



9.17 Township of Mansfield

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

9.17.1 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
Dena Hrebenak, Municipal Clerk 100 Port Murray Road, Port Murray, NJ 07865 (908) 689-6151 dhrebenak@mansfieldtownship-nj.gov	Charles Smith, Emergency Management 100 Port Murray Road, Port Murray, NJ 07865 (908) 914-7635 oem@mansfieldtownship-nj.gov

9.17.2 Municipal Profile

Mansfield Township is located in the New Jersey Highlands Region. The Township is located along the Musconetcong River in eastern Warren County. It encompasses 30.5 square miles and is the oldest municipality in the County. Residential, agricultural, and commercial properties are found throughout the Township. Beattystown and Port Murray are unincorporated communities in the Township. According to the U.S. Census, the 2010 population for Township of Mansfield was 7,725.

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 9.17.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.17-1. 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					
None identified					
Known or Anticipated Development in the Next Five (5) Years					
Meadows at Mansfield	Res	226	655 Route 57 1501/9.01	N	Approved has not begun

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

9.17.3 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 9.17-1. Hazard Event History

Date(s) of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 28, 2008	Heavy Snow and Strong Winds	N/A	N/A	Trees down, DPW & Police overtime
February 1-2, 2011	Winter Storm	N/A	N/A	Municipal Building 90 minute delayed opening February 2
March 11-12, 2011	Heavy Rain and Flooding	N/A	N/A	Downed power lines
August 26 – September 5, 2011	Hurricane Irene	DR-4021	Yes	Several families evacuated their homes along the Musconetcong River and had to relocate to higher ground. There were numerous power outages, downed trees and road closures throughout the Township that lasted several days. Several roads were damaged as well. There was major flood damage to the Abundant Life Community Church on Cherry Tree Bend. Twelve homes were damaged by floods. Other losses/costs to the Township included police overtime, DPW debris removal, overtime and road repairs.
September 28 – October 6, 2011	Remnants of Tropical Storm Lee	DR-4039	Yes	There were numerous power outages, downed trees, and road closures in the Township that lasted several days. There was major flood damage to residential homes along the Musconetcong River and State Highway 57, to the Butler Park Fire Company on River Drive, and to SOS Stove and Fireplace on State Highway 57. Other losses/costs to the Township included DPW debris removal and overtime.
October 29, 2011	Severe Storm	DR-4048	Yes	A regional shelter was opened at the elementary school for one day. There were numerous power outages, downed trees and road closures in the Township that lasted several days.
October 26 – November 8, 2012	Hurricane Sandy	DR-4086	Yes	Trinity Church in Hackettstown opened as a shelter to Mansfield Township residents. There were numerous power outages, downed trees and road closures that lasted more than a week. Residential homes sustained damage. Other loss information included DPW tree and debris cleanup.

9.17.4 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 Mansfield. 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 Mansfield.





Table 9.23-1. 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: \$291,263 2,500-Year GBS: \$4,667,422	Occasional	28	Medium
Flood	1% Annual Chance: \$7,999,800	Frequent	18	Medium
Geologic	RCV Exposed to Carbonate Rock Areas: \$289,100,090	Frequent	45	High
Hurricane	100-year MRP: \$276,959.00 500-year MRP: 2069384 Annualized: \$23,154.00	Frequent	48	High
Nor'Easter	Damage estimate not available	Frequent	48	High
Severe Storm	100-Year MRP: \$276,959 500-year MRP: \$2,069,384 Annualized: \$23,154	Frequent	48	High
Severe Winter Storm	1% GBS: \$4,162,123 5% GBS: \$20,810,614	Frequent	51	High
Wildfire	Estimated Value in the Extreme, Very High, and High Hazard Areas: \$42,043,480	Occasional	16	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 Mansfield.

Table 9.17-3. 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)
Township of Mansfield	25	26	\$206,928	2	0	10

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	Shelter	Fire	Shelter
Mansfield, Township of	1	1	1	1

Source: Warren County, FEMA 2011

Other Vulnerabilities Identified by Municipality

The Township identified the following flood vulnerable areas:

- Butler Park
- Route 57 near Heiser Road – homes constantly flood in this area



9.17.5 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 Mansfield.

Table 9.17-4. 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	Local	Township	2008
Capital Improvements Plan	Yes	Local	Township	Updated annually
Floodplain Management / Basin Plan	No			
Stormwater Management Plan	Yes	Local	Township	Updated annually
Open Space Plan	Yes	Local	Township	Part of the master plan
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	Yes	Local	Township	Part of the master plan
Comprehensive Emergency Management Plan	No			
Emergency Response Plan	Yes	Local	OEM	In progress (Emergency Operations Plan)
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	No			
Regulatory Capability				
Building Code	Yes	State & Local	Building Department	State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.) Chapter 158 – Construction Codes, Uniform
Zoning Ordinance	Yes – updated as needed	Local	Zoning	Chapter 363 – Zoning



Table 9.17-4. 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 – updated as needed	Local	Zoning	Chapter 363 – Subdivision and Site Plan Review
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Engineer	Chapter 199 – Flood Damage Prevention
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local	Engineer	N.J.A.C 7:13 Flood Hazard Area Control Act
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes – updated as needed	Local	Zoning	Chapter 363 – Subdivision and Site Plan Review
Stormwater Management Ordinance	Yes	Local	Engineer	Chapter 293 – Stormwater Management
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Engineer	Chapter 293 – Stormwater Management
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State	Division of Consumer Affairs	N.J.A.C. 13:45A-29.1
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	No			

Administrative and Technical Capability

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

Table 9.17-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	
Environmental Board/Commission	Yes	Environmental Commission and Green Team
Open Space Board/Committee	Yes	Open Space, Farmland Preservation, Conservation, Historical & Recreation Advisory Committee
Economic Development Commission/Committee	Yes	All members left, in the process of reforming
Maintenance Programs to Reduce Risk	Yes	
Mutual Aid Agreements	Yes	
Technical/Staffing Capability		





Table 9.17-5. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	
Planners or engineers with an understanding of natural hazards	Yes	
NFIP Floodplain Administrator	Yes	Michael Finelli, Municipal Engineer
Surveyor(s)	Yes	
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	
Grant Writer(s)	Yes	
Staff with expertise or training in benefit/cost analysis	Yes	
Professionals trained in conducting damage assessments	Yes	

Fiscal Capability

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

Table 9.17-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
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	Yes
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	Yes
Other	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 the Township of Mansfield.



Table 9.17-7. 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	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes		
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes		
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	Yes		
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 Mansfield’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.17-8. Self-Assessment of Capability

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capability			X





Table 9.17-8. Self-Assessment of Capability

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

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Michael S. Finelli, P.E

Flood Vulnerability Summary

The Township does not formally maintain lists/inventories of properties that have been damaged by floods. During Sandy and other recent events, structures within the community did not sustain damage. The FPA makes Substantial Damage estimates; however, there were none declared for Irene/Lee or Sandy. There is currently no interest in mitigation (acquisition or elevation) in the Township. If there was interest, funding would be provided by the property owner and/or flood insurance.

Resources

The FPA indicated that he is not the sole person assuming the roles and responsibilities of floodplain administration; there is balance of technical staff in the office. NFIP administration services and functions provided by the FPA and his department includes permit review, inspections, damage assessments and GIS. Education and outreach provided to the Township includes stormwater management brochures and public meeting presentations. The FPA stated that is currently no barriers to running an effective floodplain management program and that he feels adequately supported and trained to fulfill his role as the municipal floodplain administrator. The FPA would consider attending continuing education and/or certification training on floodplain management if it were offered in the County.

Compliance History

The Township is currently in good standing with the NFIP and the last compliance audit was conducted in spring 2015.

Regulatory

The Township's floodplain management regulations/ordinances meet the minimum requirements set by FEMA and the State of New Jersey. The Township also has local ordinances, plans and programs that support floodplain management within the community. The planning and zoning boards consider efforts to reduce flood risk when reviewing variances.





Community Rating System

The Township of Mansfield does not participate in the Community Rating System (CRS) program; however, the Township has considered joining CRS and would attend a CRS seminar if offered locally.

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

The Township's 2008 Master Plan incorporates open space and economic development. The Land Use Board is authorized to create and adopt a master plan which is subject to re-examination every 10 years. The Township's capital improvements plan and stormwater management plan are updated each year. The Emergency Operations Plan is currently being developed by the OEM.

Mansfield Township in Warren County has 13,032 acres in the Preservation Area and 5,969 acres in the Planning Area of the Highlands Region. The municipality submitted a Notice of Intent to Petition the Highlands Council for Plan Conformance for all areas lying within the Preservation Area.

Regulatory and Enforcement (Ordinances)

Chapter 293: Stormwater Management – this ordinance requires the retrofitting of existing storm drain inlets which are in direct contact with repaving, repairing, reconstruction, or resurfacing or alterations of facilities on private property, to prevent the discharge of solids and floatables (such as plastic bottles, cans, food wrappers and other litter) to the municipal separate storm sewer system(s) operated by the Township of Mansfield so as to protect public health, safety and welfare, and to prescribe penalties for the failure to comply.

Chapter 199: Flood Damage Prevention – this ordinance promotes the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- A. Protect human life and health;
- B. Minimize expenditure of public money for costly flood control projects;
- C. Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- D. Minimize prolonged business interruptions;
- E. Minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets, bridges located in areas of special flood hazard;
- F. Help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood blight areas;
- G. Ensure that potential buyers are notified that property is in an area of special flood hazard; and
- H. Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.



Operational and Administration

The Township has established a Land Use Board, Environmental Commission, and an Open Space, Farmland Preservation, Conservation, Historical and recreation Advisory Committee that aid in planning decisions to support the conservation and preservation of the Township's critical environmental features.

Funding

The Township has established an Open Space Trust Fund.

Education and Outreach

The Township posts up-to-date information regarding emergency events and other community advisories. The Township also currently uses the Nixle alert system, as well as the County Rapid Notify system, to provide residents with emergency alerts, advisories and community messages.

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9.17.6 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 9.17-9. 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
Acquisition of two Repetitive Loss properties on Route 57.	OEM Coordinator	No Progress	Due to budget constraints, this project has not been completed.	Include in 2016 HMP	The Township will included this action as part of their mitigation initiatives for this plan update.
Raise embankment along 3000 feet of the Musconetcong River off River Road between Moulder Hill Road and the Washington Township line.	Twp Engineer	No Progress	Due to funding issues, this project has not been completed.	Discontinue	This would be multi-jurisdictional initiative; if the Township was to raise the embankment, municipalities downstream would flood. This action will be discontinued and not included in the plan update.
Back-up generator for Mansfield Township Elementary School located on Port Murray Road. Facility is a regional ARC shelter.	School Board Administrator	Complete	The generator has been purchased for the elementary school and was funded by the local budget.	Discontinue	This project has been completed and will not be included in the plan update.
Implement Fire Wise program throughout the Township.	OEM Coordinator	No Progress	Due to funding, this project has not been completed.	Include in 2016 HMP	This project has not been completed and will be included as part of the mitigation initiatives for this plan update.
Conduct all hazards public education and outreach program for hazard mitigation and preparedness.	WCOEM, OEM Coordinator	In Progress	The Township conducts public education and outreach. This is an ongoing program for the community. It is funded by the local budget.	Include in 2016 HMP	This project is conducted annually within the Township and will be included in the mitigation initiatives for this plan update.



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:

- The Township purchased and installed a generator for the municipal building. This was funded by the local budget.

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 9.17-11 summarizes the comprehensive-range of specific mitigation initiatives the Borough 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 9.17-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.17-10. 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
Mansfield-1	Implement Fire Wise program throughout the Township.	New and Existing	Wildfire	All	OEM Coordinator	High	Low	Municipal Budget	Short Term / DOF	Medium	LPR	PR
Mansfield-2	Continue to develop and enhance the Township's all-hazards public education and outreach program for hazard mitigation and preparedness.	N/A	All	All	WCOEM, OEM Coordinator	High	Low	Municipal Budget	Ongoing	High	EAP, LPR	PR, PI
Mansfield-3	Support continuity of operations at critical facilities The following is identified at this time: Purchase and install generator for the DPW facility.	Existing	All	1, 2, 6	Township and DPW	High	High	HMGP with local cost share	Short Term	High	SIP	PP
Mansfield-4	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 Grant Programs and local budget (or property owner) for cost share	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	High	SIP	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:

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





Table 9.17-11. 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
Mansfield-1	Implement Fire Wise program throughout the Township.	1	1	1	1	0	0	0	1	0	1	0	1	0	0	7	Medium
Mansfield-2	Continue to develop and enhance the Township's all-hazards public education and outreach program for hazard mitigation and preparedness.	1	1	1	1	1	1	1	0	1	1	1	1	1	0	12	High
Mansfield-3	Purchase and install generator for the DPW facility.	1	1	1	1	1	1	0	0	0	1	1	1	1	0	10	High
Mansfield-4	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.	1	1	1	1	1	1	0	0	0	1	1	1	1	0	10	High

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



9.17.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.17.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Township of Mansfield 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 Mansfield has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.17.9 Additional Comments

None at this time.

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Figure 9.17-1. Township of Mansfield Hazard Area Extent and Location Map 1

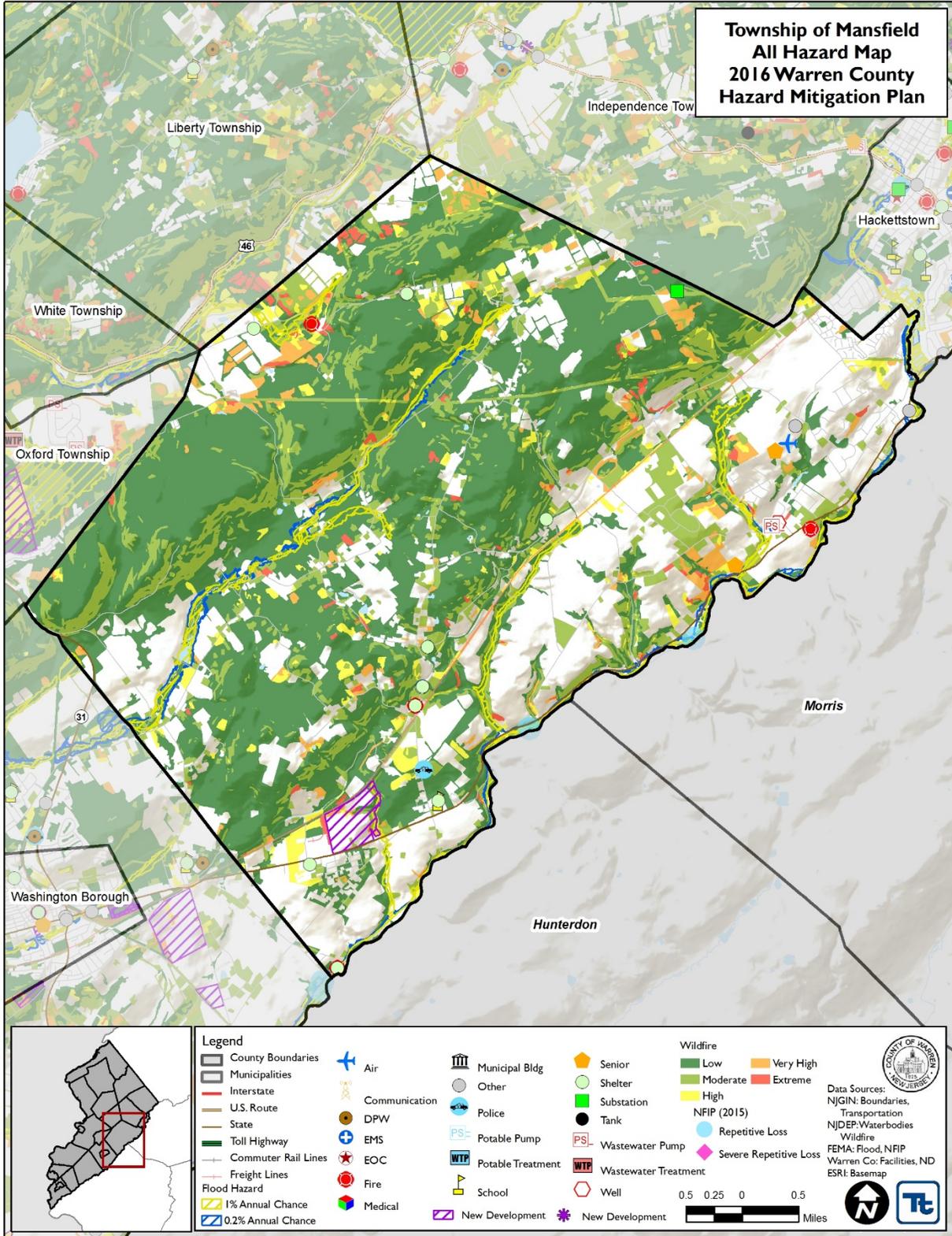
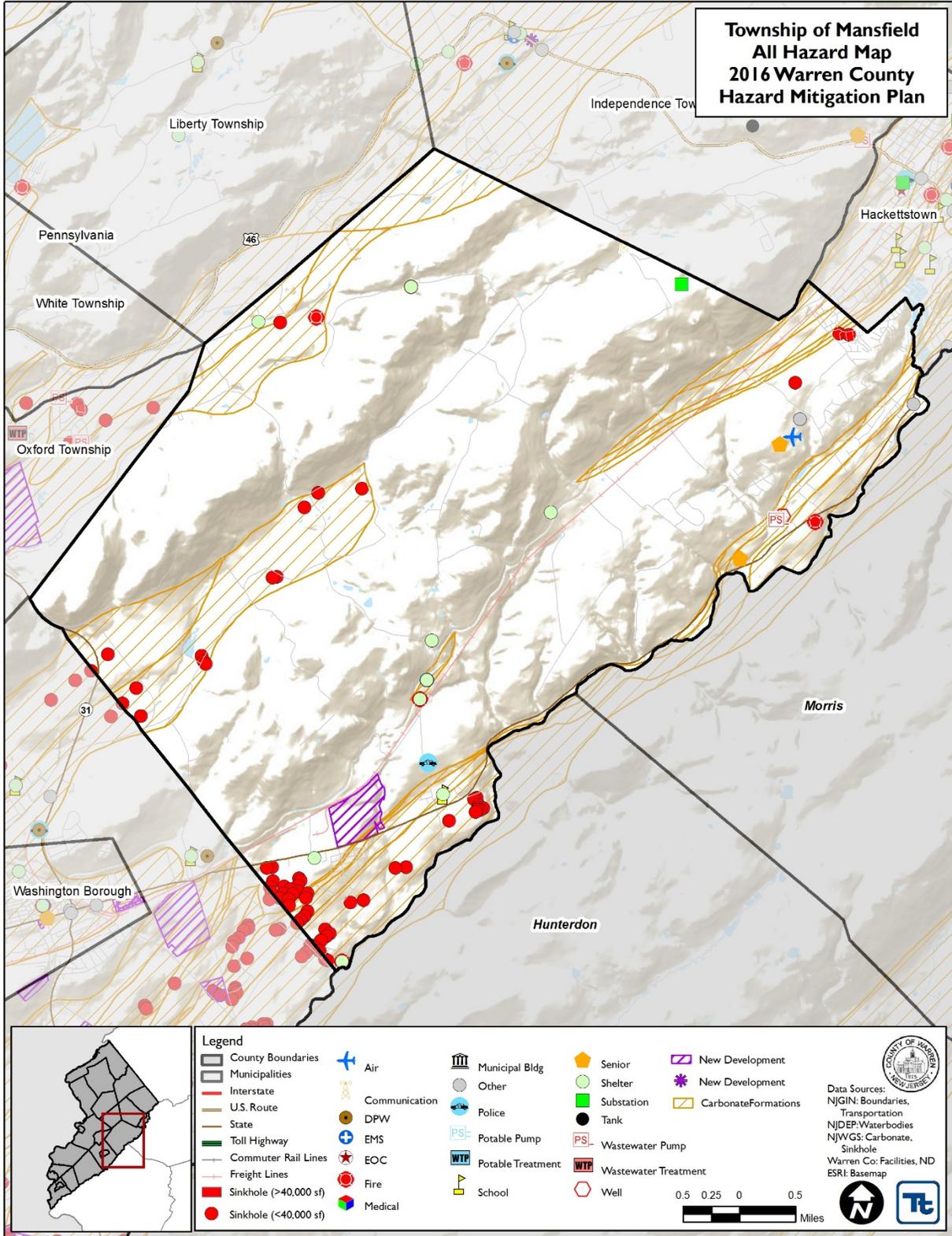




Figure 9.17-2. Township of Mansfield Hazard Area Extent and Location Map 2





Action Number: Mansfield-3
Mitigation Action/Initiative: Support continuity of operations at critical facilities – purchase backup generators for critical facilities in the Township

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Loss of power to critical facilities in the Township prevents the municipality from functioning during emergencies
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Purchase and install backup generator at the DPW facility 2. Purchase portable generators – not feasible for longer power outages 3. Do nothing – current problem continues
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support continuity of operations at critical facilities – Purchase and install backup generator at the DPW facility
Action/Project Category	SIP
Goals/Objectives 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/Lead Agency/Department	Township and DPW
Local Planning Mechanism	Emergency Operations
Potential Funding Sources	HMGP with local cost share
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



Action Number: Mansfield-3

Mitigation Action/Initiative: Support continuity of operations at critical facilities – Backup generators for critical facilities in the Township

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Allow the DPW facility to function during power outages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	Project to be completed in the next five years
Local Champion	1	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	