



9.1 SUSSEX COUNTY

This section presents the jurisdictional annex for Sussex County.

9.1.1 HAZARD MITIGATION PLAN POINT OF CONTACT

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Michael F. Strada, Sheriff/DEM Coordinator Sussex County Sheriff’s Office Bureau of Emergency Management 135 Morris Turnpike, Newton, NJ 07860 (973) 579-0380 E-Mail: mstrada@sussexcountysheriff.com	Corporal Mark W. Vogel, Deputy DEM Coordinator Sussex County Sheriff’s Office Bureau of Emergency Management 135 Morris Turnpike, Newton, NJ 07860 (973) 579-0380 E-Mail: mvogel@sussexcountysheriff.com

9.1.2 COUNTY PROFILE

Please refer to Section 4, Volume I of this HMP for details on Sussex County’s population, location, climate, history, growth and development.

9.1.3 NATURAL HAZARD EVENT HISTORY SPECIFIC TO SUSSEX COUNTY

Sussex County has a history of natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities.

9.1.4 NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The risk ranking methodology is presented in Section 5.3. However, the county had the opportunity to adjust the final ranking based on feedback. The following summarizes the hazard vulnerabilities and their ranking in Sussex County. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.



Table 9.1-1. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Dam Failure	Damage estimate not available	Occasional	24	Medium
Drought	Damage estimate not available	Frequent	30	Medium
Earthquake	100-Year GBS: \$0 500-Year GBS: \$14,923,812 2,500-Year GBS: \$235,483,840	Occasional	28	Medium
Flood	1% Annual Chance: \$400,937,352	Frequent	18	Medium
Geologic	Exposed to Carbonate Rock Areas: \$9,575,514,146	Frequent	39	High
Hurricane	100-year MRP: \$6,432,989 500-year MRP: \$46,529,142 Annualized: \$378,623	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Weather	100-Year MRP: \$6,432,989 500-year MRP: \$46,529,142 Annualized: \$378,623	Frequent	48	High
Severe Winter Weather	1% GBS: \$201,574,696 5% GBS: \$1,007,873,480	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$1,327,559,728	Frequent	24	Medium
Hazardous Materials	Damage estimate not available	Frequent	36	High

Notes:

GBS = General building stock; MRP = Mean return period.

- a. The general building stock valuation is based on the custom inventory generated for the municipality and based on improved value.*
- b. High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 15-30+
Low = Total hazard risk ranking below 15*
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the estimated value of contents. Loss estimates for the flood and earthquake hazards represent both structure and contents. Potential flood loss estimates were generated using Hazus-MH 3.0 and the 2011 FEMA DFIRM for the 1-percent annual chance event. For the geologic and wildfire hazards, the improved value and estimated contents of buildings located within the identified hazard zones is provided.*





9.1.5 CAPABILITY ASSESSMENT

This section summarizes the following capabilities of Sussex County. Refer to Section 6 (Mitigation Strategy – Capability Assessment) for additional details on county programs and capabilities.

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the planning and regulatory tools that are available to Sussex County.

Table 9.1-1. Planning and Regulatory Tools

Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	County, Local	Division of Planning	Master Plan Study Report 2005 Strategic Growth Plan, updated 2014
Capital Improvements Plan	Yes (Partial), 2015	Local		Annual Capital Project Requests (Both in Summary and Detailed Forms)
Floodplain Management/Basin Plan	No			
Stormwater Management Plan	No			
Open Space Plan	Yes, 2003	County, Local	Division of Planning – Open Space Committee	Open Space and Recreation Plan
Stream Corridor Management Plan				
Watershed Management or Protection Plan	Yes, n.d.	Local	Division of Planning	Groundwater Manual
Economic Development Plan	Yes, 2009 and 2014	Local	Division of Planning, Vision 2020 Economic Strategy Committee	Target Business and Industry Analysis (2009), Sussex County Economic Base Assessment and Strategic Growth Plan Update (2014)
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes	Local	Office of Emergency Management	Emergency Operations Plan
Post-Disaster Recovery Plan	No			
Transportation Plan	Yes, n.d. (after 2000, before 2010), 2016	County, Local	Division of Planning	Ten-Year Mobility Study (2005), Master Circulation Plan for Transportation (draft, 2016)
Strategic Recovery Planning Report	No			



Tool/Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept./Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Other Plans:	Yes, 2008	County	Division of Planning – Sussex County Agriculture Development Board	Comprehensive Farmland Plan
	Yes, n.d.	County	Division of Planning	Natural Resources Inventory
	Yes, 2013	County	Division of Planning	Solid Waste Management Plan
	Yes, 2015	County	Division of Planning	NJAC 7:15
Regulatory Capability				
Site Plan Review Requirements	Yes, 2009	County, Local	Division of Planning & Municipal ordinances	Land Development Standards (authorized by NJS40:27-1 et. seq.) Municipal ordinances (NJS4 40:55D-1 et. seq.)
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes, 2009	County	Division of Emergency Management	Section 11.1b

Note: n.d. = No date

Administrative and Technical Capabilities

The table below summarizes potential staff and personnel resources available to Sussex County.

Table 9.1-2. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board, Board of Freeholders
Mitigation Planning Committee	Yes	Sussex County Pre-Disaster Mitigation Steering Committee (alternately, Working Group)
Environmental Board/Commission	Yes	Water Quality Policy Advisory Committee, Solid Waste Advisory Committee, Department of Environmental and Health Services
Open Space Board/Committee	Yes (Focused)	Open Space Committee
Economic Development Commission/Committee	No	Sussex County Economic Development Partnership (SCEDP)
Maintenance Programs to Reduce Risk	Yes	Sussex County DPW installs snow fencing; annually cleans storm drains and inspects storm drains pre- and post-storm events
Mutual Aid Agreements	Yes	Intra-County Agreements County Fire Box Alarms Norwest Region (Hunterdon, Somerset, Sussex, Warren) Statewide HazMat





Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Planning Division, Engineering
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Division of Public Works—Office of Roads, Engineering
Planners or engineers with an understanding of natural hazards	Yes	Department of Engineering and Planning
NFIP Floodplain Administrator	No	
Surveyor(s)	Yes	Department of Engineering and Planning – Division of Engineering
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Office of GIS Management
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Sherriff’s Office—Office of Emergency Management
Grant Writer(s)	Yes	Planning Division
Staff with expertise or training in benefit/cost analysis	Yes	Sussex County Department of Finance
Professionals trained in conducting damage assessments	Yes	Sussex County Engineering and Division of Public Works, Sheriff Office of Emergency Management

Fiscal Capability

Mitigation projects and initiatives are largely or entirely dependent on available funding. The table below summarizes financial resources available to Sussex County.

Table 9.1-3. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact Fees for homebuyers or developers of new development/homes	No
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	Yes
Corridor Enhancement Funds	No

Education/Outreach and Community Classifications

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to Sussex County.



Table 9.1-4. Education/Outreach and Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	N/A		
Public Protection (ISO Fire Protection Classes 1 to 10)	N/A		
Storm Ready	NP	N/A	N/A
Firewise	NP	N/A	N/A
Disaster/Safety Programs in/for Schools	Yes	L.E.A.D. (Sheriff's Office), Juvenile Fire Watch Program (Fire Marshal)	N/A
Organizations with Mitigation Focus (advocacy group, non-government)	No	N/A	N/A
Public Education Program/Outreach (through website, social media)	Yes	Social Media, Website (Prevention/Preparedness, Notification, Mitigation, Public Health)	N/A
Public and Private Partnerships	Yes	Sussex/Warren COAD, and Sussex County Chamber of Commerce	

N/A = Not applicable; NP = Not participating

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery, and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The Community Rating System (CRS) class applies to flood insurance while the Building Code Effectiveness Grading Schedule (BCEGS) and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1,000 feet of a creditable fire hydrant and is within five road miles of a recognized fire station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc-program.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the county's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.





Table 9.1-5. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability	X – due to staffing and funding restrictions		
Administrative and Technical Capability	X – due to staffing and funding restrictions		
Fiscal Capability	X – due to staffing and funding restrictions		
Political Capability	X – due to staffing and funding restrictions		
Resiliency Capability	X – due to staffing and funding restrictions		
Capability to Integrate Mitigation into Processes and Activities.	X – due to staffing and funding restrictions		

Additional Capabilities

Please refer to following subsection (Integration of Hazard Mitigation Into Existing and Future Planning Mechanisms) and Section 6 for details on county capabilities.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

It is the intention of Sussex County to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of the county’s administrative, regulatory and operational framework. A summary of how Sussex County currently integrates hazard mitigation into daily operations is presented below. In addition, the county identified specific integration activities that will be incorporated into procedures and are included in their updated mitigation strategy.

Planning

- Planning Department has a county Master Plan – working on a Master Circulation Plan (in draft) for transportation
- New action: The County will consider reviewing the HMP when updating the county Master Plan

Sussex County has developed or participated in the development of a Master Plan, Annual Capital Project Requests, Open Space and Recreation Plan, Groundwater Manual, Target Business and Industry Analysis, Economic Base Assessment and Strategic Growth Plan, Emergency Operations Plan, Ten-Year Mobility Study, Comprehensive Farmland Plan, Land Development Standards, Natural Resources Inventory, and Solid Waste Management Plan. The County is currently working on a Master Circulation Plan (in draft) for transportation as well. Many of these plans consider floodplains, steep slopes, and other environmentally constrained areas; the county will also consider reviewing the HMP when updating the county Master Plan. Additionally, several of the plans consider smart or strategic growth practices.

The Board of Chosen Freeholders serves as the top governing body in Sussex County. They approve major initiatives, capital improvement spending, and other high level decisions for the County. Additionally, the Board sets policies for five major departments in the county—Department of Central and Shared Services, Department of Engineering and Planning, Department of Environmental and Public Health Services, Department of Finance and Library Services, and Department of Human Services—as well as the 12 Divisions and other boards, commissions, authorities, and committees in the county. The Freeholders are supported in their duties by the County Administrator.





Sussex County also has a Wastewater Management Plan.

Sussex County participates in New Jersey's Radiological Program, per NJOEM's Radiological Program Guidelines, and shared appropriate informational pamphlets with residents on the Sheriff's Office website. Sussex County OEM is privy to hazardous materials (HazMat) and capabilities for response if needed.

Regulatory and Enforcement (Ordinances)

Many hazard mitigation and disaster preparedness regulations are enacted at the local level in Sussex County; however, the county supports its local jurisdictions in preparing and enforcing ordinance updates, as appropriate. Sussex County also assists in Site Plan Reviews and provides other resources to ensure municipalities can meet State and Federal regulations.

Additionally, per the NJDEP requirements, the county DPW cleans catch basins each year and cleans in-let and outlets as needed or requested. If fall rains are forecasted, DPW makes sure the catch basins are clear and open; the county also marks the catch basins in the fall to identify their locations for the winter months. These activities are coordinated between DPW and Engineering on a daily basis, facilitated by both departments having the same administrator.

The County Right to Know Coordinator maintains effective coordination and information sharing related to hazardous material sites with NJOEM and the Right to Know Network. The Sussex County HAZMAT team integrates data about hazardous materials with most current available information about other risk factors, e.g. population, climate, other site-specific characteristics.

Operational and Administration

The Department of Engineering and Planning, and other relevant departments maintain relationships with the U.S. Army Corps of Engineers (USACE) and Rutgers University, along with other important regional stakeholders. These relationships help provide the county with technical information and/or assistance in the identification of hazard areas and risk assessments.

Sussex County DEM and the Planning Division encourage compliance with floodplain management as it relates to new and existing construction by integrating hazard mitigation practices with zoning, subdivision ordinances, comprehensive planning, and other land use tools at the municipal level.

The Board of Chosen Freeholders reviews information from county Engineering, DPW, and Planning Division to determine project priorities and release capital improvement funding. These projects include addressing roads that experience frequent flooding (i.e., roadway design and drainage improvements) or are otherwise vulnerable to disasters and hazards.

Funding

Operating Budget: The county's operating budget contains provisions for necessary capital and infrastructure projects, as well as public safety and mitigation initiatives. In the 2015 budget, Sussex County identified \$315,116 to be allocated to emergency management (about \$8,000 more than was allocated in the 2014 budget). Sussex County also funds other departments involved in mitigation, such as public health, planning, and public works.

Outside Funding: While much of the county's revenue comes from taxes and other fees, part of its revenue is grant-related or received through State Aid. This includes funding from the State Homeland Security Grant Program, Emergency Management Agency Assistance, funding from the NJ Department of Law and Public Safety for the HMP Update, and other relevant programs. Sussex County also participates in regional or multi-county grant funding opportunities, as needs dictate and opportunities arise.



Capital Projects: The county Capital Budget Request is the vehicle that county departments use to undertake various projects, including mitigation, stormwater management, and drainage enhancements. The 2015 Sussex County budget provides detailed and summary versions of its Capital Budget Request; the detailed version groups projects by relevant departments and categories. Projects of interest include road and bridge enhancements, stormwater improvements, fire security systems upgrades, and security upgrades.

Education and Outreach

Sussex County conducts public outreach regarding hazard mitigation through collaboration with local schools, colleges, and community groups. For instance, the county supports the American Society of Civil Engineers Future Cities Competition by way of Engineering Department mentoring a competing team. The competition will educate middle school students on planning and responding to storm events.

The county utilizes a wide variety of tools and forums to disseminate preparedness and alert information to as many residents as possible. The most widely used include the Sussex County DEM and Public Health websites and the Sussex County and DEM Facebook page. Sussex County DEM has a booth at the NJ State Fair with information on FEMA programs and mitigation. The County DPW also maintains a list of road closures on the County website (used during Irene and Sandy), and it sends out construction notices to local jurisdictions, which, in turn, distribute the information where needed. The figure below is of the Sussex County DEM webpage and provides an indication of the comprehensiveness of county resources.

The Sussex County DEM also oversees two community alert programs—Swift911 and Register Ready. Swift 911 enables the County to provide residents with critical information during hazard events. Residents can select to be notified by phone, e-mail, text message, hearing impaired devices, and more. Register Ready is a statewide program to ensure individuals with disabilities or who may need extra assistance can receive help or advance notification of an impending hazard event.

The Sussex County DEM conducts outreach to municipal Emergency Management Coordinators; Floodplain Administrators; departments of planning, public works, engineering, etc.; and other local officials regarding the importance of hazard mitigation planning and provision of municipal plans and data for planning purposes during related meetings (such as the Emergency Management Coordinator meetings). Sussex County DEM staff also attend New Jersey and other preparedness conferences as appropriate and as funding allows.

Sussex County maintains an Office of GIS Management, which provides multiple helpful links to residents, including the map applications for bridge and road closures, government services, and West Nile Virus surveillance. It also has prebuilt maps on property parcels, polling locations, watershed boundary (HUC 11), active storm paths, bedrock geology, wetlands, aerial photography, floodplains, and sewer service areas.

9.1.6 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

For the 2016 HMP update, all previous county actions and their status are listed in the table below. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Figure 9.1-1. Sussex County DEM Webpage

SUSSEX COUNTY SHERIFF'S OFFICE
SHERIFF MICHAEL STRADA

ABOUT CIVIL PROCESS COURTHOUSE SECURITY CORRECTIONAL FACILITY COMMUNITY PROGRAMS WANTED Search

ABOUT

- > Administration
- > Bureau of Corrections
- > Bureau of Law Enforcement
- > Emergency Management
- > Fire Marshal
- > Employment
- > Sheriff's Office History

Sussex County's Wanted
CHECK OUT WHO'S WANTED BY LAW ENFORCEMENT IN SUSSEX COUNTY.

Foreclosure Listings
Online and up-to-date database of sheriff's sales.

Inmate Visitation
What you need to know.

Emergency Management

Emergency Management Coordinator: Sheriff Michael F. Strada
Deputy Coordinator: Corporal Mark Vogel, CEM MEP
Deputy Coordinator: George Arnot

The Division of Emergency Management is a county-level emergency service required by statute that coordinates all available resources to serve the needs of Sussex County during times of emergency events and disasters.

In carrying out its responsibilities, the division oversees the emergency management activities of all county agencies and Sussex County's twenty four municipalities. Each municipality has an emergency management coordinator with whom this division interacts and the coordinators, in turn, interact at the local level with police, fire, EMS, public works, public health, schools, etc.

Preparing for and carrying out all emergency functions—also known as comprehensive emergency management—is accomplished in four phases. A description of these phases and the division's role in each are described below.

Mitigation
The division has developed a county-wide pre-disaster all-hazards mitigation plan that has identified hazards and vulnerabilities in all of Sussex County's twenty four municipalities.

Preparedness

Source: http://www.sussexcountysheriff.com/about/emergency_management/



Table 9.1-6. Past Mitigation Initiative Status

<u>Initiative Number</u>	<u>2011 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2016 HMP? or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
County Engineering 1	Hydrology study for flow impact at Vernon Crossing Bridge in support of potential new bridge.	County Engineer	Complete	This project was funded by FEMA and County funding		
County Engineering 2	Hydrology study of Neldon's Brook located at County Road 622 and Bridge S-25	County Engineer	No Progress	This is no longer a county priority	Discontinue	No longer a County priority.
County Facilities 1	Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.	Director of Public Works	No Progress	No progress due to lack of funding	Include in 2016 HMP	Change Responsible Party to County Facilities.
County Facilities 2	Retrofit roof to meet current standards for snow load of original section of County Public Safety Training Academy located on Morris Turnpike.	County Facilities Director	No Progress	This is not a County-owned building	Discontinue	Cannot be completed by County as building is not owned by County.
County Facilities 3	Retrofit roof to meet current standards for snow load of the original Homestead Healthcare Facility building located on Morris Turnpike.	County Facilities Director	No Progress	This is not a County-owned building	Discontinue	Cannot be completed by County as building is not owned by County.
1.A.1	Develop All Hazards public education and outreach program for hazard mitigation and preparedness.	SCDEM and municipal OEM	Complete	This is a capability that is on-going (Facebook, at the NJ State Fair Sussex DEM has a booth on FEMA programs and mitigation).	Discontinue	Capability of the County - see Integration subsection.





Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
1.A.2	Initiate a public awareness program on local cable TV for hazard safety.	SCDEM and municipal OEM	No Progress	A very small audience watches local cable TV. The County will reach a bigger audience on FM radio – see new action to generate public awareness on the Sussex County College radio station.	Include in 2016 HMP	Refer to new action to conduct preparedness outreach on the new Sussex County College radio station.
1.A.3	Conduct yearly workshops related to the Federal Emergency Management Agency (FEMA) hazard mitigation grant programs, including Flood Mitigation Assistance (FMA) program, Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) program, Severe Repetitive Loss (SRL) program, and Repetitive Flood Claim (RFC) program, with a focus on those aspects available to private firms and property owners.	SCDEM and NJOEM	In Progress	The County receives information from the State. NJOEM gave a presentation at the kick-off meeting at the start of the HMP planning process and at the mitigation strategy meeting. See more targeted revised action.	Include in 2016 HMP	Agency Lead: SCDEM and Engineering Revised action: Conduct annual workshop related to the FEMA HMA grant programs (HMGP, PDM, FMA). This may be done at quarterly OEM coordinator meetings and invite other County departments.



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
1.A.4	Educate the public through NJOEM and New Jersey Forest Fire Service outreach programs and hazard mitigation workshops.	SCDEM, NJOEM, New Jersey Forest Fire Service	No Progress	Project will be revised for current County needs and capabilities.	Include in 2016 HMP	Agency Lead: SCDEM Coordinate a yearly program for public information on wildfire with NJ Forest Fire Service (Division A Liaison); and post this information on the County website regarding the wildfire hazard (including current information about fuel loads and conditions that may affect potential for fires).
1.B.1	Conduct yearly workshops related to FEMA hazard mitigation grant programs, including FMA, HMGP, PDM, SRL, and RFC (coordinated with Action 1.A.4, above).	SCDEM, NJOEM	In Progress	This is a duplicate of 1.A.3	Discontinue	Duplicate project
1.C.1	Reach out to municipal floodplain Administrators, departments of planning, public works, engineering, etc. regarding the importance of hazard mitigation planning and provision of municipal plans and data for planning purposes.	SCDEM and municipal OEM	In Progress	This is included as plan maintenance (see Section 7 of this HMP update)	Discontinue – incorporated as part of plan maintenance	This action is incorporated as part of the plan maintenance.



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.1	Develop and maintain relationships with organizations that can provide technical information and/or assistance in the areas of hazard identification and risk assessment.	SCDEM, Rutgers University, NJGS, NOAA, and USACE	In Progress	This is the role of the SC OEM and they currently do this as part of their mission; current capability.	Discontinue	This is an ongoing, operational capability.
2.A.2	Undertake site-specific studies to better characterize flood risks to areas with extensive flood loss histories (see also municipal actions)	SCDEM and municipal OEM	No Progress	SCDEM and municipal OEM do not have this responsibility.	Discontinue	This is a Department of Engineering responsibility on a project-specific basis as needed.
2.A.3	Use best possible flood data, including Digital Flood Insurance Rate Map and Map Mod data, if available, in next plan update. Track implementation of Risk MAP initiative to ensure Sussex County and municipalities gain full advantage of opportunities under this program.	SCDEM and municipal OEM	Complete	The HMP update used best available flood data to update the risk assessment. This action is complete.		



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.4	Bi-annually update and verify status of repetitive loss and severe repetitive loss lists from the National Flood Insurance Program (NFIP).	SCDEM and municipal OEM	No Progress	No progress.	Include in 2016 HMP	Combine with 1.A.3 above – request and distribute NFIP statistics to OEM coordinators at the County OEM Coordinator meetings; SCDEM will email the State for updated stats prior to meeting.
2.A.5	Inventory critical facilities to identify those in geographic areas that may be prone to high ground motion during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake.	SCDEM with support from NJGS	No Progress	There has been no progress due to the lack of funding. Engineering does not have the staff – need to contract out.	Include in 2016 HMP	Engineering Department has ASCE Publication 7 New lead: County Facilities and Engineering Inventory the critical facilities to identify those in geographic areas that may be prone to high ground motion during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake. Study will include determine soil and shake characteristics



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.6	Coordinate with state efforts to prioritize critical facilities and conduct more detailed earthquake risk assessments, taking into account the relative importance of the facility and the level of seismic hazard.	SCDEM, FEMA, NJGS	No Program	This action has been incorporated into 2.A.5 and 2.A.7.	Discontinue	See 2.A.5 and 2.A.7-combined action for the update.
2.A.7	Work with New Jersey Geological Survey (NJGS) to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces, and then work with engineers to develop appropriate projects.	SCDEM and municipal OEM	No Progress	No progress – see revised action and new agency lead	Include in 2016 HMP	Work to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces. Based on these results, analyze the critical structures to determine if the structures are sound and next steps to further mitigate. New Leads: County Facilities and Engineering



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.8	Coordinate with NJGS and other county, state and federal agencies to better identify specific sites in Sussex County that may be exposed to the effects of geo-hazards such as landslides, sinkholes, and subsidence.	SCDEM, municipal OEMs, NJDEP, NJGS	Complete	This has been mapped and information is at the Sussex County Soil Conservation District (book by Sylvester Fletcher). HMP update will conduct this evaluation based on critical facilities identified in the planning process.		
2.A.9	Using a prioritized list of state, county, and local facilities, coordinate with state effort to survey wind vulnerabilities, based on criteria such as age of the facility, value of operations, proximity to the coast, etc.	SCDEM, NJOEM, with cooperation of other agencies that own and/or operate the facilities, New Jersey State Climatologist	In Progress	Many buildings in the County were designed to 70 mph; now the code is 90 mph. NJDCAs has a wind map – can be downloaded from their website	Include in 2016 HMP	Identify wind vulnerabilities at County critical facilities because buildings were designed to 70 mph; new updated code is 90 mph. New lead: County Facilities
2.A.10	Conduct wind risk assessments on a limited number of high-priority facilities that appear to be vulnerable to high winds. Assessments will use standard FEMA guidelines, procedures, and software, including the wind hazard database.	SCDEM and municipal OEMs	In Progress	See updated 2.A.9	Discontinue	Combined with action above. See updated action for 2.A.9



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.11	Coordinate with state efforts to inventory or survey of prioritized areas to determine if there is a need for additional study or data collection related to wildfire and/or urban-interface fires. Focus of inventory/study will be on identifying areas where there exist vulnerable populations or built environment and/or areas where fuel loads and other conditions suggest potential wildfire risk.	SCDEM, municipal OEMs, NJFFS, NJOEM	No Progress	NJFFS is the lead for updating WUI areas in the state; not Sussex County.	Discontinue	County would not be the initiator of this project. Not appropriate as a County-led action.
2.A.12	Coordinate with state efforts to maintain current information about fuel loads and conditions that may affect potential for fires.	SCDEM, municipal OEMs, NJFFS	No Progress	NJFFS is the lead for updating WUI areas in the state, not Sussex County.	Discontinue	County would not be the initiator of this project. Not appropriate as a County-led action.
2.A.13	For areas with significant risk from wildfires or urban interface fires, perform detailed studies to objectively determine (a) potential for wildfires, including likely magnitude, & (b) vulnerabilities of surrounding populations, built environment, and functions.	SCDEM, municipal OEMs, NJFFS, NJOEM	No Progress	NJFFS will provide County with updated information. Interface is responsibility of municipalities.	Discontinue	County would not be the initiator of this project. Not appropriate as a County-led action.



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.14	Coordinate with state efforts to conduct wildfire risk assessments for areas and assets that are determined to have the most hazard (fuel load, etc.) potential, and the most vulnerable structures, populations, or operations.	SCDEM, NJFFS, outside engineering consultants	Complete	HMP update utilized most current NJFFS mapping for risk assessment.		
2.A.15	Maintain effective coordination and information sharing related to hazardous material sites with NJOEM and the Right to Know Network.	SCDEM, RTK Network, NJOEM	In Progress	The County RTK Coordinator maintains this information and is currently a capability.	Discontinue	This is a County capability. Refer to the integration subsection presented earlier in this annex.
2.A.16	Complete data collection for Geographic Information System (GIS) analysis and mapping of potential areas of impact related to hazardous material sites.	SCDEM, county agencies	Complete	Complete – County has critical infrastructure layer that includes hazardous material sites.		
2.A.17	Integrate data about hazardous materials with most current available information about other risk factors, e.g. population, climate, other site-specific characteristics.	SCDEM, Sussex County HazMat, RTK Network, NJDEP, U.S. EPA	Complete	Complete – SC has a HazMat Team and this is their responsibility; this is currently a capability.		



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.18	Complete a detailed analysis of past losses related to winter storms to determine if additional study is indicated.	Sussex County and local agencies with critical facilities	No Progress	This is no longer a priority of the County	Discontinue	
2.A.19	Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads.	Sussex County and local agencies with critical facilities	No Progress	See revised action and new agency lead.	Include in 2016 HMP	Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads such as the Sherriff's Office: New Lead: County Facilities
2.A.20	Work with appropriate agencies to identify specific areas that are vulnerable to storm effects, then inventory assets and populations in these areas as the basis for a risk calculation.	SCDEM, NOAA, USACE, local officials, NJDEP	Complete	The HMP update risk assessment addresses this.		
2.A.21	Work with New Jersey Department of Environmental Protection to more fully understand the dam hazard rankings and methodology behind them, particularly regarding high-hazard sites.	SCDEM, NJDEP	Complete	NJDEP provided Municipal Coordinators and OEM information on all high hazard damages and an Excel spreadsheet was provided to Coordinators with a list of dams in their jurisdiction		



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.22	Undertake more detailed engineering studies of dams that may pose risks to the county, based on additional data collected from state or federal agencies.	SCDEM, NJDEP, NJOEM	No Progress	Limited resources and funding	Discontinue	Not a current priority due to lack of funding.
2.A.23	Conduct detailed risk assessments for dams that appear to have vulnerabilities, and where there is potential for significant damage or loss of life.	SCDEM, NJDEP, engineering consultants	Complete	This is part of the high-hazard damage analysis (NJDEP lead).		
2.A.24	Consolidate and incorporate relevant local data related to hazards, extent, probability, exposure, risk, history, etc.	SCDEM and municipal OEMs	Complete	OEM (County and municipal level) – part of their responsibilities and information is in the County Emergency Operations Plan and relevant information is included HMP update		
2.A.25	Work with ongoing county, state, and federal efforts to develop and maintain hazard-specific geospatial data necessary to perform full risk assessments for all relevant hazards in Sussex County.	SCDEM	Complete	HMP update will provide risk assessment results to the County GIS office.		



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A.26	Conduct detailed risk assessments for levees which appear to have vulnerabilities, and where there is potential for significant damage or loss of life.	SCDEM, DELO, NJDEP, engineering consultants	No Progress	The County does not have any levees.	Discontinue	Not applicable to County.
2.A.27	Work with NJDEP and other agencies to compile better information about levees in the State, including inventories, engineering data, and any other studies (in particular those that may discuss or catalog past levee failures).	SCDEM, DELO, NJDEP, engineering consultants	No Progress	The County does not have any levees.	Discontinue	Not applicable to County.
2.A.28	Conduct a detailed study to identify and map erosion hazard zones.	SCDEM, NJDEP and USACE	No Progress	Erosion studies are conducted on a project-specific basis as needed.	Discontinue	Not needed as an individual action, based on current County processes.
2.A.29	Undertake more detailed engineering studies of levees that may pose risks to the county, based on additional data collected from local, state or federal agencies.	SCDEM, NJDEP, NJOEM	No Progress	The County does not have any levees.	Discontinue	Not applicable to County.
2.A.30	Coordinate with state efforts to undertake detailed vulnerability assessments and develop mitigation options for critical facilities in A and AE zones.	Sussex County and municipal OEMS	Complete	As per the 2016 HMP update, flood-vulnerable facilities identified in the risk assessment.		



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.B.1	Participate in the Emergency Preparedness Conference and workshops	SCDEM and municipal OEMs, NJOEM, NJFFS	In Progress	County DEM attends annually	Include in 2016 HMP	
2.C.1	Develop a database inventory of critical facilities countywide (county-, local-, and privately-owned), including fire and police stations, medical facilities, and major public buildings important for emergency response and recovery, and critical lifeline transportation and utility nodes such as bridges, water treatment plants, wastewater treatment plants, high voltage electric substations, and hazardous materials facilities.	SCDEM and municipal OEM	Complete	As per the 2016 HMP update, a critical facility inventory was generated and provided to the County for future updates.		
2.C.2	Prioritize critical facilities and complete Phase 1 site surveys to identify vulnerabilities.	SCDEM and municipal OEM	Complete	Vulnerability of critical facilities were identified as part of the HMP update; remove. Phase 1s are conducted on an as-needed basis.		



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3.A.1	Continue working with the state, as well as local jurisdictions, to encourage local cooperation in making Repetitive Loss (RL) (and SRL) property mitigation a high priority, and offering municipalities technical support in carrying out the requirements of FEMA mitigation programs as well as current information related to RL and SRL properties. This represents a basic requirement to initiate and sustain program momentum for RL and SRL mitigation.	SCDEM	In Progress	Support the mitigation of flood-vulnerable properties in the County. Use standard language action for this one.	Include in 2016 HMP	Revised phrasing: "Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option (in progress). Phase 2: Work with the property owners to implement selected action based on available funding from FEMA and local match availability."
3.A.2	Provide grants information, planning tools, training and technical assistance to increase the number of public and private sector hazard mitigation projects.	SCDEM, NJOEM, FEMA Region II	In Progress	Refer to updated action 1.A.3 above. Remove this action.	Discontinue	Refer to updated action 1.A.3 above.



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3.A.3	Conduct direct outreach and education to municipal OEMs and other potential participants in Plan maintenance and future plan updates.	SCDEM	Complete	This is part of HMP plan maintenance. This conducted annually at the quarterly OEM meeting. Refer to 1.A.3.		
3.A.4	Work with NJOEM and FEMA to incorporate “recommended revisions” per NJOEM and FEMA Region II review of this Plan into future Plan updates.	SCDEM	Complete	This has been completed as part of the HMP update planning process.		
3.B.1	Conduct community outreach, workshops, and training to increase NFIP participation (coordinate with outreach actions listed under Objectives 1.A and 1.B).	SCDEM, NJOEM	No Progress	This is a municipal-level action. Every community in the County participates in the NFIP.	Discontinue	Not applicable to County.
3.B.2	Encourage municipalities to participate in the Community Rating System (CRS) program, including potentially setting up CRS site visits and/or workshops for interested municipalities.	SCDEM, NJOEM	Complete	The County supports participation in the CRS. This is a municipal-led action.		
3.B.3	Encourage municipalities to include identification and prioritization of actions related to future participation in and compliance with the NFIP.	SCDEM and municipal OEM	Complete	The County supports NFIP compliance. This is a municipal-led action.		



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3.C.1	Encourage enforcement of floodplain management as it relates to new and existing construction by integrating hazard mitigation practices with zoning, subdivision ordinances, comprehensive planning, and other land use tools at the municipal level.	SCDEM, NJDEP, municipal officials	Complete	The County supports this action. This is a municipal-led action.		
3.C.2	Coordinate with state efforts to encourage the New Jersey League of Municipalities to become more involved in mitigation activities, and in particular to support the activities described in Action 3.C.1 and 3.D.1.	SCDEM, NJOEM, New Jersey League of Municipalities	No Progress	As a County entity Sussex is not part of the NJ League of Municipalities. This is a municipal-led action.	Discontinue	Not applicable to County.



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
3.D.1	Encourage enforcement of floodplain management as it relates to new and existing construction by integrating hazard mitigation practices with zoning, subdivision ordinances, comprehensive planning, other land use tools, and environmental and other regulatory mechanisms via state requirements, reviews, and regulations. Coordinate with the State Planning Commission to integrate the State Development and Redevelopment Plan and the State Hazard Mitigation Plan Update.	SCDEM, NJDCA, State Planning Commission, municipal building inspectors, zoning boards	Complete	The County supports this action. This is a municipal-led action.		
3.E.1	Develop a simple GIS platform, or build upon an existing platform, to maintain and analyze critical facilities inventories and information about hazards.	SCDEM working with neighboring counties	Complete	County has a GIS consultant that completed this action.		
3.F.1	Explore potential for possible regionalization or consolidation of hazard mitigation planning, administration, and/or implementation at the county level.	SCDEM	Complete	Original plan was done on a regional level. The outcome was that it is preferable to do at the HMP update at the County-level.	Discontinue	The County has considered this potential and decided it is not an appropriate strategy for Sussex County needs.



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
3.F.2	Increase understanding of the capabilities of municipal mitigation programs by continuing to encourage local coordinators to participate in the Municipal Capabilities Assessment Survey.	SCDEM	Complete	All municipalities are participating in the 2016 HMP update and an updated capability assessment was completed.		
3.G.1	Provide regular summaries to neighboring communities re: plan monitoring and update procedures (as outlined in Section 7) and post updates on Sussex County's website for public access to the plan update process.	SCDEM	Complete	Part of HMP update planning process		
4.A.1	Coordinate with state efforts to develop and implement a detailed severe repetitive loss mitigation strategy that will qualify the county and municipalities for 90:10 cost share under the FEMA SRL program.	SCDEM, NJOEM	In Progress	See previous actions regarding mitigation grant programs (SRL now FMA).	Discontinue	See previous actions regarding mitigation grant programs (SRL now FMA).



Initiative Number	2011 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2016 HMP? or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
4.A.2	Continue working with local and regional jurisdictions to encourage and support their efforts to mitigate RL (and SRL) properties, either individually through the use of cluster solutions and/or basin projects, as appropriate, and offer technical support in carrying out the requirements of FEMA mitigation programs. (see	SCDEM, NJOEM	In Progress	Support the mitigation of flood-vulnerable properties – refer to 3.A.1 Default mitigation action.	Discontinue	This action is being combined with the revised wording for flood mitigation indicated above.
4.A.3	Implement mitigation projects and programs intended to reduce risk to critical facilities	SCDEM and municipal OEM coordinators	Complete	All mitigation projects are prioritized and implemented at the County level.		
4.A.4	Implement other mitigation projects and programs as appropriate at the municipal level.	SCDEM and municipal OEM coordinators	No Progress	The County supports this action. This is a municipal-led action.	Discontinue	Not applicable to County.
4.A.5	Promote acquisition and elevation of repetitive loss and severe repetitive loss structures	SCDEM, NJOEM	In Progress	Refer to 3.A.1 - Support the mitigation of flood-vulnerable properties – refer to 3.A.1 Default mitigation action	Discontinue	This action is being combined with the revised wording for flood mitigation indicated above.



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4.A.6	Work with NJGS and other county, state and federal agencies to better identify specific sites in the County that may be exposed to the effects of geo-hazards such as landslides, sinkholes, and subsidence.	SCDEM, NJDEP, NJGS	Complete	Refer to 2.A.8: This has been mapped and information is at the Sussex County Soil Conservation District (book by Sylvester Fletcher). HMP update will conduct this evaluation based on critical facilities identified in the planning process	Discontinue	Refer to 2.A.8.
4.B.1	Ensure full and effective enforcement of building codes, floodplain management, zoning, and other risk-reducing regulations.	SCDEM, municipal OEMs and local permitting and planning offices	No Progress	County does not have the authority to enforce municipal codes. County does enforce floodplain management if on properties fronting County roads (part of site-plan review).	Discontinue	
4.B.2	Integrate hazard mitigation Plan and priorities into Capital Improvement Plans, transportation planning and other capital planning.	SCDEM, municipal OEMs and local permitting and planning offices	In Progress	In progress	Include in 2016 HMP	NEW LEAD: County Planning Office in conjunction with local planning offices



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

Sussex County has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2011 HMP:

- County Engineering armored slopes by bridges with FEMA-funding post-disaster (approximately 70 locations).

Proposed Hazard Mitigation Initiatives for the Plan Update

Sussex County hosted a mitigation action workshop in April 2015 and distributed the following FEMA publications to municipality and county attendees to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013). In May 2015, Sussex County hosted a second workshop and was provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.2-11 summarizes the comprehensive-range of specific mitigation initiatives the county would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' Table 9.1-12 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.



Table 9.1-6. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Sussex County-1 (new)	Ensure continuity of operations at critical facilities and county-owned buildings. The following project was identified at this time: <ul style="list-style-type: none"> Secure a generator for the Sheriff's Office. 	Existing	All	1, 2, 3, 5, 6	Sheriff's Office, SCDEM	High	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Short, DOF	High	SIP	ES, PP
Sussex County-2 (revised old 4.B.2)	Incorporate hazard mitigation considerations and priorities into various County Plan updates, and integrate the County Master Plan with the County HMP during the Master Plan Update.	N/A	All	3, 4, 5, 6	SCDEM, Planning Division	Medium	Low	Staff Time, County Budget	Ongoing	High	LPR	PR
Sussex County-3 (new)	Design and implement a mitigation awareness campaign through County Planning or Rutgers Extension to Farms/Tree Farms regarding the ingestion pathway response for the radiological hazard.	Existing	Hazardous Materials, Nuclear Incident	1, 3, 4, 6	SCDEM, Planning Division, Rutgers Extension	Medium	Low/Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Ongoing	High	EAP	PI
Sussex County-4 (revised old 1.A.2)	Coordinate with the Sussex County College FM Radio Station to disseminate preparedness information.	Existing	All	All	SCDEM, Sussex County College	Medium	Low	Staff Time, County Budget	Short, then Ongoing	High	EAP	PI
Sussex County-5 (new)	Increase County capabilities to address tree and roadway maintenance, response and removal, and continuity of operations and purchase a new tree truck (70-foot, chipper box), updated stump grinder, and excavator.	New and Existing	All	1, 2, 6	DPW	High	High	FEMA HMA funding, Other Federal or State Grants, EMPG, Local Cost Share	Short, DOF	High	SIP	PR, ES, PP
Sussex County-6 (new)	Support continuity of operations at County buildings including the	New and Existing	All	1, 2, 6	Facilities Department	High	High	FEMA HMA funding,	Short, DOF	High	SIP	PR, ES, PP





Table 9.1-6. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	purchase and installation of generators including the Office of Bridges and Traffic, replace a generator at the Andover Garage/OEM warehouse, new generators new warming locations (libraries), shelters (Vo Tech)							Other Federal or State Grants, County Budget				
Sussex County-7 (old County Facilities 1)	Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.	Existing	Winter Weather	1, 2, 5, 6	Facilities Department	High	High	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	DOF	Medium	SIP	PP, ES
Sussex County-8 (revised old 1.A.3, 2.A.4)	Conduct annual workshop related to the FEMA HMA grant programs (HMGP, PDM, FMA). This may be done at quarterly OEM coordinator meetings and invite other County departments.	N/A	All	All	SCDEM and Engineering	High	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Ongoing	Medium	EAP	PI
Sussex County-9 (revised old 1.A.4)	Coordinate a yearly program for public information on wildfire with NJ Forest Fire Service (Division A Liaison); and post this information on the County website regarding the wildfire hazard (including current information about fuel loads and conditions that may affect potential for fires).	N/A	Wildfire	All	SCDEM	High	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Ongoing	High	EAP	PI
Sussex County-10 (revised old 2.A.5)	Inventory the critical facilities to identify those in geographic areas that may be prone to high ground motion	Existing	Earthquake	1, 2, 4, 5	Facilities Department and Engineering	Medium	Medium	FEMA HMA funding, Other	Short	Medium	LPR	PR, PP





Table 9.1-6. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake. Study will include determine soil and shake characteristics.							Federal or State Grants, Local Cost Share				
Sussex County-11 (revised old 2.A.7)	Work to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces. Based on these results, analyze the critical structures to determine if the structures are sound and next steps to further mitigate.	Existing	Earthquake	1, 2, 4, 5	Facilities Department and Engineering	Medium	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Short	Medium	LPR	PP, PP
Sussex County-12 (revised old 2.A.9, 2. A. 10)	Identify wind vulnerabilities at County critical facilities because buildings were designed to 70 mph; new updated code is 90 mph.	Existing	Severe Weather	1, 2, 4, 5	County Facilities	Medium	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Short, DOF	Medium	LPR	PP, PP
Sussex County-13 (revised old 2.A.19)	Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads such as the Sherriff's Office.	Existing	Winter Weather	All	County Facilities	High	Medium	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Short, DOF	Medium	LPR	PP, PP





Table 9.1-6. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Sussex County-14 (old 2.B.1)	Participate in the Emergency Preparedness Conference and workshops	N/A	All	3, 4	SCDEM and municipal OEMs, NJOEM, NJFFS	Medium	Low	Staff Time, County Budget	Ongoing	Medium	EAP	PI
Sussex County-15 (revised 3.A.1)	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option Phase 2: Work with the property owners to implement selected action based on available funding from FEMA and local match availability.											
	See above.	New and Existing	Flood, Severe Weather	1, 2, 5	SCDEM	High	High	FEMA HMA funding, Other Federal or State Grants, Local Cost Share	Long	Medium	SIP	PR, SP, PP

Notes:

Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DEM Division of Emergency Management
- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- PDM Pre-Disaster Mitigation Grant Program

Timeline:

- Short 1 to 5 years
- Long Term 5 years or greater
- OG On-going program
- DOF Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

- Low < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000

Where actual project costs cannot reasonably be established at this time:

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

- Low= < \$10,000
- Medium \$10,000 to \$100,000
- High > \$100,000





Costs:

- Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.*
- Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.*
- High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.*

Benefits:

- Where numerical project benefits cannot reasonably be established at this time:*
- Low Long-term benefits of the project are difficult to quantify in the short term.*
- Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.*
- High Project will have an immediate impact on the reduction of risk exposure to life and property.*

Mitigation Category:

- *Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.*
- *Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.*
- *Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities*

CRS Category:

- *Preventative Measures (PR)-Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.*
- *Property Protection (PP)-These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.*
- *Public Information (PI)-Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR)-Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP)-Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES)-Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*



Table 9.1-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High/Medium/Low
Sussex County-1 (new)	Ensure continuity of operations: Secure a generator for the Sheriff's Office.	1	1	1	1	1	1	-1	0	1	1	1	1	0	0	9	High
Sussex County-2 (revised old 4.B.2)	Incorporate hazard mitigation considerations and priorities into various County Plan updates, and integrate the County Master Plan with the County HMP during the Master Plan Update.	1	1	1	1	1	1	1	1	1	-1	1	0	0	1	10	High
Sussex County-3 (new)	Design and implement a mitigation awareness campaign through County Planning or Rutgers Extension to Farms/Tree Farms regarding the ingestion pathway response for the radiological hazard.	1	1	1	1	1	1	0	0	1	0	0	1	1	0	9	High
Sussex County-4 (revised old 1.A.2)	Coordinate with the Sussex County College FM Radio Station to disseminate preparedness information.	1	1	1	1	1	1	1	0	1	0	1	1	1	1	12	High
Sussex County-5 (new)	Increase County capabilities to address tree and roadway maintenance, response and removal, and continuity of operations and purchase a new tree truck (70-feet, chipper	1	1	1	1	1	1	-1	0	1	1	1	1	1	0	10	High



Table 9.1-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High/Medium/Low
	box), updated stump grinder, and excavator.																
Sussex County-6 (new)	Support continuity of operations at County buildings including the purchase and installation of generators including the Office of Bridges and Traffic, replace a generator at the Andover Garage/OEM warehouse, new generators new warming locations (libraries), shelters (Vo Tech)	1	1	1	1	1	1	-1	0	1	1	1	1	0	0	9	High
Sussex County-7 (old County Facilities 1)	Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.	1	1	1	0	1	1	-1	0	1	1	0	1	0	0	7	Medium
Sussex County-8 (revised old 1.A.3, 2.A.4)	Conduct annual workshop related to the FEMA HMA grant programs (HMGP, PDM, FMA). This may be done at quarterly OEM coordinator meetings and invite other County departments.	1	1	1	0	1	1	0	0	1	-1	1	1	0	1	8	Medium
Sussex County-9 (revised old 1.A.4)	Coordinate a yearly program for public information on wildfire with NJ	1	1	1	1	1	1	0	1	1	1	-1	0	1	0	9	High



Table 9.1-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High/Medium/Low
	Forest Fire Service (Division A Liaison); and post this information on the County website regarding the wildfire hazard (including current information about fuel loads and conditions that may affect potential for fires).																
Sussex County-10 (revised old 2.A.5)	Inventory the critical facilities to identify those in geographic areas that may be prone to high ground motion during earthquakes (due to proximity to faults or to soil characteristics), and those with structures that may be at risk during an earthquake. Study will include determine soil and shake characteristics.	1	1	1	-1	1	1	-1	1	1	0	0	1	0	1	7	Medium
Sussex County-11 (revised old 2.A.7)	Work to determine soil and shake characteristics at specific sites that the county has identified as priority critical facilities with potential vulnerabilities to earthquake forces. Based on these results, analyze the critical structures to	1	1	1	-1	1	1	0	1	1	0	0	1	0	1	8	Medium



Table 9.1-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High/Medium/Low
	determine if the structures are sound and next steps to further mitigate.																
Sussex County-12 (revised old 2.A.9, 2. A. 10)	Identify wind vulnerabilities at County critical facilities because buildings were designed to 70 mph; new updated code is 90 mph.	1	1	1	-1	1	1	-1	0	1	1	1	1	0	1	8	Medium
Sussex County-13 (revised old 2.A.19)	Undertake a survey of critical facilities to identify and prioritize those that may have structural characteristics that make them vulnerable to excessive snow and ice loads such as the Sherriff's Office.	1	1	1	0	1	1	0	0	1	-1	0	1	0	1	7	Medium
Sussex County-14 (old 2.B.1)	Participate in the Emergency Preparedness Conference and workshops.	0	0	0	1	1	1	0	0	1	0	1	1	1	1	8	Medium
Sussex County-15 (revised 3.A.1)	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage;	1	1	1	0	1	1	-1	1	0	1	1	0	0	1	8	Medium



Table 9.1-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High/Medium/Low
	repetitive loss and severe repetitive loss properties should be a priority, when applicable.																

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.

9.1.7 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

None at this time.

9.1.8 HAZARD AREA EXTENT AND LOCATION

Hazard area extent and location maps have been generated for the Sussex County that illustrate the probable areas impacted within the County. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which Sussex County has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.1.9 ADDITIONAL COMMENTS

None at this time.

Action Number: Sussex County-1
Mitigation Action/Initiative: Sussex County Sheriff's Office Generator

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Power outages in the County; continuity of operations for Sheriff's Office
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Do nothing – vulnerability continues or worsens
	2. Secure a generator for the Sheriff's Office – selected action
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Secure a generator for the Sheriff's Office.
Action/Project Category	SIP
Goals/Objectives Met	1, 2, 3, 5, 6
Applies to existing, future, or not applicable	Existing
Benefits (losses avoided)	Reduced loss of life and property damage (High)
Estimated Cost	Medium
Priority*	
Plan for Implementation	
Responsible Organization	Sheriff's Office/Office of Emergency Management
Local Planning Mechanism	
Potential Funding Sources	FEMA HMA funding, Other Federal or State Grants, Local Cost Share
Timeline for Completion	Short, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Sussex County-1
Mitigation Action/Initiative: Sussex County Sheriff's Office Generator

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhances ability for continued operation of Sheriff's Office during hazard events.
Property Protection	1	Enhances ability for continued operation of Sheriff's Office during hazard events.
Cost-Effectiveness	1	Most cost-efficient project option.
Technical	1	Technically feasible.
Political	1	Supported by County.
Legal	1	
Fiscal	-1	Requires external funding.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	Short, DOF
Agency Champion	0	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	High	

Action Number:	Sussex County-5
Mitigation Action/Initiative:	Increase County capabilities to address tree maintenance, response and removal, and continuity of operations

Assessing the Risk	
Hazard(s) addressed:	All – debris removal
Specific problem being mitigated:	The County currently has limited capabilities to respond to tree and roadway maintenance; equipment is aging and is costly to rent and repair. Updated equipment is needed to maintain roadway access for emergency and evacuation purposes.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Do nothing – vulnerability continues or worsens
	2. Increase County capabilities for road and tree maintenance – selected action
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Increase County capabilities to address tree and roadway maintenance, response and removal, and continuity of operations and purchase a new tree truck (70-foot, chipper box), updated stump grinder, and excavator.
Action/Project Category	SIP
Goals Met	1, 2, 6
Applies to existing and or new development, or not applicable	New and Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	County DPW
Local Planning Mechanism	
Potential Funding Sources	FEMA HMA funding, Other Federal or State Grants, EMPG, Local Cost Share
Timeline for Completion	Short, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Sussex County-5

Mitigation Action/Initiative: Increase County capabilities to address tree maintenance, response and removal, and continuity of operations

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce risk of accidents on roadways
Property Protection	1	Reduce property and infrastructure damage from debris
Cost-Effectiveness	1	Most cost-effective project option
Technical	1	
Political	1	Supported by County
Legal	1	
Fiscal	-1	Requires external funding
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards resulting in debris
Timeline	1	Short, DOF
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	

Action Number:	Sussex County-6
Mitigation Action/Initiative:	Support continuity of operations at County buildings including the purchase and installation of generators including the Office of Bridges and Traffic and Andover Garage/OEM Garage

Assessing the Risk	
Hazard(s) addressed:	All hazards
Specific problem being mitigated:	Lack of backup power at County facilities to support continuity of operations
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Purchase and install generators – propane/diesel/natural gas
	2. Co-Gen facility
	3. Do nothing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support continuity of operations at County buildings including the purchase and installation of generators including the Office of Bridges and Traffic, replace a generator at the Andover Garage/OEM warehouse, new generators new warming locations (libraries), shelters (Vo Tech)
Action/Project Category	SIP
Goals Met	1, 2, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	County Facilities Department
Local Planning Mechanism	
Potential Funding Sources	FEMA HMA funding, Other Federal or State Grants, County Budget
Timeline for Completion	Short, DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Sussex County-6

Mitigation Action/Initiative: Support continuity of operations at County buildings including the purchase and installation of generators including the Office of Bridges and Traffic and Andover Garage/OEM Garage

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Enhances ability for continued operations of County critical facilities, increasing efficiency of emergency responders.
Property Protection	1	Enhances ability for continued operations of County critical facilities, increasing response and repair time for damage.
Cost-Effectiveness	1	Most cost-efficient project option.
Technical	1	Technically feasible.
Political	1	Supported by County.
Legal	1	
Fiscal	-1	Requires external funding.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	Short, DOF
Agency Champion	0	
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	High	

Name of Jurisdiction:	Sussex County
Action Number:	Sussex County-7
Mitigation Action/Initiative:	Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.

Assessing the Risk	
Hazard(s) addressed:	Winter Weather
Specific problem being mitigated:	County DPW Building does not currently meet standards for snow load, leading to vulnerability during operations and winter weather.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	3. Do nothing – vulnerability continues or worsen
	4. Retrofit roof to current standards – selected action
	5. Build new DPW building – not as cost-effective as selected action
Action/Project Intended for Implementation	
Description of Selected Action/Project	Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.
Action/Project Category	SIP
Goals Met	1, 2, 5, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Facilities Department
Local Planning Mechanism	-
Potential Funding Sources	FEMA HMA funding, Other Federal or State Grants, Local Cost Share
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Sussex County-7

Mitigation Action/Initiative: Retrofit roof to meet current standards for snow load on County Department of Public Works building located on Route 206.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce risk of accidents and continuing injuries by ensuring continuity of DPW operations during hazard events.
Property Protection	1	Reduce risk of property damage and infrastructure damage by ensuring continuity of DPW operations during hazard events.
Cost-Effectiveness	1	Most cost-efficient project option.
Technical	0	
Political	1	
Legal	1	
Fiscal	-1	Requires external funding
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	Winter Weather
Timeline	1	Short, DOF (project has been delayed due to lack of funding)
Agency Champion	0	
Other Community Objectives	0	
Total	7	
Priority (High/Med/Low)	Medium	

Name of Jurisdiction:	Sussex County
Action Number:	Sussex County-15
Mitigation Action/Initiative:	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather
Specific problem being mitigated:	Vulnerable structures, especially repetitive loss and severe repetitive loss properties in Sussex County.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Do nothing – vulnerability continues or worsens
	2. Support mitigation efforts – selected action
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option. Phase 2: Work with the property owners to implement selected action based on available funding from FEMA and local match availability.
Action/Project Category	SIP
Goals Met	1, 2, 5
Applies to existing and or new development, or not applicable	New and Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	SCDEM
Local Planning Mechanism	
Potential Funding Sources	FEMA HMA funding, Other Federal or State Grants, Local Cost Share
Timeline for Completion	Long
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: Sussex County-15

Mitigation Action/Initiative: Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future damage; repetitive loss and severe repetitive loss properties should be a priority, when applicable.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce risk of injury or loss of life by eliminating flood risk to highly vulnerable properties.
Property Protection	1	Reduce risk of property damage to residences and structures in floodplain.
Cost-Effectiveness	1	Most cost effective project option.
Technical	0	
Political	1	
Legal	1	
Fiscal	-1	Requires external funding sources.
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	0	
Agency Champion	0	
Other Community Objectives	1	Reduce number of repetitive loss properties in County
Total	8	
Priority (High/Med/Low)	Medium	