

## 9.19: City of Northfield – Jurisdictional Annex

### Summary of Hazards and Actions

Summary of Hazard Ranking and Actions, City of Northfield			
Hazard	Hazard Ranking	# of Related Actions	Action #s
<b>Atmospheric Hazards</b>			
Extreme Temperatures	M	1	17
Extreme Wind	M	9	1, 2, 4, 7, 9, 10, 15, 16, 17
Hail	L	1	17
Hurricane & Tropical Storm	H	10	1, 2, 4, 7, 9, 10, 15, 16, 17, 20
Lightning	L	9	1, 2, 7, 9, 10, 15, 16, 17
Nor'easter	M	10	1, 2, 4, 7, 9, 10, 15, 16, 17, 20
Tornado	L	1	17
Winter Storm	M	3	1, 2, 4
<b>Hydrologic Hazards</b>			
Coastal Erosion	M		
Sea Level Rise	H		
Dam Failure	N/A		
Levee Failure	N/A		
Drought	L		
Flood	H	9	4, 9, 10, 14, 15, 16, 17, 18, 19
Tsunami	L	1	17
Storm Surge	M	3	15, 16, 17
Wave Action	N/A		
<b>Geologic Hazards</b>			
Earthquake	L		
<b>Other Natural Hazards</b>			
Wildfire	L	1	17

# Mitigation Strategy for Risk Reduction

Overview of Municipal Mitigation Strategy, City of Northfield				
Project Number	Project Description	Hazard(s) Addressed	Priority	Goals
1	Hire an arborist(s) to assess tree health within the community and remove those at risk of falling due to disease or other factors to prevent the loss of power due to a tree (limbs) falling on power lines and creating additional hazards	Hurricane/tropical storm, Extreme wind, Lightning, Nor'easter, winter storm	H	3
2	Evaluate, Design and Install an 50kW emergency power generator to provide 100% power generation at the Public Works facility in the event of a power failure.	Hurricane/tropical storm, Extreme wind, Lightning, Nor'easter, winter storm	H	2
4	Seek out through various means (social media, senior citizens organizations, public presentations, Register Ready, Fire Department) the at-risk population for the City of Northfield	Hurricane/tropical storm, Extreme wind, Nor'easter, winter storm, Flood	H	2
7	Purchase and installation of public warning siren/public address system.	Hurricane/tropical storm, Extreme wind, Nor'easter	L	2
9	Construct EOC to local hurricane standards and state of the art technology	Severe Weather, High Winds, Lightning/Electrical Storms, Flooding, Multi-Hazard	M	2
10	Identify and design improvements to existing storm drainage problem areas	Hurricane/tropical storm, Extreme wind, Nor'easter, winter storm, Flood	M	3
14	Identify Repetitive Loss properties and develop mitigation strategies in coordination with city engineer and property owners	Flood	H	3
15	'Equipping of a facility for emergency shelter capability	Hurricane/tropical storm, Extreme wind, Nor'easter, Lightning, winter storm, Flood	H	2
16	Purchase and installation of mapping software (ArcViewer is free) with plotter to aid in future development and planning with regards to floodplains and other emergency preparedness activities	Hurricane/tropical storm, Extreme wind, Nor'easter, Lightning, winter storm, Flood	L	2
17	Software acquisition – Reverse 911 mass notification system <b>(New)</b>	All	H	2
18	Upgrading of existing infrastructure – old sewer lines <b>(New)</b>	Flood	H	3
19	Upgrading of existing infrastructure – map storm sewer system (New)'Upgrading of existing infrastructure <b>(New)</b>	Flood	H	3
20	Installation of emergency backup generator for emergency shelter <b>(New)</b>	Hurricane/tropical storm, Nor'easter	H	2

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

## Contact Information

City of Northfield'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: Tim Joo Title: Emergency Manager Department: Address: Phone Number: 609-517-8879 E-mail Address: tjoo@cityofnorthfield.org			Name: Eric Leeds Title: Deputy Emergency Management Coordinator Department: Address: Phone Number: E-mail Address:			
Jurisdictional Assessment Team Members						
Please fill in the contact details for the person filling in this page:						
Name:	Timothy Joo					
Title:	OEM Coordinator					
Community Name:	City of Northfield					
County:	Atlantic County, NJ					
Email:	<a href="mailto:tjoo@cityofnorthfield.org">tjoo@cityofnorthfield.org</a>					
Phone:	609-517-8879					
*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	Erland Chau	<a href="mailto:echau@cityofnorthfield.org">echau@cityofnorthfield.org</a>	609-457-7478	07/25/21	Email	Yes
Administrator	Mary Canesi	<a href="mailto:mcanesi@cityofnorthfield.org">mcanesi@cityofnorthfield.org</a>	609-569-1598	07/25/21	Email	Yes
Clerk	Mary Canesi	<a href="mailto:mcanesi@cityofnorthfield.org">mcanesi@cityofnorthfield.org</a>	609-569-1598	07/25/21	Email	Yes
Engineer	Rami Mazur	<a href="mailto:rami@snsce.com">rami@snsce.com</a>	609-335-4703	07/25/21	Email	Yes
Attorney	None					
Building Code Official	Rich Stevens	<a href="mailto:rstevens@cityofnorthfield.org">rstevens@cityofnorthfield.org</a>	609-641-2832 x156	07/25/21	Email	Yes
Emergency Manager	Timothy Joo	<a href="mailto:tjoo@cityofnorthfield.org">tjoo@cityofnorthfield.org</a>	609-517-8879	07/25/21	Email	Yes
Fiscal/Budget Officer	Dawn Stollenwerk	<a href="mailto:dstollenwerk@cityofnorthfield.org">dstollenwerk@cityofnorthfield.org</a>	609-457-0352	07/25/21	Email	Yes

Floodplain Manager	Rami Mazur	<a href="mailto:rami@snsce.com">rami@snsce.com</a>	609-335-4703	07/25/21	Email	Yes
Planner	Ron Roegiers	<a href="mailto:rroegiers@cityofnorthfield.org">rroegiers@cityofnorthfield.org</a>	609-377-6372	07/25/21	Email	Yes
Public Works Director	Qwin Vitale	<a href="mailto:qvitale@cityofnorthfield.org">qvitale@cityofnorthfield.org</a>	609-377-4603	07/25/21	Email	Yes
Elected Official #1	Tom Polistina	<a href="mailto:tpolistina@cityofnorthfield.org">tpolistina@cityofnorthfield.org</a>	609-385-5966	07/25/21	Email	Yes
Elected Official #2	David Notaro	<a href="mailto:dnotaro@cityofnorthfield.org">dnotaro@cityofnorthfield.org</a>	609-839-8044	07/25/21	Email	Yes
Elected Official #3	Paul Utts	<a href="mailto:putts@cityofnorthfield.org">putts@cityofnorthfield.org</a>	609-338-3390	07/25/21	Email	Yes
Shelter Coordinator	Ken Kisby	<a href="mailto:ramowner1@comcast.net">ramowner1@comcast.net</a>	609-457-1559	07/25/21	Email	Yes
Police Chief	Paul Newman	<a href="mailto:pnewman@npdnj.org">pnewman@npdnj.org</a>	609-204-1451	07/25/21	Email	Yes
Fire Chief	Bruce Cummings	<a href="mailto:bcummings@cityofnorthfield.org">bcummings@cityofnorthfield.org</a>	609-517-4627	07/25/21	Email	Yes

City of Northfield 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
Kickoff Meeting Notice Sent July 29, 2021	07/29/21	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Kickoff Meeting Notice Reminder Sent August 5, 0800	08/05/21	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	Y
Kickoff Meeting Event	08/05/21	N	Y	Y	N	N	N	Y	Y	N	Y	Y

## Governing Body Format

The governing body is comprised of a mayor and a city council who are chosen in partisan elections held as part of the November general election. The mayor serves a four-year term of office. The mayor is responsible for administrative functions and appointment of all officials. The City Council is comprised of seven members, with one member elected at-large to a four-year term in office and six who are elected from wards to three-year terms on a staggered basis with two seats up for election each year. The council passes ordinances and approves the appointments of the mayor.

## 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, City of Northfield reviewed and updated its prior feedback to reflect current conditions as of mid-2021. The City of Northfield reported no major planned development in their jurisdiction.



### 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: Mary Canesi, Municipal Clerk

Your Name: Ron Roegiers

Title: Member – Planning/Zoning Board

Community: Northfield

Email and Phone: rroegiers@comcast.net 609-377-6372

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

Community	<p><b>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan.</b> 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><b>1a. Please update your response to reflect conditions in 2021</b></p>	<p><b>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan.</b> 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><b>2a. Please update your response to reflect conditions in 2021</b></p>
Northfield, City of	Northfield is basically fully developed. The only possible area for future development would be the Atlantic City Country Club, which is located between Shore Road and the bay. If the Country Club was to ever be redeveloped it could have flooding issues with its close proximity to the bay.	No change	CAFRA Development Regulations Flood Hazard Area Waterfront Development Tidelands Freshwater Wetlands FEMA Floodplain management ordinances	No change

## National Flood Insurance Program Summary

City of Northfield has participated in FEMA's National Flood Insurance program (NFIP) since 1979.

National Flood Insurance Program Data City of Northfield	
Total number of policies <sup>1</sup>	86
Insurance in force <sup>2</sup>	\$23,408,200
Total number of losses during NFIP participation	36
Total claims paid during NFIP participation	\$362,292
Non-Mitigated Repetitive Loss Properties	3
Non-Mitigated Severe Repetitive Loss Properties	1

Northfield does not participate in the NFIP's Community Rating System.

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

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<sup>1</sup> Policies in Force from [www.fema.gov](http://www.fema.gov) NFIP Insurance Report, data current as of 06/03/21.

<sup>2</sup> Insurance in Force from [www.fema.gov](http://www.fema.gov) NFIP Insurance Report, data current as of 06/03/21

Name: [ Rami Mazur ] Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Community: [ Northfield City ] Email and Phone: [ rami@snsce.com 609-335-4703 ]



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

*Notes: Data showing in the form at this time was provided for the 2016 plan by: Dave Scheidegg. This form should be updated by your floodplain administrator.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP <sup>1</sup>	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>[1982, amended in 1991]</u>	<u>[1979]</u>	<u>[Dave Scheidegg (c/o Rami Mazur City Engineer)]</u>		<u>[ [XX] Yes ]</u>	<u>[ [XX] Yes ]</u>	<u>[ [XX] Yes ]</u>	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
<u>[Permit review, engineering review and inspections completed on an as needed basis, with minimal need due to low number of households in flood zone &lt;1%]</u>							
Describe barriers to running an effective NFIP program in the community (if applicable):							
<u>[Less than 1% of our homes in the City are located in a flood zone, which minimizes the priority with elected officials and the community in general]</u>							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	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>[2013]</u>	<u>[ [XX] No ]</u>	<u>[ [XX] No ]</u>	<u>[ [XX] No ]</u>	<u>[ [XX] Yes ]</u>	<u>[ [XX] No ]</u>	<u>[ [ ] Yes [ ] No ]</u>	<u>[ [XX] Yes ]</u>
*Describe any outstanding compliance issues (i.e., current violations):							
<u>[n/a]</u>							

Name:           Rami Mazur           Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing:           Northfield City           Email and Phone:           rami@snsce.com 609-335-4703          



Provide an explanation of your local floodplain permitting process:

[ ]

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 type="checkbox"/> No	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
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 checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes		<input 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:

[n/a]

Provide a description of your community assistance and monitoring activities:

We look to update municipally owned infrastructure in these areas to reduce flooding

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

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 City of Northfield 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
<b>City of Northfield</b>											
Northfield Community school	2000 New Road	Emergency Shelter	0	0	1	0	0	0	0	0	0
Northfield Fire Dept. - Shore Rd.	1600 Shore Road	Fire Station	0	0	0	0	0	0	0	0	0
Northfield Fire Dept. - Burton Ave	1475 Burton Avenue	Fire Station	0	0	1	0	0	0	0	0	0
NORTHFIELD PD	1600 Shore Road	Police Station	0	0	0	0	0	0	0	0	0
Northfield Yard	Dolphin Avenue/Route 9	Public Works	0	0	0	0	0	0	0	1	0
CITY HALL	1600 Shore Road	Public Works	0	0	0	0	0	0	0	1	0
Public Works BLDG	Rt 9 & Dolphin Ave	Public Works	0	0	0	0	0	0	0	1	0
PUBLIC HEALTH	Stillwater Bldg	Public Works	0	0	0	0	0	0	0	0	0
Northfield Elementary School	400 W. Mill road	School	0	0	1	0	0	0	0	0	0
Chesterbrooke Academy	2100 Oak Ave.	School	0	0	1	0	0	0	0	0	0
Northfield Middle School	2000 New Road	School	0	0	1	0	0	0	0	0	0
Yale School	Burton Avenue	School	0	0	1	0	0	0	0	0	0
J.I.N.S.	101-201 Shore Road	School	0	0	0	0	0	0	0	0	0
Meadowview Nursing And Rehabilitation Center	235 Dolphin Ave	Senior Care Facility	0	0	0	0	0	0	0	0	0
<b>Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>

## 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		
City of Northfield		
Quantified Hazard	Annualized Loss	Annual Loss Ratio
Extreme Wind	\$208,000	0.033%
Hurricane and Tropical Storm	\$618,000	0.040%
Lightning	\$1,800	0.000%
Tornado	\$500	0.000%
Drought*	\$2,000	5.000%
Winter Storm	\$5,700	0.001%
Coastal Erosion	\$0	0.000%
Flooding (Riverine)	\$15,000	0.001%
Storm Surge (Coastal Flooding)	\$1,112,000	0.070%
Earthquake	\$13,000	0.001%

\*Derived from crop values

## Outreach to the Public and Other Stakeholders

As part of this 2022 Plan Update, City of Northfield 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 City of Northfield included those listed below. Comments arising from outreach activities are presented on the following page.

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
6-16-2021	Communications	Update (local pictures) of Fact Sheet and Disseminate to Council. Request to be put on agenda for July council meeting. Request fact sheet to be posted to webpage and link to the plan on county website.	OEM Coordinator
6/17/2021	Website/Social Media Posts	Provided information on City website and links to County Plan.	City Clerk/administrator
6/24/2021	Communications	LEPC meeting discussion of plan update	OEM Coordinator
7/1/2021	Presentation	Planning Board meeting. Spoke to Planning Board about HMGP and Mitigation activities for City. Asked for representation on local team and ideas for mitigation.	OEM coordinator
7/13/2021	Presentation	City Council Meeting. Discussed ACMJHM Plan and requested participation. Received 3 participants: G. DeWees, P Utts, D. Notaro	OEM Coordinator
7/15/21	Presentation	Family Association of Northfield (FAN) Board meeting. Discussed ACMJHM Plan and requested participation.	OEM Coordinator
8/5/2021	JAT meeting	Reviewed and discussed 2016 tasks. Updated list of tasks for 2021	Emergency Management OEM Coordinator
8/12/21	Meeting with Engineer	Review all areas requiring Engineering input	OEM Coordinator

Comments Log									
#	Comment	Comment Submitted By	Comment Submitted To	Comment Submitted on Date	How was comment submitted?	Disposition (Concur; non-concur; will evaluate)	Response / Action Proposed	Responsible Party	Action taken
1	What is the cost for a Siren/Public Address System? Is it like the ones used in Ocean City?	FAN Board Member	OEM Coordinator	07/15/21	Verbally at meeting	Will evaluate	Research what other towns offer and get cost estimates	OEM coordinator	

## Capability Assessment

This section describes the following capabilities of City of Northfield :

- 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. City of Northfield 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	N
Site Plan Review Requirements	Y
Comprehensive Plan	Y
Capital Improvements Plan	Y
Economic Development Plan	Y
Emergency Response Plan	Y
Post-Disaster Recovery Plan	N
Post-Disaster Recovery Ordinance	N
Real Estate Disclosure Ordinance	N
Evacuation Plan	Y

<b>Administrative and Technical Capability</b>	
<b>Regulatory Tools (Codes, Ordinances, Plans)</b>	<b>Do you have this?</b>
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	N
Surveyors	Y
Staff with education or expertise to assess the community's vulnerability to hazards	Y
Personnel skilled in GIS and/or HAZUS	N
Scientists familiar with the hazards of the community	N
Emergency Manager	Y
Code Enforcement Official	Y
Public Works or Highway Superintendent	N
Emergency Management Coordinator	Y

<b>Fiscal Capability</b>	
<b>Financial Resources</b>	<b>Accessible or Eligible to use</b>
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	Y
Impact Fees for Homebuyers or Developers for New Developments/Homes	N
Incur Debt through General Obligation Funds	N
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)	N

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	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 - <u>even</u> if met with opposition? (i.e., guiding development away from identified hazard areas)?
H	M	M	L	H
Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.				
None noted.				

## Plan Integration

It is the intention of City of Northfield 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 City's CPG member and shared with the consultant for incorporation here.

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

*Over the last maintenance cycle the City of Northfield continues to require the Public Works department to clean storm drains on a regular basis. In support of this a Vac Truck has been authorized for purchase and will assist in the clean outs of the storm drains.*

*The Public Works department has also taken ownership of a new bucket truck that gives them the ability to help with debris management on a more proactive basis by trimming trees without the cost of hiring a contractor for same services.*

*Additionally, Northfield has been proactively working to minimize flash flooding potentials by improving storm water runoff in poor drainage areas. We continue to strive to update our infrastructure and are making improvements to our sewer system through slip-lining to prevent damage to our terra cotta pipe during storms.*

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

*No response.*

## **Mitigation Strategy**

This subsection sets forth the mitigation strategy for City of Northfield. 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 City of Northfield 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.

City of Northfield 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	Hire an arborist(s) to assess tree health within the community and remove those at risk of falling due to disease or other factors to prevent the loss of power due to a tree (limbs) falling on power lines and creating additional hazards	High	Severe Wind, Severe Winter Weather, Lightning/Electrical Storms, Multi Hazard	OEM Coordinator			x		This project is partially an ongoing project as we trim trees and clear debris following significant storms and with the purchase of our bucket truck the PW department has better access to remove some of these identified hazards without the use of an arborist	x		The need for a specialist to identify dead/diseased trees requiring removal is still required to complete this project.
2	Evaluate, Design and Install an emergency power generator to provide 100% power generation at the Public Works facility in the event of a power failure.	High	Severe Wind, Severe Winter Weather, Lightning/Electrical Storms, Multi Hazard	Public Works Director				x	We attempted to re-locate a generator from City Hall but the machine requires protection from the elements and is not suitable for the public works facility.	x		No change, emergency backup power is still required for the public works facility. Currently they work in the dark with flashlights during power interruptions.
3	Identify a suitable location to house the vulnerable population in the event of extreme heat/cold. This includes any necessary minor equipment purchases (chairs/tables/blankets/etc.), but no major structural improvements	Medium	Extreme Temperatures (cold and Heat)	OEM Coordinator	x				The City of Northfield has entered into an MOA with two other municipalities for use of a faith based organization for purposes of sheltering. The Linwood community church has agreed to allow use of their facility for this purpose. They have approximately a 250 person capacity.		x	A facility has been acquired through agreement for use as a cooling / warming shelter. No longer necessary to keep this project open.
4	Seek out through various means (social media, senior citizens organizations, public presentations, Register Ready, Fire Department) the at-risk population for the City of Northfield	High	Severe Weather, Flooding, High Winds	OEM Coordinator			x		The City of Northfield utilizes various means to track vulnerable populations, to include but not limited to, Register Ready, Facebook, Fire Department .....	x		Always looking for ways to improve our outreach and identification of vulnerable populations
5	Purchase of a front end loader with 5 yard capacity for debris removal.	Medium	Severe Weather, High Winds, Lightning/Electrical Storms, Multi-Hazard	Public Works Director				x			x	Per the PW director we have a "claw type" vehicle that can handle debris management. No longer need a 5 yard capacity loader.
6	Purchase of a bucket truck for debris removal post storms	Medium	Severe Weather, High Winds, Lightning/Electrical Storms, Multi-Hazard	Public Works Director	x				Completed in 2020		x	Completed

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	
7	Purchase and installation of public warning siren/public address system.	Low	Severe Weather, High Winds, Lightning/Electrical Storms, Multi-Hazard	Fire Department Assistant Chief				x	Low priority, funding	x		No change
8	Purchase of a trailer with portable generator to establish a mobile charging station for the community and a mobile notification system for the public.	Medium	Severe Weather, High Winds, Lightning/Electrical Storms, Multi-Hazard	OEM Coordinator				x			x	Removed from consideration after other options are available.
9	Construct EOC to local hurricane standards and state of the art technology	Medium	Severe Weather, High Winds, Lightning/Electrical Storms, Flooding, Multi-Hazard	OEM Coordinator		x			Current EOC upgraded with new furniture and technology. But still remains below grade.	x		Current EOC has been updated, but still lies below grade. New facility would require a new facility (building).
10	Identify and design improvements to existing storm drainage problem areas	Medium	Flooding, Severe Storms, Lightning/Electrical Storms	Public Works Director			x		Completed some areas to include Ridgewood, burton/Cresson and Maple/Fairbanks.	x		This is a project that continues from year to year to improve drainage in various locations.
11	Purchase vac truck to clean catch basins and improve stormwater runoff	Medium	Flooding, Severe Storms, Lightning/Electrical Storms, Severe Winter Weather	Public Works Director		x			Budgeted, currently obtaining finance approval for \$400,000.		x	To be completed soon.
12	Purchase of portable emergency by-pass pump for sewer pump stations	Medium	Flooding, Severe Storms, Lightning/Electrical Storms, Severe Winter Weather	Public Works Director	x				Completed at a cost of \$78,000		x	Completed
13	Purchase of Brine application equipment	Medium	Severe Winter Weather	Public Works Director				x	Not prioritized.		x	Per PW director, no longer necessary as use would be minimal based on latest weather trends.
14	Acquisition funding of homes in flood prone areas. Identify Repetitive Loss properties and develop mitigation strategies in coordination with city engineer and property owners	Low	Flooding	Public Works Director				x		x		Action revised from previous version.

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	
15	Construction of a facility for emergency shelter capability	Medium	Flooding, Storm Surge, Lightning/Electrical Storms, Severe Wind, Multi Hazard	OEM Coordinator		x			Entered into agreement with faith based organization. Now supplies and long term storage for supplies required	x		Facility located and under agreement, now looking for supplies to operate facility
16	Purchase and installation of mapping software with plotter to aid in future development and planning with regards to floodplains and other emergency preparedness activities	High	Flooding, Storm Surge, Lightning/Electrical Storms, Severe Wind, Multi Hazard	OEM Coordinator				x	Cost and extent of use. Hard to justify	x		Lowered cost to \$10,000

## 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 City of Northfield 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		
Purchase of Bucket Truck	2020	2020	Municipal Budget	#6
Purchase of Vac Truck	2020/2021	2021	Municipal Budget	#11

## 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 City of Northfield 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. The

City of Northfield has proposed a range of hazard mitigation initiatives to address their highest hazards including those hazards that are exacerbated by a changing climate.

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.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Northfield</i>
<b>Community action number</b>	<i>CN#1</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Severe Wind, Severe Winter Weather, Lightning/Electrical Storms, Multi Hazard</i>
<b>Risk finding</b>	<i>The City of Northfield is a well developed community with many large trees throughout the community. These trees are aging and becoming rotten and are at risk of falling.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Protection</i>
<b>Action type</b>	<i>Removal of dead/diseased trees on public and private properties</i>
<b>Action description</b>	<i>Hire an arborist(s) to assess tree health within the community and remove those at risk of falling due to disease or other factors to prevent the lost of power due to a tree (limbs) falling on power lines and creating additional hazards</i>
<b>Existing, future &amp;/or NA</b>	<i>This project protects existing infrastructure</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The City of Northfield is prone to power outages from trees falling on power lines during major weather events. This project will minimize the power interruptions as well as the need for debris removal following major storm events</i>
<b>Cost estimate</b>	<i>5 man crew with equipment at an hourly rate of \$750 per hour. Estimated at 40 hour week = \$30000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Actual dollar amount not determined at this time but mitigates structural damage and power interruptions from falling trees.</i>
<b>Technical</b>	<i>Certified Tree Expert "Dave" at TreeWorks is certified to evaluate as well as remove trees</i>
<b>Political</b>	<i>Local politicians are in support of this idea</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>No apparent environmental issues</i>
<b>Social</b>	<i>No apparent social issues</i>
<b>Administrative capability</b>	<i>Available through OEM, OEM volunteers, and Professional Staff within City</i>
<b>Local champion</b>	<i>Office of Emergency Management</i>
<b>Other community objectives</b>	<i>Disaster Resilience</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Contracted Service and AC Multijurisdictional Hazard Mitigation Plan</i>
<b>Responsible party</b>	<i>OEM Coordinator</i>
<b>Potential funding sources</b>	<i>Community Block Grants, HMGP, 25% Match through In-Kind Donations</i>
<b>Time line</b>	<i>Ongoing</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Tree trimming/removal has been ongoing post disasters following damage.</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Northfield</i>
<b>Community action number</b>	<i>CN#2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Severe Wind, Severe Winter Weather, Lightning/Electrical Storms, Multi Hazard</i>
<b>Risk finding</b>	<i>The City of Northfield Public Works operates out of an isolated facility separate from other City facilities and resources. There is no emergency power generator at the building.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Infrastructure Protection</i>
<b>Action type</b>	<i>Provide for emergency power generation for Public Works Facility</i>
<b>Action description</b>	<i>Evaluate, Design and Install an 50kW emergency power generator to provide 100% power generation at the Public Works facility in the event of a power failure.</i>
<b>Existing, future &amp;/or NA</b>	<i>This project protects existing infrastructure</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduces/Eliminates Lost worktime for public works during power loss, improves safety.</i>
<b>Cost estimate</b>	<i>1 permanently mounted 50 kW natural gas generator at \$75,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Actual dollar amount not determined at this time but mitigates lost worktime and improves safety to the personnel</i>
<b>Technical</b>	<i>Engineering to be completed by contractor regarding size/capacity of generator</i>
<b>Political</b>	<i>Local politicians are in support of this idea</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>Only environment issue is the running of generator for non-emergency purposes and we must comply with NJ DEP and Federal EPA regulations</i>
<b>Social</b>	<i>No apparent social issues</i>
<b>Administrative capability</b>	<i>Available through Public Works, City Professional Staff</i>
<b>Local champion</b>	<i>Public Works Department</i>
<b>Other community objectives</b>	<i>Disaster Resilience, Public Works Tasks</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>N/A</i>
<b>Responsible party</b>	<i>Public Works Director</i>
<b>Potential funding sources</b>	<i>Community Block Grants, HMGP, 25% Match through In-Kind Donations</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Attempted to use the old generator from city hall but it became cost prohibitive due to the design (it cannot be exposed to the environment, must be enclosed)</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Severe Weather, Flooding, High Winds</i>
Risk finding	<i>The City of Northfield has a certain vulnerable population that is only partially identified.</i>
<b>Describing the Action</b>	
Action category	<i>Planning</i>
Action type	<i>Public Outreach to identify vulnerable population</i>
Action description	<i>Seek out through various means (social media, senior citizens organizations, public presentations, Register Ready, Fire Department) the at-risk population for the City of Northfield</i>
Existing, future &/or NA	<i>NA</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Reduces/Eliminates the burden on the emergency services during times of emergencies to answer 911 calls from the vulnerable population when an acute emergency does not exist</i>
Cost estimate	<i>\$500</i>
Cost effectiveness (i.e., benefit/cost)	<i>Minimal costs yield major benefits during emergencies. Planning and Preparedness measures can be effected prior to the emergency</i>
Technical	<i>NA</i>
Political	<i>Local politicians are in support of this idea</i>
Legal	<i>No apparent legal issues</i>
Environmental	<i>NA</i>
Social	<i>We look to include all parts of the population</i>
Administrative capability	<i>OEM, CERT, Fire Department, City Professional Staff</i>
Local champion	<i>Office of Emergency Management Coordinator</i>
Other community objectives	<i>Disaster Resilience, Senior Citizens, Adult Day Care, etc.</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>OEM, CERT, Fire Department, City Professional Staff</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>Community Block Grants, HMGP, 25% Match through In-Kind Donations, Annual Operating Budget</i>
Time line	<i>Continuing Annually</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Continuing Action. Utilize Register Ready (state program) and local fire department's Lifeline program to reach vulnerable populations</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Northfield</i>
<b>Community action number</b>	<i>CN#7</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Severe Weather, High Winds, Lightning/Electrical Storms, Multi-Hazard</i>
<b>Risk finding</b>	<i>The City of Northfield has a limited capacity to perform emergency notification and warning.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural Project</i>
<b>Action type</b>	<i>Equipment purchase and installation</i>
<b>Action description</b>	<i>Purchase and installation of public warning siren/public address system.</i>
<b>Existing, future &amp;/or NA</b>	<i>Protects existing development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Minimizes loss of life and property by early warning notification</i>
<b>Cost estimate</b>	<i>\$25,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Minimizes the requirement to go door to door to notify public. Also allows mass notification to open spaces such as Birch Grove Park where upwards of 1000 people could be located.</i>
<b>Technical</b>	<i>Design and installation by contractor</i>
<b>Political</b>	<i>Unknown</i>
<b>Legal</b>	<i>No apparent legal issues</i>
<b>Environmental</b>	<i>NA</i>
<b>Social</b>	<i>NA</i>
<b>Administrative capability</b>	<i>OEM, City Professional Staff</i>
<b>Local champion</b>	<i>OEM</i>
<b>Other community objectives</b>	<i>Disaster Resilience</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Low</i>
<b>Local planning mechanism</b>	<i>Codes and Ordinances, Emergency Operations Plan</i>
<b>Responsible party</b>	<i>Fire Department Assistant Chief</i>
<b>Potential funding sources</b>	<i>HMGP, 25% Match through In-Kind Donations</i>
<b>Time line</b>	<i>1 year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>No progress to date 2021.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#9</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Severe Weather, High Winds, Lightning/Electrical Storms, Flooding, Multi-Hazard</i>
Risk finding	<i>The City of Northfield has a limited EOC and no adequate alternate EOC.</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Retrofit Critical Facility</i>
Action description	<i>Construct EOC to local hurricane standards and state of the art technology</i>
Existing, future &/or NA	<i>Protects existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Increases the City's capability to provide emergency management activities such as public warning and notification, emergency response coordination, and communications with other government officials such as the County EOC</i>
Cost estimate	<i>\$500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Costs to replace current facility from storm damage could exceed \$300,000 to current standards. If lost, the emergency operations center has no alternate location defined that would be adequate, therefore, public warning and emergency response coordination and communications would be lost.</i>
Technical	<i>Engineering firms to design</i>
Political	<i>Current officials are in support of an improved EOC.</i>
Legal	<i>Conforms to all local building codes and ordinances</i>
Environmental	<i>NA</i>
Social	<i>All community members will benefit</i>
Administrative capability	<i>OEM Staff, City professional staff</i>
Local champion	<i>OEM Coordinator</i>
Other community objectives	<i>Disaster Resilience, Fire Department training facility, Government training and education facility</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Codes, Ordinances, EOP</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>HMGP, 25% Match through In-Kind Donations</i>
Time line	<i>2 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Renovations were completed in 2021 to the existing EOC, located in the basement of the City Hall building. New furniture and technology have been completed. City Hall sits approximately 28' above sea level and is not in a flood prone location.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#10</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Severe Storms, Lightning/Electrical Storms</i>
Risk finding	<i>The City of Northfield has limited storm drainage capacity and during heavy rains/storms the water runoff creates flooding situations for at least 1 hour causing road closures</i>
<b>Describing the Action</b>	
Action category	<i>Engineering Mechanism</i>
Action type	<i>Improve Storm Drainage</i>
Action description	<i>Identify and design improvements to existing storm drainage problem areas</i>
Existing, future &/or NA	<i>Protects existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Road closures, man hours due to blocking of roads, damage to infrastructure from water runoff, public safety</i>
Cost estimate	<i>\$250,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Failure to improve drainage systems will result in continued flooding following storms and road closures causing public safety issues</i>
Technical	<i>Engineering firms to design</i>
Political	<i>Current officials are in support of improved drainage as to satisfy the public concern.</i>
Legal	<i>NA</i>
Environmental	<i>Design will conform to environmental regulations.</i>
Social	<i>All community members will benefit</i>
Administrative capability	<i>City professional staff, Public Works Staff</i>
Local champion	<i>Public Works staff</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Codes, Ordinances, EOP</i>
Responsible party	<i>Public Works Director</i>
Potential funding sources	<i>HMGP, 25% Match through In-Kind Donations, Capital Improvements</i>
Time line	<i>unknown</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Ongoing. Areas completed include: Burton/Cresson Ave, Maple and Fairbanks Ave as well as Ridgewood Ave were completed at a cost of \$325,000. There is still considerable locations to complete, including many areas where the County drainage system is integrated with local drainage, such as Shore Road near the country club</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#14</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>There are 3 RL and 1 SRL properties in Northfield identified by the NFIP as Repetitive Loss/Severe Repetitive Loss Properties</i>
<b>Describing the Action</b>	
Action category	<i>Planning Mechanisim</i>
Action type	<i>Planning &amp; Improvement</i>
Action description	<i>Identify the location of Repetitive Loss properties, investigate mitigation options, and open communications with property owners. Priority will be with the SRL property</i>
Existing, future &/or NA	<i>Protects future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Eliminates repetitive loss potential</i>
Cost estimate	<i>3 Homes Planning Mechanism, Minimal Cost</i>
Cost effectiveness (i.e., benefit/cost)	<i>Reduces repetitive loss compensation</i>
Technical	<i>To be determined</i>
Political	<i>To be determined</i>
Legal	<i>To be determined</i>
Environmental	<i>To be determined</i>
Social	<i>To be determined</i>
Administrative capability	<i>City professional staff, Office of Emergency Management</i>
Local champion	<i>Office of Emergency Management</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Planning</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>FEMA, Blue Acres</i>
Time line	<i>Complete identification of RL properties and develop mitigation strategies in coordination with city engineer and property owners within the 5 year mitigation plan timeline</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Newly identified for 2021 update.</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#15</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Storm Surge, Lightning/Electrical Storms, Severe Wind, MultiHazard</i>
Risk finding	<i>The City of Northfield does not have shelter capability without utilizing private and/or faith based organizations</i>
<b>Describing the Action</b>	
Action category	<i>Structural Project</i>
Action type	<i>Infrastructure Improvement</i>
Action description	<i>Equipping of a facility for emergency shelter capability</i>
Existing, future &/or NA	<i>Protects existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Public Safety and health and wellness of the population</i>
Cost estimate	<i>\$50,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Protects the public safety of the community, minimizes liability issues</i>
Technical	<i>n/a</i>
Political	<i>In support of but cannot provide funding</i>
Legal	<i>tbd</i>
Environmental	<i>Will conform to any state and federal regulations</i>
Social	<i>Will support all social aspects of the population</i>
Administrative capability	<i>City professional staff, Public Works Staff</i>
Local champion	<i>OEM</i>
Other community objectives	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Codes, Ordinances</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>HMGP, 25% Match through In-Kind Donations, Capital Improvements</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>2021 Update: the City has entered into a joint agreement with two other municipalities to utilize Linwood Community Church as a shelter location. This agreement was signed by all parties in early 2021. Although a facility is no longer needed, supplies/equipment continue to be required. The cost estimate is updated to reflect the new situation. New action identified 2015</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#16</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding, Storm Surge, Lightning/Electrical Storms, Severe Wind, MultiHazard</i>
Risk finding	<i>The City of Northfield does not currently have the capability to produce maps and other related GIS products for planning and emergency response</i>
<b>Describing the Action</b>	
Action category	<i>Equipment Acquisition</i>
Action type	<i>Planning</i>
Action description	<i>Purchase and installation of mapping software (ArcViewer is free) with plotter to aid in future development and planning with regards to floodplains and other emergency preparedness activities</i>
Existing, future &/or NA	<i>Protects existing and future development</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Level of effort to plan and respond during emergencies is reduced and manpower efforts are minimized.</i>
Cost estimate	<i>\$10,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Reduces manpower level of effort when producing maps in the planning and response phases</i>
Technical	<i>n/a</i>
Political	<i>In support of but cannot provide funding</i>
Legal	<i>n/a</i>
Environmental	<i>n/a</i>
Social	<i>will support all social aspects of the population</i>
Administrative capability	<i>OEM staff, City professional staff, Public Works Staff</i>
Local champion	<i>OEM</i>
Other community objectives	<i>Construction and Code Enforcement mapping projects, Sewer and Public Works mapping</i>
<b>Implementing the Action</b>	
Priority	<i>Low</i>
Local planning mechanism	<i>Codes, Ordinances</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>HMGP, 25% Match through In-Kind Donations, Capital Improvements</i>
Time line	<i>1 year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>2021 Update: We can get ARC View software for free and only need the plotter. This is a low priority due to the low volume of maps required. New action identified 2015</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Northfield</i>
<b>Community action number</b>	<i>CN#17</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All-hazards requiring public notification and messaging</i>
<b>Risk finding</b>	<i>The City of Northfield does not currently have the ability to provide "Reverse 911" communications to the residents.</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning Mechanism</i>
<b>Action type</b>	<i>Acquisition of a mass notification software application that will allow us to notify the public of emergency situations in a timely manner.</i>
<b>Action description</b>	<i>Software acquisition</i>
<b>Existing, future &amp;/or NA</b>	<i>Action will protect existing and future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>The ability to notify the public in a timely manner will reduce loss of life and property.</i>
<b>Cost estimate</b>	<i>\$10,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>We cannot put a price on someones life. By quicker notification to the public of emergency situations, potential loss of life is avoided</i>
<b>Technical</b>	<i>Feasible, a software application with internet capability required</i>
<b>Political</b>	<i>Current administration is already searching for this capability</i>
<b>Legal</b>	<i>Yes</i>
<b>Environmental</b>	<i>n/a</i>
<b>Social</b>	<i>this will reach out to all sections of the population through phone, email, social media</i>
<b>Administrative capability</b>	<i>Between OEM, Police and Adminsitration, this capability is met</i>
<b>Local champion</b>	<i>OEM</i>
<b>Other community objectives</b>	<i>n/a</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Policy and procedures to be developed. Public notification is already identified in our EOP</i>
<b>Responsible party</b>	<i>OEM, Clerk</i>
<b>Potential funding sources</b>	<i>Block grants, community or special purpose grants, local budget</i>
<b>Time line</b>	<i>Within 5 years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>New action identified 2021</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#18</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Infrastructure improvement</i>
Risk finding	<i>The City of Northfield has old Terra-Cotta pipe throughout the city for sewer lines.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure improvement</i>
Action type	<i>Install "sliplining" of sewer pipes throughout the city.</i>
Action description	<i>Upgrading of existing infrastructure</i>
Existing, future &/or NA	<i>Action will protect existing infrastructure</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Potential environmental contamination and lawsuits if terracotta pipe breaks and waste seeps into the environment, potentially impacting marshlands</i>
Cost estimate	<i>\$250,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Sliplining is more cost effective than digging up and replacing pipe</i>
Technical	<i>Feasible, this is currently an existing project that we are looking to expand</i>
Political	<i>Already approved small projects</i>
Legal	<i>Yes</i>
Environmental	<i>n/a</i>
Social	<i>n/a</i>
Administrative capability	<i>Yes,</i>
Local champion	<i>Public works</i>
Other community objectives	<i>n/a</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Already part of the annual upgrade projects, looking to expand project</i>
Responsible party	<i>Public Works, City Engineer</i>
Potential funding sources	<i>Block grants, community or special purpose grants, local budget</i>
Time line	<i>Within 5 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action identified 2021</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#19</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Infrastructure improvement</i>
Risk finding	<i>The City of Northfield has no maps of the existing storm sewer system. We have the locations of the catch basins but not the piping.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure improvement</i>
Action type	<i>Work with engineering to map out existing piping and flow direction</i>
Action description	<i>Upgrading of existing infrastructure</i>
Existing, future &/or NA	<i>Action will protect existing infrastructure</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Potential environmental contamination and lawsuits if terracotta pipe breaks and waste seeps into the environment, potentially impacting marshlands</i>
Cost estimate	<i>\$200,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>By having maps of piping we can effectively minimize environmental contamination should a chemical be released into the storm drains.</i>
Technical	<i>Feasible, will require camera equipment to search pipe routing</i>
Political	<i>Supports</i>
Legal	<i>Yes</i>
Environmental	<i>n/a</i>
Social	<i>n/a</i>
Administrative capability	<i>Yes,</i>
Local champion	<i>Public works</i>
Other community objectives	<i>n/a</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Already part of the annual upgrade projects, looking to expand project</i>
Responsible party	<i>Public Works, City Engineer</i>
Potential funding sources	<i>Block grants, community or special purpose grants, local budget</i>
Time line	<i>Within 5 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action identified 2021</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Northfield</i>
Community action number	<i>CN#20</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Shelter Management</i>
Risk finding	<i>The location for emergency sheltering does not have back up power.</i>
<b>Describing the Action</b>	
Action category	<i>Infrastructure improvement</i>
Action type	<i>Installation of emergency back up generator and associated engineering costs</i>
Action description	<i>Upgrading of existing infrastructure</i>
Existing, future &/or NA	<i>Action will protect future operation of shelter and protect shelter occupants</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Potential lives lost due to inadequate or no housing/shelter during emergencies</i>
Cost estimate	<i>\$125,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Hard to put cost on peoples lives</i>
Technical	<i>Feasible, already had an engineering study to obtain estimates</i>
Political	<i>Supports</i>
Legal	<i>Yes</i>
Environmental	<i>n/a</i>
Social	<i>n/a</i>
Administrative capability	<i>Yes,</i>
Local champion	<i>OEM</i>
Other community objectives	<i>n/a</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Part of shelter management plan</i>
Responsible party	<i>OEM</i>
Potential funding sources	<i>Block grants, community or special purpose grants, local budget</i>
Time line	<i>Within 5 years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>New action identified 2021</i>