contact information
HOME Investments Partnerships Program	Grants to States, local government and consortia for permanent and transitional housing (including support for property acquisition and rehabilitation) for low-income persons.	Department of Housing and Urban Development (HUD) Community Planning and Development Grant Programs, Office of Affordable Housing HOME Investment Partnership Programs: (202) 708-2685 (202) 708 0614 extension 4594 1-800-998-9999
Disaster Recovery Initiative	Grants to fund gaps in available recovery assistance after disasters (including mitigation).	Department of Housing and Urban Development (HUD) Community Planning and Development Divisions in their respective HUD field offices or HUD Community Planning and Development: (202) 708-2605
Non-Structural Alternatives to Structural Rehabilitation of Damaged Flood Control Works	Direct planning and construction grants for non-structural alternatives to the structural rehabilitation of flood control works damaged in floods or coastal storms.	Department of Defense (DOD) US Army Corps of Engineers (USACE) – North Atlantic Regional Office (212) 264-7813



Program/Activity	Type of Assistance	Agency and Contact
Partners for Fish and Wildlife	Financial and technical assistance to private landowners interested in pursuing restoration projects affecting wetlands and riparian habitats.	Department of Interior (DOI) Fish and Wildlife Service (FWS) National Coordinator, Ecological Services: (703) 358-2201 A list of State and Regional contacts is available from the National Coordinator upon request.
Project Modifications for Improvement of the Environment	Provides for ecosystem restoration by modifying structures and/or operations or water resources projects constructed by the USACE, or restoring areas where a USACE project contributed to the degradation of an area.	Department of Defense (DOD) US Army Corps of Engineers (USACE) - See below for contact information
Post-Disaster Economic Recovery Grants and Assistance	Grant funding to assist with the long-term economic recovery of communities, industries, and firms adversely impacted by disasters.	Department of Commerce (DOC) Economic Development Administration (EDA) EDA Headquarters Disaster Recovery Coordinator: (202) 482-6225
Public Housing Modernization Reserve for Disasters and Emergencies	Funding to public housing agencies for modernization needs resulting from natural disasters (including elevation, flood proofing, and retrofit).	Department of Housing and Urban Development (HUD) Director, Office of Capital Improvements: (202) 708-1640
Land Protection	Technical assistance for run-off retardation and soil erosion prevention to reduce hazards to life and property.	S Department of Agriculture (USDA) National Resources Conservation Service (NRCS) (202) 720-4527
North American Wetland Conservation Fund	Cost-share grants to stimulate public/private partnerships for the protection, restoration and management of wetland habitats.	Department of the Interior (DOI) Fish and Wildlife Service (FWS) North American Waterfowl and Wetlands Office: (703) 358-1784
Land Acquisition	Acquires or purchases easements on high-quality lands and waters for inclusion into the National Wildlife Refuge System.	Department of the Interior (DOI) Fish and Wildlife Service (FWS) Division of Realty, National Coordinator: (703) 358-1713



Program/Activity	Type of Assistance	Agency and Contact
Federal Land Transfer / Federal Land to Parks Program	Identifies, assesses, and transfers available Federal real property for acquisition for State and local parks and recreation, such as open space.	Department of the Interior (DOI) National Park Service (NPS) General Services Administration Offices Fort Worth, TX: (817) 334-2331 Boston, MA: (617) 835-5700 Or Federal Lands to Parks Leader NPS National Office: (202) 565-1184
Wetlands Reserve Program	Financial and technical assistance to protect and restore wetlands through easements and restoration agreements.	Department of Agriculture (USDA) National Resources Conservation Service (NRCS) National Policy Coordinator NRCS Watersheds and Wetlands Division: (202) 720-3042
Transfers of Inventory Farm Properties to Federal and State Agencies for Conservation Purposes	Transfers title of certain inventory farm properties owned by FSA to Federal and State agencies for conservation purposes (including the restoration of wetlands and floodplain areas to reduce future flood potential)	US Department of Agriculture (USDA) Farm Service Agency (FSA) Farm Loan Programs National Office: (202) 720-3467, 1632
F i n a n c i n g a n d L o a n G u a r a n t e e s		
Physical Disaster Loans and Economic Injury Disaster Loans	Disaster loans to non-farm, private sector owners of disaster damaged property for uninsured losses. Loans can be increased by up to 20 percent for mitigation purposes.	Small Business Administration (SBA) National Headquarters Associate Administrator for Disaster Assistance (202) 205-6734
Conservation Contracts	Debt reduction for delinquent and non-delinquent borrowers in exchange for conservation contracts placed on environmentally sensitive real property that secures FSA loans.	US Department of Agriculture (USDA) Farm Service Agency (FSA) Farm Loan Programs FSA National Office: (202) 720-3467, 1632 or local FSA office
Clean Water State Revolving Funds	Loans at actual or below-market interest rates to help build, repair, relocate, or replace wastewater treatment plants.	Environmental Protection Agency (EPA) EPA Office of Water State Revolving Fund Branch Branch Chief: (202) 260-7359 A list of Regional Offices is available upon request



Program/Activity	Type of Assistance	Agency and Contact
Section 108 Loan Guarantee Program	Loan guarantees to public entities for community and economic development (including mitigation measures).	Department of Housing and Urban Development (HUD) Community Planning and Development staff at appropriate HUD field office, or the Section 108 Office in HUD Headquarters: (202) 708-1871
Section 504 Loans for Housing	Repair loans, grants and technical assistance to very low-income senior homeowners living in rural areas to repair their homes and remove health and safety hazards.	US Department of Agriculture (USDA) Rural Housing Service (RHS) Contact local RHS Field Office Or RHS Headquarters, Director, Single Family Housing Direct Loan Division: (202) 720-1474
Section 502 Loan and Guaranteed Loan Program	Provides loans, loan guarantees, and technical assistance to very low and low-income applicants to purchase, build, or rehabilitate a home in a rural area.	US Department of Agriculture (USDA) Rural Housing Service (RHS) Contact the Local RHS Field Office Or Director, Single Family Housing Guaranteed Loan Division, RHS: (202) 720-1452
Rural Development Assistance -- Utilities	Direct and guaranteed rural economic loans and business enterprise grants to address utility issues and development needs.	USDA-Rural Utility Service (RUS) Contact Rural Development Field Offices, or RHS, Deputy Administrator, Community Programs Division: (202) 720-1490
Farm Ownership Loans	Direct loans, guaranteed / insured loans, and technical assistance to farmers so that they may develop, construct, improve, or repair farm homes, farms, and service buildings, and to make other necessary improvements.	US Department of Agriculture (USDA) Farm Service Agency (FSA) Director, Farm Programs Loan Making Division, FSA: (202) 720-1632



* FEMA Contact Information

<p>FEMA Headquarters Federal Emergency Management Agency 500 C Street S.W. Washington, D.C. 20472 Telephone: 1 (202) 646-2500</p>	<p>FEMA Region 2 Federal Emergency Management Agency 26 Federal Plaza, Suite 1337 New York, NY 10278-0002 External Affairs Information Desk: (212) 680-8516 Mitigation Information 212-680-3600</p>
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3.6: Incorporation of Local Plans

When the 2005 plan was approved, no local plans had been approved, and therefore there were none to incorporate into the State HMP. Since the April 2008 plan was approved, Lambertville, Little Falls Township and Wayne have developed and adopted local hazard mitigation plans. Section 6 of this updated plan includes an action to review these documents and incorporate germane sections into the State plan as appropriate.

Note: For more information see Table 6.2-1 Status of New Jersey County Hazard Mitigation Plans as of May 2010 and Table 6.2-2 Status of New Jersey Municipal Plans as of May 2010

The State also reviews these plans with the intent of further refining its approach to assisting localities and regions as they develop plans. The SHMO, NJOEM and SHMT have been working with the 21 counties and 566 municipalities to educate community leaders, emergency managers and elected officials about the benefits of a plan, support any requests for assistance in planning and project applications, and providing review and analysis of plans in conjunction with FEMA Region II so that communities understand the requirements for plan approval.

As noted in various other places in the 2008 Plan update, the State has facilitated (and FEMA has funded) numerous grants to support development of local and regional hazard mitigation plans. The grants are shown in the two tables below in Section 6 as Tables 6.2-1 and 6.2-2.

Section 6 (Coordination of Local Planning) includes a more detailed description of NJOEM's plan to incorporate local plans into the State document. The State intends to remain closely engaged with these local and regional entities as they develop plans, to offer technical support, and to ensure that the State and local documents are well integrated. In developing the State HMP, NJOEM has obtained and analyzed a significant amount of technical data, which will be provided to local and regional planners. Part of the technical support that the State will offer includes descriptions of specific methodologies that should be used in vulnerability assessments and loss estimations. The State will also offer to review interim versions of local and regional plans and provide feedback to planners in key subject areas. NJOEM believes this will improve the consistency of the local plans, and make them more easily integrated into the State HMP. NJOEM will also facilitate information sharing among local and regional planners as HMPs are developed over the next two years.