



9.20 Township of Pohatcong

This section presents the jurisdictional annex for the Township of Pohatcong.

9.20.1 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
Gwen Steckel, Township Engineer 50 Municipal Drive, Phillipsburg, NJ 08865 (908) 454-3080 gsteckel@vcea.org	Donald Grube, DPW Supervisor and OEM Coordinator 50 Municipal Drive, Phillipsburg, NJ 08865 (908) 454-6121 ext. 310 dpw@pohatcongtpw.org

9.20.2 Municipal Profile

The Township of Pohatcong is located on the southern tip of Warren County and bordered to the north by the Townships of Lopatcong and Greenwich and the Town of Phillipsburg, to the east and south by Hunterdon County, and to the west by the Delaware River and the State of Pennsylvania. The Township has a total area of 13.7 square miles and had a 2010 population of 3,339. There are several unincorporated communities located within Pohatcong and include: Carpentersville, Hughesville, Huntington, Kennedys, Riegelsville, Finesville, Upper Pohatcong, Springtown, Still Valley Area, Huntington, Parkside, and Warren Glen. The Delaware River, Pohatcong Creek, and Musconetcong River and their tributaries are the major waterbodies in the Township. Additionally, the Township is located within the Highlands Region of New Jersey.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in section 9.X of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.20-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
Wal-Mart Supercenter	Comm.	4	1300-1306 Rt. 22 Phillipsburg, NJ	Bl. 75, Lot 1.01	Completed
Chick-fil-A	Comm.	1	1200 Rt. 22, Phillipsburg, NJ	Bl. 1, Lot 1.03	Completed
Sonic	Comm.	1	1200 Rt. 22, Phillipsburg, NJ	Bl. 1, Lot 1.03	Completed
Known or Anticipated Development in the Next Five (5) Years					
None identified at the time of this Plan Update.					

** Only location-specific hazard zones or vulnerabilities identified.*

9.20.3 Natural Hazard Event History Specific to the Municipality

Warren County has a history of natural and non-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. For the purpose of this plan update, events that





have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard events in the community.

Information regarding specific damages at the municipal level, is presented in the table below. This summary is based on reference material or local sources. For further details on these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.20-1. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
August 26 – September 5, 2011	Hurricane Irene	DR-4021	Yes	During Hurricane Irene, 13 roads were temporarily closed due to flooding and debris, and five roads were temporarily closed due to downed power lines and trees. Power outages throughout the Township lasted up to seven days. Portions of the following roads or road embankments were damaged as a result of runoff: Ravine Road, River Road, Creek Road, Oberly Road and Mountain Road. Drainage facilities on the following roads were damaged: Mt. Joy Road, Meadow Avenue and Chestnut Street. The following Township parks / baseball fields were damaged: Huntington Park and Finesville Park. Public assistance was requested by the Township. Costs to the Township included labor and equipment, emergency protective services, repairs to damaged roads and parks, and repairs to roads and drainage facilities. This totaled over \$200,000 in damages, repairs and employee time.
September 28 – October 6, 2011	Remnants of Tropical Storm Lee	DR-4039	Yes	Remnants of Tropical Storm Lee caused a storm drain on River Road to become completely blocked with debris and it had to be replaced. There were some temporary road closures until debris was removed from roads. Public assistance was requested. Costs to the Township included labor and equipment, emergency protective services, and repairs to drainage facilities, which totaled over \$30,000.
October 29, 2011	Severe Storm	DR-4048	Yes	This storm resulted in some temporary road closures until debris was removed from roads. Public assistance was requested. Costs to the Township included labor and equipment which totaled over \$10,000.
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	Hurricane Sandy resulted in several roads being temporarily closed due to debris and downed power lines and trees. Power outages lasted up to approximately 6 days. There was damage to two roads as a result of uprooted trees from storm. Public assistance was requested. Costs to the Township included labor and equipment, emergency protective services, and repairs to damaged roads, totaling over \$100,000.

9.20.4 Hazard Vulnerabilities and 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, each municipality had the opportunity to adjust the final ranking based on municipal feedback. The following summarizes the hazard vulnerabilities and their ranking in the Township of Pohatcong. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.





Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Township of Pohatcong.

Table 9.20-1. 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: \$141,076 2,500-Year GBS: \$2,103,502	Occasional	28	Medium
Flood	1% Annual Chance: \$16,647,589	Frequent	18	High
Geologic	RCV Exposed to Carbonate Rock Areas: \$345,165,187	Occasional	36	High
Hurricane	100-year MRP: \$87,784.00 500-year MRP: 1032591 Annualized: \$8,788.00	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Storm	100-Year MRP: \$87,784 500-year MRP: \$1,032,591 Annualized: \$8,788	Frequent	48	High
Severe Winter Storm	1% GBS: \$2,162,904 5% GBS: \$10,814,520	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$1,906,350	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 20-30+
Low = Total hazard risk ranking below 20
- 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 2.2 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.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Township of Pohatcong.





Table 9.20-3. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Flood Boundary (3)
Pohatcong, Township of	73	137	\$3,785,319	21	4	55

Source: FEMA Region 2, 2014

(1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 11/30/2014. Please note the total number of repetitive loss properties includes the severe repetitive loss properties. The number of claims represents claims closed by 11/30/14.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

Number of policies and claims and claims total exclude properties located outside County boundary, based on provided latitude and longitude.

Critical Facilities

The table below presents the number of critical facilities, by type, in the community located in the effective FEMA flood zones (1% and 0.2% annual chance boundaries).

Table 9.4-4. Number of Critical Facilities in the DFIRM 1% and 0.2% Annual Chance Flood Boundaries

Municipality	1% Annual Chance	0.2% Annual Chance
	Fire/EOC	Fire/EOC
Pohatcong, Township of	1	1

Source: Warren County, FEMA 2011

Other Vulnerabilities Identified by Municipality

According to the 2007 Township of Pohatcong Highlands Environmental Resource Inventory, the Delaware River and its tributaries produce flooding in the riverside hamlets in the Township. These hamlets include small residential neighborhoods clustered along River Road and the Delaware River, including: Carpentersville, Riegelsville, Finesville, Still Valley Area, Huntington, and Parkside. These neighborhoods have been hit hard by flooding. Recent flood events led to evacuations, bridge and road closures, and extensive damages in these areas. Additionally, increased stormwater runoff from Route 78 and other development projects has significantly increased erosion of intermittent streams, especially alongside Still Valley Road in the Township.

Additional runoff and severe erosion has occurred as a result of poor farming practices resulting in clogged drainage and significant erosion onto public roadways including Mountain Road, River Road and County Route 627. On occasion roads have been closed until eroded material could be removed from roads.

9.20.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Education/Outreach and Community classification





- Self-Assessment of Capability
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Township of Pohatcong.

Table 9.20-4. 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 Reexamination 8/26/13	Local	Land Use Board	
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	Yes	State	NJDEP	Division of Land Use Regulation
Stormwater Management Plan	Yes	Local	Land Use Board	Stormwater Management Plan for Pohatcong Township, Adopted by LUB April 12, 2005
Open Space Plan	Yes 9/2004	Local	Land Use Board	
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes 9/6/13	State	OEM, State Police	
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	Yes	Local	Land Use Board	Housing Element/Fair Share Plan 4/26/10 Environmental Resource Inventory 3/7/13 Farmland Preservation Plan 2/10/2015
Natural Resource Inventory	Yes Reexamination 8/26/13	Local	Land Use Board	
Regulatory Capability				
Building Code	Yes	State & Local	Construction Official	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes Adopt: 4/11/00 Last update 11/15/2011	Local	Zoning Officer, Land Use Board	Code Chapter 285



Table 9.20-4. 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.)
Subdivision Ordinance	Yes Adopt: 12/14/99 Last Update 3/21/06	Local	Land Use Board	Code Chapter 224
NFIP Flood Damage Prevention Ordinance	Yes 8/16/2011	Federal, State, Local	Twp. Engr./ Floodplain Administrator	Code Chapter 146
NFIP: Cumulative Substantial Damages	Yes 8/16/2011	Federal, State, Local	Twp. Engr./ Floodplain Administrator	Code Chapter 146
NFIP: Freeboard	Yes	State, Local	Twp. Engr./ Floodplain Administrator	Code Chapter 146
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes Adopt: 12/14/99 Last Update 3/21/06	Local	Land Use Board	Code Chapter 224
Stormwater Management Ordinance	Yes 3/26/06	Local	Land Use Board	Code Chapter 240
Municipal Separate Storm Sewer System (MS4)	Yes	Local, State	DPW / Township Council	Municipal Stormwater General Permit
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	No			
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	Yes Constrained Areas 4/11/2000	Local	Land Use Board	Code Chapter 285-26H

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Township of Pohatcong.

Table 9.20-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Township Land Use Board
Mitigation Planning Committee	No	
Environmental Board/Commission	Yes	Township Environmental Commission





Table 9.20-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Open Space Board/Committee	No	
Economic Development Commission/Committee	Yes	Township Economic Development Advisory Commission
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	Yes	Fire Company, Police Department
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Township Engineer, Township Planner
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Township Engineer, Construction Official
Planners or engineers with an understanding of natural hazards	Yes	Township Engineer, Township Planner
NFIP Floodplain Administrator	Yes	Township Engineer
Surveyor(s)	Yes	Township Engineer
Personnel skilled or trained in GIS and/or Hazus-MH applications	No	
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Emergency Management Coordinator
Grant Writer(s)	Yes	Consulting Firm
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	Yes	Township Engineer

Fiscal Capability

The table below summarizes financial resources available to the Township of Pohatcong.

Table 9.20-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
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	Yes
Other Federal or State Funding Programs	FEMA
Open Space Acquisition Funding Programs	Yes
Other	



Education/Outreach and Community Classifications

The table below summarizes education/outreach programs the community participates in and the classifications for community program available to the Township of Pohatcong.

Table 9.20-7. Education/Outreach and Community Classifications

Program	Do you have/participate in this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	No		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	No		
Public-Private Partnerships	No		

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 CRS class applies to flood insurance while the 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 1000 feet of a creditable fire hydrant and is within 5 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/0000/ppc0001.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 Township of Pohatcong’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.





Table 9.20-8. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability		X	
Fiscal Capability	X Limited Funding		
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.	X Limited Funding, Education		

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Gwen Steckel, Township Engineer

Flood Vulnerability Summary

The Township does not maintain lists or inventories of properties damaged by floods. During Sandy or other events since 2010, there have been no structures damaged. Based on information provided by home owners, and at their request, the FPA has determined that structures were substantially damaged. However, no structures were substantially damaged as a result of Sandy. Six homes have been elevated, one is in the process of being elevated, two homes have been acquired and demolished and one home has been demolished voluntarily by owner (not acquired by outside agency). Funding sources for these mitigation projects were provided by the property owner, flood insurance, and ICC.

Resources

The FPA is the sole person assuming the responsibilities of floodplain administration in the Township. NFIP services and functions provided by the FPA include the review of flood damage prevention permit applications and maintain files of applications made and permits approved. The FPA answers any questions that property owners may have regarding flood hazards/risk or flood risk reduction. The FPA provides them with information regarding the ICC funds available through the NFIP and educates them on why the regulations require what they require. It is done on a one-on-one basis.

The FPA indicated that are financial barriers to running an effective floodplain management program. However, she feels adequately supported and trained to fulfill her responsibilities as the municipal FPA. The FPA would consider attending continuing education and/or certification training on floodplain management if it were offered.

Compliance History

The Township is currently in good-standing with the NFIP; however, the FPA is unaware of the most recent compliance audit.





Regulatory

The Township's floodplain management regulations ordinances exceed the FEMA and state minimum requirements. The Land Use Board conditions approvals on the receipt of all necessary permits from NJDEP and Flood Damage Prevention Permits if located in a floodplain. The Township has considered joining CRS and would find local training on CRS very helpful.

Community Rating System

The Township of Pohatcong does not participate in the Community Rating System (CRS) program.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Pohatcong Township in Warren County has 7,571 acres in the Preservation Area and 1,208 acres in the Planning Area of the Highlands Region. The municipality submitted a Petition for Plan Conformance for both areas, which was approved by the Highlands Council on August 3, 2011. The goals of the 2009 Highlands Master Plan Element include to protect, restore and enhance the quality and quantity of surface and groundwater, to preserve extensive and contiguous areas of land in its natural state, to promote the conservation of water resource, and to promote brownfield remediation and redevelopment if possible. Many objectives are aimed to protect forest resources, open water and riparian areas, steep slopes, critical habitats, water resources and prime groundwater recharge areas. The Plan proposes to prohibit certain land uses in these areas in addition to land located above carbonate bedrock. The 2009 Highlands Environmentally Resource Inventory identifies the location and extent of these natural resources and environmentally sensitive areas within the Township.

To provide consistency between local and State regulations, Pohatcong Township has adopted the stormwater management provisions of the Residential Site Improvement Standards (N.J.A.C. 5:21-1.1 et seq.) as promulgated by the State of New Jersey.

Regulatory and Enforcement (Ordinances)

The Township has multiple ordinances pertaining to the mitigation of hazards. These ordinances include the NFIP Flood Damage Prevention Ordinance, a stormwater management ordinance, an environmental impact statement ordinance, a hazardous materials ordinance, a snow and ice ordinance, a soil disturbance ordinance and a soil erosion and sediment control ordinance.

The Township currently reviews the HMP and other hazard analysis prior to land use, zoning changes and development permitting to ensure there is consistent and compatible land use. The Township also encourages the consideration of low occupancy, low-density zoning in hazard areas when practical. The Township limits development in high hazard areas. When reviewing permits, the process includes addressing hazards. The Township does and will continue to incorporate hazard resistant construction standards into the design and location of projects. Rezoning procedures in Pohatcong recognize hazard areas as limits on zoning changes.



Operational and Administration

The Township has established a Land Use Board and Environmental Commission that aid in planning decisions to support the conservation and preservation of the Township's critical environmental features.

Funding

The Township established an Open Space and Farmland Trust Fund tax of 5 cents per \$100 of assessed value.

The Township has used capital improvement funding to provide protection to buildings/infrastructure in high hazard areas. For example:

- The Township has replaced windows on the Municipal building with impact resistant windows
- The Township installed riprap along the banks of the Pohatcong Creek along Ravine Road
- Renovated the Police Department

Education and Outreach

The Township provides up-to-date information regarding the emergency status of the community on its website's homepage; additionally, the Township notifies residents of meetings related to planning and emergency management. The Township does provide public outreach informing citizens on hazards, including safe practices on using generators, flood hazard information, etc.

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9.20.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2011 Plan. 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.

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Table 9.20-9. Past Mitigation Initiative Status

2011 Mitigation Action	Responsible Agency	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
Pohatcong Township 1: Acquisition / Elevation of six Severe Repetitive Loss properties on River Road.	OEM Coordinator	Complete	1. 85% complete 2. Funded by FEMA (ICC) and property owners	Discontinue	Five homes have been elevated. Last home in in the process of being elevated
Pohatcong Township 2: Acquisition / Elevation of one Repetitive Loss property on Warren Glen Road.	OEM Coordinator	No Progress	1. 0% complete 2. Township does not know what property this is	Discontinue	Township is not aware that there is a problem with a property along this road
Pohatcong Township 3: Acquisition / Elevation of one Repetitive Loss property on River Road.	OEM Coordinator	Complete	1. 100% Complete 2. Funded through FEMA and State	Discontinue	This action has been completed and will not be included in the 2016 HMP Update.
Pohatcong Township 4: Acquisition / Elevation of one flood prone property located on Municipal Drive.	OEM Coordinator	No Progress	0% Complete	Include in 2016 HMP	This action has not been completed; the Township will include this in the 2016 HMP update.
Pohatcong Township 5: Acquisition of one flood prone property located on River Road.	OEM Coordinator	Complete	1. 100% Complete 2. Funded through FEMA and State	Discontinue	This action has been completed and will not be included in the 2016 HMP Update.
Pohatcong Township 6: Retrofit impact resistant windows and shutters to original portion (100 yrs old) of the Pohatcong Municipal Complex located on Municipal Drive.	Twp Council	Complete	1. 100% Complete 2. Funded by Township	Discontinue	This action has been completed and will not be included in the 2016 HMP Update.
Pohatcong Township 7: Emergency generator for Pohatcong School (shelter) located on Route 519.	School Board Administrator	No Progress	0% Complete	Discontinue	School officials did not want a generator due to liability concerns
Pohatcong Township 8: Flood-proofing of the Huntington Fire Company building located on Maple Avenue.	Station Commander	No Progress	0% complete due to financial issues	Include in 2016 HMP	This action has not been completed; the Township will include this in the 2016 HMP update.
Pohatcong Township 9: Install rip-wrap along 100 yards of the Pohatcong Creek along Ravine Road.	Department of Public Works Supervisor	Complete	1. 100% Complete 2. Funded by Township	Discontinue	This action has been completed and will not be included in the 2016 HMP Update.
Pohatcong Township 10: Flood-proofing of the Police Department building located in Phillipsburg.	Twp Fire Chief	Complete	1. 100% Complete 2. Funded by Township	Discontinue	This action has been completed and will not be included in the 2016 HMP Update.





2011 Mitigation Action	Responsible Agency	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
Pohatcong Township 11: Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	WCOEM, town OEM	No Progress	0% Complete	Include in 2016 HMP	This action has not been completed; the Township will include this in the 2016 HMP update.

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Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Township has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2011 Plan:

- Demolition of a floodprone home on River Road. This project was funded by the property owner.

Proposed Hazard Mitigation Initiatives for the Plan Update

The County hosted a mitigation action workshop in March 2015 where the following FEMA publications were provided to all plan participants to use as a resource as part of the municipal 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, the Township participated in a second workshop led by FEMA Region 2 and NJOEM and was provided the results to the risk assessment to further assist with the identification of mitigation actions.

Table 9.20-11 summarizes the comprehensive-range of specific mitigation initiatives the Township 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.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.20-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.20-10. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
Pohatcong-1	Flood-proofing of the Huntington Fire Company (EOC) building located on Maple Avenue.	Existing	Flood	1, 2, 6	Fire Chief	Medium	High	FEMA mitigation grants with local budget for cost share	Short Term / DOF	High	SIP	PP
Pohatcong-2	Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.											
	See above	N/A	All	All	Township OEM Coordinator with support from WCOEM	Medium	Low	FEMA mitigation grants with local budget for cost share	Short Term / DOF	High	SIP	PP
Pohatcong-3	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as 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 and local match availability.											
	See above.	Existing	Flood, Severe Weather Wildfire, Severe Winter Weather	2	Engineering via NFIP FPA with NJOEM, FEMA support	High	High	FEMA mitigation grants program and property owner cost share	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	High	SIP	PP
Pohatcong-4	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	N/A	Flood, Severe Weather, Hurricane	3, 4, 5	NFIP FPA	Medium – High	Low	Municipal Budget	Short Term	High	LPR, EAP	PR, PI
Pohatcong-5	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if	N/A	Flood, Severe Weather, Hurricane	3, 4, 5	NFIP FPA	Low – Medium	Low	Municipal Budget	Short Term	High	LPR, EAP	PR, PI





Table 9.20-10. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	needed. This is a part of the process of joining CRS (above initiative).											
Pohatcong-6	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers and New Jersey Association for Floodplain Management and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis (BCA) and Substantial Damage Estimation (SDE).	N/A	Flood, Severe Weather, Hurricane	3, 4, 5	NFIP FPA	Medium	Low	Municipal Budget	Short Term	High	LPR, EAP	PR, PI
Pohatcong-7	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All	All	Municipality with support from County, NJOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	High	LPR	PR
Pohatcong-8	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities	Existing	All	All	Municipal Engineering via NFIP FPA with NJOEM, FEMA support	High	High	Federal and State Mitigation Grant Programs and property owner for cost share	Ongoing (outreach and specific project identification); Long term – dependent on funding	Medium	LPR, SIP	PR, PP
Pohatcong-9	Develop and implement a post-event damage assessment program	Existing	All	All	Engineering, FPA, Township Council, Building Department, OEM	Medium – High	Low – Medium	Municipal Budget	Ongoing	High	LPR, EAP	PR, PI

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:

CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
NJDEP	New Jersey Department of Environmental Protection
NJOEM	New Jersey Office of Emergency Management
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
HMA	Hazard Mitigation Assistance 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:

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 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

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*

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Table 9.20-11. 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 Objectives	Total	High / Medium / Low
Pohatcong-1	Flood-proofing of the Huntington Fire Company building located on Maple Avenue.	1	1	1	1	1	0	0	0	0	1	1	1	0	0	8	High
Pohatcong-2	Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
Pohatcong-3	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition / relocation to protect structures from future damage	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
Pohatcong-4	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
Pohatcong-5	Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. This is a part of the process of joining CRS (above initiative).	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
Pohatcong-6	Have designated NFIP Floodplain Administrator	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High



Table 9.20-11. 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 Objectives	Total	High / Medium / Low
	(FPA) become a Certified Floodplain Manager (CFM).																
Pohatcong-7	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
Pohatcong-8	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	Medium
Pohatcong-9	Develop and implement a post-event damage assessment program	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High

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

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9.20.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.20.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Pohatcong that illustrate the probable areas impacted within the municipality. 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 the Township of Pohatcong has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.20.9 Additional Comments

None at this time.

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Figure 9.20-1. Township of Pohatcong Hazard Area Extent and Location Map 1

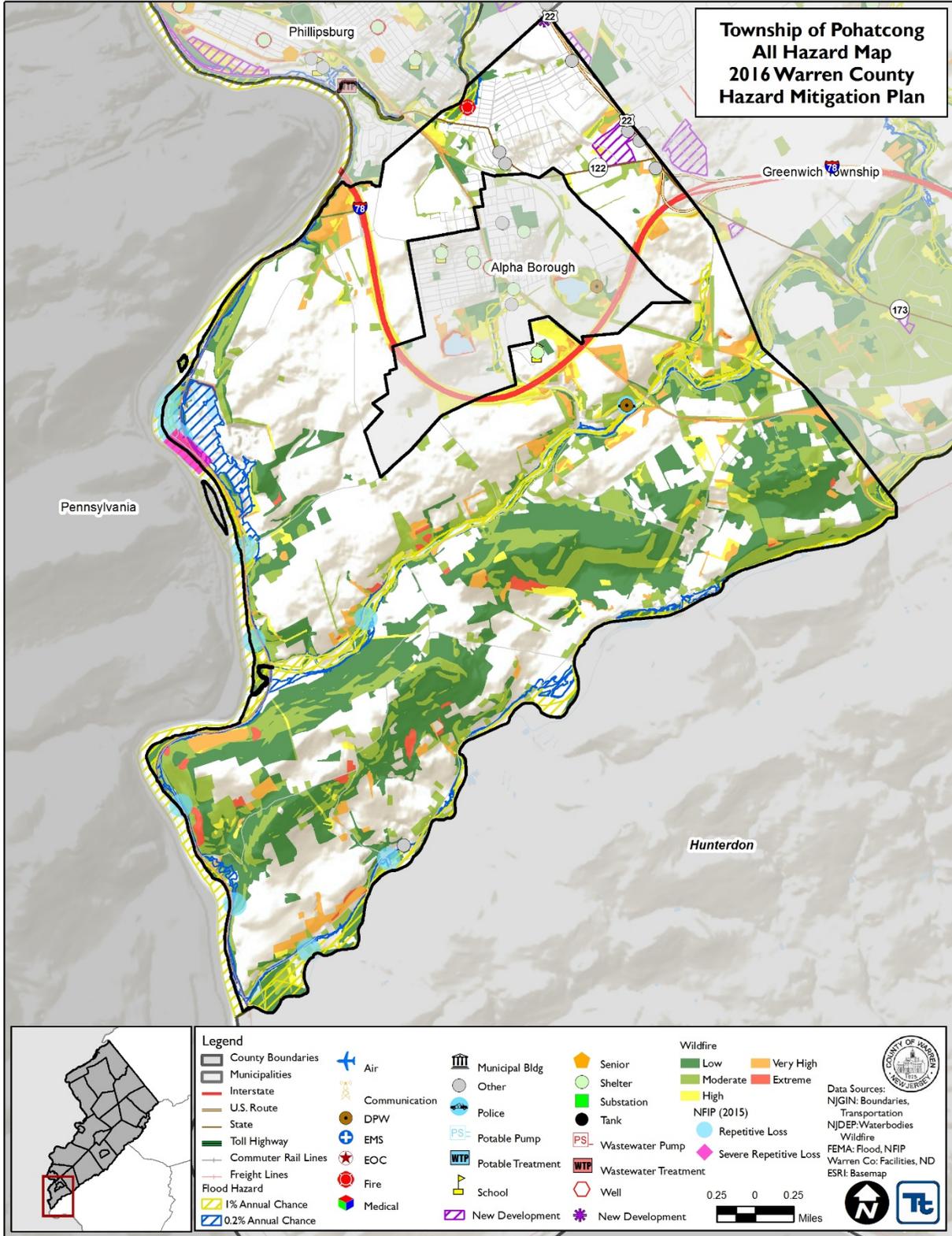
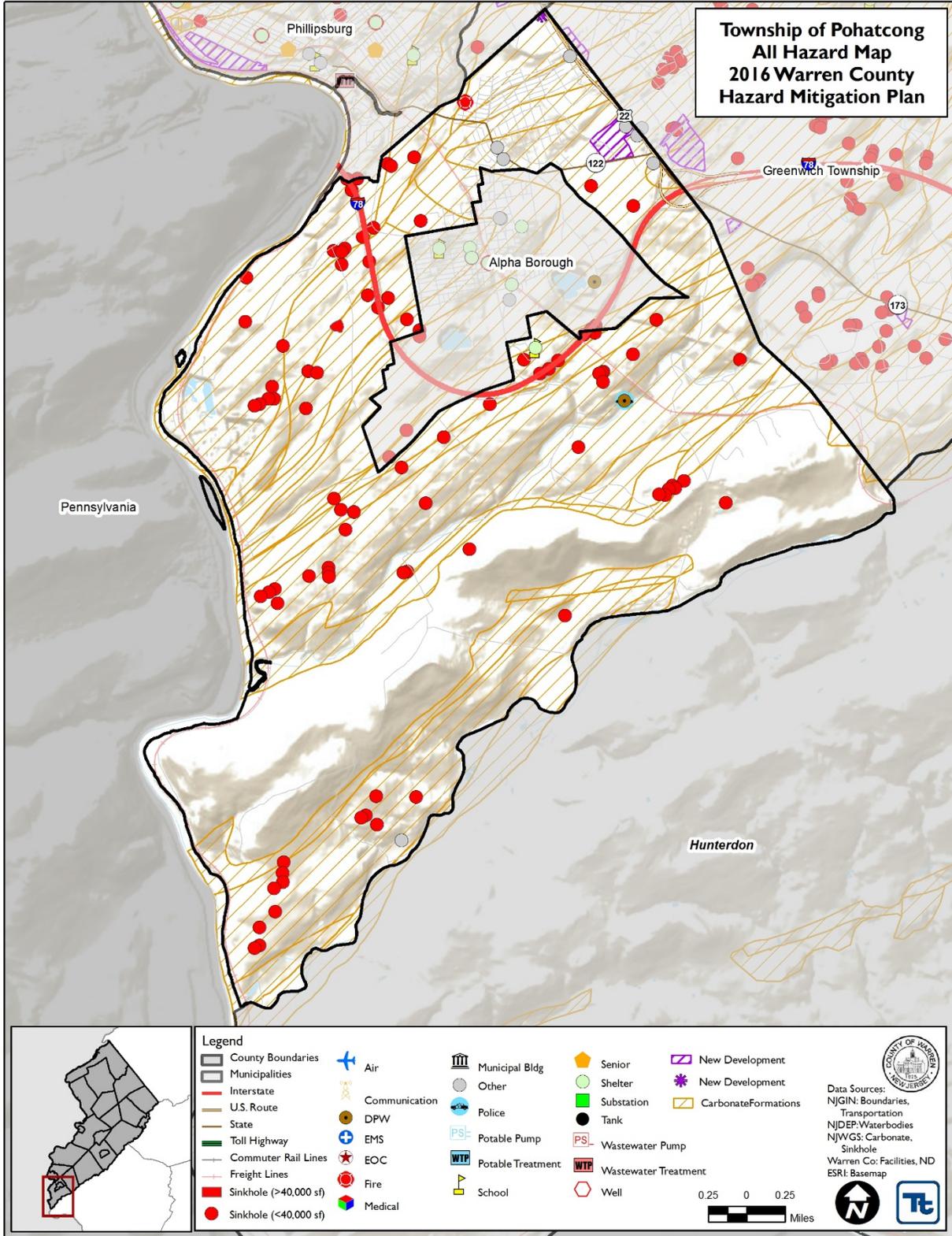




Figure 9.20-2. Township of Pohatcong Hazard Area Extent and Location Map 2





Action Number: Pohatcong-1
Mitigation Action/Initiative: Flood-proofing of the Huntington Fire Company (EOC) building located on Maple Avenue.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather
Specific problem being mitigated:	Fire building is prone to flooding and damages from flooding
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Flood-proofing of the Huntington Fire Company building located on Maple Avenue. 2. Do nothing – current problem continues 3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Flood-proofing of the Huntington Fire Company building located on Maple Avenue.
Action/Project Category	SIP
Goals Met	1, 2, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Fire Department
Local Planning Mechanism	Emergency Operations
Potential Funding Sources	FEMA mitigation grants with local budget for cost share
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Pohatcong-1
Mitigation Action/Initiative: Flood-proofing of the Huntington Fire Company building located on Maple Avenue.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Allow continuity of operations of fire department during periods of rain; protect building from flood damage
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Weather
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-2
Mitigation Action/Initiative: Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as a priority.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather, Hurricane
Specific problem being mitigated:	Reduce damages to structures as a result of flooding.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	4. Support property owners through issuing variances, providing technical guidance, discuss grant options
	5. Do nothing
	6.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support property owners through issuing variances, providing technical guidance, discuss grant options; assist in selecting best option
Action/Project Category	SIP
Goals Met	Protect property
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High: reduces damages to structures and displacement of families
Estimated Cost	<i>High</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	Township Engineer, FPA, Land Use Board
Local Planning Mechanism	Flood Damage Prevention Ordinance, Zoning Ordinance
Potential Funding Sources	FEMA mitigation grants program and property owner cost share
Timeline for Completion	Ongoing Long term – dependent on funding
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: 6 structures have been elevated and 3 demolished. One elevation is underway.



Action Number: Pohatcong-2
Mitigation Action/Initiative: Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as a priority.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Safer structures reduce injuries and potential for loss of life and reduce displacement of families from their homes
Property Protection	+1	Protects structures from damage due to flooding
Cost-Effectiveness	+1	Once the mitigation has occurred, there will be no additional costs due to flooding
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, State and Federal Governments support and encourage this
Legal	+1	The Local, State and Federal Governments have the authority due to ordinances and regulations at all levels
Fiscal	0	FEMA mitigation grants program and property owner cost share
Environmental	+1	The mitigation is encouraged under environmental regulations
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township has an ordinance in place and a FPA for administrative capabilities
Multi-Hazard	+1	Flooding, hurricanes, severe storms, severe winter storms
Timeline	+1	Ongoing
Agency Champion	+1	FPA, Township Engineer, Emergency Management Coordinator, Land Use Board
Other Community Objectives	+1	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-3
Mitigation Action/Initiative: Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Reduce damages (personal and structural) cause by lack of education
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Direct residents to various resources to provide education on dealing with natural disasters 2. Distribute information through mailings. Cost prohibitive. 3. Do nothing
Action/Project Intended for Implementation	
Description of Selected Action/Project	<ul style="list-style-type: none"> Provide natural hazard risk and & reduction information through social media Post flyers and other readily available NFIP informational materials in municipal building Develop/maintain a link to the Warren County Multi-Jurisdictional Hazard Mitigation Plan on the Township's Website. Enhance public outreach to residents in NFIP floodplain areas to inform of grant opportunities, etc. by posting flyers in Municipal Building
Action/Project Category	EAP
Goals Met	Increase public preparedness and awareness; Develop an understanding of risks from hazards
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	<i>Low</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	Elected Official's Office
Local Planning Mechanism	N/A
Potential Funding Sources	Municipal Budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: Ongoing



Action Number: Pohatcong-3
Mitigation Action/Initiative: Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Through education, people will be prepared to react properly during emergencies
Property Protection	+1	Training will educate residents on what to do to reduce damage to property
Cost-Effectiveness	+1	There is minimal cost to implement initiative
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	The education will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's staff will be able to implement these action
Multi-Hazard	+1	All Hazards
Timeline	+1	Short
Agency Champion	+1	Township Council
Other Community Objectives	0	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-4
Mitigation Action/Initiative: Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather, Hurricane
Specific problem being mitigated:	Providing the opportunity for residents to obtain flood insurance at reduced rates due to positive actions taken by Township government
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Participate in and join the Community Rating System (CRS) program
	2. Continue to participate in NFIP but not the CRS program
	3. Do nothing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Participate in and join the Community Rating System (CRS) program
Action/Project Category	LPR, EAP
Goals Met	Increase public awareness, develop and maintain an understanding of risks from hazards, enhance local mitigation capabilities
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium - High
Estimated Cost	<i>Low</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	NFIP FPA
Local Planning Mechanism	Flood Damage Prevention Ordinance
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: None to date



Action Number: Pohatcong-4
Mitigation Action/Initiative: Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Citizens and property owners in CRS communities have increased opportunities to learn about risk, evaluate their individual vulnerabilities, and take action to protect themselves, as well as their homes and businesses.
Property Protection	+1	CRS floodplain management activities provide enhanced public safety, reduced damage to property and public infrastructure, and avoidance of economic disruption and loss.
Cost-Effectiveness	+1	The benefits and cost savings to the residents will outweigh the cost to the Township
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	Any actions undertaken will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's staff will be able to implement these action
Multi-Hazard	+1	Flooding, hurricanes, severe storms, severe winter storms
Timeline	+1	Short
Agency Champion	+1	Township Council
Other Community Objectives	0	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-5
Mitigation Action/Initiative: Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. This is a part of the process of joining CRS (above initiative).

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather, Hurricane
Specific problem being mitigated:	Providing the opportunity for residents to obtain flood insurance at reduced rates due to positive actions taken by Township government
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1.Schedule a Community Assistance Visit
	2.Do nothing
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Schedule a Community Assistance Visit
Action/Project Category	LPR, EAP
Goals Met	Increase public awareness, develop and maintain an understanding of risks from hazards, enhance local mitigation capabilities
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Low - Medium
Estimated Cost	<i>Low</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	NFIP FPA
Local Planning Mechanism	Flood Damage Prevention Ordinance
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: None to date



Action Number: Pohatcong-5
Mitigation Action/Initiative: Determine if a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) is needed, and schedule if needed. This is a part of the process of joining CRS (above initiative).

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Citizens and property owners in CRS communities have increased opportunities to learn about risk, evaluate their individual vulnerabilities, and take action to protect themselves, as well as their homes and businesses.
Property Protection	+1	CRS floodplain management activities provide enhanced public safety, reduced damage to property and public infrastructure, and avoidance of economic disruption and loss.
Cost-Effectiveness	+1	The benefits and cost savings to the residents will outweigh the cost to the Township
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	Any actions undertaken will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's staff will be able to implement these action
Multi-Hazard	+1	Flooding, hurricanes, severe storms, severe winter storms
Timeline	+1	Short
Agency Champion	+1	Township Council
Other Community Objectives	0	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number:	Pohatcong-6
Mitigation Action/Initiative:	Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers and New Jersey Association for Floodplain Management and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis (BCA) and Substantial Damage Estimation (SDE).

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Weather, Hurricane
Specific problem being mitigated:	Will improve ability to provide guidance and to educate residents
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Have NFIP FPA become a CFM
	2. Do nothing
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	FPA will become a CFM when classes become available locally. To date, the only certification classes that have been offered in New Jersey have been held in south Jersey. This is not cost effective for the northern municipalities.
Action/Project Category	LPR, EAP
Goals Met	Increase public awareness, develop and maintain an understanding of risks from hazards, enhance local mitigation capabilities
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	<i>Low if classes are offered locally</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	NFIP FPA
Local Planning Mechanism	Flood Damage Prevention Ordinance
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: None to date



Action Number: Pohatcong-6
Mitigation Action/Initiative: Have designated NFIP Floodplain Administrator (FPA) become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers and New Jersey Association for Floodplain Management and pursue relevant continuing education training such as FEMA Benefit-Cost Analysis (BCA) and Substantial Damage Estimation (SDE).

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Will provide additional education to relay to the residents
Property Protection	+1	Will provide additional education to relay to the residents
Cost-Effectiveness	+1	The benefits to the residents will outweigh the cost to the Township
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	Any actions undertaken will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's staff will be able to implement these action
Multi-Hazard	+1	Flooding, hurricanes, severe storms, severe winter storms
Timeline	+1	Short
Agency Champion	+1	Township Council
Other Community Objectives	0	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-7
Mitigation Action/Initiative: Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations

Assessing the Risk	
Hazard(s) addressed:	All hazards
Specific problem being mitigated:	Lack of manpower and equipment during hazard events
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. The Township Create/Enhance/Maintain Mutual Aid agreements with neighboring communities
	2. The Township operates on its own without outside support
	3. Do nothing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations
Action/Project Category	LPR
Goals Met	Support continuity of operations pre-, during and post-hazard events; Enhance county and local mitigation capabilities; Increase public preparedness and awareness
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Municipality with support from County, NJOEM, FEMA and surrounding communities
Local Planning Mechanism	Township OEM
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: Ongoing



Action Number: Pohatcong-7
Mitigation Action/Initiative: Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Will provide additional support for protecting lives and preventing injuries
Property Protection	+1	Will provide additional support for property protection
Cost-Effectiveness	+1	The benefits to the residents will outweigh the cost to the Township
Technical	+1	The action is technically feasible and provide a long-term solution
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	Any actions undertaken will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's OEM will be able to implement these action
Multi-Hazard	+1	All hazards
Timeline	+1	Short
Agency Champion	+1	Township OEM
Other Community Objectives	0	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	



Action Number: Pohatcong-8
Mitigation Action/Initiative: Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities

Assessing the Risk	
Hazard(s) addressed:	All hazards
Specific problem being mitigated:	Sharing of resources, planning and working on a County wide level
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities
	2. Do nothing
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities
Action/Project Category	LPR, SIP
Goals Met	Protect property; Enhance county and local mitigation capabilities to reduce hazard vulnerabilities
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	<i>High</i>
Priority*	<i>Medium</i>
Plan for Implementation	
Responsible Organization	Municipal Engineering via NFIP FPA with NJOEM, FEMA support
Local Planning Mechanism	Flood Damage Prevention Ordinance; Land Development Ordinance; Zoning Ordinance
Potential Funding Sources	Federal and State Mitigation Grant Programs and property owner for cost share
Timeline for Completion	Ongoing (outreach and specific project identification); Long term – dependent on funding
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: Ongoing



Action Number: Pohatcong-8
Mitigation Action/Initiative: Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Provides additional resources to protect lives and property
Property Protection	+1	Provides additional resources to protect lives and property
Cost-Effectiveness	+1	Cost shared by all participants
Technical	+1	The action is technically feasible
Political	+1	The Local and County Governments support and encourage this
Legal	+1	The Local and County Governments have the authority
Fiscal	0	Federal & State mitigation grants program and property owner cost share
Environmental	+1	The mitigation is encouraged under environmental regulations
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	Township Engineer
Multi-Hazard	+1	All Hazards
Timeline	+1	Ongoing and Long term (dependent on funding)
Agency Champion	+1	OEM
Other Community Objectives	+1	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	Medium	



Action Number: Pohatcong-9
Mitigation Action/Initiative: Develop and implement a post-event damage assessment program

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	No existing database of hazard prone properties/structures
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Conduct public outreach/education to inform property owners of the need to report property damage and obtain required permitting when making repairs. 2. Develop and organize local resources to conduct post-event damage assessments, including substantial damage determinations as warranted. 3. Develop an inventory of losses (incl. loss of service, property damage, economic losses, etc.) as reported to and/or identified by the municipality (e.g. building permit process). 4. Do nothing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Items 1, 2 and 3 above
Action/Project Category	LPR, EAP
Goals Met	Increase public preparedness and awareness; Enhance County and Local mitigation capabilities to reduce hazard vulnerabilities
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Medium - High
Estimated Cost	<i>Low - medium</i>
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	Engineering, FPA, Township Council, Building Department, OEM
Local Planning Mechanism	Building permit process
Potential Funding Sources	Municipal budget
Timeline for Completion	Ongoing – as hazards occur
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: March 17, 2015 Progress on Action/Project: Ongoing



Action Number: Pohatcong-9
Mitigation Action/Initiative: Develop and implement a post-event damage assessment program

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	+1	Will provide guidance to emergency management personnel during hazard events to determine hazard prone areas.
Property Protection	+1	Will provide guidance to emergency management personnel during hazard events to determine hazard prone areas.
Cost-Effectiveness	+1	The benefits to the residents will outweigh the cost to the Township
Technical	+1	The action is technically feasible
Political	+1	The Local, County State and Federal Governments support and encourage this
Legal	+1	The Township has the authority
Fiscal	+1	The Township is capable of funding this
Environmental	+1	Any actions undertaken will provide a benefit to the environment
Social	+1	The action will not adversely affect any segment of the population
Administrative	+1	The Township's OEM and Building Department will be able to implement these action
Multi-Hazard	+1	All hazards
Timeline	0	Ongoing – as hazards occur the inventory can be established
Agency Champion	+1	Township OEM and Building department
Other Community Objectives	+1	The action promotes the objectives of Local ordinances
Total	13	
Priority (High/Med/Low)	High	