

9.18: Township of Mullica – Jurisdictional Annex

Summary of Hazards and Actions

Summary of Hazard Ranking and Actions, Township of Mullica			
Hazard	Hazard Ranking	# of Related Actions	Action #s
Atmospheric Hazards			
Extreme Temperatures	M	3	1, 2, 3
Extreme Wind	M	3	1, 2, 3
Hail	L	3	1, 2, 3
Hurricane & Tropical Storm	H	3	1, 2, 3
Lightning	L	3	1, 2, 3
Nor'easter	M	3	1, 2, 3
Tornado	L	3	1, 2, 3
Winter Storm	M	3	1, 2, 3
Hydrologic Hazards			
Coastal Erosion	N/A		
Sea Level Rise	H	3	1, 2, 3
Dam Failure	L	3	1, 2, 3
Levee Failure	N/A		
Drought	L	1	1
Flood	H	6	1, 2, 3, 4, 5, 6
Tsunami	L	3	1, 2, 3
Storm Surge	M	3	1, 2, 3
Wave Action	N/A		
Geologic Hazards			
Earthquake	L	3	1, 2, 3
Other Natural Hazards			
Wildfire	L	3	1, 2, 3

Mitigation Strategy for Risk Reduction

Overview of Municipal Mitigation Strategy, Township of Mullica				
Project Number	Project Description	Hazard(s) Addressed	Priority	Goals
1	Continue to make information easily accessible to residents at the municipal complex, on our website and hold periodic breakout sessions in areas of the township when the need arises.	All	H	1
2	Acquisition of an attachment for a township owned front end loader that will enhance the ability to remove debris from a storm. The attachment is a grapple bucket that is able to move downed trees and large debris (Action 3 on 2016 Plan)	All	H	2
3	Acquisition of 4 new tires for the compact utility vehicle capable of accessing unimproved and dirt roads, confined areas (New)	All	H	2
4	Install 2 new headers and a pipe to help with water drainage on New Hampshire Ave. and 7tTh Ave. (New)	Flood	H	3
5	Install 2 new drainage basins on moss mill road and Darmstadt (New)	Flood	H	3
6	Identify the owners of repetitive and severe loss Properties. Communicate with those owners and identify the proper/Cost effective mitigations actions for each. Assist willing owners with grant applications. (New)	Flood	M	3

More detailed information on these individual actions is presented at the end of this annex.

Contact Information

Township of Mullica's Statement of Authority to Participate identified a Primary Point of Contact and an Alternate for this hazard mitigation plan update. These individuals represented the jurisdiction on the county-wide Core Planning Group and led a local team of Jurisdictional Assessment Team Members who undertook various local activities related to the plan update.

HAZARD MITIGATION PLAN POINTS OF CONTACT						
Primary Point of Contact			Alternate Point of Contact			
Name: Christopher Silva Title: OEM Coordinator Department: Emergency Management Address: 4528 White Horse Pike, Mullica, NJ 08217 Phone Number: 609-204-5900 E-mail Address: csilva@mullicatownship.org			Name: Jerry Critelli Title: OEM Deputy Coordinator Department: Emergency Management Address: 4528 White Horse Pike, Mullica, NJ 08217 Phone Number: 609-839-4118 E-mail Address: jerry.critelli@atlanticcityelectric.com			
Jurisdictional Assessment Team Members						
Please fill in the contact details for the person filling in this page:						
Name: Christopher Silva Title :OEM Coordinator Community Name: Mullica Township County: Atlantic Email: Phone:609-561-7600 EXT 121		Atlantic County, NJ				
*Note: If your community does not have someone filling the role of a position title in Column A, please insert the word "none" in Column B. Thank you.						
Local Jurisdiction Role/Position	Name	Email	Phone	Date of Invitation	Method of Invitation	Agreed to participate?
Mayor/Supervisor	Kristi Hanselmann	khanselmann@mullicatownship.org	609-226-0955	07/13/21	In person	Yes
Clerk	Kim Johnson	kjohnson@mullicatownship.org	609-561-7600 Ext 114	07/23/21	In person	Yes
Engineer	Deborah wahl	wahl.doran7@gmail.com	(609) 646-3111	06/09/21	Phone	Yes
Planning board	Jerry Critelli	jerry.critelli@atlanticcityelectric.com	609-839-4118	06/09/21	In Person	Yes
Building Code Official	John Holroyd	jholroyd@mullicatownship.org	609-561-7600 Ext 118	07/13/21	In person	Yes
Emergency Manager	Christopher Silva	csilva@mullicatownship.org	609-561-7600 Ext121	06/09/21	In person	yes
Fiscal/Budget Officer	Dawn Stollenwerk	dstollenwerk@mullicatownship.org	609-561-7600 Ext111	08/04/21	In person	Yes
Floodplain Manager	Deborah wahl	wahl.doran7@gmail.com	(609) 646-3111	06/09/21	Phone	Yes
Public Works Director	Chuck Gras	cgras@mullicatownship.org	609-561-7600 Ext 129	07/08/21	In person	yes

The Township of Mullica has reported undertaking the following internal activities in preparation of its mitigation plan:

Subject of JAT Activity (Meeting Notice, Emails, Etc.)	Date	INVOLVED PARTIES - Place an 'x' for any position title that participated										
		Mayor/ Supervisor	Administrator	Clerk	Engineer	Attorney	Building Code Official	Emergency Manager	Fiscal / Budget Officer	Floodplain Manager	Planner	Public Works Director
Meeting with public works foreman (advised what items he would like to purchase in the next 5 years to make the clean up after large storms easier.	07/13/21							Y				Y
Met with building inspector and reviewed the plan	07/13/21						Y	Y				
Met with Engineer and reviewed Floodplain paperwork	07/23/21			Y	Y			Y		Y		
Met with firechiefs and asked for their input	07/12/21							Y				
met with member of the planing board about any potential new buidling in Mullica	08/03/21							Y			Y	
Held a meeting at townhall	08/03/21							Y				
Met with town clerk in reference to any new project the township may have pending.	08/03/21			Y				Y				
Worked on worksheet WS3/ WS4	08/13/21			Y				Y	Y		Y	

Governing Body Format

The Township Committee is comprised of five members, who are elected directly by the voters at-large in partisan elections to serve three-year terms of office on a staggered basis, with either one or two seats coming up for election each year as part of the November general election in a three-year cycle. The mayor and deputy mayor are selected at an annual reorganization meeting by the Committee from among its members to serve terms of one year. The mayor presides over Township Committee meetings.

Land Use and Development Trends

An evaluation of growth and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan in 2010, and the last update in 2016. As part of this second plan update, Township of Mullica reviewed and updated its prior feedback to reflect current conditions as of mid-2021.



Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update *Worksheet #3 – Growth and Development Trends Update*

Performing an assessment of Growth and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Growth/development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred, unless backed up by a lack of development.

An evaluation of growth/development trends was undertaken by each participating jurisdiction as part of the development of the 2016 plan. Your municipality's prior response from 2016 is included on the next page in Part 1. Please review your community's prior feedback and identify any changes that have occurred since that time so the most current information can be reflected in this 2021 plan update. In addition, please provide responses for Part 2.

Information for the 2016 plan was provided to us by: John Thompson, Chief of Police, Local OEM Coordinator

Your Name: Christopher Silva]

Title: Sergeant]

Community: Mullica]

Email: csilva@mullicatownship.org and Phone: 609-204-5900]

Part 1 – Please update your response from 2016 to reflect current conditions in the community.

Community	<p>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan. Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as "high-occupancy, high-density residential development is occurring near the waterfront".</p>	<p>1a. Please update your response to reflect conditions in 2021</p>	<p>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan. Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA's NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community's which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.</p>	<p>2a. Please update your response to reflect conditions in 2021</p>
<p>Mullica, Township of</p>	<p>Mullica Township is a town that is strictly controlled by Pinelands. The Township has no significant residential or commercial development at this time. Over the past several years, the Town has experienced increased Single Family Dwelling Development, but this is limited due to Pineland Restrictions. A 55 and older community of approximately 100 homes is being discussed, however it has not reached either the zoning or Planning Board. The site is on Rt. 30 at an abandoned junkyard.</p>	<p>Mullica Township is a town that is strictly controlled by Pinelands. The Township has no significant residential or commercial development at this time. Over the past several years, the Town has experienced increased Single Family Dwelling Development, but this is limited due to Pineland Restrictions. The restriction haven't changed over the last planned cycle. Township may be building a new municipal complex in the near future. During this next planned cycle there should be a carpenters training center constructed. The planning board does not have anything else vet.</p>	<p>Yes Mullica Township works closely with Department of Environmental Protection and the Pinelands Commission for wetlands areas and utilizes flood maps to identify floodplain. Mullica works with Department of Community Affairs to ensure all building regulations are met. We also have a Fire Management Ordinance (copy attached) to ensure fire safety for structures.</p>	<p>Yes, Mullica Township works closely with Department of Environmental Protection and the Pinelands Commission for wetlands areas and utilizes flood maps to identify floodplain. Mullica works with Department of Community Affairs to ensure all building regulations are met. We also have a Fire Management Ordinance to ensure fire safety for structures.</p>

Part 2 – Please answer the following questions.

Is major development planned? (yes/no)		Yes				
If major development is planned, please describe generally in the box to the right, and then complete the rows below.		A new carpenters training center will be constructed in the township				
<i>Property Name</i>	<i>Type (Residential or Commercial)</i>	<i>No. of Structures</i>	<i>Address</i>	<i>Block and Lot</i>	<i>Known Hazard Zone</i>	<i>Description /Status</i>
Carpenters training center	Commercial	1	3301 White Horse Pike	Block 3510 Lot 1	Unknown	Breaking ground

National Flood Insurance Program Summary

Township of Mullica has participated in FEMA's National Flood Insurance program (NFIP) since 1982.

National Flood Insurance Program Data Township of Mullica	
Total number of policies ¹	114
Insurance in force ²	\$30,501,100
Total number of losses during NFIP participation	169
Total claims paid during NFIP participation	\$5,587,287
Non-Mitigated Repetitive Loss Properties	14
Non-Mitigated Severe Repetitive Loss Properties	1

Mullica does not participate in the NFIP's Community Rating System. It previously entered the CRS in 1994 as a Class 10 community but its status is currently rescinded, and policyholders do not receive discounts on their flood insurance premiums.

Mullica provided the following NFIP Administrator Input in 2021, for inclusion in the 2022 Plan.

¹ Policies in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21.

² Insurance in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21

Name: Matthew Doran Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Community: Mullica Township Email and Phone: wahl.doran7@gmail.com
(609) 646-3111



Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update - *Worksheet #2 - NFIP*

Note: Data showing in the form at this time was provided for the 2021 plan by: Christopher Silva. This form should be updated by your floodplain administrator.

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP ¹	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)		Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?	
<u>06/26/2018</u>	<u>03/01/1982</u>	<u>Flood Plain Manager/Township Engineer</u>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
<u>We have GIS and engineers for engineering capability</u>							
Describe barriers to running an effective NFIP program in the community (if applicable):							
<u>Researching Grant opportunities for updating GIS</u>							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)? ²	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
<u>Spring of 2014</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No * Class <u> </u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> N/A
*Describe any outstanding compliance issues (i.e., current violations):							
<u> </u>							

Name: [Matthew Doran] Title : Floodplain Manager/Floodplain Administrator/NFIP Coordinat



Representing: [Mullica Township] Email and Phone [wahl.doran7@gmail.com]

(609) 646-3111]

Provide an explanation of your local floodplain permitting process:

[Applications are reviewed for compliance of federal, state and local laws and ordinances

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

* If you answered "yes", that there have been changes to your local program since the last version of the plan, please describe:

[

Provide a description of your community assistance and monitoring activities:

[Assistance to the community is provided by posting information online and at the municipal complex, monitoring is performed by periodically patrolling the areas of the township that are in floodplains. The patrols focus on compliance of local, state and federal floodplain laws.

NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?

Yes No

NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?

Yes No

Critical Facilities in Delineated Hazard Areas

Note that all assets and facilities in the Township of Mullica are considered to be at risk from County-wide hazards: Hurricane/Tropical Storm, Nor'easter, Extreme Wind, Tornado, Winter Weather, Lightning, Extreme Temperatures and Earthquake.

Facility Name	Location	Facility Type	Flood, A Zone	Flood, V Zone (Wave)	Category 1-4 Storm Surge	Coastal Erosion	Sea Level Rise, 1 Ft	Sea Level Rise, 3 Ft	Dam Failure	Low to Moderate Wildfire	High to Extreme Wildfire
Township of Mullica											
Mullica Township School	500 Elwood Road	Emergency Shelter	0	0	0	0	0	0	0	0	0
Mullica Twp. - Nesco - Station 161	Pleasant Mills Road	Fire Station	0	0	0	0	0	0	0	0	0
Mullica Twp - Sweetwater - Station 163	Pleasant Mills Road	Fire Station	0	0	1	0	0	0	0	0	1
Mullica Twp - Weekstown - Station 162	Weekstown Road	Fire Station	0	0	1	0	0	0	0	1	0
Mullica Twp - Elwood - Station 160	Union Avenue	Fire Station	0	0	0	0	0	0	0	0	0
Mullica Township PD	4528 White Horse Pike	Police Station	0	0	0	0	0	0	0	0	0
State Police Barracks	Elwood Road	Police Station	0	0	0	0	0	0	0	0	0
Municipal Bldg.	4528 White Horse Pike	Public Works	0	0	0	0	0	0	0	0	0
Hilda Frame School	3410 Nesco road	School	0	0	0	0	0	0	0	1	0
Mullica Township Middle School	Elwood road	School	0	0	0	0	0	0	0	0	0
Mullica Township Elementary	Elwood road	School	0	0	0	0	0	0	0	0	0
Laurer School	500 Elwood Road	School	0	0	0	0	0	0	0	0	0
Total			0	0	2	0	0	0	0	2	1

Summary of Estimated Potential Losses from Hazards

Estimated annual losses provided in this section are based on best available data, and the methodologies applied result in an approximation of risk. Loss estimates should be used to understand relative risk from hazards.

Uncertainties are inherent in any loss estimation methodology, arising in part from incomplete scientific knowledge concerning natural hazards and their effects on the built environment. Uncertainties also result from approximations and simplifications that are necessary for a comprehensive analysis (i.e., incomplete inventories, demographics or economic parameters).

It is important to note that this table reflects estimates of average annual damages. For any hazard, individual event damages could be substantially (orders of magnitude) higher.

Only hazards for which annual losses were quantified and presented in Section 3C are included in this table.

Summary of Estimated Potential Losses From Hazards		
Township of Mullica		
Quantified Hazard	Annualized Loss	Annual Loss Ratio
Extreme Wind	\$110,000	0.033%
Hurricane and Tropical Storm	\$171,000	0.020%
Lightning	\$900	0.000%
Tornado	\$300	0.000%
Drought*	\$909,000	5.000%
Winter Storm	\$3,000	0.001%
Coastal Erosion	\$0	0.000%
Flooding (Riverine)	\$747,000	0.090%
Storm Surge (Coastal Flooding)	\$3,823,000	0.470%
Earthquake	\$8,000	0.001%

*Derived from crop values

Outreach to the Public and Other Stakeholders

As part of this 2022 Plan Update, Township of Mullica undertook various activities to: (a) alert the public and other stakeholders to the fact that the HMP Planning Committee was working to develop the update; and (b) provide the public and other stakeholders with a forum to ask questions and submit comments and suggestions on the process. Outreach activities undertaken by Township of Mullica included those listed below. No comments were recorded as a result of the outreach activities.

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
07/07/2021	Created a newsletter and posted it on our township website	Created a newsletter and posted it on our township website	Christopher Silva/ Michael Irwin(I.T. director)
07/10/2021	Handed out the news letter to the 4 fire chiefs as well to their members for input	Handed out the news letter to the 4 fire chiefs as well to their members for input. Took questions	Christopher Silva, Jerry Critelli
07/13/2021	Placed informational packet in town hall for the residence to read.	Gave email and phone number so I could receive feedback	Christopher Silva
8/3/2021	Held an informational meeting at towns hall for the residents.	Explained the mitigation process and asked for feedback.	Christopher Silva
08/03/21	Met with Township Clerk on any new Township projects for Mitigation	Spoke about projects	Christopher Silva Kimberly Johnson

Capability Assessment

This section describes the following capabilities of Township of Mullica :

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community resiliency
- Community political capability

As part of the 2022 Plan update, each participating jurisdiction reevaluated the capabilities they had provided for the 2016 Plan, and sent updates to the consultant for incorporation into this plan section. Township of Mullica has reviewed its responses from the 2016 Plan and has updated its prior feedback to reflect present-day conditions.

Legal and Regulatory Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this?
Building Code	Y
Zoning Ordinance	Y
Subdivision Ordinance	Y
Special Purposes Ordinance	Y
Growth Management Ordinance	Y
Site Plan Review Requirements	Y
Comprehensive Plan	Y
Capital Improvements Plan	Y
Economic Development Plan	Y
Emergency Response Plan	Y
Post-Disaster Recovery Plan	Y
Post-Disaster Recovery Ordinance	N
Real Estate Disclosure Ordinance	N
Evacuation Plan	Y

Administrative and Technical Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this?
Planner(s) with knowledge of land development and management practices	Y
Engineer(s) with knowledge of land development and management practices	Y
Planner(s) or engineer(s) with knowledge of land development and management practices	Y
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y
Planner(s) or engineer(s) with an understanding of natural and/or human caused hazards	Y
Floodplain manager	Y
Surveyors	Y
Staff with education or expertise to assess the community's vulnerability to hazards	Y
Personnel skilled in GIS and/or HAZUS	Y
Scientists familiar with the hazards of the community	N
Emergency Manager	Y
Code Enforcement Official	Y
Public Works or Highway Superintendent	Y
Emergency Management Coordinator	Y

Fiscal Capability	
Financial Resources	Accessible or Eligible to use
Community Development Block Grants (CDBG)	Y
Capital Improvements Project Funding	Y
Authority to Levy Taxes for Specific Purposes	Y
Fees for Water, Sewer, Gas, or Electric Service	N
Impact Fees for Homebuyers or Developers for New Developments/Homes	Y
Incur Debt through General Obligation Funds	Y
Incur Debt through Special Tax and Revenue Bonds	N
Incur Debt through Private Activity Bonds	N
Withhold Spending in Hazard-Prone Areas	N
Other (i.e., coastal, sustainability, or climate change initiatives; or Brownfield funds)	Y

<p>Would you classify your community's legal and regulatory capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall technical capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall fiscal capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your community's overall administrative capability to implement hazard mitigation strategies as high, moderate, or low?</p>	<p>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</p>
M	M	M	M	M
<p>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</p>				
<p>Additional public awareness education. Continue our outreach to members of town committee as well as members of the community. Their input will help guide us moving forward. Speak with public works Forman as well as fire chiefs to ensure we are prepared for future events. I will also speak with my local township council in reference to allocating funds to continuing the funding of any of our mitigation plans.</p>				

Plan Integration

It is the intention of Township of Mullica to incorporate mitigation planning as an integral component of daily municipal operations. The balance of this subsection describes local accomplishments over the last planning cycle (2016-2021), and targeted activities for the next planning cycle (2022-2027), as reported by the Township's CPG member and shared with the consultant for incorporation here.

Demonstration of Progress over the Last Planning Cycle (2016-2021) – Township of Mullica undertook the following plan integration mechanisms over the last planning cycle:

Mullica Township Continues to spread awareness to the community through handouts as well as information on our township website. I will make informational handouts available to the public at town hall. Through grants Mullica Township was able to install a total of 3 generators in the township firehouses. This will help us in the future when we have large scale power outages.

Mullica Township through the military surplus website was able to obtain a Polaris so police/fire can reach hard to reach sections of Mullica Township in the case of an emergency. The Polaris was already used several times. I foresee this piece of equipment should help us over the next planned cycle.

Targeted Plan Integration Activities for the Next Planning Cycle (2022-2027) – Township of Mullica plans to implement the following plan integration mechanisms into local government operations from this point forward through the next planning cycle:

Mullica Township will continue with public outreach as well as take in feedback. We will keep the residents updated through our township OEM page and create updated handouts that will be in town hall. We will attempt to put in the budget for the Grapple bucket for the front end loader so public works has an easier time cleaning up after a large scale storm. I have spoken with the public works foreman and he expressed to me that he would try and put the Grapple bucket into his budget for next year. If the township is unable to come up with the funds I will look for other avenues to be able to afford the item. I will continue to meet with him and check on the status. The grapple bucket will allow public works to pick up large debris and place them into a container for transport to the dump. The township will be in the next few years installing new headers and a pipe running under the road in the area of New Hampshire and 7th Ave. this will help with drainage problems as well as damage to the road. This is a new project but it has support and I expect it to be completed sooner than later. The next project we will be working on is 2 new drainage basins on Moss Mill road near Darmstadt Ave. This is another project the township will be undertaking in the next 1-2 years. This project will help with flooding in that area as well as damage to the roadway. Once the drainage is put in this will decrease the flooding in those areas. I will Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently. Mullica's OEM will continue to push the importance of staying on top of the discussed jobs.

Mitigation Strategy

This subsection sets forth the mitigation strategy for Township of Mullica. It describes, in the following order:

- Progress on 2016 Plan Actions
- Hazard Mitigation Accomplishments
- Proposed 2022 Plan Mitigation Actions
- Action Worksheets

Progress on 2016 Plan Actions

The following table was completed by the Township of Mullica JAT Committee Members. It summarizes the progress that was made on the local hazard mitigation initiatives that were set forth in the last version of the plan in 2016.

Mullica has identified no major changes in priorities since the last version of the plan.

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
1	Continue to make information easily accessible to residents at the municipal complex, on our website and hold periodic breakout sessions in areas of the township when the need arises.	High	All	Christopher Silva			X		This is an ongoing effort to spread awareness to future hazardous situations.	X		New information will be passed around town and posted in Town Hall.
2	Acquisition of generator power - install emergency standby generators at Sweetwater, Nesco and Weekstown firehouses	High	All	John Thompson	X				All 3 of the fire houses received the grant funding to install new generators at the fire houses.		X	
3	Acquisition of an attachment for a township owned front end loader that will enhance the ability to remove debris from a storm. The attachment is a grapple bucket that is able to move downed trees and large debris	High	All	Christopher Silva		X			This has been a slow process to gain the funds needed to make the purchase.	X		I will speak with township council as well as our CFO to see how soon we can allocate funds for the project.
4	Acquisition of a compact utility vehicle capable of accessing unimproved and dirt roads, confined areas	High	All	John Thompson	X						X	

Hazard Mitigation Accomplishments (2016-2021)

The State of New Jersey 2019 HMP (Section 3, Page 3-30) requires identification of mitigation activities as an essential element of a local plan review. Information on the status of long-range mitigation strategies shall be contained in the original plan. Self-funded mitigation initiatives as well as past FEMA funded projects should be documented. The following table summarizes past mitigation accomplishments in Township of Mullica since the last version of the plan was adopted in 2016.

Past Mitigation Accomplishments				
Project	Status		Funding Source	Relationship to Plan
	Approved/Active Year	Completed Year		
#1 Continue to make information easily accessible to residents at the municipal complex, on our website and hold periodic breakout sessions in areas of the township when the need arises.	Yearly		Township	in plan
#2 Acquisition of generator power - install emergency standby generators at Sweetwater, Nesco and Weekstown firehouses	2020		Local paid \$9718.00 FEMA paid \$75,000	In the plan
#4 Acquisition of a compact utility vehicle capable of accessing unimproved and dirt roads, confined areas	2018		Free Through military surplus	in the plan

Proposed 2022 Plan Mitigation Actions

The process for selection and prioritization of mitigation actions is described in greater detail in Section 6 of the main text. The outcomes of that overall process are summarized here.

This plan proposes the actions determined to be the most appropriate for the resources and capabilities of Township of Mullica based on the experience of local officials, with input from the public and other stakeholders. Potential actions were reviewed relative to potential financial as well as administrative and legal costs and the degree to which they would be endorsed by the public. Potential actions were reviewed during the meetings relative to their potential benefit of effectiveness in saving lives, protecting the natural environment, and reducing disruption and damage. Actions selected by each jurisdiction include activities to protect existing and future structures and infrastructure and enhance community resilience.

Part of enhancing community resilience involves adapting to a changing climate. This plan's risk assessment includes information on climate change as part of the hazard vulnerability analysis and contain strategies/projects to address increased vulnerability that may result from climate change. By developing mitigating strategies and/or projects for hazards that are exacerbated by climate change, jurisdictions will better protect residents, avoid, or reduce damage to property and public infrastructure, and reduce personal hardship. Previous sections of this plan have presented information on how climate change may affect jurisdictional vulnerability or increased frequency of occurrence and/or severity in exposure to the identified hazards. Climate change is addressed by mitigating the various hazards that it exacerbates.

Action priorities were determined by a qualitative prioritization process. A higher priority was assigned to projects where: the life/safety risk of taking no action was deemed to be unacceptably high; the project addresses one of the community's highest hazards and/or key risks; benefits were projected to equal or exceed project costs; critical facilities or key local assets were being protected; funding and staff resources were deemed to be sufficient and/or accessible for project implementation; the project is technically feasible and the community determined their legal authority to implement the action; negative environmental and/or social impacts were not identified during the assessment, or were very minimal; and/or where there was overall support for the project from the local community (government officials, public, and stakeholders).

Detailed Action Worksheets for each action item in the strategy are presented in the following pages.

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	<i>1</i>
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>The risk of this area is to identify residents and community members that may be uninformed of the risks of hazards.</i>
Describing the Action	
Action category	<i>public education</i>
Action type	<i>Public Awareness and Education</i>
Action description	<i>Continue to make information easily accessible to residents at the municipal complex, on our website and hold periodic breakout sessions in areas of the township when the need arises.</i>
Existing, future &/or NA	<i>The action protects existing and future development</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Public education and awareness training can be very effective in reducing hazard risks</i>
Cost estimate	<i>The cost to continue with this project is minimal. \$2,000 annually.</i>
Cost effectiveness (i.e., benefit/cost)	<i>The \$2,000 investment is a small investment considering the thousands of dollars that could be saved by reducing hazards and lowering risks.</i>
Technical	<i>The mitigation action is technically feasible.</i>
Political	<i>There is public and political support for this project</i>
Legal	<i>The township does have the authority to implement the action</i>
Environmental	<i>No environmental impacts of the action are known</i>
Social	<i>No negative social impacts are known. No affect on the population has been identified either.</i>
Administrative capability	<i>There is staffing in place to implement the project</i>
Local champion	<i>There is an advocate for this action present locally</i>
Other community objectives	<i>The action does further other objectives, specifically economic development, environmental quality and open space preservation</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Local ordinances, federal and state law will be consulted in the implementation of this project</i>
Responsible party	<i>Emergency Mangement coordinator</i>
Potential funding sources	<i>Local OEM budget</i>
Time line	<i>ongoing through the terms of this plan</i>
Reporting on Progress	
Action progress status	<i>This is not a new action, it has been carried from the last plan update. Education is an ongoing project that will never be completed</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	2
Assessing the Risk	
Hazard(s) addressed	<i>all</i>
Risk finding	<i>The risk identified in this area is to be more effective in the response of debris removal after an event</i>
Describing the Action	
Action category	<i>Response capabilities</i>
Action type	<i>Debris Removal</i>
Action description	<i>Acquisition of an attachment for a township owned front end loader that will enhance the ability to remove debris from a storm. The attachment is a grapple bucket that is able to move downed trees and large debris</i>
Existing, future &/or NA	<i>The action protects existing and future development</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>The acquisition of this equipment will reduce the amount of man hours and equipment hours needed to safely remove debris after a storm.</i>
Cost estimate	<i>\$16,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Over time the \$16,000 investment will be funds well spent considering the enhanced response ability that it will provide to the township in its ability to respond to a weather incident.</i>
Technical	<i>The mitigation action is technically feasible.</i>
Political	<i>There is public and political support for this project</i>
Legal	<i>The township doe have the authority to implement the action</i>
Environmental	<i>No environmental impacts of the action are known</i>
Social	<i>No negative social impacts are known. No affect on the population has been identified either.</i>
Administrative capability	<i>There is staffing in place to implement the project</i>
Local champion	<i>There is an advocate for this action present locally</i>
Other community objectives	<i>The action does further other objectives, specifically economic development, environmental quality and open space preservation</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Local ordinances, federal and state law will be consulted in the implementation of this project</i>
Responsible party	<i>Emergency Management coordinator</i>
Potential funding sources	<i>Local OEM budget</i>
Time line	<i>ongoing through the terms of this plan</i>
Reporting on Progress	
Action progress status	<i>This is not a new action, it has been carried from the last plan update.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	<i>3</i>
Assessing the Risk	
Hazard(s) addressed	<i>All</i>
Risk finding	<i>The risk identified in this area is to be more effective in the response of debris removal after an event</i>
Describing the Action	
Action category	<i>Response capabilities</i>
Action type	<i>Debris Removal</i>
Action description	<i>Acquisition of 4 new tires for the compact utility vehicle capable of accessing unimproved and dirt roads, confined areas</i>
Existing, future &/or NA	<i>The action protects existing and future development</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>The acquisition of this equipment will reduce the amount of man hours and equipment hours needed to safely remove debris after a storm.</i>
Cost estimate	<i>\$1,200</i>
Cost effectiveness (i.e., benefit/cost)	<i>Over time the \$1200 investment will be funds well spent considering the enhanced response ability that it will provide to the township in its ability to respond to a weather incident.</i>
Technical	<i>The mitigation action is technically feasible.</i>
Political	<i>There is public and political support for this project</i>
Legal	<i>The township does have the authority to implement the action</i>
Environmental	<i>No environmental impacts of the action are known</i>
Social	<i>No negative social impacts are known. No affect on the population has been identified either.</i>
Administrative capability	<i>There is staffing in place to implement the project</i>
Local champion	<i>There is an advocate for this action present locally</i>
Other community objectives	<i>The action does further other objectives, specifically economic development, environmental quality and open space preservation</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Local ordinances, federal and state law will be consulted in the implementation of this project</i>
Responsible party	<i>Emergency Management coordinator</i>
Potential funding sources	<i>Local OEM budget</i>
Time line	<i>ongoing through the terms of this plan</i>
Reporting on Progress	
Action progress status	<i>This is a new plan</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	<i>4</i>
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>The risk of this area is to identify flooding concerns</i>
Describing the Action	
Action category	<i>Help with flooding</i>
Action type	<i>Proactive measure</i>
Action description	<i>Install 2 new headers and a pipe to help with water drainage on New Hampshire Ave. and 7Th ave.</i>
Existing, future &/or NA	<i>This action will help with keep the road from eroding as well as help keep the streets from flooding during storms.</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>This will help keep the cost of future repairs down.</i>
Cost estimate	<i>The cost is roughly 15k</i>
Cost effectiveness (i.e., benefit/cost)	<i>The 15k investment will help withless destruction of the road/land in that area.</i>
Technical	<i>The mitigation action is technically feasible.</i>
Political	<i>There is public and political support for this project</i>
Legal	<i>The township does have the authority to implement the action</i>
Environmental	<i>No environmental impacts of the action are known</i>
Social	<i>No negative social impacts are known. No affect on the population has been identified either.</i>
Administrative capability	<i>The plan will be talked about in the up coming future.</i>
Local champion	<i>There is an advocate for this action present locally</i>
Other community objectives	<i>The action does further other objectives, specifically economic development, environmental quality and open space preservation</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Local ordinances, federal and state law will be consulted in the implementation of this project</i>
Responsible party	<i>Emergency Mangement coordinator</i>
Potential funding sources	<i>Township budget</i>
Time line	<i>ongoing through the terms of this plan</i>
Reporting on Progress	
Action progress status	<i>This is a new action and expect to be able to completed it in the next few years.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	5
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>The risk of this area is to identify areas of flooding concern</i>
Describing the Action	
Action category	<i>Help with flooding</i>
Action type	<i>Proactive measure</i>
Action description	<i>install 2 new drainage basins on moss mill road and Darmstadt</i>
Existing, future &/or NA	<i>This action will help with keep the road from eroding as well as help keep the streets from flooding during storms.</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>This will help keep the cost of future repairs down.</i>
Cost estimate	<i>The cost is roughly 25k</i>
Cost effectiveness (i.e., benefit/cost)	<i>The 25k investment will help with less destruction of the road/land in that area.</i>
Technical	<i>The mitigation action is technically feasible.</i>
Political	<i>There is public and political support for this project</i>
Legal	<i>The township does have the authority to implement the action</i>
Environmental	<i>No environmental impacts of the action are known</i>
Social	<i>No negative social impacts are known. No affect on the population has been identified either.</i>
Administrative capability	<i>The plan will be talked about in the up coming future.</i>
Local champion	<i>There is an advocate for this action present locally</i>
Other community objectives	<i>The action does further other objectives, specifically economic development, environmental quality and open space preservation</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Local ordinances, federal and state law will be consulted in the implementation of this project</i>
Responsible party	<i>Emergency Mangement coordinator</i>
Potential funding sources	<i>Township budget</i>
Time line	<i>ongoing through the terms of this plan</i>
Reporting on Progress	
Action progress status	<i>This is a new action and expect to be able to completed it in the next few years.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Mullica Township</i>
Community action number	6
Assessing the Risk	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>There are 14 properties in Mullica Township identified by the NFIP as Repetitive Loss properties and 1 Severe repetitive loss property.</i>
Describing the Action	
Action category	<i>Structure</i>
Action type	<i>Investigate the mitigation options for each of these identified properties</i>
Action description	<i>Identify the owners of these repetitive and severe loss Properties. Communicate with those owners and identify the proper/Cost effective mitigations actions for each. Assist willing owners with grant applications.</i>
Existing, future &/or NA	<i>Existing and Future</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Future residential flood loss</i>
Cost estimate	<i>Unknown at this time</i>
Cost effectiveness (i.e., benefit/cost)	<i>Very cost effective</i>
Technical	<i>Project is feasible</i>
Political	<i>NO political issue</i>
Legal	<i>No Legal issue</i>
Environmental	<i>The town would follow all state and federal environmental regulations</i>
Social	<i>None</i>
Administrative capability	<i>Township employees are capable of administering this project</i>
Local champion	<i>Township Oem, Mayor and committee</i>
Other community objectives	<i>No</i>
Implementing the Action	
Priority	<i>Medium</i>
Local planning mechanism	<i>Township Oem, Mayor and committee</i>
Responsible party	<i>Township Oem, Mayor and committee</i>
Potential funding sources	<i>FEMA Grants</i>
Time line	<i>5-10 year plan</i>
Reporting on Progress	
Action progress status	<i>New action</i>