

Section 2: PLANNING PROCESS

2014 SHMP Update

- Meets Requirements §201.4(b) and §201.4(c)(1)
- Planning Process describes the 2014 State Hazard Mitigation Plan (SHMP) Team
- Describes the development of the updated plan
- Incorporates data from 2008 and 2011 SHMPs
- Describes program integration since 2011 SHMP
- Lists the general updates for each section of the 2014 SHMP

"Roadmap" Activity¹

In addition to the long-term and ongoing multi-hazard and hazard-specific strategies identified in this section, and **Section 4**, DHSES will continue to update this section of the plan over the life cycle of the plan in key areas, such as enhancement of stakeholder participation and coordination.

***Requirement §201.4(c)(1):** The State plan **must** include a description of the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how other agencies participated.*

***Requirement §201.4(b):** The State mitigation planning process should include coordination with other State agencies, appropriate Federal agencies and interested groups.*

This Section focuses on the State's mitigation planning process, including the process followed for the 2014 update. **The following topics are addressed in the sub-sections:**

- 2.1 Documentation of the Planning Process
- 2.2 Coordination Among Agencies
- 2.3 Program Integration

2.1 Documentation of the Planning Process

***Requirement §201.4(c)(1):** The State plan **must** include a description of the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how other agencies participated.*

The foundation of the 2014 plan update effort was the 2008 and 2011 FEMA-approved New York State (NYS) Multi-Hazard Mitigation Plan documents. It was determined by the SHMP Team that the update process would focus on the identification and risk assessment

¹ Roadmap Activities are action items to be developed further during the life-cycle of the plan, through the monitoring, evaluation and update process. The comprehensive list of action items can be found in **Sections 2 and 4**.



of natural hazards, assessment of goals and objectives, and current status of mitigation actions across the State. In addition, the update process would provide multiple opportunities for stakeholders to participate in bringing the plan up to date with existing policies, practices, projects and programs.

On October 29, 2012, Hurricane Sandy devastated the State of New York causing a temporary change in focus from day-to-day operations to response and recovery. Recognizing that as a result of time and resource constraints, the process to address the SHMP update timeframe would require an expedited and efficient planning process, the New York State Division of Homeland Security and Emergency Services (DHSES) worked in close coordination with FEMA Region II to initiate a review of the current plan and begin revision for the 2014 plan update.

DHSES serves as the lead agency responsible for the maintenance and update of the SHMP under the direction of the State Hazard Mitigation Officer (SHMO). As lead, the SHMO convened an initial planning meeting on December 7, 2012, with the FEMA Region II Hazard Mitigation Planner, at which time a determination was made that due to the compressed timeframe for plan revision and the upcoming expiration date in early January 2014, the DHSES Mitigation Section would be unable to carry out the plan update internally, and a consultant team would be selected to facilitate the update process and the plan revision.

Adjusters International (AI) was selected as the contractor lead for the 2014 SHMP Team² under the direct supervision of the SHMO and DHSES Mitigation Section staff. The first meeting between the State and AI was held on August 7, 2013, when AI introduced the mitigation planning team to DHSES Mitigation Section staff. The overall goal of this meeting was to present the project work plan, which included tasks, assignments, milestones, and schedule. The work plan addressed the overall planning process, including stakeholder involvement and updates to multiple sections of the plan, such as the risk assessment, capability assessment, and mitigation strategy. Roles were defined for AI, DHSES and stakeholders, which provided the direction and guided the activities of the SHMP Team. In addition, an accelerated stakeholder outreach plan was discussed and approved, and target dates selected for implementation of the outreach plan. (Documentation of this meeting and all planning meetings is included in **Appendix 2**. In addition, **Table 2c** provides dates, attendees and a summary of topics covered at all meetings.)

Initially, the AI consultant group and DHSES Mitigation Section staff reviewed and analyzed each section of the 2011 plan with resulting consensus that each section would be revised and updated to take into consideration recent disaster events and lessons learned, and to meet FEMA requirements. **Specifically, the SHMP Team would evaluate and integrate the following areas:**

² For the 2014 update cycle, the “SHMP Team” includes the SHMO; DHSES Mitigation Section staff; key state and local agencies, private organizations and other interested stakeholders; Disaster Preparedness Commission agency representatives; and the AI Contractor group.



1. Changes in hazard risk, vulnerabilities and losses (including data related to three major storms in 2011 and 2012)
2. Changes in laws, policies, and/or regulations at the state or local levels
3. Changes in State agencies' programs and/or procedures that may affect mitigation programs or administration of funds
4. Changes in state or local capabilities
5. Changes in funding sources
6. Progress on current mitigation actions and consideration of new mitigation actions

The planning roles and tasks exercised to update the plan are described in **Table 2.1a** below.

Table 2.1a: Planning Roles and Tasks

Contractor Roles and Tasks – Adjusters International
<ul style="list-style-type: none"> • Provide technical assistance <ul style="list-style-type: none"> ○ Planning guidance ○ Federal compliance • Data research, collection, and analysis <ul style="list-style-type: none"> ○ Hazard profiles and risk assessment ○ Capability assessment ○ Goals, objectives and activities ○ Summarize results/report findings • Facilitate State Hazard Mitigation Team meetings, webinars, outreach, and surveys • Document the plan update process • Plan preparation
Lead Agency Roles and Tasks – DHSES
<ul style="list-style-type: none"> • Project management <ul style="list-style-type: none"> ○ Central point of contact (Rick Lord, SHMO) ○ Communication and coordination with the State Hazard Mitigation Planning (SHMP) Team and FEMA • Active participation in the planning process <ul style="list-style-type: none"> ○ Data collection and exchange ○ Public awareness and stakeholder involvement ○ Attend SHMP Team meetings ○ Mitigation strategy update ○ Plan review and feedback



Planning Team Roles and Tasks – SHMP Team (Disaster Preparedness Commission, DHSES, FEMA, State and Local agencies, Interested Stakeholders, and the AI Contractor Group)

- **Active participation in the planning process**
 - Data collection and exchange
 - Public awareness and stakeholder involvement
 - Attend SHMP Team meetings and webinars
 - Plan review and feedback
 - Update of current activities and identification of new activities

To initiate the outreach process for the 2014 update, 61 stakeholder agency and organization representatives were first contacted through email and mail. Throughout the update process various activities, including face-to-face meetings, phone calls, webinars, and surveys, provided all entities with multiple opportunities to participate and provide input into the plan update process.

The SHMP Team participated in 35 planning meetings (face-to-face and by phone) between August 2013 and October 2013. The primary purpose of the meetings was to encourage widespread participation in the planning process, but the meetings also served as opportunities to gather information from stakeholders to ensure that the 2014 plan was current and comprehensive.

As part of the update process, two webinars were presented to stakeholder groups. The first webinar was conducted on August 28, 2013, for non-state planning partners (other state, local and regional agencies). The second webinar took place on September 5, 2013, and was targeted to representatives of key state agency planning partners (other DHSES offices, Disaster Preparedness Commission (DPC) representatives, and other state agencies and authorities). During both events, the Mitigation Section and contractor group presented an overview of the SHMP planning process and plan requirements, timeline, and opportunities for input.

To continue outreach to stakeholder agencies and organizations, the SHMP Team followed the webinars by sending email introductions to the planning process, requesting follow-up face-to-face agency meetings to discuss specific hazards, risks, vulnerabilities, and current and potential new actions and activities. In addition, the agency meetings provided an additional opportunity to identify new initiatives, programs, and activities.

A summary of key collaborative agency contacts for the 2014 planning process in comparison to the 2008 and 2011 plan is included in **Table 2.1b**.



Table 2.1b: Participating Agencies by Plan Year

Agency Participation	2008	2011	2014	DPC Member
DHSES NYS Office of Information Technology Services & Critical Infrastructure Coordination (CSCIC)	✓	✓		
DHSES NYS Office of Information and Technology Services (OITS)		✓	✓	✓
DHSES NYS Office of Fire Prevention (OFPC)		✓	✓	✓
Metropolitan Transportation Authority (MTA)	✓	✓	✓	✓
New York Department of State (DOS)	✓	✓	✓	✓
New York State Department of Health (DOH)	✓	✓	✓	✓
NYS Banking and Insurance Department ³	✓	✓		
NYS Bridge Authority	✓	✓		
NYS Department of Agriculture and Markets (NYSDAM)	✓	✓		✓
NYS Department of Education	✓	✓	✓	✓
NYS Department of Environmental Conservation (DEC)	✓	✓	✓	✓
NYS Department of Homeland Security and Emergency Services (DHSES)	✓	✓	✓	✓
NYS Department of Financial Services			✓	✓
NYS Department of Labor (DOL)		✓	✓	✓
NYS Department of Transportation (DOT)	✓	✓	✓	✓
NYS Division of Criminal Justice Services	✓	✓	✓	✓
NYS Division of Housing and Community Renewal (DHCR)	✓	✓		✓
NYS Division of Military & Naval Affairs (DMNA)	✓	✓	✓	✓
NYS Division of State Police	✓	✓	✓	✓
NYS Empire State Development (EDC)	✓	✓	✓	✓
NYS Energy Research and Development Authority (NYSERDA)	✓	✓	✓	✓
NYS Office of Children and Family Services (OCFS)			✓	✓
NYS Department of Corrections and Community Supervision (DOCCS)	✓	✓	✓	✓
NYS Office for People with Developmental Disabilities (OPWDD)			✓	✓
NYS Office of General Services (OGS)	✓	✓	✓	✓
NYS Office of Information Technology Services	✓	✓		

³ As of the 2014 Hazard Mitigation Plan Update the NYS Department of Banking and Insurance is now a part of the Department of Financial Services.



Agency Participation	2008	2011	2014	DPC Member
NYS Office of Mental Health (OMH)	✓	✓	✓	✓
NYS Office of Parks, Recreation and Historic Preservation (OPRHP)	✓	✓	✓	✓
NYS Office of Temporary & Disability Assistance (OTDA)	✓	✓	✓	✓
NYS Public Service Commission (PSC)	✓	✓	✓	✓
NYS Thruway Authority / Canal Corporation	✓	✓	✓	✓
Port Authority of NY and NJ	✓	✓	✓	✓
State University of NY (SUNY)	✓	✓	✓	
NYS Department of Agriculture and Markets (NYSDAM)	✓			
American Red Cross	✓	✓	✓	✓
Office of Cyber Security ⁴		✓		✓
Office of Victim Services				✓

The accelerated outreach plan resulted in a total of thirty-seven (37) meetings, including those that took place prior to August 2013, during the 2014 plan update process. The table below offers a brief summary of these meetings. In addition, meeting minutes providing a detailed description of each meeting are provided in **Appendix 2**.

Table 2.1c provides a summary of key meetings held during the plan update collaboration. Summaries include dates, actions, participants and topics, illustrating how each stakeholder served a valuable role through participation in the 2014 planning process. (Meeting notes and sign-in sheets can be found in **Appendix 2**.)

Table 2.1c: Summary of Plan Development Collaboration

Date	Action	Participants/Topic
12/7/2012	State-FEMA Update Meeting	Participants: Mike McHale (FEMA), Rick Lord (DHSES) Topics: 2014 SHMP update preparation; short lead time, required changes, opportunities for improvement. M. McHale recommended that DHSES retain a consultant to conduct the process. R. Lord agreed with the advisability of hiring a contractor. M. McHale to do some research to identify high-quality State plans that may be worthy of emulation.
5/16/2013	State-FEMA Update Meeting	Participants: Mike McHale (FEMA); Rick Lord and Debra Dunbrook (DHSES) Topics: Wide-ranging discussions of a number of strategies, approaches and the <i>Opportunities for Improvement</i> paper, with a particular emphasis on State facilities and bona fide mitigation actions. Rick announced that Adjusters International (AI) had been retained for this engagement.
8/7/2013	DHSES Plan	Participants: DHSES: Rick Lord, Debra Dunbrook, Fred Nuffer

⁴ Office of Cyber Security was a former member agency of the Disaster Preparedness Commission.



Date	Action	Participants/Topic
	Update Meeting	<p>AI: John Agostino, Nancy Freeman, Julie Lam, Princess Ousley, Kyrie Wagner, Krause Wilson, Judy Wolf</p> <p>Topics: State Asset Inventory Project happening in parallel; approach to updating sections, involving state and non-state participants, e.g., webinars; realigning natural hazards list with FEMA list; remove power failure from list (consequence, not cause); FEMA willingness to be closely involved with and available for update process; FEMA crosswalk; State process for review and integration of local plans; State's buyout focus after Irene, want to identify top 3-5 communities for active outreach; data/information requirements and resources.</p>
8/7/2013	State-FEMA Update Meeting	<p>Participants: DHSES: Rick Lord, Debra Dunbrook FEMA: Cathleen Carlisle, Mike McHale (conf. call) AI: Nancy Freeman, Judy Wolf</p> <p>Topics: Work plan; meetings; webinars; map updates; new FEMA levee policy; FEMA fine with dropping power failure as a hazard, with explanation why; levees – good idea to add; updated plan to include new mitigation actions; clarification requested of FEMA comments in opportunities for improvement document; feedback from FEMA on example state plans M. McHale provided; climate change; FEMA will look at sections as ready throughout process; submittal dates for first and final drafts; outreach initiative; FEMA's 4085 planners may have data, also EPA.</p>
8/12/2013	DHSES Plan Update Meeting	<p>Participants: DHSES: Debra Dunbrook, Fred Nuffer, Dan O'Brien AI: Nancy Freeman, Judy Wolf</p> <p>Topics: Inventory project; stakeholder outreach, upcoming meeting of Adaptation Working Group; proactive outreach with emphasis on interviews with key agencies; hazards list, discussed new hazards (e.g., tsunami, dam/levee failure) and resources for information; gathering of local plans; reviewed weekly task list; set weekly meetings</p>
8/13/2013	Interagency Adaptation Working Group Meeting	<p>Participants: Amanda Stevens, Mark Watson (NYSERDA); Barry Pendergrass (DOS); Elisabeth Lennon (DOT); Mark Lowery, Kristin Marcell (DEC); Eleanor Stein, Michale Worden (PSC); Alan Belensz (OAG); Jan Storm, Dan Luttinger (DOH) DHSES: Debra Dunbrook, Fred Nuffer AI: Nancy Freeman, Princess Ousley</p> <p>Topics: Environmental Monitoring Evaluation and Protection Program (EMEP) Multi-Year Research Plan; ClimAID report; cost/benefit analysis tools; Guidance for Community Reconstruction Plans; Local Waterfront Revitalization Program – developing planning framework for coastal and riverfront communities; HUD planning grants; kickoff for NY-NJ Post Sandy Vulnerability Assessment with Federal Highway Administration; DOT's Statewide Flooding Vulnerability Assessment developing GIS layer that maps flood vulnerability</p>



Date	Action	Participants/Topic
		along state highways, results to be incorporated into statewide transportation plan (worked with DHSES Mitigation to locate state and FEMA mapping resources); DOT's new risk-based asset management project that will include adaptation as a risk layer; pilot for Climate Smart Resiliency Planning, a new tool for adaptation planning; Climate Smart Communities program certification program in development to track community's mitigation and adaptation progress and recognize community climate action; Scenic Hudson, the Hudson River National Estuarine Research Reserve, DOS and the Consensus Building Institute are working with the Hudson River Estuary Program to design a waterfront flooding task force process for Kingston, NY and other waterfront communities; DOH was funded again to develop climate and health adaptation plans; FN requested a draft template of guidance for local health departments; State Hazard Mitigation Plan updated process and upcoming outreach efforts, introductions to AI team members.
8/16/2013	Phone Call AI-FEMA	Participants: Mike McHale (FEMA), Judy Wolf (AI) Topics: Confirm format of Plan for Oct 1 deadline. M. McHale expects as close to a final draft as possible for initial review.
8/16/2013	Plan Update Team Meeting	Participants: (AI) Amanda Burnett, Nancy Freeman, Princess Ousley, Judy Wolf Topics: Outreach plan and deadlines; webinars; participant contact lists; publication schedule given 10/1 firm deadline for initial final draft.
8/20/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer, Kathy Schmocker AI: Amanda Burnett (conf. call), Nancy Freeman, Judy Wolf Topics: Outreach initiative, emails and requests for information sent 8/19; FN to schedule DEC meetings; hazards list feedback; climate change; approach to including links in Plan; webinars; facilities list and related databases (e.g., OGS, Cyber Security); draft review process; categorizing and prioritizing participant lists; internal tracking sheet for planning meetings.
8/20/2013	DHSES Plan Update Meeting	Participants: DHSES: Fred Nuffer AI: Nancy Freeman, Princess Ousley, Judy Wolf Topics: Scheduled meeting with State Floodplain Manager; discussed DEC organization, key divisions for the Plan update; non-state participants and users (e.g., soil & water districts, basin planning commissions); webinars; resources for data/information needs; hazard rankings; review/approval process for Plan sections, and tracking sheet; GIS needs, workstation; outreach forms, meetings.
8/21/2013	State-FEMA Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer, Kathy Schmocker FEMA: Mike McHale AI: Amanda Burnett (conf call), Nancy Freeman, Judy Wolf Topics: Overview of activities; reorganization of hazard



Date	Action	Participants/Topic
		sections to reflect CFR and crosswalk; comprehensive range of actions per hazard; brick and mortar projects preferred if possible; first draft review process and schedule; deliverables for first and final drafts; outreach initiative; FEMA 4085 planner information – M. McHale to check with Region 2 unit for repetitive loss information; FEMA feedback: on the right track so far.
8/22/2013	Agency Meeting Department of State	<p>Participants: DOS: Barry Pendergrass DHSES: Fred Nuffer AI: Nancy Freeman, Princess Ousley, Courtney Shorter, Tracy Smith, Kyrie Wagner, Judy Wolf</p> <p>Topics: DOS functions; Coastal Zone management program; GIS products, data available; Guidance for NY Rising Community Reconstruction Plans and related initiative; Building Code Office, local building codes; coordination with DEC coastal programs; definition of community assets; Adaptation Working Group; EPF funding administered by DOS; development changes over past three years; mitigation projects/activities over next three years; list of waterfront revitalization plans; NYSERDA projects; drought; extreme precipitation events; university research studies.</p>
8/23/2013	Agency Meeting Department of Environmental Conservation – Dam Safety & Coastal Erosion	<p>Participants: DEC: Alon Dominitz, PE; Susan McCormick, PE DHSES: Fred Nuffer AI: Amanda Burnett (conf. call), Nancy Freeman, Julie Lam, Princess Ousley, Tracy Smith, Judy Wolf</p> <p>Topics: <i>Dam Safety</i> – Community Rating System vs. Hazard Mitigation Plan; overview of divisions and authorities; flood control projects (all USACE); location data non-restricted; dam ownership; inspections, engineering standards, enforcement; NY Works funding; validation of federal inventory; emergency action plans for dams; Gilboa Dam; crest gates; GIS and map data.</p> <p><i>Coastal Erosion</i> – overview of department; Coastal Erosion Hazard Area (CEHA); map update project underway; regulations; post-Sandy permitting and projects; USACE short protection program; feasibility studies; Fire Island breaches; project timelines; overview of key projects; Sandy Relief Bill, funding; need to strengthen enforcement authority; GIS, mapping, LIDAR; studies; requested historical listing of erosion events; drought.</p>
8/27/2013	Agency Meeting Department of Transportation	<p>Participants: DOT: Elisabeth Lennon, Mary Anne Mariotti, Arthur Sanderson, Lynn Weiskopf AI: Amanda Burnett, Princess Ousley, Courtney Shorter, Tracy Smith, Judy Wolf</p> <p>Topics: Verification of 2011 Plan information as still ongoing and valid; risk assessment research; new preservation investment strategy, bridges emerging as strong focus; DOT active in NYS 2100 Commission; department inventory –</p>



Date	Action	Participants/Topic
		<p>projects underway, potential vulnerabilities; scour critical bridges project to assess and address most critical; DOT operations heavily focused on ongoing mitigation; DOT staff involved in climate change discussions at a national level, also part of national research agendas; vulnerability assessments, New York State Flooding Vulnerability Study, taking climate change into account; Long Island culverts post-Sandy; recommendation from DOT: pull projects out of 2100 Commission Report; most significant hazards: flooding (inland and coastal), hurricane & coastal storm, winter storm (more response than mitigation); retrofitting bridges for earthquake; landslide vulnerability identification and monitoring; NY Rising effort and funding; tree trimming; NY-NJ-CT vulnerability assessment; NYSERDA funding; FHWA pilot – risk-based asset management plan; Herkimer flooding, requested list of 406 hazard mitigation projects; work with neighboring states: I-95 Corridor Coalition, CONEG, NASTO; GIS contact; Sea Level Rise Task Force, report.</p>
8/27/2013	Agency Meeting Office of Fire Protection & Control	<p>Participants: OFPC: Andrew Dickinson, Donald Fischer AI: Princess Ousley, Tracy Smith, Judy Wolf Topics: Firewise program (e.g., Cragmoor); wildland-urban interface; overview of agency functions – inspections, fire training; coordination with DEC on training; development of courses with wildfire component; mitigation activities past three years, next three years; vulnerable assets; Ready Set Go program; National Guard discussions regarding response to wildfires.</p>
8/28/2013	Webinar Non-State Stakeholders	<p>Participants: Broome County, Cattaraugus County, USDA-NRCS, Nassau County, Monroe County, Schenectady County, Tompkins County, Warren County, Washington County, Village of North Syracuse, USGS, Orange County, Albany County, Chemung County, Dutchess County, Erie County, Niagara County, National Weather Service DHSES: Rick Lord, Debra Dunbrook, Marlene White AI: Nancy Freeman, Judy Wolf, William Wagner III Topics: Overview of hazard mitigation planning process, requirements, timeline, next steps, and opportunities for participation.</p>
8/28/2013	Agency Meeting DEC – Hudson Estuary Program	<p>Participants: DEC: Kristin Marcell AI: Amanda Burnett, Nancy Freeman, Courtney Shorter, Tracy Smith, Kyrie Wagner Topics: Program overview; Kingston Waterfront Flooding Task Force; LiDAR study; Sustainable Shorelines Project; SUNY research to assess climate change impact on flood risk in Mohawk and Hudson River Basins; mapping of barriers; habitat corridor mapping in Hudson Valley; long-term water level monitoring station in Hudson Estuary; Hudson Estuary Watershed Resiliency Project; SLAMM modeling in Hudson</p>



Date	Action	Participants/Topic
		Estuary; Climate Smart Communities Certification Program.
8/30/2013	Agency Meeting NYS Canal Corporation	Participants: NYS Canal Corp: Howard Goebel, Cathy Sheridan DHSES: Fred Nuffer AI: Princess Ousley, Tracy Smith, Kyrie Wagner Topics: NYS Canal System and agency overview; flooding-related activities including data gathering, monitoring, development of Canal Infrastructure Management System (CIMS); flood-related issues and infrastructure damages and economic impact; dams, debris; high-hazard dams; drought and Canal Corp reservoirs; mitigation projects including movable dam improvements and flood warning systems; source of project funds; anticipate program use.
9/3/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer, Dan O'Brien, Kathy Schmocker AI: Amanda Burnett (conf. call), Nancy Freeman, Judy Wolf Topics: Overview of activities; handoff/review of sample sections by DHSES; local plan data collection efforts and findings; hazard ranking matrix; maintenance and monitoring tools in development; preparation for FEMA meeting.
9/3/2013	State-FEMA Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer, Dan O'Brien, Kathy Schmocker FEMA: Mike McHale AI: Amanda Burnett (conf. call), Nancy Freeman, Judy Wolf Topics: Overview of activities, including stakeholder outreach; timing of hazard section rough drafts for FEMA preview; timeline through initial draft due date; review schedule for October; information on repetitive loss (roadblocks in obtaining information, alternative sources being contacted); clarified treatment of "development" in crosswalk 201.4(d); local plan collection/data gathering efforts and results; hazard ranking matrix; maintenance and monitoring tools in development, streamlined and realistic process.
9/3/2013	Agency Meeting National Oceanic and Atmospheric Administration	Participants: NOAA: Britt Westergard, Steve DiRienzo DHSES: Fred Nuffer AI: Nancy Freeman, Courtney Shorter, Tracy Smith, Kyrie Wagner Topics: Climate change section - impacts on extreme temperatures, drought, flooding, sea-level rise; resources including national database on precipitation records (National Climatic Data Center), NOAA Coastal Services sea-level rise mapper showing inundation based off of sea-level rise, climate report from NCDC; Drought section - National Drought Monitor; Tsunami section - Tsunami warning system in place, Wireless Emergency Alerts (WEA); storm size considerations; lake levels; seiche; avalanche; flood warning systems in development.
9/5/2013	Webinar State Stakeholders	Participants: DOS, DHSES, DMNA, NYS Canal Corporation, NYS Police, NYS Education Department, NYC OEM, NYS Department of Agriculture & Markets, NYS Department of Public Service,



Date	Action	Participants/Topic
		<p>NYS DOT, NYS DOCCS, NYS DOL, NYS OGS, NYS OMH, NYS OPWDD, NYS Thruway Authority, NYS DEC, NYS DOH, NYSERDA, Office of Children and Family Services, Port Authority of NY & NJ</p> <p>DHSES: Rick Lord, Debra Dunbrook, Marlene White FEMA: Cathleen Carlisle, Nicole Aimone AI: Nancy Freeman, Judy Wolf, William Wagner III</p> <p>Topics: Overview of hazard mitigation planning process, requirements, timeline, next steps, and opportunities for participation, including facilities/damage survey tool being sent to all agencies following webinar.</p>
9/5/2013	Agency Meeting New York State Energy Research and Development Authority	<p>Participants: NYSERDA: Chris Reohr, Amanda Stevens, Mark Watson AI: Nancy Freeman, Princess Ousley, Courtney Shorter, Tracy Smith, Judy Wolf</p> <p>Topics: Adaptation Working Group (WG); verified projects on list provided at WG meeting; discussed additional sources for information; draft timelines, opportunities for review; modeling projects; Con Ed post-Sandy enhancement plan; Commercial New Construction Program; Cleaner, Greener Communities Program; Gas Station Program; NY Rising Community Reconstruction Program; ClimAID; water supply-related projects (none for NYSERDA currently); other current activity.</p>
9/5/2013	Agency Meeting Susquehanna River Basin Commission	<p>Participants: SRBC: Ben Pratt, John Bala AI: Amanda Burnett, Princess Ousley, Tracy Smith, Kyrie Wagner</p> <p>Topics: Program overview; regulatory authority; past mitigation activities largely non-structural; flood warning system and reduction in stream gauge network funding in 2014; flooding issues; drought; past year focus no infrastructure and preserving infrastructure (flood forecast and warning system and gauge warning system); activities to promote NFIP; focus on sustaining the gauge network.</p>
9/9/2013	DHSES Plan Update Meeting	<p>Participants: DHSES: Fred Nuffer AI: Amanda Burnett, Nancy Freeman, Judy Wolf</p> <p>Topics: Overview of activities; hazard ranking matrix; hazards; prioritize sections for review; plan maintenance and monitoring tools; draft preview protocols and schedule; adoption process.</p>
9/9/2013	Agency Meeting NYS Office of Parks, Recreation & Historic Preservation	<p>Participants: NYS OPRHP: Marc Talluto, John Orsini DHSES: Fred Nuffer AI: Joe Jones, Princess Ousley, Courtney Shorter, Tracy Smith</p> <p>Topics: Program and agency overview; Irene, Lee and Sandy flooding impacts, locations, damage amounts; wildfire incidents; occasional landslides; upstate erosion.</p>
9/10/2013	Agency Meeting DEC - Flood Control Program	<p>Participants: DEC: Alan Fuchs, Stephen Len AI: Princess Ousley, Courtney Shorter, Tracy Smith, Kyrie Wagner</p> <p>Topics: New project development; funding splits for various</p>



Date	Action	Participants/Topic
		project phases; oversight, maintenance and repair of completed projects; DEC permitting program; levee breaks/breaches; state facility vulnerability; infrastructure aging-related maintenance issues; inspection schedule; damage from storm events past three years.
9/18/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook AI: Amanda Burnett, Nancy Freeman, Judy Wolf Topics: Overview of activities; hazard ranking matrix, stakeholder outreach, mitigation actions & activities matrix, survey monkey tool; sections ready for FEMA review, protocol, final review of flood second draft; State review session on 9/25; detailed review of sections 1, 2, 5 and 6 for D. Dunbrook feedback; local plan integration/process; Adirondack Park Agency web site for avalanche information; outreach and plan maintenance workload, process, and staffing recommendations going forward.
9/19/2013	State-FEMA Update Meeting	Participants: DHSES: Debra Dunbrook FEMA: Mike McHale AI: Amanda Burnett, Nancy Freeman, Princess Ousley, Judy Wolf Topics: Overview of activities, including stakeholder outreach; preliminary draft and 10/1 initial draft review and feedback, including handoff, timelines, crosswalk, feedback format, and GIS products currently missing from preliminary draft; hazard ranking matrix and treatment of different levels within Plan; mitigation actions and activities, including Region 2 preference for presenting projects to best support potential grant applications; integration of level of detail specified in Blue Book guidance; submission of crosswalk with State's 10/1 initial draft to FEMA with requirement locations identified.
9/25/2013	DHSES Plan Update Meeting	Participants: DHSES: Rick Lord, Debra Dunbrook, Fred Nuffer, Dan O'Brien, Kathy Schmocker AI: Amanda Burnett, Nancy Freeman, Juliana Lam, Princess Ousley, Courtney Shorter, Tracy Smith, Kyrie Wagner, Judy Wolf Topics: Timeline for adoption; detailed review and discussion of sections 1, 2, 3.0-3.2, 4, and hazard sections for Avalanche, Climate Change, Coastal Erosion, Drought, Earthquake, Extreme Temperatures, and Flood; discussed State goals and objectives, which should tie in with Governor's 2100 Report priorities.
9/26/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer, Dan O'Brien, Kathy Schmocker AI: Amanda Burnett, Nancy Freeman, Juliana Lam, Princess Ousley, Courtney Shorter, Tracy Smith, Kyrie Wagner, Judy Wolf Topics: Reviewed and approved revised State goals and objectives; detailed review and discussion of sections 5, 6, 7, and hazard sections for Hailstorm, High Wind, Hurricane, Land Subsidence & Expansive Soils, Landslide, Tsunami, Winter Storm, and Wildfire.
9/26/2013	DHSES Plan	Participants: DHSES: Rick Lord



Date	Action	Participants/Topic
	Update Meeting	AI: Amanda Burnett, Judy Wolf Topics: Reviewed and approved State goals and objectives; discussed input and information needed for Section 4; discussed public review of draft and process for posting to State web site.
10/7/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer AI: Nancy Freeman, Judy Wolf Topics: Overview of activities and Plan status; coordination with State Inventory Project; schedule for final draft State run through.
10/11/2013	State-FEMA Update Meeting	Participants: DHSES: Rick Lord FEMA: Cathleen Carlisle, Mike McHale (both via conference call) AI: Nancy Freeman, Princess Ousley, Judy Wolf Topics: Federal shutdown and potential impact on timeframes; FEMA bringing in additional state assets to assist with Plan review; possible change to administrative rule; FEMA sending Plan status letter to the Governor; timeframes for final draft deadline, FEMA request to push forward to allow additional time for edits (if needed) following formal crosswalk; FEMA to provide feedback by 10/18 on flood, hurricane, wind, and severe winter storm sections; local plans as a resource for data – including as a resource/link; importance of referencing NYC activities and Risk MAP program; local plan integration, including progress and approach to date; coordination with State Asset Inventory project; FEMA direction/suggestions for how to approach required edits for January Plan approval while building framework for future/ongoing improvement; HAZUS information coming from FEMA – full-out analysis can be done after January; FEMA request that changes from 10/1 draft be highlighted for final draft; input still incoming from stakeholders on hazard sections.
10/21/2013	DHSES Plan Update Meeting	Participants: DHSES: Debra Dunbrook, Fred Nuffer AI: Nancy Freeman, Judy Wolf Topics: Overview of activities; incorporation of edits and feedback ongoing; good response from stakeholders regarding mitigation actions and activities; 20 responses received to date regarding web draft posted in September; excellent and detailed feedback received from key agencies tasked with reviewing specific hazard sections; ongoing mitigation activities have been moved to State Capabilities section; table created for new 2014 mitigation projects with a Status Update column; table created to track funding/completion of past projects, to be kept up over time; communication with State agencies regarding ongoing maintenance process and expectations; local plan funding and review; Hazus and Risk MAP information; progress on local plan review and integration; deadlines; photos; adoption process.
10/28/2013	DHSES Plan Update Meeting	Participants: DHSES: Rick Lord, Debra Dunbrook, Fred Nuffer AI: Nancy Freeman, Princess Ousley, Judy Wolf Topics: Reviewed and discussed “final draft” versions of all



Date	Action	Participants/Topic
		sections except 4 and 7, which are scheduled to be reviewed on 11/4; discussion regarding critical facilities; need to publicly announce any ranking/selection criteria that are established, will also need to be approved by Attorney General & comptroller; discussion regarding NYS actions to identify and address roadblocks to buyout program success.
11/4/2013	DHSES Plan Update Meeting	Participants: DHSES: Rick Lord, Debra Dunbrook, Fred Nuffer AI: Nancy Freeman, Princess Ousley, Judy Wolf Topics: Reviewed and discussed Section 4 (in progress); changing wildfire and landslide to low hazards, keeping severe winter storm low hazard with additional explanation/justification; details regarding legislative task force; alert systems as mitigation activities; reviewed activities table for status updates, identified ongoing programmatic functions from 2011 plan; public posting of final plan; adoption process; funding sources.

During stakeholder meetings, the SHMP Team and contractor group gathered information related to hazards and risks, as well as any impacts to agency facilities resulting from disasters between 2011 and 2014. Each stakeholder agency was also responsible for updating the mitigation actions and activities relevant to their agency. These agencies received an Excel spreadsheet with their actions and a deadline to review and provide input regarding the actions. In addition, each agency was encouraged to create new actions to reflect the ongoing mitigation efforts in New York.

In addition, multiple requests for information were solicited by phone and email from the SHMP agencies. This information has been incorporated throughout the plan as appropriate.

Plan Section Review and Analysis

All agencies were instrumental in providing hazard and risk assessment data and revising and updating the 2011 mitigation goals, objectives, capabilities, funding sources, and activities. Information gathered during the planning process provided guidance in assessing and ranking the hazards and redefining the goals and objectives. **Section 4 – Mitigation Strategy** further explains the revisions and resolutions of the 2011 goals and objectives. **The goals selected by the SHMP Team for 2014 are:**

- Goal 1:** Promote a comprehensive state hazard mitigation policy framework for effective mitigation programs that includes coordination between federal, state, and local organizations for planning and programs.
- Goal 2:** Protect property including public, historic, private structures, and critical facilities and infrastructure.



- Goal 3:** Increase awareness and promote relationships with stakeholders, citizens, elected officials, and property owners to develop opportunities for mitigation of natural hazards.
- Goal 4:** Encourage the development and implementation of long-term, cost-effective, and resilient mitigation projects to preserve and/or restore the functions of natural systems.
- Goal 5:** Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards.

Extensive research of reports, policies, websites, and publications was conducted in order to update the information presented in the 2014 plan. In some cases, existing information was determined to be valid or new material or data was not available, so the existing information was retained in the plan, if still applicable. Information from numerous local jurisdiction hazard mitigation plans was integrated throughout the development of the State plan. It was found that the hazard information and mitigation strategy information from the local plans provided critical details to supplement the hazard profiles and risk assessments, as well as the mitigation strategy section. Sample data and analysis from local plans was integrated into appropriate sections of the 2014 update as describe in **Section 5: Coordination of Local Planning**. A selection of plans was made to represent jurisdictions with significant vulnerability to specific hazards. All hazards identified in local plans were linked to the State’s hazards, as shown in **Section 5, Table 5e**.

Another outcome was the goal of trying to make the state plan a useful resource for local jurisdictions that will undertake the planning effort in the future years. It was determined that some useful maps and planning methods and tools would be provided throughout the plan as a resource.

During the course of plan development, every effort was made to use the best readily available data. Unfortunately, information that is needed or useful for certain analyses may not exist, and in some cases, the data that is available remains deficient from the standpoint of accuracy and completeness. DHSES and its partner agencies have been working on filling identified gaps in data and will continue to address these issues during subsequent planning periods.

A major data deficiency in the 2014 update is the limited information New York State maintains on its building assets, particularly the details required for risk assessment. Currently, the primary database of state buildings is the NYS Office of General Service’s “Fixed Asset Inventory,” which contains over 19,000 building records. While this database contains useful information such as building value and square footage, it does not contain basic structural information needed to make general assessments of vulnerability to earthquakes, wind and flood. In addition to the need to gather missing structural information, there is a need to refine the accuracy of the geographic coordinates to enable better GIS screening of these buildings as to their proximity to floodplains; the presence of



soils that amplify earthquake shaking; and other hazardous areas. On September 9, 2013, DHSES requested that state agencies complete an online survey to collect basic facility data to identify additional state facilities and critical infrastructure. The survey helped to identify agencies', counties', and regions' facility types that may require special consideration and a more ambitious methodology to gather critical data related to their facilities and infrastructure in order to determine potential vulnerabilities to hazards. A total of eighteen (18) agencies responded to the survey, providing an important first step to ensure that the State has a comprehensive database of all state-owned and operated facilities and infrastructure.

An additional initiative to gather State facility data was begun during the 2014 SHMP update process. The State Fixed Asset Inventory Project process will involve development of a methodology to identify facilities based on potential hazard vulnerability and eventually result in a comprehensive State fixed asset inventory/database. Phase one of the project consists of a pilot to gather information related to residential facilities⁵, due for completion in mid-2014.

On September 25, 2013, an initial SHMP draft was presented to the DHSES Mitigation Section for review and input. The resulting second draft was placed on the DHSES website on September 30, 2013, for stakeholder review and comment. Input and comments were received from September 30 to October 15, 2013. Feedback was received in the form of emailed comments, written comments on the draft, or documents with information relevant to the plan or the appropriate agency's section. Feedback was collected and reviewed by the contractor and DHSES and incorporated as appropriate into the plan.

The review and evaluation process included an in-depth analysis by the contractor team to ensure the following measures were addressed:

- Consistency with the 44 CFR 201.4 Standard State Hazard Mitigation Plan Crosswalk
- Recommendations from FEMA that were provided in the 2011 plan review
- Incorporation of stakeholder input into the appropriate sections

An initial draft was provided to FEMA on October 1, 2013, for a preliminary comprehensive plan review. All comments from FEMA were then integrated into the final plan. Table 2d provides a summary of revisions and updates in each section. **Descriptions of specific changes are listed in each section of this plan.**

⁵ Project priorities related to type of facilities may change as the project evolves.



Table 2.1d: Section Updates

Section 1
Updates include the New York facts and figures to reflect current population numbers, a description of the adoption process, and assurances to comply with applicable laws.
Section 2
The updates in Section 2 include the description of the 2014 SHMP Team, contractor group, and the plan update process. Relevant data from the 2008 and 2011 plan was incorporated. Section 2 also describes program development and integration since the 2011 SHMP.
Section 3
Section 3 updates include the restructuring of hazard sections to further align with the standard state hazard mitigation crosswalk. 2011 hazards were researched and redefined to include the addition of new hazard sections for Avalanche, Climate Change, Coastal Erosion and Tsunami. The listing of past federal disaster declarations in New York State was updated. Local plans were reviewed, and local vulnerability and loss data were included in the 2014 plan update. The state facility and infrastructure vulnerability and loss data were also reviewed, updated, and included in the plan.
Section 4
The goals and objectives were revised to reflect five specific categories. These categories were utilized in revising and addressing the 2011 SHMP goals. The projects from the 2011 SHMP were updated, and progress and capability tables have been added to map the State's progress. 2014 activities have been added by participating agencies and all projects were ranked in accordance with the new NYS Hazard Mitigation Ranking System. In addition, an updated list of current and potential funding sources is provided.
Section 5
Section 5 update discusses the process followed by the Mitigation Sections in providing funding and technical assistance, and includes the process for reviewing and integrating the local hazard mitigation plans (LHMPs). In addition, it provides criteria for prioritizing HMA funding for planning and non-planning grants.
Section 6
The updates in Section 6 include a revised timeline and criteria for monitoring and evaluation of the SHMP, and a revised approach to the update process for the 2017 SHMP. Updates also include how the goals, objectives, and activities will be monitored for achievement.
Section 7
Discusses the goals and objectives that were updated to support the selection of mitigation activities for repetitive loss and severe repetitive loss (SRL). The following table was added to the 2014 SRL section: Repetitive Loss. The following figures were added to the 2014 SRL section: Policy Matters, the number of NFIP policies from 2011-2012; and National Flood Insurance Program Data for the Top 10 States.



2.2 Coordination among Agencies

Requirement §201.4(b): The State mitigation planning process should include coordination with other State agencies, appropriate Federal agencies [and] interested groups.

Coordination among state and federal agencies has evolved with recent events such as Hurricanes Irene, Tropical Storm Lee, and Hurricane Sandy. These events have highlighted the importance of mitigation, which is reflected in the increased number of state mitigation initiatives and enhanced coordination with federal entities. **Ongoing programs and initiatives include, but are not limited to, the following:**

The **New York State Department of Environmental Conservation (DEC) Hudson River Estuary Program** has taken a proactive approach to mitigating coastal erosion and adaptation strategies for climate change to reduce vulnerability to losses on the Hudson River Estuary. Their efforts include a series of green shoreline demonstration projects, including the design of two ecologically enhanced (or “green”) shoreline treatments to control erosion on shorelines in Cold Spring and Nyack, NY.

The **DHSES Mitigation Section** processed the largest number of buyouts in the state’s history between 2011 and 2013. Due to multiple disasters, coordination among state and federal entities has continued to progress, resulting in increased opportunities for mitigation. For example, the State collaborated with FEMA Region II to coordinate the acquisition and elevation of severe repetitive loss properties. In this same timeframe, the Hazard Mitigation Grant Program (HMGP) has funded 1,232 acquisition buyout projects totaling \$210 million.⁶

The **ad-hoc interagency adaptation working group** has provided significant opportunities for program integration and mitigation activities. It has steadily grown since its inception from less than five participating agencies to gathering as many as 12 agencies in regular attendance. The original impetus for meeting was by legislative direction and was primarily for the identification of the state’s vulnerabilities to climate change and adaptation measures to address climate change, but this discussion has since extended beyond climate change concerns and into mitigation related to other natural hazards. Additional information about the adaptation working group can be found in **Section 4.2**.

The **NYSDEC and Department of State (DOS)** have worked closely with the U.S. Army Corps of Engineers through a long term planning process to address and fund coastal protection projects. Coordination among these agencies includes joint planning related to project development and implementation, funding agreements and technical assistance. Feasibility studies have been conducted on beach renourishment projects, and a number of projects have been funded to repair damage caused by the repetitive storms in 2011 and 2012, including Hurricane Sandy. For example, the Lake Montauk Harbor Storm Damage Reduction and Navigation Project to renourish the beach, build a groin, and expand the

⁶ New York State Disaster Preparedness Commission 2012 Annual Report



navigational channel to provide heightened protection to properties was the outcome of a feasibility study. The Fire Island to Montauk Point Project supports beach and dune re-nourishment and the elevation of homes. The goal of each project is to support adaptive measures that will help address risk from shoreline erosion. Information on currently funded coastal protection projects is described in **Table 3.5c**.

These and other programs and projects have led to a greater consensus among agencies related to the importance of pre-disaster planning and actions that have the potential to reduce the state's vulnerabilities to hazards. **Table 2.2e** demonstrates the collaboration with participating agencies for the 2014 planning cycle.

Table 2.2e: 2014 Federal, State and Local Participating Entities

State Agency Participation	Provided Data	State Agency Webinar	Non-State Agency Webinar	Responded on Survey Monkey	Provided initial draft feedback
DHSES NYS Office of Fire Prevention (OFPC)	✓				✓
Metropolitan Transportation Authority (MTA)	✓			✓	
New York Department of State (DOS)	✓	✓			
New York State Department of Health (DOH)	✓	✓			
NYS Canal Corporation	✓	✓			✓
NYS Department of Education		✓			
NYS Geological Survey	✓				
NYS Department of Environmental Conservation (DEC)	✓	✓			✓
NYS Department of Homeland Security and Emergency Services (DHSES)	✓	✓	✓	✓	✓
NYS Department of Labor (DOL)		✓		✓	
NYS Department of Transportation (DOT)	✓	✓		✓	✓
NYS Division of Military & Naval Affairs (DMNA)	✓	✓		✓	
NYS Department of Corrections and Community Supervision	✓	✓			
NYS Division of State Police (NYSP)	✓	✓		✓	
NYS Energy Research and Development Authority (NYSERDA)	✓	✓			✓
NYS Office of Children and	✓	✓		✓	



State Agency Participation	Provided Data	State Agency Webinar	Non-State Agency Webinar	Responded on Survey Monkey	Provided initial draft feedback
Family Services (OCFS)					
NYS Office for People with Developmental Disabilities (OPWDD)	✓	✓			✓
NYS Office of General Services (OGS)	✓	✓			
NYS Department of Financial Services				✓	
NYS Office of Mental Health (OMH)	✓	✓		✓	
NYS Office of Parks, Recreation and Historic Preservation	✓				✓
NYS Office of Temporary & Disability Assistance (OTDA)	✓				
NYS Public Service Commission (PSC)	✓	✓			
NYS Thruway Authority	✓	✓			✓
Port Authority of NY and NJ		✓			
State University of NY (SUNY)	✓			✓	
NYS Department of Agriculture and Markets (NYS AG&MKTS)		✓		✓	
NYS Office of Victim Services				✓	



Local Municipalities, Local Departments, Non-Governmental Organizations, Private Sector and Federal Agencies	Provided Data	State Agency Webinar	Non-State Agency Webinar	Responded on Survey Monkey	Provided initial draft feedback
Local Municipalities					
Albany County			✓		
Broome County			✓		
Cattaraugus County			✓		
Nassau County			✓		
Monroe County			✓		
Orange County			✓		
Schenectady County			✓		✓
Tompkins County			✓		
Warren County			✓		
Washington County			✓		
Local Departments					
NYC Office of Emergency Management		✓			
Nassau Health Care Corporation					✓
Non-Governmental Organizations					
American Red Cross	✓				
Susquehanna River Basin Commission (SRBC)	✓				
Delaware River Basin Commission (DRBC)	✓				
Private Sector					
Environmental Emergency Services, Inc.	✓				
Federal Agencies					
Federal Emergency Management Agency (FEMA)		✓			✓
National Weather Service (NWS)	✓				✓
U.S. Army Corps of Engineers (USACE)	✓				
U.S. Geological Survey (USGS)	✓				



2.3 Program Integration

Requirement §201.4(b): *The State mitigation planning process should be integrated to the extent possible with other ongoing State planning efforts as well as other FEMA mitigation programs and initiatives.*

Integration with State Planning Efforts

The State's hazard mitigation efforts fall under a wide variety of programs and constitute many initiatives at the local, state, and federal levels. The 2014 State Hazard Mitigation Plan acts as an umbrella document that identifies the various risks and assesses the mitigation actions that are being implemented to reduce these risks. The following sections describe some of these efforts.

State Agencies

The following sections describe in detail ongoing mitigation activities performed by State agencies on a routine basis. **Table 2.3f** presents a matrix showing the roles the various State agencies play in the statewide mitigation efforts. The State has a substantial role in ensuring mitigation measures of various types are implemented at the local level. **The State's role can be divided into three broad functional levels of application:**

- **Indirect Influence:** Activities which are carried out exclusively by the private sector or local government. These may be promoted or encouraged by state efforts such as vulnerability reports, education activity, and similar indirect means.
- **Direct Influence:** Activities which will generally be carried out by private interests or local government, but are directly influenced by state activity. These could be local assistance funding, standard setting, preparation of model statutes, codes, and all similar activities where state authority encourages or enables local actions that support mitigation.
- **Implementation:** Activities carried out by the State as direct program functions. These would include such things as State-conducted training, State regulatory programs, design and construction of State facilities, and the creation of new or amended (state) law.

State agencies include such considerations in actions wherever they are reasonable and compatible with program purposes and goals. In some cases, these activities may be conducted as normal functions of the individual agency by direction of law, rule, or agency discretion or as part of agency budgets. As such, agencies will continue to perform the activities identified and described. **Table 2.3f** describes state agencies' roles in ongoing mitigation efforts.



Table 2.3f: State Agencies' Roles in Mitigation Efforts

Agency	Compliance/ Enforcement Programs	Mitigation Education/Public Awareness	Mitigation Plans / Planning	Mitigation Activities / Actions	Technical Assistance	Risk / Vulnerability Assessment
Department of Agriculture and Markets		✓	✓	✓	✓	✓
Office of Children & Family Services			✓	✓		
Department of Environmental Conservation	✓	✓	✓		✓	✓
Department of Labor			✓			
Office of Mental Health			✓			✓
Department of Military and Naval Affairs			✓	✓		
Public Service Commission			✓			
Thruway Authority/				✓		
Canal Corporation	✓	✓	✓	✓	✓	✓
Department of Transportation	✓	✓	✓	✓	✓	✓
Department of Homeland Security and Emergency Services	✓	✓	✓	✓	✓	✓
NYS Energy and Research Development Authority		✓	✓	✓	✓	✓



Agency	Compliance/ Enforcement Programs	Mitigation Education/Public Awareness	Mitigation Plans / Planning	Mitigation Activities / Actions	Technical Assistance	Risk / Vulnerability Assessment
Department of State	✓	✓	✓	✓	✓	✓
Metropolitan Transportation Authority		✓	✓			✓
Office General Services			✓	✓		✓
Office of Parks, Recreation and Historic Preservation			✓	✓		✓
Port of NY and NJ		✓	✓	✓		✓
State University of NY		✓	✓	✓		✓
Department of Corrections and Community Supervision			✓			✓
Empire State Development Corporation						✓
Department of Health		✓	✓	✓		✓
Division of Housing and Community Renewal			✓			
Office of Cyber Security				✓		✓
Office of Persons with Developmental Disabilities			✓	✓		✓
Division of State Police			✓			



Review and Integration of Existing Plans and Documents

Every effort was made to review and incorporate pertinent information into the 2014 Plan from previous State mitigation planning efforts and other mitigation related plans. Plans that were reviewed as part of the planning process are listed below. These plans were reviewed and pertinent information was incorporated into the current plan.

Federal

- FEMA *Plan Development Toolkit*
- FEMA *Multi-Hazard Mitigation Planning Guidance (Disaster Mitigation Act of 2000)*
- FEMA *Hazard Mitigation Grant Program*
- FEMA *Understanding Your Risks* how-to-guide
- FEMA *Developing the Mitigation Plan* how-to-guide
- FEMA *Bringing the Plan to Life* how-to-guide
- FEMA *Guidance on Benefit-Cost Analysis of Hazard Mitigation Projects*
- FEMA Risk Map Program

State

- The NYS DPC 2012 Annual Report
- The NYS 2100 Commissioner's Report
- The NYS Consolidated Edison Co. Post Sandy Enhancement Plan
- The NYS Climate Smart Resiliency Planning: A Planning Evaluation Tool for NYS Communities
- The NYS 2007 DEC Wildfire Management Plan
- The NYS Drought Management Plan
- The NY NJ Regional Catastrophic Planning Team
- The NYS Emergency Action Plan for Dams
- The NYS Comprehensive Emergency Management Plan, which is supported by a host of functional, hazard-specific, and support annexes

Many of the agencies that comprise the DPC also maintain their own agency-specific emergency operations plans.

Local

- Fifty-six (56) local hazard mitigation plans were reviewed and referenced in the 2014 plan update. A list of the 56 plans can be found in **Section 5: Coordination of Local Planning**.

Integration into FEMA Mitigation Grant Programs

DHSES administers and oversees federal mitigation grant programs for New York State that are related to hazard mitigation, emergency management, and disaster relief, and serves as the lead agency for the State in disaster mitigation efforts. Due in part to the agency's comprehensive role, DHSES has the opportunity to integrate the dissemination of mitigation information with the FEMA grant application process for the following programs:



- Hazard Mitigation Grant Program (HMGP);
- Pre-Disaster Mitigation (PDM) Grant Program;
- Public Assistance (PA) Grant Program;
- Individual Assistance (IA) Grant Program
- Flood Mitigation Assistance (FMA) Program;
- Community Development Block Grant (CDBG) – Department of Housing and Urban Development
- Federal Highway Administration – Emergency Response Program

DEC administers the **National Flood Insurance Program (NFIP)** within the State of New York, with responsibilities assigned to the State NFIP Coordinator and support staff. The primary responsibilities of the office of the State NFIP Coordinator include facilitating participation in the NFIP among New York communities, providing technical support and training to local administrators, and encouraging participation in the Community Rating System (CRS) program.

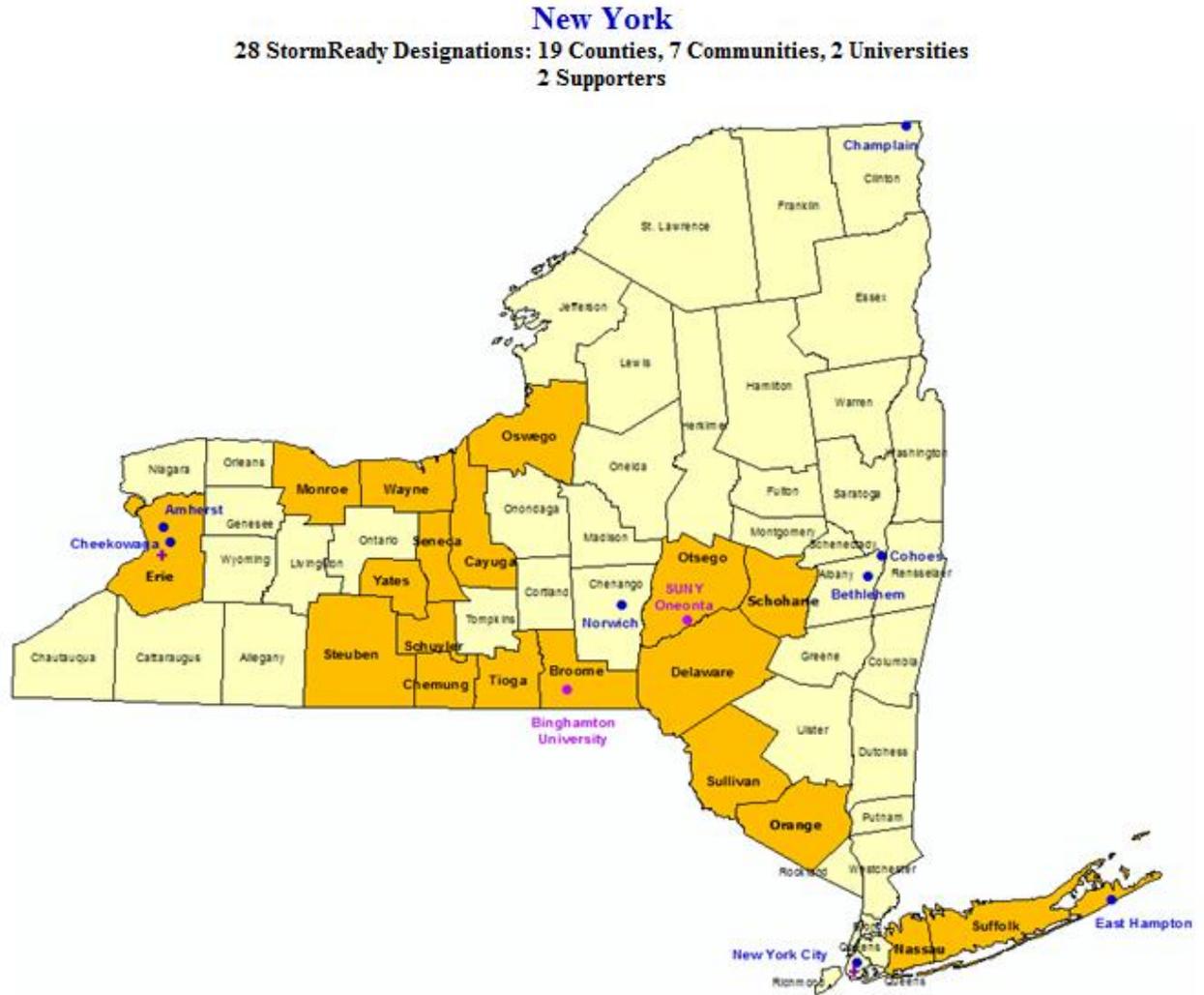
Integration into FEMA Mitigation Programs and Initiatives

Integration of federal programs into the state mitigation program has been an ongoing process that has highlighted the importance of mitigation. This process has resulted in the implementation of federal programs and initiatives, as well as the review and integration of current state plans, programs and policies that promote mitigation initiatives throughout the State. Ongoing programs and initiatives include, but are not limited to, the following:

National Weather Service StormReady Program: StormReady is a nationwide community preparedness program that uses a grassroots approach to help communities develop plans to handle all types of severe weather from tornadoes to tsunamis. The program encourages communities to take a proactive approach to improving local hazardous weather operations by providing emergency managers with clear-cut guidelines on how to improve their hazardous weather operations. To be officially StormReady, a community must: 1) establish a 24-hour warning point and emergency operations center; 2) have more than one way to receive severe weather warnings and forecasts and to alert the public; 3) create a system that monitors weather conditions locally; 4) promote the importance of public readiness through community seminars; and 5) develop a formal hazardous weather plan that includes training severe weather spotters and holding emergency exercises. StormReady communities in New York State have undertaken extra efforts in preparedness measures in order to mitigate hazardous weather events in their communities. Currently New York State has 28 StormReady designations, as illustrated in **Figure 2.3a**.



Figure 2.3a: New York State StormReady Designations



Gold Shading: StormReady County		Blue Dot: StormReady Community	Purple Dot: StormReady University
<ul style="list-style-type: none"> • Broome • Cayuga • Chemung • Delaware • Erie • Monroe • Nassau • Orange • Oswego • Otsego 	<ul style="list-style-type: none"> • Schoharie • Schuyler • Seneca • Steuben • Suffolk • Sullivan • Tioga • Wayne • Yates 	<ul style="list-style-type: none"> • Amherst • Bethlehem • Champlain • Cheektowaga • Cohoes • East Hampton • New York City • Norwich 	<ul style="list-style-type: none"> • Binghamton University • State University of New York at Oneonta
Purple Plus: StormReady Supporter			
<ul style="list-style-type: none"> • Buffalo Bills at Ralph Wilson Stadium • WABC-TV 7 			

Source: <http://www.stormready.noaa.gov/com-maps/ny-com.htm>



National Flood Insurance Program's (NFIP) Community Rating System (CRS): The NFIP CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. Flood insurance premium rates are discounted to reflect the reduced flood risk resulting from 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. Each community has prepared a flood mitigation plan and has received funding for flood mitigation projects. Details are presented in the flood hazard section. (See **Section 3.9: Flood** for additional information related to NFIP and the CRS.)

FEMA's National Mitigation Strategy: In response to the unacceptable loss of life and property from recent disasters, and the prospect of even greater catastrophic loss in the future, the National Mitigation Strategy has been developed to provide a conceptual framework to reduce these losses. The strategy is intended to engender a fundamental change in the general public's perception about hazard risk and mitigation of that risk, and to demonstrate that mitigation is often the most cost-effective and environmentally sound approach to reducing losses. The overall long-term goal of the strategy is to substantially increase public awareness of natural hazard risk and to significantly reduce the risk of loss of life, injuries, economic costs, and the disruption of families and communities caused by natural hazards. The foundation of the strategy is the development of partnerships that empower all Americans to fulfill their responsibility for ensuring safer communities. This strategy must be implemented in partnership with state and local governments and private sector constituents, including, and most especially, the general public.

Emergency Management Accreditation Program: The Emergency Management Accreditation Program (EMAP) is the voluntary assessment and accreditation process for state and local government programs responsible for coordinating prevention, mitigation, preparedness, response, and recovery activities for disasters, whether natural or human-caused. Accreditation is based on compliance with collaboratively developed national standards for emergency preparedness, the EMAP Standard. EMAP, as an independent, non-profit organization, fosters excellence and accountability in emergency management and homeland security programs by establishing credible standards applied in a peer review accreditation process. New York State is EMAP-accredited.



National Incident Management System (NIMS): The Federal Department of Homeland Security has developed the NIMS system as the integrated standard for emergency planning. New York State has officially adopted the NIMS system and continually implements this program within state agencies and local jurisdictions. The State integrates emergency management and homeland security resources to comply with this federal initiative.

Risk Mapping, Assessment, and Planning (Risk MAP): Risk Mapping, Assessment, and Planning (Risk MAP) is a new FEMA program that provides communities with flood information and tools they can use to enhance their mitigation plans and better protect their citizens. Through more accurate flood maps, risk assessment tools, and outreach



support, Risk MAP builds on Map Modernization and strengthens local ability to make informed decisions about reducing risk. Risk MAP's ultimate goal is saving lives and dollars. Through collaboration with state, local and tribal entities, Risk MAP focuses on products and services beyond the traditional DFIRM, which is primarily used to set flood insurance rates and communicate 1-percent-annual-chance flood risk. **(See Section 3.9.2 for additional information related to NYS Risk MAP.)**

Other Interested Groups, Including Private Non-Profits and Non-Governmental Organizations

Early in the planning process, the SHMP Team and DHSES identified a list of entities that should be involved in the plan development process, including federal and state agencies, interested groups, private non-profits, and non-governmental organizations. In the first stages of the process, these groups were identified and points of contact defined.

Non-State Agency planning partners and interested groups were invited to participate in a webinar on August 28, 2013. The presentation slides from these webinars and a list of registered participants have been included in **Appendix 2**. All contacts were sent information packets prior to the webinar; **Appendix 2** contains the "Non-State Agency Planning Partners Information Packet" (also referred to as "Participant Guidance"). These packets were utilized as tools to encourage participation in the planning process. The packets facilitated the identification and update of new and current mitigation actions and activities for inclusion in the plan.

Throughout development of the plan, these organizations were asked to provide information and were invited to review and comment on draft sections of the plan.

Several non-governmental organizations and interested groups provided assistance and support throughout development of this plan. **Table 2.2e** provides the list of participating entities for the 2014 SHMP update.

