

# HAZARD MITIGATION PLAN

Herkimer County, New York



VOLUME II



2024 (Approved)



Prepared By:  
Tetra Tech, Inc.  
6 Century Drive, Suite 300  
Parsippany, NJ 07054



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## SECTION 8. PLANNING PARTNERSHIP

This section provides a description of the Herkimer County’s HMP update planning partnership, their responsibilities throughout the planning process, and the jurisdictional annexes developed from their plan update efforts.

### 8.1 BACKGROUND

The Federal Emergency Management Agency (FEMA) encourages multi-jurisdictional planning for hazard mitigation. All participating jurisdictions must meet the requirements of Chapter 44 of the Code of Federal Regulations (44 CFR):

*“Multi-jurisdictional plans (e.g. watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process and has officially adopted the plan” [Section 201.6a (4)].*

Herkimer County formed a Planning Partnership for the Herkimer County HMP update to leverage resources and to meet requirements for the federal Disaster Mitigation Action of 2000 (DMA) for as many eligible governments as possible. The DMA provides the following definition for a local government:

*Any county, municipality, city, town, township, public authority, school district, special district, intrastate district, council of governments (regardless of whether the council of governments is incorporated as a nonprofit corporation under state law), regional or interstate government entity, or agency or instrumentality of a local government; any Indian tribe or authorized tribal organization or Alaska Native village or organization; and any rural community, unincorporated town or village, or other public entity.*

Each participating planning partner prepared a jurisdictional annex to this plan. These annexes, as well as information on the planning process are included in this Volume 2 of this HMP.

#### 8.1.1 Initial Solicitation and Letters of Intent

Herkimer County Office of Emergency Services solicited the participation of all incorporated cities, towns, and villages within the County at the outset of this project. Jurisdictions that expressed interest signed a “Letter of Intent” and/or an authorizing resolution committing their participation and resources to the development of the Herkimer County HMP Update.

Table 8-1 lists those jurisdictions that elected to participate in the 2023 Herkimer County HMP Update process and have met the minimum requirements of participation as established by the County and Steering Committee.



**Table 8-1. Participating Jurisdictions in Herkimer County**

Jurisdictions		
Herkimer County	Village of Herkimer	Town of Ohio*
Village of Cold Brook	Village of Ilion	Village of Poland
Town of Columbia	Town of Litchfield	Town of Russia*
Town of Danube*	City of Little Falls	Town of Salisbury
Village of Dolgeville	Town of Little Falls	Town of Schuyler
Town of Fairfield*	Town of Manheim	Town of Stark
Town of Frankfort	Village of Middleville*	Town of Warren*
Village of Frankfort*	Village of Mohawk*	Town of Webb*
Town of German Flatts	Town of Newport*	Village of West Winfield**
Town of Herkimer	Village of Newport	Town of Winfield*
	Town of Norway	

\*Did not fully participate in planning process

\*\*Participated in the planning process but anticipates submittal for approval at a later date.

## 8.2 PLANNING PARTNER RESPONSIBILITIES

As part of the Planning Partnership, the Planning Partners agreed to the following expectations:

- Review 2017 HMP goals and re-establish HMP update goals and objectives.
- Establish a timeline for completion of the HMP update.
- Ensure the HMP update meets the requirements of the DMA 2000 and FEMA and NYS DHSES guidance.
- Solicit and encourage the participation of regional agencies, a range of stakeholders, and citizens in the HMP development process.
- Assist in gathering information for inclusion in the HMP, including the use of previously developed reports and data.
- Organize and oversee the public involvement process and support outreach efforts in the community.
- Develop, revise, adopt, and maintain Volume I of the HMP update in its entirety and the local jurisdictional annex in Volume II.

As described in Section 7 (Plan Maintenance), the planning partnership is intended to remain active beyond the regulatory update to support plan maintenance. Herkimer County recognizes that going forward, individual commitments change over time, and to ensure continuity and maintenance of the plan, it will be the responsibility of each jurisdiction and its representatives to inform the HMP Coordinator of any changes in representation.

### 8.2.1 Jurisdictional Annex Preparation Process

As stated in the 2022 New York State Hazard Mitigation Planning Standards, jurisdictional annexes provide a unique, stand-alone guide to mitigation planning for each jurisdiction. The Herkimer



County HMP Update is organized so that there is an annex for Herkimer County and for every jurisdiction within the County's borders. Section 9 (Jurisdictional Annexes) includes an annex for every jurisdiction in Herkimer County, including those that did not fully participate.

## Annex Development

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In order to facilitate update of the County and Jurisdictional Annexes, data from the 2017 Herkimer County HMP annexes was transferred to a new, updated new annex format, developed to meet federal and state criteria. Clear instructions provided to the County and municipality. These instructions provided a basis to address the following:

- Document changes in capabilities and vulnerabilities
- Provide a current status of the 2017 HMP mitigation strategy
- Develop a new mitigation strategy to address identified issues and to increase community resiliency

The County invited all municipalities to participate in a municipal kick-off meeting held on September 9, 2022, to provide an overview of the planning process. Subsequently, the contract consultant distributed a suite of municipal-specific worksheets to each planning partner populated with carryover information from the 2015 plan and designed to provide intuitive guidance to updating key information required to develop the 2023 plan update. This was intended to assist each municipality in updating, integrating, and completing annex input. During this first round of data gathering, the consultant provided guidance upon request to municipal representatives regarding input of growth and development trends; planning, legal, fiscal, and regulatory capabilities; education and outreach capabilities; NFIP information and capabilities; areas of integration; and updating the 2015 mitigation strategy.

On February 27, 2023, the County convened a planning partnership meeting to review the relative risk assessment methodology and County-wide results to inform the municipal points of contact of the information to be reviewed, updated, or confirmed by each planning partner. The consultant distributed individualized risk ranking worksheets to facilitate the municipal review and adjusting of the initial results as needed. The consultant supported municipalities by interpreting results if needed and to provide context of how this supports the development of strong mitigation actions to reduce the impacts of the hazards of concern.

A mitigation workshop was held on April 24, 2023 to provide an overview of developing a strong mitigation strategy. Finally, the last round of support meetings held from May through July 2023 addressed the development of the updated mitigation strategy and confirmation of the risk ranking and other gaps in information in the draft municipal annexes.



### Hazard Ranking Exercise

As noted above, the risk assessment and risk ranking for each jurisdiction was presented February 27, 2023 in a meeting including discussion of the overall risk assessment for the hazards of concern. At this meeting, each planning partner was asked to review the ranked risk specific for its jurisdiction. Refer to Section 5.3 (Hazard Ranking) for the methodology of the hazard ranking process. The calculated ranking was presented to each jurisdiction, and they were asked to review the ranking and revised based on history of events, probability of occurrence, and the potential impact on people, property, and the economy. The objectives of this exercise were to familiarize the partnership with how to use the risk assessment as a tool to support other planning and hazard mitigation processes and to help prioritize types of mitigation actions that should be considered. Hazards that were ranked as *high* for each jurisdiction as a result of this exercise were considered to be priorities for identifying appropriate mitigation actions, although jurisdictions also identified actions to mitigate *medium* or *low* ranked hazards, as appropriate.

### Mitigation Strategy Workshop

NYS DHSES attended and presented at a mitigation strategy workshop to Herkimer County and its jurisdictions on the April 24, 2023. At this meeting, the consultant as well as FEMA and NYS DHSES discussed the importance of developing strong mitigation actions as well as state requirements for the plan. The purpose of this workshop was to guide the planning partnership in completing this portion of the planning process and how projects that are well developed and documented are more quickly identifiable for selection when grants become available. Information regarding consultant support prior to and subsequent to the meeting is provided in the Annex Development section, above.

### Municipal Support Meetings

In addition to the municipal kick-off meeting, municipal support meetings were held throughout September and October 2022. For municipalities that scheduled individual meetings, the consultant worked one-on-one with the planning partners to complete their jurisdictional annex. Each section of the annex was discussed to ensure accuracy and completeness. This included, but not limited to, the following:

- Reviewing the calculated hazard ranking for the jurisdiction and provide input to adjust the ranking as necessary.
- Inspecting the list of critical facilities located in the jurisdiction and its exposure to the 1 percent and 0.2 percent flood hazard area. As required in the 2022 New York State Hazard Mitigation Planning Standards, critical facilities located in the Special Flood Hazard Area must document that critical facilities are protected to the 500-year flood event, or worst damage scenario. For those that do not meet this level of protection, the plan must include an action to meet this criterion or explain why it is not feasible to do so. By reviewing the list, the



jurisdictions could identify additional mitigation actions related to the critical facilities found in the municipality.

- Identifying mitigation initiatives that have reasonable potential to be accomplished within the lifespan of the County HMP (five years), including both FEMA-eligible projects and those projects using funds from non-FEMA sources.

## Jurisdictional Annexes

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While the jurisdictional annex format is designed to document and assure local compliance with the DMA 2000 regulations, its greater purpose and function includes:

- Providing a locally-relevant synthesis of the overall mitigation plan that can be readily presented, distributed, and maintained.
- Facilitating local understanding of the community's risk to natural hazards.
- Facilitating local understanding of the community's capabilities to manage natural hazard risk, including opportunities to improve those capabilities.
- Facilitating local understanding of the efforts the community has taken, and plans to take, to reduce their natural hazard risk.
- Facilitating the implementation of mitigation strategies, including the development of grant applications.
- Providing a framework by which the community can continue to capture relevant data and information for future HMP updates.

Each jurisdiction's annex is intended to be a *living document* and will continue to be improved as resources permit. As such, its design is intended to promote and accommodate continued efforts to maintain the annex to be current and to improve the effectiveness of the annex as the key tool, reference, and guiding document by which the jurisdiction will implement hazard mitigation locally.

The following provides a description of the various elements of the jurisdictional annex.

**Section 9.X.1: Hazard Mitigation Plan Planning Team:** Identifies the hazard mitigation planning primary and alternate(s) contacts, the floodplain administrator, and additional contributors identified by the jurisdiction or who participated in the plan update. Further detail is provided in Section 3 (Planning Process) and Appendix B (Participation Matrix).

**Section 9.X.2: Municipal Profile:** Provides an overview and profile of the jurisdiction, including an identification of areas of known and anticipated future development and the vulnerability of those areas to the hazards of concern.

**Section 9.X.3: Capability Assessment and Integration:** Provides an inventory and evaluation of the jurisdiction's tools, mechanisms, and resources available to support hazard mitigation and natural hazard risk reduction. Within the municipal annexes, tables provide an inventory of the municipality's planning, regulatory, administrative, technical, and fiscal capabilities. Further, another table identifies the municipality's level of participation in state and federal programs designed to promote and



incentivize local risk reduction efforts. *Integration of Hazard Mitigation into Existing and Future Planning Mechanisms* is provided within the capability assessment table to indicate how each planning mechanism can reduce risk. This annotated table indicates how the jurisdiction integrated hazard risk management into their existing planning, regulatory, and administrative framework (*integration capabilities*) and how they intend to promote this integration (*integration actions*). Further information regarding federal, state, and local capabilities can be found in the Capability Assessment portion of Section 6 (Mitigation Strategy).

**Section 9.X.4: National Flood Insurance Program (NFIP) Compliance:** This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

- **National Flood Insurance Program (NFIP):** Documents the NFIP as implemented within the jurisdiction. This summary was based on surveys prepared by or interviews conducted with the NFIP Floodplain Administrators for each NFIP-participating community in the county. This subsection identifies actions to enhance implementation and enforcement of the NFIP within the community.
- **National Flood Insurance Program (NFIP) Summary:** Provides NFIP summary statistics for the jurisdiction.

**Section 9.X.5: Growth and Development Trends:** A breakdown of building permits given, within or outside of the regulatory floodplain and an identification of areas of known and anticipated future development and infrastructure and the vulnerability of those areas to the hazards of concern.

**Section 9.X.6: Jurisdictional Risk Assessment:** Provides information regarding each plan participant's vulnerability to the identified hazards. Full data and information on the hazards of concern, the methodology used to develop the vulnerability assessments, and the results of those assessments that serve as the basis of these local risk rankings may be found in Volume 1, Section 5 (Risk Assessment).

- **Hazard Area Extent and Location Map:** Includes a series of maps illustrating identified hazard zones, and critical facilities.
- **Natural Hazard Event History Specific to the Municipality:** Identifies hazard events that caused significant impacts within the jurisdiction, including a summary characterization of those impacts as identified by the jurisdiction. The documentation of events and losses is critical to supporting the identification and justification of appropriate mitigation actions, including providing critical data for benefit-cost analysis. This inventory of events and losses is a work-in-progress and will continue to be improved as resources permit. As such, the lack of data or information for a specific event does not necessarily mean that the jurisdiction did not suffer significant losses during that event.



- **Hazard Risk Ranking:** Identifies and characterizes the broad range of hazards that pose risk to the entire planning area; however, each jurisdiction has differing degrees of risk exposure and vulnerability aside from the whole. The local risk ranking serves to identify each jurisdiction's degree of risk to each hazard as it pertains locally, supporting the appropriate selection and prioritization of initiatives that will reduce the highest levels of risk for each community.
- **Critical Facilities Flood Risk:** Identifies potential flood losses to critical facilities in the jurisdiction based on the flood vulnerability assessment process presented in Section 5 (Risk Assessment).
- **Identified Issues:** Presents other specific hazard vulnerabilities as identified by the jurisdiction.

**Section 9.X.7: Mitigation Strategy and Prioritization:** Discusses and provides the status of past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

- **Past Mitigation Initiative Status:** Where applicable, reviews progress of the jurisdiction's prior mitigation strategy, identifying the disposition of each prior action, project, or initiative in the jurisdiction's updated mitigation strategy. Other completed or on-going mitigation activities that were not specifically part of a prior local mitigation strategy would be included in this sub-section.
- **Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy:** Other completed or ongoing mitigation activities that were not specifically part of a prior local mitigation strategy may be included in this subsection as well.
- **Proposed Hazard Mitigation Initiatives for the Plan Update:** Table 9.X-11 presents the jurisdiction's updated mitigation strategy. As indicated, applicable mitigation actions, projects, and initiatives are further documented on an Action Worksheet, which provides details on the project identification, evaluation, prioritization, and implementation process. Table 9.X-12 provides a summary of the local mitigation strategy prioritization process discussed in Section 6 (Mitigation Strategy).
- **Proposed Mitigation Action Types:** A matrix of the proposed mitigation actions by hazard and FEMA and CRS Category.
- **Prioritization of Actions:** A matrix identifying 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives prioritize actions as 'High', 'Medium', or 'Low.'

## 8.2.2 Coverage Under the Plan

Of the planning partners identified during the planning process, the County and 19 local jurisdictions fully met the participation requirements specified by the Steering Committee. Planning partners not having met principal requirements including completion of the jurisdictional data collection



worksheets, completion of the jurisdictional annex, or participation in workshops or individual support meetings. Those that did not meet the requirements will not be able to seek FEMA or NYS DHSES approval at the time of plan submittal nor will they be eligible to obtain FEMA mitigation grant funding. Those jurisdictions can choose to complete their annex and adopt later, working with Herkimer County and NYS DHSES to ensure completeness. Any non-participating local government within the Herkimer County planning area can “dock” to this plan in the future following the linkage procedures defined in Appendix I (Linkage Procedures).

Table 8-2 lists the status of each jurisdiction, whether they submitted letters of intent to participate, and their ultimate status in this plan update. Appendix B (Participation Matrix) and Appendix C (Meeting Documentation) provide details on participation and meeting attendance.

**Table 8-2. Jurisdictional Status**

Municipality	Letter of Intent to Participate	Attended Workshops and/or Meetings?	Provided Update on Past Projects	Submitted Mitigation Actions for Current Plan	Seeking Approval for Adoption (meets requirements)
Herkimer County	N/A	X	X	X	X
Village of Cold Brook	X	X	X**	X	X
Town of Columbia	X	X	X**	X	X
Town of Danube*	-	-	**	-	-
Village of Dolgeville	X	X	X	X	X
Town of Fairfield*	-	-	-	-	-
Town of Frankfort	X	X	X	X	X
Village of Frankfort*	X	X	-	-	-
Town of German Flatts	X	X	X	X	X
Town of Herkimer	X	X	X	X	X
Village of Herkimer	X	X	X	X	X
Village of Ilion	X	X	X	X	X
Town of Litchfield	X	X	X**	X	X
City of Little Falls	X	X	X	X	X
Town of Little Falls	X	X	X		X
Town of Manheim	X	X	X	X	X
Village of Middleville*	X	-	**	-	-
Village of Mohawk*	X	-	**	-	-
Town of Newport	X	X	**	-	-
Village of Newport	X	X	X	X	X
Town of Norway	X	X	X	X	X
Town of Ohio*	X	-	**	-	-
Village of Poland	X	-	**	X	X
Town of Russia*	X	-	**	-	-



Municipality	Letter of Intent to Participate	Attended Workshops and/or Meetings?	Provided Update on Past Projects	Submitted Mitigation Actions for Current Plan	Seeking Approval for Adoption (meets requirements)
Town of Salisbury	X	X	X**	X	X
Town of Schuyler	X	X	X**	X	X
Town of Stark	X	X	X**	X	X
Town of Warren*	X	-	**	-	-
Town of Webb*	-	-	**	-	-
Village of West Winfield	X	X	X**	X	TBD
Town of Winfield	X	-	**	-	-

\*Did not participate in planning process

\*\* Did not participate in the 2017 planning process



## 9.1 HERKIMER COUNTY

This section presents the jurisdictional annex for Herkimer County that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the County participated in the planning process, an assessment of Herkimer County’s risk and vulnerability, the different capabilities used in the County, and an action plan that will be implemented to achieve a more resilient community.

### 9.1.1 Hazard Mitigation Planning Team

Herkimer County followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update and developed the annex over the course of several months with input from many Herkimer County departments as summarized in the table below. The primary and alternate points of contact represented the community on the Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.1-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: John Raymond, Director Herkimer County Emergency Services Address: 71 Reservoir Road, Herkimer NY 13350 Phone Number: (315) 867-1212 Email: <a href="mailto:jraymond@herkimercounty.org">jraymond@herkimercounty.org</a>	Name/Title: Robert (Bob) Vandawalker, Herkimer County Emergency Management Coordinator Address: 71 Reservoir Road, Herkimer NY 13350 Phone Number: (315) 867-1212 Email: <a href="mailto:rvandawalker@herkimercounty.org">rvandawalker@herkimercounty.org</a>
<b>Additional Contributors</b>	
Name/Title: Stephanie Tyoe, Herkimer County Highway Department Deputy County Highway Superintendent Method of Participation: Provided input and feedback regarding vulnerabilities and mitigation actions	
Name/Title: Richard (Rick) Reichert, Herkimer Oneida GIS Analyst Method of Participation: Provided input and feedback regarding vulnerabilities and mitigation actions	
Name/Title: James (Jim) Wallace, Herkimer County Administrator Method of Participation: Provided input and feedback regarding vulnerabilities and mitigation actions	
Name/Title: Theodore (Ted) Fisch, New York Power Authority– Director of Crisis Management Method of Participation: Provided input regarding dam vulnerability and mitigation actions	



### 9.1.2 County Profile

Refer to Section 4 (County Profile) for details.

### 9.1.3 County Capability Assessment and Integration

Herkimer County performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for Herkimer County to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

Section 6 (Capability Assessment) provides an overview of the planning, legal, and regulatory capabilities. The table below summarizes the regulatory tools that are available to Herkimer County, what is present in the jurisdiction, and code citation and date.

**Table 9.1-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>Codes, Ordinances, &amp; Regulations</i>				
Building Code	No	-	-	-
Zoning/Land Use Code	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Subdivision Ordinance	No	-	-	-
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	No	-	-	-
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<i>Planning Documents</i>				
Comprehensive Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Herkimer County has a mutual Comprehensive Planning program with Oneida County. The Herkimer Oneida Planning Agency supports county planning activities.				
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	Yes	Strongwater Management Plan	County	Highway Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The County Stormwater Management Plan provides project specific guidance but does not address hazard mitigation.				
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	Yes	Herkimer–Oneida Counties Long–Range Transportation Plan	County, Local	Highway Department, Herkimer–Oneida Counties Governmental Policy and Liaison (GP&L)
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The multi-jurisdictional plan was established to integrate intermodal transportation systems that efficiently, conveniently, and reliably provide mobility networks that are responsive to the community’s needs for safe and secure travel and movement of goods and people. The Plans goals and objectives were examined to determine the relevance				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
to the current needs and issues of the community. The Plan is reflective of the planning factors defined in federal transportation legislation and address the needs of Herkimer and Oneida County residents.				
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Canal Plan	Yes	Canal Plan for Mohawk Valley Region	Local, County	-

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Herkimer County Comprehensive Emergency Management Plan (CEMP)	County	County Emergency Services
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Plan is the County’s designated for all hazards preparedness, response, recovery, and mitigation efforts in the event of a hazard. The CEMP also designates the County Director of Emergency Services as the County Mitigation Coordinator and defines roles and responsibilities for monitoring, evaluating, and updating the county’s hazard mitigation plan.

Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	Yes	Emergency Plan of Action for Highway Related Incidents	County	Highway Department



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of Herkimer County to oversee and track development.

**Table 9.1-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits?	No	All building permits are issued on the local level (Town, City, Village)
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>		
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	No	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to Herkimer County and their current responsibilities that contribute to hazard mitigation.

**Table 9.1-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	This is all done at the local level (town, city, village)



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Zoning Board of Adjustment	No	-
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	Herkimer County Industrial Development Agency provides economic incentives to business and industries to diversify and strengthen Herkimer County's tax base and enhance community vitality.
Public Works/Highway Department	Yes	<p>The Herkimer County Highway Department is responsible for the operation and maintenance of 574 miles of roads, 66 bridges (5 co-owned with adjoining Fulton &amp; Oneida counties), 128 large culverts (5' to 20'), approximately 2,000 roadway culverts. The department has 44 full-time employees and 53 seasonal (including temporary) employees.</p> <p>Maintenance operations and programs performed by the department include:</p> <ul style="list-style-type: none"> <li>• Road rehabilitation</li> <li>• Pavement striping</li> <li>• Slurry seal</li> <li>• Guide rail replacement/repair</li> <li>• Chip seal (oil &amp; stone)</li> <li>• Roadside mowing</li> <li>• Sodding</li> <li>• Road sweeping</li> <li>• Cleaning ditches</li> <li>• Roadside garbage/trash pick up</li> <li>• Culvert replacement/repair</li> <li>• Sign installation, inspection, replacement &amp; repair</li> <li>• Paving/patching/pothole repair</li> <li>• Hauling gravel/stone</li> <li>• Shoulder repair/installation</li> <li>• Highway equipment maintenance &amp; repair</li> <li>• Bridge maintenance/repair</li> <li>• Facility snow &amp; ice control</li> <li>• Catch basin clean-out/repair</li> <li>• Guide rail spraying</li> <li>• Tree &amp; brush removal</li> <li>• Misc. work for other departments &amp; municipalities</li> </ul>



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		Capital projects and maintenance programs are supported by the highway department's engineering staff that provides a variety of engineering services including, but not limited to pavement & roadway asset inventory, maintenance program management, surveying, highway design, construction inspection, management of files and records, etc. The department is equipped with equipment, computers and software for design/drafting, survey data collection/processing, geographic information systems (GIS) data collection & processing and sign retro-reflectivity testing
Construction/Building/Code Enforcement Department	No	-
Emergency Management/Public Safety Department	Yes	<p>Herkimer County Office of Emergency Services is composed of three separate offices: The Office of Emergency Management, The Office of Emergency Communications E911, and The Office of the County Fire Coordinator. The Office of Emergency Services is led by the Director of Emergency Services, Deputy Director, and Communications Supervisor.</p> <p>The Fire Coordinators Office is assisted by several Volunteer Deputy Fire Coordinators who represent the Fire Coordinator at multiple incidents throughout the County.</p>
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	Warning through NY Alerts and IPAWS
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Herkimer County Highway has a maintenance program. Herkimer County Emergency Services has a maintenance program related to the communications system.
Mutual aid agreements	Yes	Herkimer-Oneida Counties Comprehensive Planning Program (HOCCPP)
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	See Highway Department
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	See Emergency Management
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-
<b>Administrative/technical capability self-assessment</b>		
<i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i>		

### Fiscal Capability

The table below summarizes financial resources available to Herkimer County.



**Table 9.1-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to Herkimer County.

**Table 9.1-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment
Public information officer or communications office	Yes	Chairman of the Legislature is considered the PIO
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	Emergency Services
Social media for hazard mitigation education and outreach	Yes	Facebook
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	NY Alerts / IPAWS
Natural disaster/safety programs in place for schools	Yes	Oneida-Herkimer Solid Waste Authority, Fire Districts / Sheriff's Office, Herkimer County Emergency Management (Emergency Services), American Red Cross
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? If yes, please describe.	No	-

### Community Classifications

The table below summarizes classifications for community programs available to Herkimer County.



**Table 9.1-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	Yes	Unknown	Unknown
Firewise Communities classification	No	-	-
Climate Smart	No	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.1-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.1.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.



## National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for Herkimer County.

**Table 9.1-9. NFIP Summary**

Jurisdiction	# Policies	# Claims (Losses)*	Total Loss Payments*	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Herkimer County	406	414	\$5,999,692	51	3	2	Unavailable

Source: FEMA, 2023

Notes: \*Claims data extracted from HUDEX on 1/26/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

## Flood Vulnerability Summary

NFIP administration and floodplain management is performed on the local community level as the NFIP Floodplain Administrator is identified in the flood damage prevention ordinance for each participating community.

The table below provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

**Table 9.1-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation? How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	No
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	No
How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction?	No
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	No



NFIP Topic	Comments
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	No
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	No
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	No
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	No
What are the barriers to running an effective NFIP program in the community, if any?	No
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	No
What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended?	No
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	No
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

Source:

Notes:

RL—Repetitive Loss; SRL—Severe Repetitive Loss; NA—Not applicable



### 9.1.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern.

The Herkimer County Community Development Strategic Plan has identified revitalization and redevelopment of key areas in the county as a priority to attract and grow business (Fairweather Consulting 2022). Details regarding development specific to each participating municipality are provided in Section 9 (Jurisdictional Annexes).

**Table 9.1-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA										
Single Family	*	*	*	*	*	*	*	*	*	*	*	*
Multi-Family	*	*	*	*	*	*	*	*	*	*	*	*
Other (commercial, mixed-use, etc.)	*	*	*	*	*	*	*	*	*	*	*	*
<b>Total New Construction Permits Issued</b>	*	*	*	*	*	*	*	*	*	*	*	*
Property or Development Name												
Recent Major Development and Infrastructure from 2017 to Present												
*	*											
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
*	*											

SFHA Special Flood Hazard Area (1% flood event)

\* Details regarding development specific to each participating municipality is provided in Section 9 (Jurisdictional Annexes).

### 9.1.6 County Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for Herkimer County’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

#### Hazard Event History

Herkimer County has a history of natural and non-natural hazard events as detailed in Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities.



The table below provides details regarding municipal-specific loss and damages the County experienced during hazard events since the last hazard mitigation plan update. Information is based on reference material or local sources.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Town of Frankfort and Frankfort Center including damages to the Frankfort Center Firehouse Damage to several town & County highways in both Town of Frankfort and Town of Schuyler
October 31- November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over 12-million in property damage.	A total of 7 bridges needed to be replaced. 3 county bridges and 4 owned by local towns and villages.  Herkimer County Highway Damages totaled 5.5-million. This does not include damages to State, and other local infrastructure.  A large levee had to be replaced in Dolgeville. Nearly all major State Roads in the county were damaged and closed.
January 2020 - ongoing	Covid-19 Pandemic (DR-4480)	Yes		Pandemic caused work force shortages in critical government operations on all levels of local government
May 15, 2020	Severe Thunderstorm – Straight-line wind damage	No	Severe Thunderstorms with straight-line winds and torrential rains	Loss of power in the Town of Russia, Ohio, Norway, and Newport. Also, trees down closed many town and county roadways.
February 21 to 25	Ice Jam Flooding	No	Ice Jam Flooding on the East Canada Creek causing damage to homes in the village of Dolgeville NY	Dolgeville, NY. Ice Jam flooding on the East Canada Creek caused damage to multiple homes on Van Buren St and Dolge Ave. NYS DOT and DEC involved. NYS



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
				DOT brought in a long reach excavator
April 19 to 21, 2022	Late Season Winter storm	N/A	A late season winter storm brought heavy, wet snow along with high winds. Around 71,000 customers were without power at the height of the storm.	Some areas were without power for 4 days. Some small municipalities in the county have no backup power and loss productivity and services during this period.

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding the county’s vulnerability to the identified hazards. The following summarizes Herkimer County’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction can have differing degrees of risk exposure and vulnerability compared with Herkimer County as a whole. Refer to Section 5.3 (Hazard Ranking) for the countywide hazard ranking.

**Table 9.1-12. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Medium
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the County



## Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.1-13. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Potential Loss from 1% Flood Event		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage		
<i>No County-owned facilities are identified as located the floodplain.</i>	-	-	-	-	-	-	-

Source: Herkimer County, 2023

## Identified Issues

After review of Herkimer County’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, Herkimer County identified the following vulnerabilities within their community. While many individual issues are addressed in relevant community annexes, county-wide strategies are included in Table 9.1.7-16 in this County annex.

- Herkimer County has a mutual Comprehensive Planning program with Oneida County. The Herkimer Oneida Planning Agency supports county planning activities however, integration of hazard mitigation in County plans is limited. The County does not have a comprehensive plan and the County Comprehensive Emergency Management Plan is due for an update.
- High hazard dams cause potential risk and coordination with the dam owners including NYPA is a priority.
- The County lacks disaster debris management planning to provide adequate procedures to address post-disaster cleanup.



- While major events that result in substantial damage of structures are rare, official procedures need to be in place to inspect structures, make determinations, and provide for appeals.
- NFIP floodplain administration in the County’s municipalities is often limited.
- Currently, only two communities in Herkimer County (Town of Webb and Village of West Winfield) participate in the Climate Smart Communities program with both communities having taken the climate pledge but not certified further within the program. Additional participation in the program would allow for greater climate change preparation and county sustainability as well as access to additional project funding.
- There are many areas affected by localized stormwater flooding that are not identified on FEMA FIRMs. FIRMs have been noted as being outdated or inaccurate in many municipalities.
- There are a number of undersized culverts in the County which contribute to localized flooding.
- Vulnerable populations may need immediate access to heating or cooling centers during periods of extreme temperatures and need current information regarding location of heating and cooling centers.
- Identified flood impacts in the County include East and West Canada Creeks; Flood impacts in the Villages of Mohawk, Frankfort (Mower Creek), Herkimer, Van Buren Street, Dolge Avenue, and North Main Street in Dolgeville, and the City of Little Falls; Flooding along German Street, poor Stormwater drainage throughout Village of Herkimer; Streets along Steele Creek and vicinity of Mohawk River and Erie Canal.\*
- Road are impacted by flooding and snow.\*
- There is a loss of power during storm events.\*
- Certain culverts have insufficient capacity and cause localized flooding\*
- Poland school does not have a back-up power generator.\*
- Water and electrical utility plants are vulnerable to flood impacts.\*
- The State Canal and Water Impounding Structures are related to flood impacts.\*

*\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Public Survey.*

### 9.1.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going



programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex.



**Table 9.1-14. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection Damages Avoided; Evidence of Success	
HC-001 HW	County-wide culvert replacement and Ditch Bank Stabilization	Flood	Herkimer County Highway Dept	FEMA DR4472 storm repairs/replacements along with regular maintenance/replacement	FEMA DR4472 damages complete. Routine maintenance & replacement ONGOING	Cost		Discontinue. FEMA 4472 repairs & replacements. Continue regular scheduled replacements & repairs
						Level of Protection		
						Damages Avoided; Evidence of Success		
HC-002 HW	County-wide Bridge (non-structural) Maintenance Plan	Flood	Herkimer County Highway Dept	Bi Annual bridge maintenance plan includes washing, cleaning, debris removal, minor superficial repairs, etc.	ONGOING	Cost		To be included in 2023 HMP
						Level of Protection		
						Damages Avoided; Evidence of Success		
HC-003 HW	County-wide Large Culvert ('6 to 20') Replacement/Repair	Flood	Herkimer County Highway Dept	FEMA DR4472 storm replacements/repairs along with regular biannual inspection and maintenance. Replacements as needed	FEMA DR4472 damages complete. Routine inspection, maintenance ONGOING	Cost		Discontinue. FEMA 4472 repairs & replacements. Continue regular scheduled replacements & repairs
						Level of Protection		
						Damages Avoided; Evidence of Success		
HC-004 HW	Countywide Asset Management Plan	Flood	Herkimer County Highway Department		NO PROGRESS	Cost		To be included in 2023 HMP
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.			
HC-005	Development of Climate Change Coalition	All Hazards	Herkimer County Emergency Services		NO PROGRESS	<table border="1"> <tr><td>Cost</td></tr> <tr><td>Level of Protection</td></tr> <tr><td>Damages Avoided; Evidence of Success</td></tr> </table>	Cost	Level of Protection	Damages Avoided; Evidence of Success	Discontinue as this is not a priority action.
Cost										
Level of Protection										
Damages Avoided; Evidence of Success										
HC-006	Climate Change Baseline Assessment	All Hazards	Herkimer County Emergency Services		NO PROGRESS	<table border="1"> <tr><td>Cost</td></tr> <tr><td>Level of Protection</td></tr> <tr><td>Damages Avoided; Evidence of Success</td></tr> </table>	Cost	Level of Protection	Damages Avoided; Evidence of Success	Keep as part of a Climate Change Baseline Vulnerability Assessment
Cost										
Level of Protection										
Damages Avoided; Evidence of Success										



## Additional Mitigation Efforts

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In addition to the mitigation initiatives completed in Table 9.1-14, Herkimer County identified the following mitigation efforts completed since the last HMP:

Herkimer County has implemented numerous stormwater system improvements as part of the performance of scheduled maintenance programs. The programs consist of ditching, sodding road edges & catch basin clean outs on a 4 or 5 year rotation around the entire county in quadrants/areas based upon the surface type of highway and include increased capacity as needed and repairs from storm/flooding events damages as necessary. Both types of work may involve small culvert (less than 5' diameter) replacement due to deterioration, damage, or site need for upsize infrastructure. Upgraded or repaired locations include:

- Large Culvert (5' to 20' diameter pipes/structures) replacement (including upsizing) projects performed within last 5 years:
- Spinnerville Gulf Rd CR 15, Town of German Flatts (LC015-10)
- (2) Old State Road CR 200, Town of Newport (LC200-10 & LC200-20)
- Military Road CR 113, Town of Russia (LC113-10)
- Newport Road CR 154, Town of Schuyler (LC154-20)
- Summit Road CR 58, Town of Newport (LC058-20)
- South Shore Road CR 118, Town of Webb (LC118-10)
- Welshbush Road CR 37, Town of Frankfort (LC013-10)
- Newport Road CR 154, Town of Schuyler (LC154-10)
- Wiltse Hill Road CR 95, Town of Stark (LC095-10)

## Proposed Hazard Mitigation Initiatives for the HMP Update

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Herkimer County participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.



**Table 9.1-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	x	x		x	x		x			x
Drought	x				x					x
Flood	x	x			x	x			x	x
Severe Storm	x	x			x	x			x	x
Severe Winter Storm	x	x			x				x	x
Wildfire	x				x	x				x
Infestation	x			x	x		x			x
Dam Failure	x				x					x
Disease Outbreak	x				x					x

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.1-16).

The table below summarizes the specific mitigation initiatives Herkimer County would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.1-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Herkimer County-001	County-wide Bridge (non-structural) Maintenance Plan	1, 3	Flood	<p><b>Problem:</b> The County needs to develop a county-wide bridge (non-structural) maintenance plan.</p> <p><b>Solution:</b> Bi Annual bridge maintenance plan includes washing, cleaning, debris removal, minor superficial repairs, etc.</p>	Yes	No	1 year, Ongoing	Herkimer County Highway Dept	Staff time	Reduction of flood risk due to debris	Annual Operating Budget	Medium	SIP	PP, SP
2023-Herkimer County-002	Countywide Asset Management Plan	1, 3	Flood	<p><b>Problem:</b> Mitigation may not be integrated in the management of County assets.</p> <p><b>Solution:</b> Develop a County-wide asset management</p>	No	No	2 years	Herkimer County Highway Department	Low (<\$100,000)	Implementation of mitigation projects	Annual Operating Budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				plan and system to track road issues including flooded areas and washouts. Include culvert inventory which is managed by GIS.										
2023-Herkimer County-003	Climate Change Baseline Vulnerability Assessment	1, 2, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Problem:</b> New York State has conducted studies that identify climate change impacts and examine how communities can act to adapt to same. The County will assess current local efforts to address climate change	No	No	2 years	Herkimer - Oneida Planning Agency with support from Herkimer County Emergency Services	\$150,000	<ul style="list-style-type: none"> <li>• Reduce energy usage and costs</li> <li>• Attract "green" businesses</li> <li>• Increase tax revenues and employment base</li> <li>• Reduce future hazard impacts</li> </ul>	Operating budget, Climate Smart grant, NYSDOS grant	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
				<p>impacts; potential adaptive measures; ways to reduce hazards impacts; reducing carbon dioxide emissions; and increasing energy conservation.</p> <p><b>Solution:</b></p> <ul style="list-style-type: none"> <li>• Climate Change Coalition/Advisory Council will coordinate the study</li> <li>• Identify the study's methodology, activities and expected outcome</li> <li>• Ensure public participation in the process</li> </ul>											



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<ul style="list-style-type: none"> <li>Identify applicable climate change adaptations that can be implemented, based on potential costs/benefits realized by the action</li> <li>Define recommendations and suggestions for implementation of adaptive measures</li> </ul>										
2023-Herkimer County-004	High Hazard Dam Outreach/Support	1, 3, 5	Flood	<p><b>Problem:</b> There are a number of High Hazard Potential Dams in the County. EAPs and inundation mapping are not available for all dams and additional</p>	Yes	No	1 to 4 years	Herkimer County Emergency Services	Staff time	Reduction of flood risk	Operating budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				coordination will reduce the risk of impacts due to dam failure. <b>Solution:</b> Collaborate with dam owners to improve understanding and mitigation of risk.										
2023-Herkimer County-005	Debris Management Plan	1	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Problem:</b> The County lacks disaster management planning to provide adequate procedures to address post-disaster cleanup. <b>Solution:</b> The County will develop a plan for debris management	No	None	2 years	DPW, Herkimer County Office of Emergency Services	Staff time	Improved post-disaster capabilities	County budget	High	LP R	E S



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>after hazard events, including severe winter snow/ice events, and other severe storms. 5-Year County plan to be coordinated with DPW, all municipalities and NYSDEC. Include consideration of invasive species (e.g. Asian Longhorn Beetle, Emerald Ash Borer) on the generation of vegetative debris, and the overall management of that debris. This plan shall consider the debris management challenges presented by</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				the 500-year event.										
2023-Herkimer County -006	Critical Facility Back-Up Power	1, 3	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> Critical facilities require backup power to maintain continuity of operations. The following critical facilities require backup power:</p> <ul style="list-style-type: none"> <li>-County Office Building is only partially powered by back up generators and is critical to pre-, post and during natural disaster events.</li> <li>-County Highway Offices and Garage.</li> </ul>	Yes	None	Within 5 years	Engineer, Public Works	High	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.	HMGP, BRIC, PDM, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, County Budget	High	SIP	E, S, S, P



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The County Engineer will research what size generator is needed to power each facility. The County will then purchase and install the selected generator and necessary electrical components to supply backup power to each facility. Public Works will be responsible for maintenance and testing of each generator following installation. The generators will provide continuous power for</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
				<p>services to ensure the health and safety of residents, businesses and visitors. By providing power to municipal facilities and the department of public works, staff will be able to provide pre-, during, and post event services to communicate, monitor and respond to citizen issues. Services such as heat and cooling will be uninterrupted to support the needs of vulnerable populations, community alerts and rapid inspections</p>											



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				and monitoring to be available for damages due to hazard events such as flood, wildfire, severe snow, and severe wind events. Equipment fuel will be available during snow, wildfire, and wind events to maintain uninterrupted access to critical facilities.										
2023-Herkimer County -007	Sustainable Back-Up power including microgrids	1, 3	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm	<b>Problem:</b> Critical facilities require backup power to maintain continuity of operations. The following critical facilities require	Yes	None	Within 5 years	Engineer, Public Works	High	Protect public health and safety, and ensure continued operation of critical facility and essential functions during	HMGP, BRIC, PDM, USDA Community Facilities Grant Program, Emergency Management	High	SIP	E, S, S, P



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>backup power:                      -County Office Building is only partially powered by backup generators and is critical to pre-, post and during natural disaster events.                      -County Highway Offices and Garage. In order to reduce reliance on fossil fuels, alternate energy sources could be investigated.</p> <p><b>Solution:</b> The County Engineer will research whether sustainable backup</p>						power outages.	Performance Grants (EMPG) Program, County Budget			



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				power (such as solar microgrids) is appropriate to provide emergency power and will determine what size and type of system is needed to power each facility. The County will then purchase and install the selected system and necessary electrical components to supply backup power to each facility. Public Works will be responsible for maintenance and testing of each system following installation. T										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>he systems will provide continuous power for services to ensure the health and safety of residents, businesses and visitors. By providing power to municipal facilities and the department of public works, staff will be able to provide pre-, during, and post event services to communicate, monitor and respond to citizen issues. Services such as heat and cooling will be uninterrupted to support the needs of vulnerable populations,</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				community alerts and rapid inspections and monitoring to be available for damages due to hazard events such as flood, wildfire, severe snow, and severe wind events. Equipment fuel will be available during snow, wildfire, and wind events to maintain uninterrupted access to critical facilities.										
2023-Herkimer County i-008	Invasive Species Education	1, 2, 3	Infestation	<b>Problem:</b> Invasive species is an emerging threat and can result in failure of trees and creation of debris.	No	No	1 to 5 years annually	County Highway	Staff time	Reduction in threat to human safety	Operating budget	Medium	EA P	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The County will distribute information via social media and handouts to educate the public on the threat of invasive species.</p>										
2023-Herkimer County-009	Heating/Cooling Centers	1, 2, 3	Extreme Temperature	<p><b>Problem:</b> Extreme temperature are more frequently experienced and power interruptions can threaten the health of vulnerable populations.</p> <p><b>Solution:</b> The County will create an outreach program to determine the timing and location of heat/cold alerts and to advise the</p>	No	No	1 to 5 years annually	Herkimer County Emergency Services	Staff time	Reduction in threat to human safety	Operating budget	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				location of heating and cooling centers.										
/232023-Herkimer County-010	Participate in the Climate Smart Program	1, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Currently, only two communities in Herkimer County are registered in the Climate Smart Communities program (Village of and Town of Webb). Additional participation in the program would allow for greater climate change preparation and county sustainability.</p> <p><b>Solution:</b> The County will</p>	No	None	2 years	All County Departments and Agencies	Staff time	Greater climate change preparation and county sustainability.	County budget	High	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				encourage County and Municipal participation in the Climate Smart Communities program. The County will work to improve its Climate Smart rating as it has adopted the Climate Smart Pledge.										
2023-Herkimer County-011	Substantial Damage Procedures	1, 3	Flood, Severe Storm, Wildfire	<b>Problem:</b> While major events that result in substantial damage of structures are rare, official procedures need to be in place to inspect structures, make determinations, and	No	None	Within 5 years	Herkimer County Emergency Services	Staff time	Meet NFIP requirements, improved floodplain administration	County budget	High	LP R	P P, P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				provide for appeals. <b>Solution:</b> The County will develop substantial damage procedures to address flood, severe storm, and wildfire hazards.										
2023-Herkimer County-012	RiskMap/FEMA Remapping Coordination	1, 3	Flood	<b>Problem:</b> The County's preliminary DFIRMs do not properly represent flood risk and have not been adopted by the county and most communities. New flood maps are being developed but need active input from the	No	No	One year and annually	Herkimer County Emergency Services	Staff time	Accurate mapping including future conditions will support improved floodplain management and reduced flood impacts	Operating Budget	High	LP R	P P P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				affected communities <b>Solution:</b> The County, and communities will actively participate in map updates by scheduling and attending meetings with NYDEC and FEMA to monitor map progress.										
2023-Herkimer County-013	NYPA/Canal Corp Liaison to support dam safety	1, 3, 5	Flood	<b>Problem:</b> There are a number of High Hazard Potential Dams in the County. EAPs and inundation mapping is not available for all dams and additional coordination will reduce the risk of impacts due to dam failure.	Yes	No	1 to 4 years	Herkimer County Emergency Services	Staff time	Reduction of flood risk	Operating budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Collaborate with dam owners to improve understanding and mitigation of risk.										
2023-Herkimer County -014	County Comprehensive Plan	1, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Problem:</b> The County does not have a comprehensive plan to guide development. <b>Solution:</b> The County will develop a comprehensive plan to discourage development in hazard areas.	No	No	Within 5 years	Herkimer-Oneida Planning Agency	\$200,000	Reduced hazard impacts	Operating budget, NYSDOS	High	LP R	PR
2023-Herkimer County -015	Replace and improve Vulnerable Bridges and Culverts	1, 3	Flood, Severe Storm, Severe, Dam Failure	<b>Problem:</b> There are a number of bridges (spans greater than 20') and large culverts (5' to 20' diameter/spa	No	None	Within 5 years	Planning	Staff time	Integration of hazard mitigation	County budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				n) that carry low ratings and are in need of upgrade to reduce localized flooding. <b>Solution:</b> The County will review and determine the proper sizing of the low rated bridges and culverts, select the best alternative, design upgrades and pursue funding to implement these projects.										
2023-Herkimer County -016	County Capital Improvement Plan	1, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter	<b>Problem:</b> While the County tracks capital improvement projects for funding, it does create a stand-alone	No	None	Within 5 years	Public Works	Staff time	Integration of hazard mitigation	County budget	High	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	capital improvement plan. <b>Solution:</b> The County to review its procedures for identification and documentation of capital improvement projects to determine if the development of an annual capital improvement plan will improve integration and implementation of hazard mitigation projects.										
2023-Herkimer County-017	County-wide Stormwater Problem Area Mapping	1, 3	Flood	<b>Problem:</b> Localized stormwater flooding impacts roads and structures throughout	No	None	Within 5 years	Public Works	Staff time	Integration of hazard mitigation	County budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>the County, but there is limited mapping to identify and manage the issues. Communities do not have the fiscal resources to develop local mapping.</p> <p><b>Solution:</b> The County will initiate a program to document local flood problem areas and to digitize in GIS to support implementation of flood mitigation projects.</p>										
2023-Herkimer County-018	Comprehensive Emergency Management Plan Update	1, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter	<b>Problem:</b> The County Emergency Management Plan is outdated and needs updating.	No	None	Within 5 years	Emergency Services	Staff time	Integration of hazard mitigation	County budget	High	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Solution:</b> Update the County Emergency Management and include a Public Health annex update										
2023-Herkimer County -019	County-Level Continuity of Operations Plan	1, 3	All Hazards Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Problem:</b> The County procedures for continuity of operations are not documented. <b>Solution:</b> In order to document the procedures for continuity of operations during and after a disaster event, the County will develop a continuity of operations plan.	No	None	Within 5 years	Emergency Services	Staff time	Integration of hazard mitigation	County budget	High	LP R	PR
2023-Herkimer County -020	Digitization of Dam Inundation Maps	1, 5	Dam Failure	<b>Problem:</b> The County does not have full digitized dam	Yes	No	Within 5 years	Herkimer-Oneida Planning Agency	Staff time	Reduction of dam impacts	County budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				inundation mapping. <b>Solution:</b> The County maintains hardcopy inundation maps for dams located within the County. The County will digitize non federally regulated dam mapping for the next plan update (and for use in the interim).				Office of Emergency Services						
2023-Herkimer County-021	Hazard Mitigation Planning Integration	1, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure,	<b>Problem:</b> Integration of hazard mitigation in County plans is limited. <b>Solution:</b> The County will review and update County plans and encourage municipalities to update	No	None	Within 5 years	Emergency Services, Herkimer-Oneida Planning	Staff time	Integration of hazard mitigation	County budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
			Disease Outbreak	<p>their plans to integrate goals, objectives, and activities from this HMP which are not found in existing regulatory documents, as appropriate. The County will work with the Adirondack Park Agency to integrate best floodplain management practices with the Park and will reference and integrate the hazard mitigation plan during the update of the comprehensive plan. As part of the integration</p>											



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				the County will seek out projects that can be funded by the Climate Smart Program and which will increase resilience and sustainability.										
2023-Herkimer County-022	County-Wide Hazards Education and Outreach	1, 2, 3	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> There are a number of resources to support the mitigation of the hazards of concern identified in the Herkimer County Hazard Mitigation Plan, but County residents and businesses may not be aware of the location or content of the resources.</p> <p><b>Solution:</b> The</p>	No	No	1 Year	Herkimer-Oneida Planning Agency, Office of Emergency Services	Staff time	Increased awareness of mitigation measures to reduce impacts of hazards of concern. Creating a community empowered to increase resilience, reduce damages, and to improve the health, safety and	County budget	High	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				County will undertake the following outreach initiatives to educate residents regarding steps to be taken to decrease the impact of natural hazards (including dam failure, disease outbreak, extreme temperature, drought, flood, infestation, severe storm, severe winter storm, and wildfire) by developing, enhancing, and implementing education programs, brochures, school presentations						welfare of residents, visitors, and businesses.				



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
				<p>informing groups about ways to reduce risk, and other outreach activities.</p> <p>-The County will create a webpage on its emergency services website to provide key information to support the health, safety, and welfare of its residents and businesses and will urge all communities within the county to provide links to this information on municipal websites and to leverage this information</p>											



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				during municipal meetings and in municipal newsletters and communications. This information will include hazard risk reduction for drought, extreme temperature, severe winter storms, and severe storms to reduce impacts on public health. Content is anticipated to include weblinks to the NY Drought Monitor website, tips for residential and agricultural water conservation, available										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				heating, and cooling shelters as appropriate, links to the NYS Department of Health Extreme Heat Advice website, information on safety practices for minimizing structural damage due to extreme snowfall, tips to prepare for power outages due to severe winter weather or wind events. Educational materials and public notice information on infestation hazards will also be provided on the website.										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>-Provide residents with information listing steps taken to lessen potential flood damage to reduce the impact of flooding.</p> <p>-Educate the community on benefits of carrying NFIP policies and increase knowledge of NFIP services.</p> <p>-Include frequent hazard mitigation plan updates and a feedback survey link on the county website to support ongoing community input.</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Herkimer County-023	Floodplain Management Training	2	Flood	<p><b>Problem:</b> Documentation of floodplain management can be improved at the local level.</p> <p><b>Solution:</b> The County will support locating existing floodplain damage prevention ordinances for communities that lack the capacity to document floodplain management by partnering with NYDEC and NYSDHSES to provide education related to floodplain management, update of flood damage prevention</p>	No	No	1 year	Herkimer County Office of Emergency Services	Staff time	Increased ability to manage development in floodplains and reduce future flood impacts.	County budget	High	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				ordinances, and elevation certificate management										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR)—Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.



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



The prioritization criteria provided in Volume 1, Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.1-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2023-Herkimer County-001	County-wide Bridge (non-structural) Maintenance Plan	1	0	1	1	0	0	1	0	0	1	0	1	1	0	7	Medium
2023-Herkimer County-002	Countywide Asset Management Plan	1	1	1	1	1	0	1	0	1	1	1	1	0	0	10	High
2023-Herkimer County-003	Climate Change Baseline Vulnerability Assessment	1	1	1	1	0	0	1	1	1	1	1	1	0	0	10	High
2023-Herkimer County-004	High Hazard Dam Outreach/Support	1	1	1	1	1	1	1	0	1	1	0	1	1	0	11	High
2023-Herkimer County-005	Debris Management Plan	1	1	1	1	1	1	1	0	1	1	0	1	1	0	11	High
2023-Herkimer County-006	Critical Facility Back-Up Power	1	1	1	1	1	1	1	0	1	1	1	1	1	0	12	High
2023-Herkimer County-007	Sustainable Back-Up power including microgrids	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
2023-Herkimer County-008	Invasive Species Education	1	0	1	1	0	0	1	1	0	1	0	1	1	0	8	Medium
2023-Herkimer County-009	Heating/Cooling Centers	1	0	1	1	1	0	1	0	1	1	1	1	1	0	10	High



Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2023-Herkimer County-010	Participate in the Climate Smart Program	1	0	1	1	0	0	1	1	1	1	0	1	1	0	9	High
2023-Herkimer County-011	Substantial Damage Procedures	1	0	1	1	0	0	1	1	1	1	0	1	1	0	9	High
2023-Herkimer County-012	RiskMap/FEMA Remapping Coordination	1	1	1	1	1	0	1	1	1	1	0	1	1	0	11	High
2023-Herkimer County-013	NYPA/Canal Corp Liaison to support dam safety	1	1	1	1	1	0	1	1	1	1	0	1	1	0	11	High
2023-Herkimer County-014	County Comprehensive Plan	1	0	1	1	0	0	1	1	1	1	0	1	1	0	9	High
2023-Herkimer County-015	Replace and improve Vulnerable Bridges and Culverts	1	0	1	1	0	0	1	1	1	1	1	1	1	0	10	High
2023-Herkimer County-016	County Capital Improvement Plan	1	0	1	1	0	0	1	1	1	1	1	1	1	0	10	High
2023-Herkimer County-017	County-wide Stormwater Problem Area Mapping	1	0	1	1	0	0	1	1	1	1	0	1	1	0	9	High
2023-Herkimer County-018	Comprehensive Emergency Management Plan Update	1	0	1	1	0	0	1	1	1	1	1	1	1	0	10	High
2023-Herkimer County-019	County-Level Continuity of Operations Plan	1	0	1	1	0	0	1	1	1	1	1	1	1	0	10	High
2023-Herkimer County-020	Digitization of Dam Inundation Maps	1	1	1	1	1	0	1	1	1	1	0	1	1	0	11	High
2023-Herkimer County-021	Hazard Mitigation Planning Integration	1	0	1	1	0	0	1	1	1	1	1	1	1	0	10	High



Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2023-Herkimer County-022	County-Wide Hazards Education and Outreach	1	0	1	1	1	0	1	1	0	1	1	1	1	0	10	High
2023-Herkimer County-023	Floodplain Management Training	1	0	1	1	1	0	1	1	0	1	1	1	1	0	10	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.2 VILLAGE OF COLD BROOK

This section presents the jurisdictional annex for the Village of Cold Brook that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Cold Brook’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.2.1 Hazard Mitigation Planning Team

The Village of Cold Brook identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the Village Mayor and Trustee. These officials represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.2-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Marvin Jones – Trustee</b> Address: Phone Number: <b>(315) 826-7131</b> Email: <b>marvinj335@gmail.com</b>	Name/Title: <b>Kathy Potempa – Mayor</b> Address: Phone Number: <b>(315) 862-7605</b> Email:
<b>NFIP Floodplain Administrator</b> Name/Title: Phil Green, Codes Officer Address: 478 Main Street, Cold Brook, NY 13324 Phone Number: (315) 534-2232 Email: pgreen@cityoflittlefalls.net	



## 9.2.2 Municipal Profile

The Village of Cold Brook is located within the Town of Russia and has a total land area of 0.4 square miles, with sloping terrain and occasionally steep roadways. Waterpower present in the Village encouraged settlers who arrived in the late 1800s.

According to the U.S. Census, the 2020 population for the Village of Cold Brook was 250, a 31.6-percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 4.58-percent of the population is 5 years of age or younger and 12.8-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 7.71% of the population does not have a high school diploma
- 13.95% of the population has a disability
- 3.57% of households do not have a vehicle
- 9.84% of the population is living below the poverty level
- 2.23% of the population is unemployed

## 9.2.3 Jurisdictional Capability Assessment and Integration

The Village of Cold Brook performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Cold Brook to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Cold Brook. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.2-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Village of Cold Brook has adopted the New York State Uniform Fire Prevention and Building Codes. The adoption and enforcement of building codes relates the design and construction of structures to standards established for withstanding a variety of forces. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.				
<b>Zoning/Land Use Code</b>	Yes	Comprehensive Plan – Zoning Local Law O-02	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The purpose of the Law is to classify, regulate and restrict the height, number of stories and size of buildings and other structures, the percentage of lot that may be occupied, size of yards and other open spaces, density of population and location and use of buildings, structures and land for trade, industry, residence, and other purposes; to establish the boundaries for districts, and to promote the public health, safety, morals and general welfare of the Village. Zoning keeps inappropriate development away from hazard-prone areas and designates areas for conservation, public use, or agriculture. Communities can designate areas as “open space” to reducing the effect of flooding by allowing spaces for water to flow unimpeded.				
<b>Subdivision Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Subdivision ordinances set construction and location standards for subdivision layout and infrastructure and contain standards for such things as stormwater management, erosion control, and subdivision size. Localized flooding is often a result of building residential or commercial developments without adequate stormwater drainage. These regulations have the potential to reduce the impact of localized flooding on a community.				
<b>Site Plan Ordinance</b>	No	-	-	-
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Real Estate Disclosure</b>	Yes	New York State Disclosure Form for Buyer and Seller, November 2015	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	To be advised. Requested copy from NYDEC.	-	-
<b>Wellhead Protection</b>	No	-	-	-
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	No	-	-	-
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	No	-	-	-

*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Comprehensive land use planning prevents development in hazardous areas and allows development that minimizes hazard damage. Local governments can use land use planning to identify those areas subject to damage from hazards and keep inappropriate development out of these areas. Land use planning can also be used regionally when governments collaborate. Communities can incorporate a mitigation review into the land use planning process, thereby potentially minimizing development in identified hazard areas.



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Capital Improvement Plan</b>	No	-	-	-
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>            Capital improvement plans identify where major public expenditures will be made over the next five to ten years. They can secure hazard-prone areas for low-risk uses; strengthen, replace, or realign roads and utilities; and prescribe standards for the design and construction of new facilities. In addition, they can reduce the level of public funding spent on construction in hazard-prone areas.</p>				
<b>Disaster Debris Management Plan</b>	No	-	-	-
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
<b>Stormwater Management Plan</b>	No	-	-	-
<b>Open Space Plan</b>	No	-	-	-
<b>Urban Water Management Plan</b>	No	-	-	-
<b>Habitat Conservation Plan</b>	No	-	-	-
<b>Economic Development Plan</b>	No	-	-	-
<b>Community Wildfire Protection Plan</b>	No	-	-	-
<b>Community Forest Management Plan</b>	No	-	-	-
<b>Transportation Plan</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-



## Development and Permitting Capability

The table below summarizes the capabilities of the Village of Cold Brook to oversee and track development.

**Table 9.2-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	No	-
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	-
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-

## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Cold Brook and their current responsibilities that contribute to hazard mitigation.

**Table 9.2-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	-
Zoning Board of Adjustment	No	-
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	No	-
Construction/Building/Code Enforcement Department	Yes	Zoning Official
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	Poland Fire Department



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Village contracts the Town of Russia for snow removal. The Village has its own maintenance programs on drainage and manhole ditches and the Village-owned bridge.
Mutual aid agreements	Yes	Poland Fire Department
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of Cold Brook’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Village of Cold Brook.



**Table 9.2-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Cold Brook.

**Table 9.2-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	Poland Fire Department
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Cold Brook.



**Table 9.2-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	No	N/A	N/A
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	N/A	N/A
Storm Ready Certification	No	N/A	N/A
Firewise Communities classification	No	N/A	N/A
Other	No	N/A	N/A

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.2-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.2.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.



## National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Cold Brook.

**Table 9.2-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Cold Brook	4	1	\$1,511	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

## Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Cold Brook.

**Table 9.2-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Most of the village is in the floodplain. The Village does not maintain a list of flood-damaged properties.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	None No
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Code Enforcement



NFIP Topic	Comments
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes, any relevant training for floodplain management
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	None
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	None
What are the barriers to running an effective NFIP program in the community, if any?	None
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	None
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	None
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	None
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	No
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Yes

### 9.2.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.2-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.2-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	0	All permits issued in the past five years are for existing home updates or outbuildings.										
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

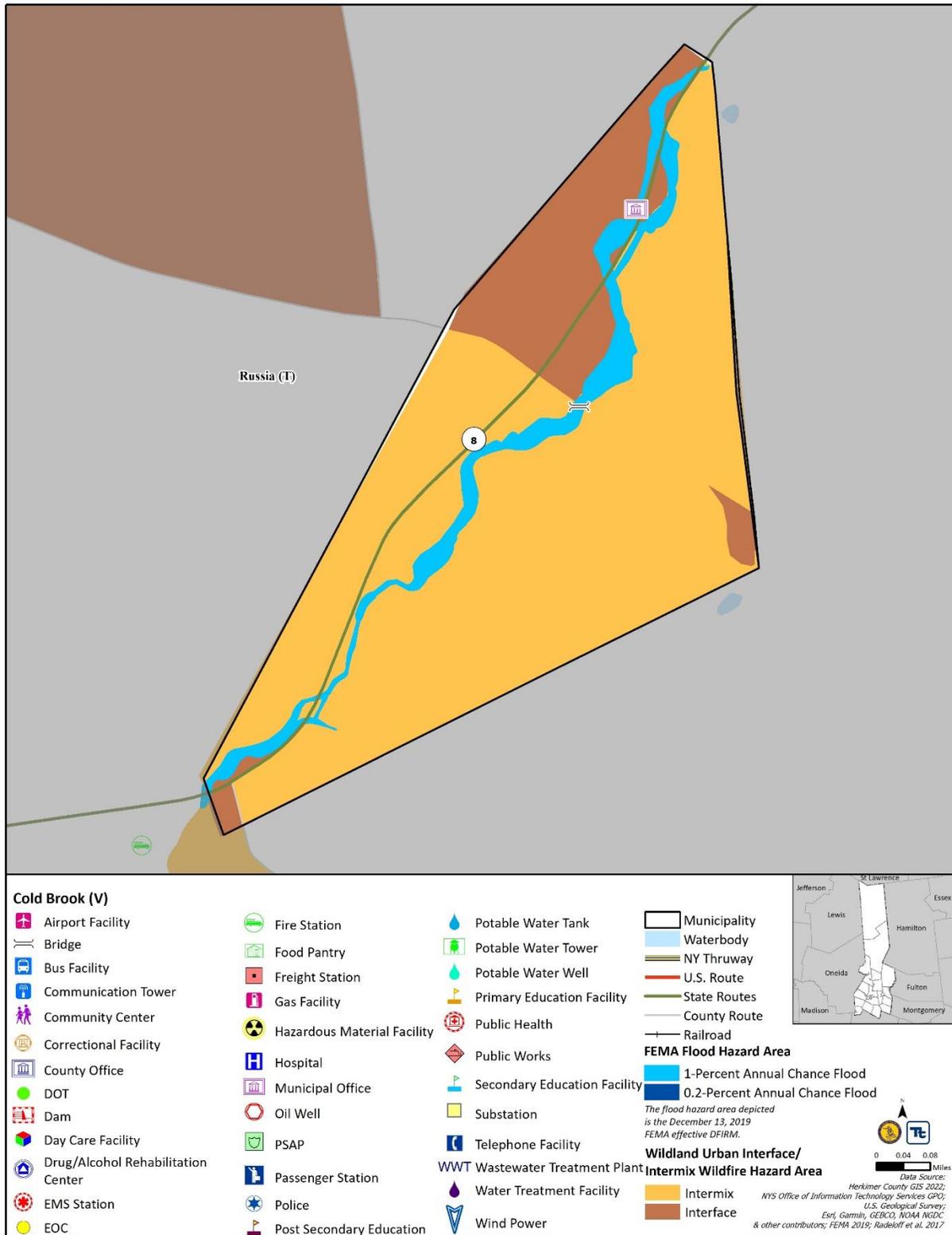
### 9.2.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Cold Brook’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Cold Brook has significant exposure are provided.



Figure 9.2-1. Village of Cold Brook Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Cold Brook’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.2-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.2-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Erosion and overbanking from on the Cold Brook Creek onto Norway Street. Culverts became inundated. Driveways had soil erosion deposited. Emergency response placed cones and blocked off the Street.
October 31– November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Norway Street was heavily damaged. FEMA grant received to conduct work on the Street by increasing the water capacity on culverts.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	County dispersed PPE and Town of Russia pushed out education. Reported cases and deaths were not available for the Village of Cold Brook.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Erosion and overbanking from on the Cold Brook Creek onto Norway Street. Culverts became inundated. Driveways had soil erosion deposited. Emergency response placed cones and blocked off the Street. Major fire



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
				from lightning hitting a house.
April 15, 2022	Rain	N/A	Power outages	Power lines weighted from fallen branches causing power outages in the Village.
July 25, 2023	Severe Storm	N/A	Fast moving storms impacted the County, causing localized flooding. Lightning struck a tree that then fell onto a patio in Niagara County, trees and wires were knocked down by high winds in Herkimer County, and a 15 foot-sailboat capsized on the Hudson River in Dutchess County. One man was killed, and two others hospitalized in the Madison County town of Lincoln when lightning struck a flagpole they were standing near during a thunderstorm. A microburst destroyed two barns, uprooted trees, and caused a divergent path of downed trees in Tompkins County.	Ditches and roadways washed out. A crossover pipe become plugged. The Creek became washed out, and the pipes along the creek were plugged with debris. The catch basins also became plugged with debris, leading to an overflow of damages into the creek bank. Damage was caused to the ends of driveways, and sand covered the roadway, ditches, and driveways.
August 5, 2023	Severe Storm	N/A	Thunderstorms impacted Herkimer County, with some reports of localized heavy rain and hail.	Ditches and roadways washed out. The Creek became washed out, and the pipes along the creek were plugged with sandy debris. Sand covered the roadway, residential lawns, and driveways.
August 7-8, 2023	Severe Storm	N/A	Thunderstorms impacted Herkimer County, with some reports of localized heavy rain and hail.	Ditches and roadways washed out. The Creek became washed out, and the pipes along the creek were plugged with sandy debris. Sand covered the roadway, residential lawns, and driveways.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable



## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Cold Brook’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Cold Brook. The Village of Cold Brook reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- Due to the minimal risk from the dam failure hazard, there is no mitigation action for this hazard in the Village of Cold Brook.

**Table 9.2-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Medium
Flood	Medium
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall



be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.2-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Norway Street Bridge	Bridge	x	x	Not Applicable. *	*The Village performs ongoing maintenance programs on drainage and manhole ditches and at the Village-owned bridge.
Village of Cold Brook Municipal Building	Municipal Office	x	x	2023-ColdBrook-003	-

Source: Herkimer County 2023

### Identified Issues

After review of the Village of Cold Brook’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Cold Brook identified the following vulnerabilities within their community:

- Most of the Village is in the floodplain.
- There is excessive flooding and runoff throughout the Village, including outside of the floodplain.
- There are residents of the Village which have home medical issues. In the event of an emergency, there is not back-up power to support these individuals.
- Many culverts are undersized and could be contributing to the flooding issues experienced within the Village.
- There are not many locations which floodwaters can drain.
- The Village has limited access to State and County equipment for emergency response.
- The Village relies on the State and County for engineering services.



- The Cold Brook Creek and its tributaries cause excessive amounts of damage ranging from erosion and soil deposits and flooding from overbanking and meandering.
- Runoff from farms in the Town of Russia deposit into the Cold Brook Creek and its tributaries, which could impact the Village’s potable water sources.
- The Village is located within a Valley, which leads to pooling floodwaters.
- Electrical lines are from the 1940s and are not compatible with the current and future electrical demands.
- The installation of septic systems on properties has assisted in limiting the amount of sewage in Cold Brook Creek, but sewage still seeps into the Creek.
- Properties along Cold Brook Creek experience backyard flooding and occasionally have floodwaters enter their basements.
- The Cold Brook Creek will dam from debris pulled into the waterway, causing the floodwaters to spill out of the Creek and onto surrounding properties.

### 9.2.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The Village of Cold Brook did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

#### Additional Mitigation Efforts

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The Village of Cold Brook identified the following mitigation efforts completed since 2017:

- FEMA grant received to conduct work on Norway Street by increasing the water capacity on culverts, replacing 4 culvert pipes, putting in manhole drains, resurface and raise portions of the Street, add drainage ditches, and add river rock drainage basin.
- Ongoing maintenance programs on drainage and manhole ditches and Village-owned bridge.
- Educational efforts by distributing guidance from the County and Town of Russia.

#### Proposed Hazard Mitigation Initiatives for the HMP Update

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The Village of Cold Brook participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation



planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.2-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X		X	X	X	X			X
Drought	X	X		X	X	X	X			X
Flood	X	X	X	X	X	X	X	X	X	X
Severe Storm	X	X	X	X	X	X	X	X		X
Severe Winter Storm	X	X	X	X	X	X	X	X		X
Wildfire	X	X		X	X	X	X			X
Infestation	X			X	X		X			
Dam Failure	X			X	X		X			
Disease Outbreak	X			X	X		X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.2-16).

The table below summarizes the specific mitigation initiatives the Village of Cold Brook would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.2-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-ColdBrook-001	Develop Comprehensive Plan	1, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Plan does not exist.</p> <p><b>Solution:</b> Development a Comprehensive Plan.</p>	No	No	5 years	Village Administration	Medium	High	HMGP	Low	LPR	PR
2023-ColdBrook-002	Floodplain Management Training	2	Flood	<p><b>Problem:</b> Capability/capacity is needed to manage the village's floodplain.</p> <p><b>Solution:</b> Identify and attend floodplain management trainings.</p>	No	No	1 to 2 years	Zoning	Low	High	HMGP	High	EAP	PR
2023-ColdBrook-003	Increase NFIP Capabilities	1, 2	Flood	<b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.	No	No	1 year	Zoning	Low	Medium	HMGP, FMA	Medium	LPR	PI, PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.										
2023–ColdBrook–004	Flood Map Updates	1, 2, 3	Flood	<p><b>Problem:</b> Flood mapping does not adequately address flood risk in the Village.</p> <p><b>Solution:</b> Work with FEMA to ensure it accurately visualizes the flood risk in the Village.</p>	No	No	5 years	Zoning	Low	Medium	N/A	High	LPR	PI, PP
2023–ColdBrook–005	Outreach/education for all hazards	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure,	<p><b>Problem:</b> Residents are not fully aware of all hazards which may impact them and how to respond or prepare.</p> <p><b>Solution:</b> The Village will work with the County of Herkimer and</p>	No	No	1 year	Village Administration	Low	High	BRIC, HMGP	Medium	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Disease Outbreak	the Town of Russia to develop and distribute educational materials regarding all hazards. The Village will advise residents that it will provide educational materials on the Town of Russa website on hazard risk reduction for drought, extreme temperature, severe winter storms, and severe storms to reduce impacts on public health. The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. Content is anticipated to include weblinks to the NY Drought Monitor website, tips for residential and agricultural water conservation, available heating and cooling shelters as appropriate, links to the NYS Department of Health Extreme Heat Advice website, information on										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				safety practices for minimizing structural damage due to extreme snowfall, tips to prepare for power outages due to severe winter weather or wind events. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-ColdBrook-006	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial</p>	No	No	5 years	Zoning	Medium	Medium	HMGF	Low	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Damage Response Plan.										
2023-ColdBrook-007	Cold Brook Creek Meandering Causation Study	1, 4	Flood	<p><b>Problem:</b> The Cold Brook Creek is flooding properties due to its meandering movements.</p> <p><b>Solution:</b> Conduct a causation study to identify why the Creek is meandering and ways to mitigate the flooding.</p>	No	No	4 to 5 years	Zoning	Medium	Medium	HMGP, WQIP	Medium	NSP	NR, PP
2023-ColdBrook-008	Aging Electrical Grid	1, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The electrical grid is aging and unable to keep up with demand.</p> <p><b>Solution:</b> Partner with the National Grid to identify available upgrades.</p>	No	No	> 5 years	National Grid	High	High	BRIC, GRIP, HMGP	High	SIP	PP, ES
2023-ColdBrook-009	Norway Street Crossover Pipe	1	Flood	<p><b>Problem:</b> Norway Street frequently floods in one direction from</p>	No	Yes	2 years	County of Herkimer	Medium	Medium	BRIC, HMGP	High	SIP	PP, SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				runoff which comes down the hill.  <b>Solution:</b> Install a crossover pipe to disperse runoff waters into two directions and mitigate the flooding on the one side of Norway Street.										
2023–ColdBrook–010	Agricultural Waste Runoff Mitigation	1, 3, 4	Flood, Severe Storm, Severe Winter Storm	<b>Problem:</b> Runoff from the hills carries agricultural waste into the Cold Brook Creek, which impacts the potable water sources of the Village.  <b>Solution:</b> Partner with the Town of Russia and the NYDEP to identify actions to mitigate the agricultural runoff.	No	Yes	3 to 4 years	NYDEP	Low	High	BRIC, HMGP, WQIP	High	NSP	PP, NR
2023–ColdBrook–011	Creek Erosion Mitigation	1, 4	Flood	<b>Problem:</b> Flooding in the Village has historically caused	No	Yes	3 years	Zoning	Medium	High	BRIC, HMGP	Medium	NSP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>significant amount of erosion and sandy debris along roads and driveways.</p> <p><b>Solution:</b> Place layers of riprap along the creek beds to protect the creek bed from eroding and reduce stormwater flow rates.</p>										
2023-ColdBrook-012	Village Municipal Hall Flood Protection Review	1,2	Flood	<p><b>Problem:</b> The Village Hall is located in the regulatory floodplain and it has not been determined that the building is protected to the 500-year event.</p> <p><b>Solution:</b> The Village NFIP Administrator will review the regulatory flood map to determine whether it is elevated above the</p>	Yes	No	1 year	NFIP Administrator/Codes Officer	Low	High	Operating Budget	H	EAP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				500-year base flood elevation.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program
- GRIP Grid Resilience and Innovation Partnerships Program
- WQIP Water Quality Improvement Project Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes 💧 Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR)—Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.2-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-ColdBrook-001	Develop Comprehensive Plan	1	1	1	0	0	1	0	0	0	0	1	0	-1	0	4	Low
2023-ColdBrook-002	Floodplain Management Training	1	1	1	1	1	0	1	1	1	1	0	1	1	0	11	High
2023-ColdBrook-003	Increase NFIP Capabilities	1	1	1	0	0	0	1	1	0	1	0	0	0	0	6	Medium
2023-ColdBrook-004	Flood Map Updates	1	1	1	1	0	1	1	1	1	1	0	0	0	0	9	High
2023-ColdBrook-005	Outreach/education for all hazards	1	1	1	0	0	1	0	1	1	0	1	1	0	0	8	Medium
2023-ColdBrook-006	Develop Substantial Damage Response Plan	0	1	1	0	0	1	0	1	0	0	1	0	-1	0	4	Low
2023-ColdBrook-007	Cold Brook Creek Meandering Causation Study	1	1	1	0	1	1	0	1	1	1	0	0	0	0	8	Medium
2023-ColdBrook-008	Aging Electrical Grid	1	1	1	0	1	1	0	1	1	1	1	-1	1	0	9	High
2023-ColdBrook-009	Norway Street Crossover Pipe	1	1	1	1	1	1	0	1	1	1	0	0	1	0	10	High
2023-ColdBrook-010	Agricultural Waste Runoff Mitigation	1	1	1	1	1	1	0	1	1	1	1	-1	1	0	10	High
2023-ColdBrook-011	Creek Erosion Mitigation	0	1	1	1	0	1	1	1	0	1	0	1	0	0	8	Medium
2023-ColdBrook-012	Village Municipal Hall Flood Protection Review	1	1	1	1	0	1	1	1	1	1	0	0	0	0	9	High



Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.3 TOWN OF COLUMBIA

This section presents the jurisdictional annex for the Town of Columbia that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Columbia’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.3.1 Hazard Mitigation Planning Team

The Town of Columbia identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Supervisor’s office and the highway department. The Town Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.3-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: R. Mark Buddle – Highway Superintendent Address: 147 Columbia Center Road, Ilion, NY 13357 Phone Number: 315-866-1309 Email: <a href="mailto:columbiahighway@gmail.com">columbiahighway@gmail.com</a>	Name/Title: George Weiss – Town Supervisor Address: 147 Columbia Center Road, Ilion, NY 13357 Phone Number: 315-868-5521 Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: R. Mark Buddle – Highway Superintendent Address: 147 Columbia Center Road, Ilion, NY 13357 Phone Number: 315-866-1309 Email: <a href="mailto:columbiahighway@gmail.com">columbiahighway@gmail.com</a>	



### 9.3.2 Municipal Profile

The Town of Columbia is in the heart of the Mohawk Valley, situated between the Catskills and the Adirondacks. It is a farming community with tranquil beauty located just minutes away from Historic Cooperstown. The Town was organized in 1812 from part of the Town of Warren.

According to the U.S. Census, the 2020 population for the Town of Columbia was 1,569, which is less than a 1 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 5 percent of the population is 5 years of age or younger and 15.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 10.61% of the population does not have a high school diploma
- 11.97% of the population has a disability
- 8.38% of households do not have a vehicle
- 15.68% of the population is living below the poverty level
- 4.76% of the population is unemployed

### 9.3.3 Jurisdictional Capability Assessment and Integration

The Town of Columbia performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Columbia to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Columbia. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.3-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>            The Town of Columbia has adopted the New York State Uniform Fire Prevention and Building Codes. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.</p>				
<b>Zoning/Land Use Code</b>	Yes	Zoning Local Law 01-02	Local	Code Enforcement Officer
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>  <i>Specifies the allowable uses of land within each district, the regulations pertaining to the development and use of the land, and buildings are uniform for each class or kind of building.</i>  <i>Zoning keeps inappropriate development away from hazard-prone areas and designates areas for conservation, public use, or agriculture. Communities can designate areas as "open space" to reduce the effect of flooding by allowing spaces for water to flow unimpeded.</i></p> <p><i>Consider the following:</i></p> <ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use? No, but structures are not permitted to be built in the floodplain.</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains? Yes.</li> <li>• Does it contain natural overlay zones that set conditions? No.</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk? Yes.</li> <li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? No.</li> </ul>				
<b>Subdivision Ordinance</b>	Yes	Land Subdivision Law 01-93	Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>            Manage growth and development in accordance with plans, policies, and resolutions of the Town. Provide for the preservation of natural resources, sensitive natural areas, and natural features. Provide safety from fire, flood, and other danger. Subdivision ordinances set construction and location standards for subdivision layout and infrastructure and contain standards for such things as stormwater management, erosion control, and subdivision size. Localized flooding</p>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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is often a result of building residential or commercial developments without adequate stormwater drainage. These regulations have the potential to reduce the impact of localized flooding on a community.

Consider the following:

- Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas? Yes
- Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources? Yes.
- Do the regulations allow density transfers where hazard areas exist? No, has not been discussed.

<b>Site Plan Ordinance</b>	No	-	-	-
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent

How has or will this be integrated with the HMP and how does this reduce risk?

- In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.

<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-

How has or will this be integrated with the HMP and how does this reduce risk?

Consider the following:

- Are environmental systems that protect development from hazards identified and mapped?
- Do environmental policies maintain and restore protective ecosystems?
- Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?
- Do environmental policies provide incentives to development that is located outside protective ecosystems?

<b>Flood Damage Prevention Ordinance</b>	Yes	Flood Damage Prevention Law 02-96	Federal, State, County and Local	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Regulations designed to promote the public health, safety, and general welfare and to minimize public and private loss due to flooding.

<b>Wellhead Protection</b>	No	-	-	-
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	-	-	-	-

**Planning Documents**

<b>Comprehensive Plan</b>	Yes	Town of Columbia Comprehensive Plan – 2018	Local	Town Planning Board
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 This Comprehensive Plan is intended to summarize and record the natural and historic assets of the Town of Columbia: document its essentially rural residential and agricultural character; provide guidelines for the preservation of the Town's assets in a manner compatible with orderly economic growth; and provide a basis for creating a detailed Land Use Ordinance to guide the future development of the town. Comprehensive land use planning prevents development in hazardous areas and allows development that minimizes hazard damage. Local governments can use land use planning to identify those areas subject to damage from hazards and keep inappropriate development out of these areas. Land use planning can also be used regionally when governments collaborate. Communities can incorporate a mitigation review into the land use planning process thereby potentially minimizing development in identified hazard areas.

The Town notes that infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards, the land use policies discourage development or redevelopment with natural hazard areas, and that the plan provides adequate space for expected future growth in areas located outside natural hazard areas.

<b>Capital Improvement Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Capital improvement plans identify where major public expenditures will be made over the next five to ten years. They can secure hazard-prone areas for low-risk uses; strengthen, replace, or realign roads and utilities; and prescribe standards for the design and construction of new facilities. In addition, they can reduce the level of public funding spent on construction in hazard-prone areas.

<b>Disaster Debris Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	-	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Columbia to oversee and track development.

**Table 9.3-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	All completed building permits, zoning permits, and dog licenses must be turned into the Town Clerk's office.
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	Yes	Codes Enforcement
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Columbia and their current responsibilities that contribute to hazard mitigation.

**Table 9.3-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The local Planning Board was created in 1990 by the Town Board to serve in an advisory role concerning land use issues. Its powers and duties are governed by section 271 of Town Law. In the capacity of advisor to the Town Board, the Planning Board prepared the Town’s Comprehensive Plan and local land-use laws to include Subdivision and Zoning Laws.  The Planning Board has been delegated authority to approve Subdivision applications, Site Plans, and Special Permits. The Board consists of five members appointed by the Town Board to serve overlapping five-year terms.
Zoning Board of Adjustment	Yes	Town Zoning Board is responsible for maintaining all building codes and regulations and approving, approve with conditions, or denying any special use permits.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Town Highway Department is responsible for highway maintenance, state roads, county roads, town roads and village roads.
Construction/Building/Code Enforcement Department	Yes	The Town Code Department is responsible for the enforcement of all Town ordinances, zoning laws, and the NYS Fire Prevention. The department also issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Highway Department will conduct tree trimming and stormwater maintenance on an as needed basis.
Mutual aid agreements	Yes	There are agreements in place with surrounding jurisdictions, Herkimer County, and New York State for



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		emergency responses (fire, police, EMS), roadwork, and tree occasionally tree maintenance.
Human Resources Manual – Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Columbia’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Columbia.



**Table 9.3-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Columbia.

**Table 9.3-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Columbia.



**Table 9.3-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	Not available.	Not available.
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable  
 - Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.3-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Moderate
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

The Town of Columbia indicated that the adaptive capacity for the Flood hazard should be ‘Moderate’ instead of ‘Strong’. While there are good portions of the Town which are in the SFHA, there have not been many events which needed a response. The resources available would assist in a response, but external assistance may be needed.



The Town of Columbia indicated that the adaptive capacity for the Severe Winter Storm hazard should be ‘Strong’ instead of ‘Moderate’. The Highway Department is well equipped, familiar with the hazard, and can identify where the most assistance will be needed.

The Town of Columbia indicated that the adaptive capacity for the Wildfire hazard should be ‘Moderate’ instead of ‘Strong’. While there are forested areas of the Town, these areas are State forest and would warrant a State response, not Town. Additionally, the Town, although it has its own fire department, may rely on external assistance for several fire-related occurrences.

### 9.3.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Columbia.

**Table 9.3-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Columbia	1	0	0	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Columbia.

**Table 9.3-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	No. We have numerous areas in high rain/snow melt events subject to road flooding.
Do you maintain a list of property owners interested in flood mitigation?	No. None that we are aware of.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Visual and estimate repairs. None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes and Highway
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	None
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Unknown
What are the barriers to running an effective NFIP program in the community, if any?	None
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Flood Damage Prevention Law 02-96
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets the minimum requirements



NFIP Topic	Comments
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Unsure

### 9.3.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.3-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.3-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	0	0	2	0	3	0	1	0	4	0	2	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	10	0	3	0	9	0	2	0	4	0
<b>Total New Construction Permits Issued</b>	0	0	12	0	6	0	10	0	6	0	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.3.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools)

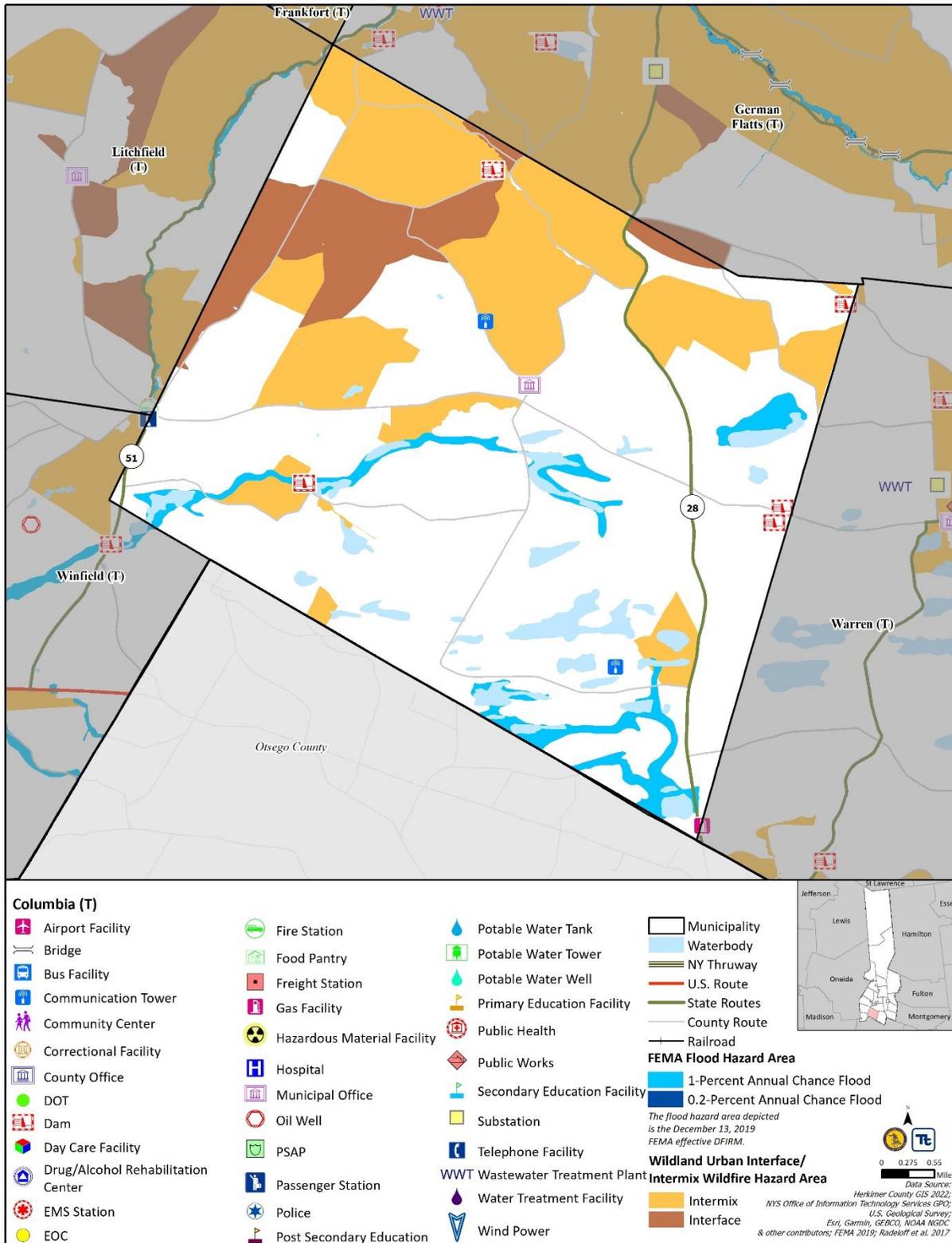


and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Columbia’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Columbia has significant exposure are provided.



Figure 9.3-1. Town of Columbia Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Columbia’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.3-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.3-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	The Town of Columbia incurred no damages or losses from this event.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	The Town of Columbia incurred no damages or losses from this event.
Winter 2019–2020	Numerous Ice Events	No	Almost weekly ice events throughout the winter	Multiple tree cleanups to keep the roads clear of fallen trees/branches throughout the winter. An entire week in the spring was spent cleaning up the debris that had been pushed off the roads. Blight and insects killed the trees, so they fell in the storms.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	The Town of Columbia incurred no damages or losses from this event.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	The Town of Columbia incurred no damages or losses from this event.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Columbia’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Columbia. The Town of Columbia reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town increased the preliminary ranking of ‘Medium’ to ‘High’ for the Severe Winter Storm hazard as winds tend to cause blizzard like conditions and major snow drifts. Additionally, the windward side of ridges, which border the valley in the Town, experience heavy snow accumulations and increased snow drifts.



- The Town increased the preliminary ranking of ‘Low’ to ‘Medium’ for the Infestation and Invasive Species hazard as trees are heavily impacted by both invasive plant and animal species.

**Table 9.3-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	High
Wildfire	Low
Infestation	Medium
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.3-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Millers Mills Dam	Dam	x	x	2023-Columbia-003, 2023-Columbia-004, 2023-Columbia-005	-

Source: Herkimer County, 2023



## Identified Issues

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After review of the Town of Columbia’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Columbia identified the following vulnerabilities within their community:

- Heavy snow and high winds from Severe Winter Storms will cause large branches to fall, trees to collapse, and power lines to become weighed down.
- Heavy rain and high winds from Severe Storms will cause large branches to fall, trees and utility poles to collapse from overly saturated soils, trees, and utility poles to fall from high winds, and power lines to become loose from high winds.
- The current generators being used as for emergencies at the Town Hall/Highway Facility are undersized, antiquated, and not the correct type of generator to be utilized as an emergency generator.
- There are multiple culverts in the Town which are undersized and should be replaced with correctly sized culverts.
- There is a lack of manpower and funding for culvert replacements.
- The chipper used for tree maintenance and clean-up is now a retired County asset and no longer available for use.
- Trees are heavily impacted by both invasive plant and animal species.
- Winds tend to cause blizzard like conditions and major snow drifts. Additionally, the windward side of ridges, which border the valley in the Town, experience heavy snow accumulations and increased snow drifts.
- Ash and Maple trees have been dying rapidly; maple trees likely due to age, ash trees due to the ash borer.

### 9.3.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The Town of Columbia did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

#### Additional Mitigation Efforts

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The Town of Columbia identified the following mitigation efforts completed since 2017:

- Multiple culverts have been replaced and increased in size by at minimum 20%.



- An inventory of the location of culverts has been in progress since the replacements have begun.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Columbia participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.3-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature		X		X		X	X		X	X
Drought		X		X		X	X		X	X
Flood	X	X		X	X	X	X	X	X	X
Severe Storm	X	X	X	X	X	X	X	X	X	X
Severe Winter Storm	X	X	X	X	X	X	X	X	X	X
Wildfire	X	X		X	X	X	X		X	X
Infestation			X	X			X	X		
Dam Failure	X	X		X	X	X	X		X	X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.3-16).

The table below summarizes the specific mitigation initiatives the Town of Columbia would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.3-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Columbia-001	Develop Tracking System for Development Permits	1, 2, 3, 4	Flood, Wildfire	<p><b>Problem:</b> The town does not currently track development permits by hazard area.</p>	No	No	1 year	Highway Department / Floodplain Administrator	Low	Medium	Local Funds	Medium	LPR	PR
				<p><b>Solution:</b> Develop a tracking system for development permits, including for permits located in the SFHA and WUI.</p>										
2023-Columbia-002	Increase NFIP Capabilities	1, 2, 3, 4	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p>	No	No	1 year	Highway Department / Floodplain Administrator	Low	Medium	Local Funds	Medium	LPR	PR
				<p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Columbia-003	Outreach/education for all hazards	2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Residents may not be aware how to respond, prepare, and protect themselves and their property from hazards.</p> <p><b>Solution:</b> The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The town will provide educational materials on the town website on hazard risk</p>	No	No	3 years	Town Council, Highway Department	Low	High	BRIC, Local Funds	High	EAP	PI, PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-Columbia-004	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	2 to 3 years	Highway Department / Floodplain Administrator	Medium	Medium	BRIC, HMGP, EMPG	Medium	LPR	PR
2023-Columbia-005	Emergency Generators for Critical Facilities	1	Dam Failure, Drought, Extreme Temperature,	<b>Problem:</b> The generators being used as for emergencies	Yes	Yes	2 to 3 years	Highway Department	Medium	High	BRIC, HMGP	High	SIP	ES, SP, DP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Flood, Severe Storm, Severe Winter Storm, Wildfire	<p>at the Town Hall/Highway Facility are undersized, antiquated, and not the correct type of generator to be utilized as an emergency generator.</p> <p><b>Solution:</b> Identify, purchase, and install the correctly sized emergency generator at the Town Hall/Highway Facility.</p>										
2023-Columbia-006	Culvert Replacement and Upgrade	1, 3	Flood	<p><b>Problem:</b> Most culverts in the Town are undersized.</p> <p><b>Solution:</b> Replace the undersized culverts with new culverts at least 20% above current capacity.</p>	No	Yes	5 years	Highway Department	High	High	BRIC, HMGP, BRIDGE NY	High	SIP	SP, PP, NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Columbia-007	Tree Maintenance Grant Application	1, 3, 4	Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> There is limited manpower to keep up with the maintenance and removal of dying trees.</p> <p><b>Solution:</b> Research the feasibility of submitting an application for the Urban and Community Forestry Grant to assist with tree maintenance.</p>	No	No	2 to 3 years	Highway Department	Medium	Medium	Urban and Community Forestry Grant	High	NSP	NR
2023-Columbia-008	Tree Health Initiative	1, 3, 4	Infestation	<p><b>Problem:</b> Ash and Maple trees are rapidly dying in the Town.</p> <p><b>Solution:</b> With Herkimer County Business and Agriculture, New York Department of Agriculture and Markets, and New York</p>	No	No	3 years	Highway Department	Low	Medium	Invasive Species Grant Program	Medium	NSP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Department of Environmental Conservation, develop an initiative to mitigate the damages to trees from invasive plants and animals.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program
- EMPG Emergency Management Performance Grant

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP)—These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.



- Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.3-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Organizations	Total	High / Medium / Low
2023-Columbia-001	Develop Tracking System for Development Permits	0	0	1	1	0	1	1	0	0	1	1	1	0	0	7	Medium
2023-Columbia-002	Increase NFIP Capabilities	0	0	1	1	0	1	1	0	0	1	0	1	0	0	6	Medium
2023-Columbia-003	Outreach/education for all hazards	1	1	1	1	1	1	0	0	0	1	1	1	0	1	10	High
2023-Columbia-004	Develop Substantial Damage Response Plan	0	0	1	1	0	1	0	0	0	0	1	1	0	0	5	Medium
2023-Columbia-005	Emergency Generators for Critical Facilities	1	1	1	1	1	1	0	-1	0	0	1	1	1	1	9	High
2023-Columbia-006	Culvert Replacement and Upgrade	0	1	1	1	1	1	0	1	0	1	0	1	1	1	10	High
2023-Columbia-007	Tree Maintenance Grant Application	0	1	1	1	1	1	0	1	0	0	1	1	0	1	9	High
2023-Columbia-008	Tree Health Initiative	0	1	1	1	0	1	0	1	0	0	0	1	0	1	7	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.4 TOWN OF DANUBE

This section presents the jurisdictional annex for the Town of Danube that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Danube’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Danube did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.4.1 Hazard Mitigation Planning Team

The Town of Danube identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Supervisor’s office and the highway department. The Town Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.4-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: R Address: Phone Number: Email:	Name/Title: Address: Phone Number: Email:
NFIP Floodplain Administrator	



Primary Point of Contact	Alternate Point of Contact
Name/Title: Address: Phone Number: Email:	

## 9.4.2 Municipal Profile

The Town of Danube is in the heart of the Mohawk Valley, situated between the Catskills and the Adirondacks. It is a farming community with tranquil beauty located just minutes away from Historic Cooperstown. The Town was organized in 1812 from part of the Town of Warren.

According to the U.S. Census, the 2020 population for the Town of Danube was 1,569, which is less than a 1 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 5 percent of the population is 5 years of age or younger and 15.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Danube has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 10.61% of the population does not have a high school diploma
- 11.97% of the population has a disability
- 8.38% of households do not have a vehicle
- 15.68% of the population is living below the poverty level
- 4.76% of the population is unemployed

## 9.4.3 Jurisdictional Capability Assessment and Integration

The Town of Danube performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.



For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Danube to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Danube. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.4-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Danube has adopted the New York State Uniform Fire Prevention and Building Codes. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.				
<b>Zoning/Land Use Code</b>			Local	Code Enforcement Officer



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Specifies the allowable uses of land within each district, the regulations pertaining to the development and use of the land, and buildings are uniform for each class or kind of building.  
 Zoning keeps inappropriate development away from hazard-prone areas and designates areas for conservation, public use, or agriculture. Communities can designate areas as "open space" to reduce the effect of flooding by allowing spaces for water to flow unimpeded.

Consider the following:

- Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use? No, but structures are not permitted to be built in the floodplain.
- Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains? Yes.
- Does it contain natural overlay zones that set conditions? No.
- Does the ordinance require developers to take additional actions to mitigate natural hazard risk? Yes.
- Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? No.

<b>Subdivision Ordinance</b>			Local	
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Manage growth and development in accordance with plans, policies, and resolutions of the Town. Provide for the preservation of natural resources, sensitive natural areas, and natural features. Provide safety from fire, flood, and other danger. Subdivision ordinances set construction and location standards for subdivision layout and infrastructure and contain standards for such things as stormwater management, erosion control, and subdivision size. Localized flooding is often a result of building residential or commercial developments without adequate stormwater drainage. These regulations have the potential to reduce the impact of localized flooding on a community.

Consider the following:

- Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas? Yes
- Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources? Yes.
- Do the regulations allow density transfers where hazard areas exist? No, has not been discussed.

<b>Site Plan Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Stormwater Management Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>	Yes		Federal, State, County and Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Regulations designed to promote the public health, safety, and general welfare and to minimize public and private loss due to flooding.				
<b>Wellhead Protection</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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<b>Climate Change Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Other</b>	-	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

**Planning Documents**

<b>Comprehensive Plan</b>	Yes		Local	
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Consider the following:

- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards? Yes.
- Does the future land use map clearly identify natural hazard areas? No.
- Do the land use policies discourage development or redevelopment with natural hazard areas? Yes.
- Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas? Yes.

<b>Capital Improvement Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Capital improvement plans identify where major public expenditures will be made over the next five to ten years. They can secure hazard-prone areas for low-risk uses; strengthen, replace, or realign roads and utilities; and prescribe standards for the design and construction of new facilities. In addition, they can reduce the level of public funding spent on construction in hazard-prone areas.

<b>Disaster Debris Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Stormwater Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Open Space Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Urban Water Management Plan</b>	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Habitat Conservation Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Economic Development Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Community Wildfire Protection Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Community Forest Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Transportation Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Agriculture Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Climate Action/ Resiliency/Sustainability Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Tourism Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Business/ Downtown Development Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Other (for example NYRCR, etc.)</b>	-	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

**Response/Recovery Planning**



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Comprehensive Emergency Management Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Continuity of Operations Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Danube to oversee and track development.

**Table 9.4-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>		



Indicate if your jurisdiction implements the following	Yes/No	Comment:
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>		
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>		
Describe the level of build-out in your jurisdiction.		

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Danube and their current responsibilities that contribute to hazard mitigation.

**Table 9.4-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planning Board	Yes	
Zoning Board of Adjustment	Yes	
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	
Construction/Building/Code Enforcement Department	Yes	
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	
Mutual aid agreements	Yes	
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	Consider the following: Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Danube’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

## Fiscal Capability

The table below summarizes financial resources available to the Town of Danube.

**Table 9.4-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Danube.

**Table 9.4-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Danube.

**Table 9.4-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.4-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Extreme Temperature	
Drought	
Flood	
Severe Storm	
Severe Winter Storm	
Wildfire	
Infestation	
Dam Failure	
Disease Outbreak	

The Town of Danube indicated that the adaptive capacity for the Flood hazard should be ‘Moderate’ instead of ‘Strong’. While there are good portions of the Town which are in the SFHA, there have not been many events which needed a response. The resources available would assist in a response, but external assistance may be needed.

The Town of Danube indicated that the adaptive capacity for the Severe Winter Storm hazard should be ‘Strong’ instead of ‘Moderate’. The Highway Department is well equipped, familiar with the hazard, and can identify where the most assistance will be needed.

The Town of Danube indicated that the adaptive capacity for the Wildfire hazard should be ‘Moderate’ instead of ‘Strong’. While there are forested areas of the Town, these areas are State



forest and would warrant a State response, not Town. Additionally, the Town, although it has its own fire department, may rely on external assistance for several fire-related occurrences.

### 9.4.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Danube.

**Table 9.4-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Danube	2	2	\$10,372	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Danube.

**Table 9.4-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	
How do you make Substantial Damage determinations?	



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	
<p>What local department is responsible for floodplain management?</p>	
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	
<p>Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)</p>	
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	
<p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p>	
<p>What is the local law number or municipal code of your flood damage prevention ordinance?</p> <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	
<p>Does your floodplain management program meet or exceed minimum requirements?</p> <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	
<p>Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?</p>	



NFIP Topic	Comments
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	

### 9.4.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.4-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.4-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family												
Multi-Family												
Other (commercial, mixed-use, etc.)												
<b>Total New Construction Permits Issued</b>												
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.4.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Danube’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

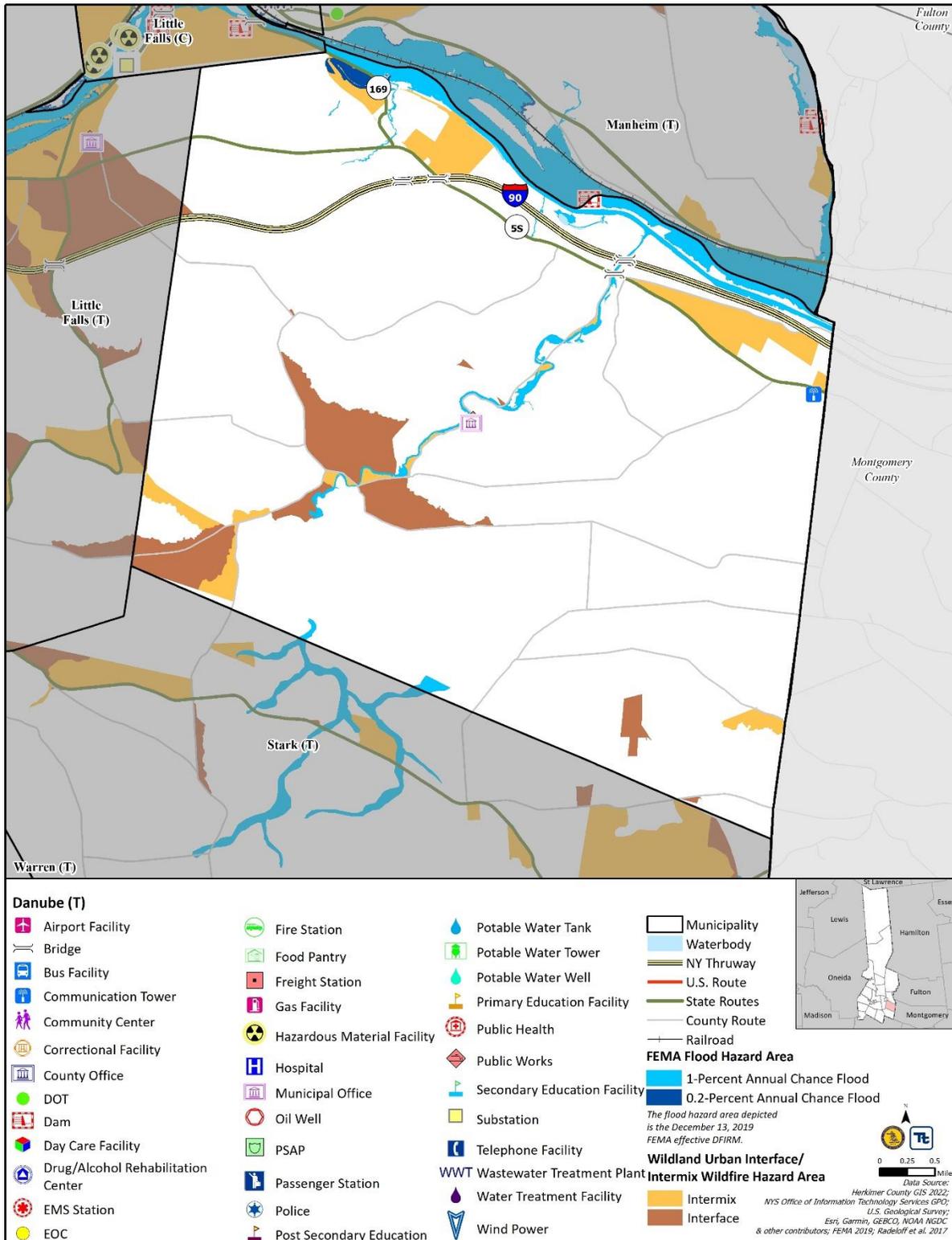
Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are



adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Danube has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.4-1. Town of Danube Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Danube’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.4-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.4-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	
Winter 2019–2020	Numerous Ice Events	No	Almost weekly ice events throughout the winter	
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	

Notes:



- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Danube’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Danube. The Town of Danube reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- None identified.

**Table 9.4-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	
Drought	
Flood	
Severe Storm	
Severe Winter Storm	
Wildfire	
Infestation	
Dam Failure	
Disease Outbreak	

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.4-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		

Source: Herkimer County, 2023

### Identified Issues

After review of the Town of Danube’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Danube identified the following vulnerabilities within their community:

- None identified.

### 9.4.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Town of Danube did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.



### Additional Mitigation Efforts

The Town of Danube identified the following mitigation efforts completed since 2017:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Danube participated in a mitigation action workshop in April 2023 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.4-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature										
Drought										
Flood										
Severe Storm										
Severe Winter Storm										
Wildfire										
Infestation										
Dam Failure										
Disease Outbreak										

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.4-16).

The table below summarizes the specific mitigation initiatives the Town of Danube would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.





*Mitigation Category:*

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

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.4-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.5 VILLAGE OF DOLGEVILLE

This section presents the jurisdictional annex for the Village of Dolgeville that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Dolgeville’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.5.1 Hazard Mitigation Planning Team

The Village of Dolgeville identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the Office of the Mayor, Engineering, and the Department of Public Works. The Mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.5-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Mary E. Puznowski – Mayor Address: Phone Number: 315-867-9020 Email: <a href="mailto:mayorpuznowski@gmail.com">mayorpuznowski@gmail.com</a>	Name/Title: David Jaquay – DPW Superintendent Address: Phone Number: 315-717-1483 Email: <a href="mailto:dpw@villageofdolgeville.org">dpw@villageofdolgeville.org</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Philip Green – Code Enforcement Officer Address: Phone Number: 315-534-2232 Email: <a href="mailto:pgreen@cityoflittelfalls.net">pgreen@cityoflittelfalls.net</a>	
<b>Additional Contributors</b>	
Name/Title: Chester P. Szymanski III, P.E., Village Engineer	



Primary Point of Contact	Alternate Point of Contact
Method of Participation: Provided hazard event history, completed capability assessment, NFIP worksheet, and mitigation action review.	
Name/Title: Philip Green, Codes Enforcement Officer	
Method of Participation: Completed the building permit worksheet.	
Name/Title:	
Method of Participation:	

### 9.5.2 Municipal Profile

Most of the Village is located within the Town of Dolgeville in southern Herkimer County, although 0.3 square miles lies within the Town of Oppenheimer in Fulton County. The Town of Salisbury is located to the north of Dolgeville, and the Town of Manheim is located to the south. The City and Town of Little Falls are located south of Manheim. Dolgeville is located not far from the base of the Adirondack Mountains, which stretch across northern Herkimer County. Dolgeville is 15 miles north of Interstate 90, the main east-west thruway running from Albany in eastern New York to Buffalo at the western terminus.

According to the U.S. Census, the 2020 population for the Village of Dolgeville was 2,042, a 8.03 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 7.4 percent of the population is 5 years of age or younger and 22.8 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Village of Dolgeville has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 7.71% of the population does not have a high school diploma
- 13.95% of the population has a disability
- 3.57% of households do not have a vehicle
- 9.84% of the population is living below the poverty level
- 2.23% of the population is unemployed

### 9.5.3 Jurisdictional Capability Assessment and Integration

The Village of Dolgeville performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.



- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Dolgeville to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Dolgeville. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.5-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Codes Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Village of Dolgeville has adopted the New York State Uniform Fire Prevention and Building Code. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.				
<b>Zoning/Land Use Code</b>	Yes	Local Law #4-2022	Local	Village Trustee
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Local Zoning Law of the Village is to promote health, safety, and welfare of all residents in the Village.				
<b>Subdivision Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Site Plan Ordinance</b>	Yes	Zoning Law, February 28, 2000	Local and County	Zoning Board
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	Local Law #1 of 1983	Federal, State, County and Local	Village Engineer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>The purpose of this chapter is to promote the public health, safety, and welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ul style="list-style-type: none"> <li>Regulate uses which are dangerous to health, safety, and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities</li> <li>Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction</li> <li>Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters</li> <li>Control filling, grading, dredging and other development which may increase erosion or flood damages</li> <li>Regulate the construction of flood barriers which will unnaturally divert floodwaters, or which may increase flood hazards to other lands</li> <li>Qualify and maintain for participation in the National Flood Insurance Program</li> </ul>				
<b>Wellhead Protection</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Change Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>	No	-	-	-
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	Yes	Village of Dolgeville Comprehensive Plan	Local	Village Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
The Village Comprehensive Plan provides an overarching framework through which future planning and community development can be managed.				
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>	Yes	Herkimer County Emergency Management Plan	Local, County	DPW
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.				
<b>Continuity of Operations Plan</b>	Yes	Continuity of Operations	Local	DPW
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The COOP identifies how the Village of Dolgeville will maintain its operations in the event of an emergency.				
<b>Substantial Damage Response Plan</b>	No	-	-	-
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	-	-
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
<b>Public Health Plan</b>	No	-	-	-
<b>Other</b>	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Dolgeville to oversee and track development.

**Table 9.5-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Issued by the Codes Enforcement Officer and may be reviewed by the Planning Board
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	Yes	Codes Enforcement Officer
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-



Indicate if your jurisdiction implements the following	Yes/No	Comment:
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	Dense infill with large buildable areas in the northern part of the Village and the extents.

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Dolgeville and their current responsibilities that contribute to hazard mitigation.

**Table 9.5-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board meets the second Tuesday of the month at Village Hall. There are 5 members on the Board.
Zoning Board of Adjustment	Yes	The Zoning Board meets as needed at Village Hall. There are 5 members on the Board.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Department of Public Works is comprised of the Village Garage, Water Treatment Plant, and Waste Water Treatment staff. The DPW is responsible for wastewater treatment and collection system, water treatment, watershed, and distribution system, storm sewer and creek maintenance, and road maintenance.
Construction/Building/Code Enforcement Department	Yes	<p>The Code Enforcement Officer enforces all local zoning and planning laws issues building permits, makes periodic and final inspections, and will issue a certificate of compliance or a certificate of occupancy when work is completed to code.</p> <p>The Code Enforcement Officer also oversees the Villages floodplain management with the assistance of the Village Engineer.</p>
Emergency Management/Public Safety Department	Yes	Police and Fire Departments
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	The Village uses the school's disaster warning program
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	We do not have a written, formalized program, but do investigate problematic areas as needed and perform maintenance as needed.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	The Village Engineer is knowledgeable and capable to perform related analysis.
Engineers or professionals trained in building or infrastructure construction practices	Yes	The Village Engineer is trained in building and infrastructure construction practices, having over 20 years of experience in the profession.
Planners or engineers with an understanding of natural hazards	Yes	The Fire, Code Enforcement and Public Works department include professional staff with an understanding of natural and manmade hazards
Staff with expertise or training in benefit/cost analysis	Yes	This also falls under the purview of the Village Engineer.
Professionals trained in conducting damage assessments	Yes	This also falls under the purview of the Village Engineer.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	The Village Engineer has access to GIS information but there is no local system. Information is sourced from Herkimer-Oneida Counties Comprehensive Planning Program.
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	Retired Fire Chief
Grant writer(s)	Yes	The Village Engineer coordinates subcontracted grant writing work and also participates in grant writing and provides source information for grant writing.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of Dolgeville’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Village of Dolgeville.



**Table 9.5-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes (Water / Sewer)
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Dolgeville.

**Table 9.5-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Dolgeville.



**Table 9.5-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	5/5x	2021
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.5-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Infestation	Moderate
Severe Storm	Moderate
Severe Winter Storm	Moderate
Wildfire	Moderate

### 9.5.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.



## National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Dolgeville.

**Table 9.5-9. NFIP Summary**

Municipality	# Policies	# Claims	# Policies	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Dolgeville	19	57	\$600,375	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

## Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Dolgeville.

**Table 9.5-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	<p>Areas along Beaver Brook, Thresher Brook, and Fink Creek are subject to flooding events. Areas along North Main Street, Van Buren Street, and Dolge Avenue are subject to severe flood and ice jam events.</p> <p>We do not maintain a list of properties that have been damaged by flooding.</p>
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	The Village does not keep a list of property owners interested in flood mitigation.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	<p>Yes:</p> <p>Case Number 22-02-0010S Project Name RM FY20 NY - Herkimer County, NY (Beaver Brook LOMR)</p> <p>Case Number 17-02-0791S Project Name REG - Herkimer County PMR/Revised Prelim CW - FY16</p>



NFIP Topic	Comments
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	The Codes Enforcement Officer would make this determination. There were no determinations made in the recent flood events.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None, but we are working on an acquisition project which includes 20 homes on North Main Street.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No, but they are currently being updated for Beaver Brook. Additional updates are needed for Thresher Brook and Fink Creek.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Enforcement Officer with the assistance of the Village Engineer.
Are any certified floodplain managers on staff in your jurisdiction?	No, though the Village Engineer is a New York State Licensed Professional Engineer.
Do you have access to resources to determine possible future flooding conditions from climate change?	No.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	At this time, we perform only permit review and those tasks required by our local ordinance.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	This would be determined with the assistance of the Codes Enforcement Officer.
What are the barriers to running an effective NFIP program in the community, if any?	None.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Yes, however the NYSDEC representatives attending the Community Assistance Visit are waiting on the revised flood mapping before issuing a letter identifying their parcels of concern.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	June 16, 2022
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law #1 of 1983. There have not been any updates.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	The program meets the requirements.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For	No additional ordinances, plans, or programs are available.



NFIP Topic	Comments
instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	There is no plan to join at this time.

### 9.5.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.5-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.5-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	1	0	0	0	0	0	1	0	1	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0		0	0
<b>Total New Construction Permits Issued</b>	1	0	0	0	0	0	1	0	1	0	0	0
Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development					
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.5.6 Jurisdictional Risk Assessment

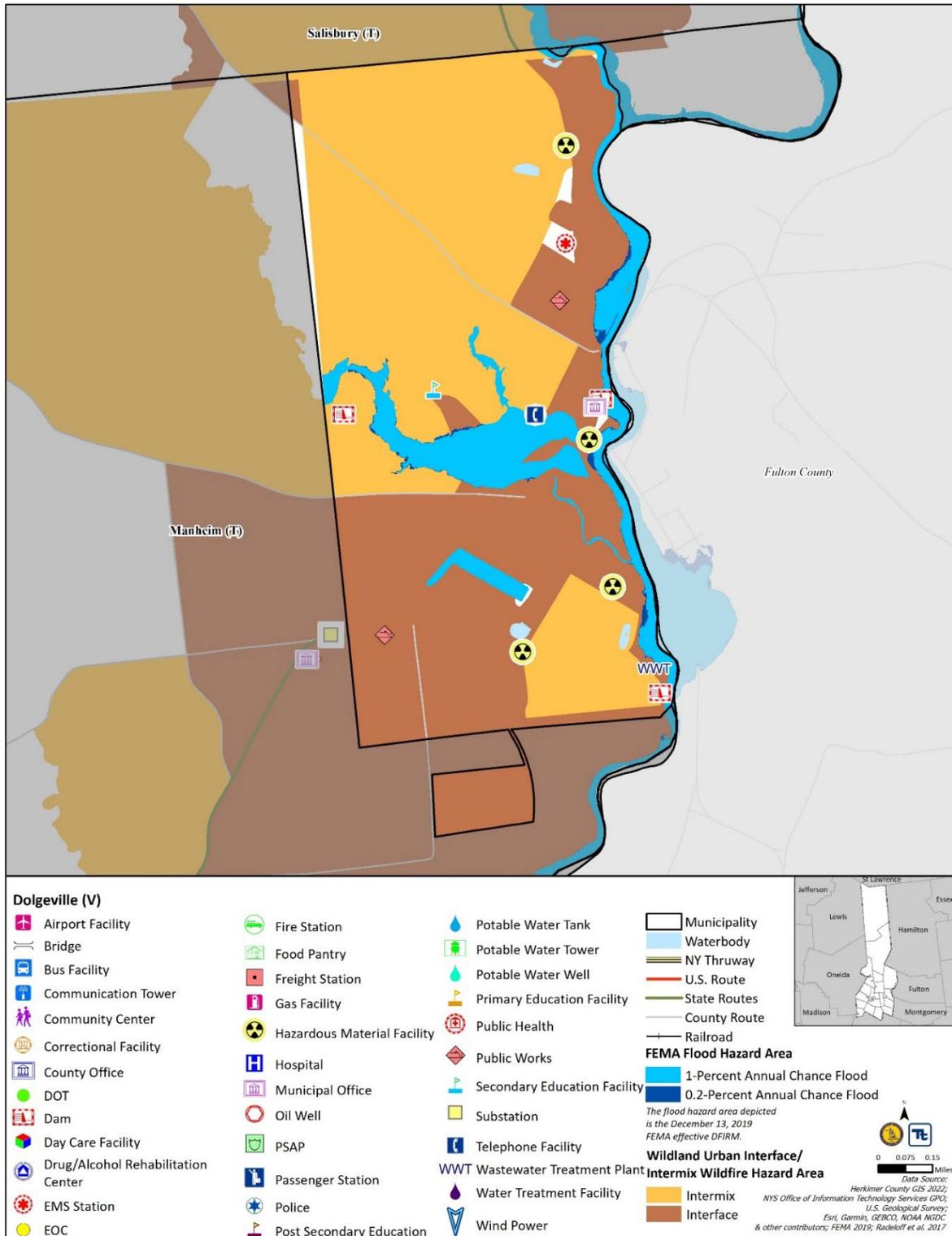
The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Dolgeville’s risk assessment results and data used to determine the hazard ranking discussed later in this section.



Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Dolgeville has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.5-1. Village of Dolgeville Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Dolgeville’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.5-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.5-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Localized flooding of roads and flow over the capacity of stream conduits through the Village.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	The Village of Dolgeville has \$12.5M of FEMA projects (damages) either pending or obligated from this storm event. Additional losses and negative impacts (increase in future risk) occurred during this event, as well.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Resulted in lost work hours and reduced Village services through the pandemic in 2020 and 2021.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers	Localized flooding of roads and flow over the capacity of stream conduits through the Village.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			were without power at the height of the storm.	
February 18 and 19, 2022	Ice Jam	No	Ice buildup upstream of the Dolgeville Dam caused flooding and severe erosion along Van Buren Street and Dolge Avenue.	Significant erosion along both streets threatening the utilities in the street, damaging homes, and threatening the Village Wastewater Treatment Plant at the southern end of Van Buren Street.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Dolgeville’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Dolgeville. The Village of Dolgeville reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- The Village agreed that the calculated rankings accurately reflected the risk posed to the community.
- The Village noted there has been an increase in frequency and damages from flooding events.



- The Village indicated there has been an increased frequency in severe storm events.
- The Village noted that dam inspections have shown limited issues.

**Table 9.5-13. Hazard Ranking Input**

Hazard	Rank
Dam Failure	Low
Disease Outbreak	High
Drought	Low
Extreme Temperature	Medium
Flood	High
Infestation	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.5-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
No critical facilities identified in delineated flood hazard areas.					

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Village of Dolgeville:

- Beaver Brook Site #1 Dam



## Identified Issues

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After review of the Village of Dolgeville’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Dolgeville identified the following vulnerabilities within their community:

- Localized flooding in the areas of Van Buren Street, Dolge Ave, and North Main Street\*
- Need for a stream gage and weather monitoring program to provide more accurate data and warnings\*
- Erosion along Van Buren and Dolge Avenue due to ice dam flooding.
- Village Hall, a critical facility which includes the police station, does not have any source of back-up power.
- Beaver Brook Culvert; Ransom Street Culvert; Thresher Brook Culvert; Howard Street Extension Bridge; Fink Creek Culvert; and Dolge Avenue Culvert are all in need of replacement or improvements.
- There are repetitive loss properties on North Main Street.
- Flooding and erosion is a significant concern along Van Buren Street and at the Wastewater Treatment Plant.
- The Village does not have a stormwater ordinance.
- Equipment for emergency response is not always available.
- There is limited staff with emergency response and recovery training.
- Localized flooding of roads and flow over the capacity of stream conduits through the Village.

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.5.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.5-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	N/A	
VOD-001	Update Village Flood Maps	Flood	Village of Dolgeville	Village Flood Maps do not accurately reflect improvements made the smaller streams throughout the Village. LOMRs must be created for Thresher Brook and Fink Creek, at a minimum.	In Progress; A LOMR is being created for Beaver Brook by FEMA at this time. The remainder of the streams need to be addressed.	Level of Protection	N/A	Funding is needed to complete the next steps for this project.
						Damages Avoided; Evidence of Success	N/A	
						Cost	N/A	
VOD-002	Replace Dolgeville Mill Bridge	Flood, ice jam	Department of Public Works	Bridge is subject to floods and ice jams, causing unsafe crossing conditions. Elevate bridge so it would not be subject to closure.	Discontinue	Level of Protection	N/A	Discontinued – bridge is now privately owned.
						Damages Avoided; Evidence of Success	N/A	
						Cost	N/A	
VOD-003	Replace Highway 29 Bridge	Flood, ice jam	NYSDOT	The Route 29 Bridge is the cause of increased upstream flood elevations and increased bank erosion. Realignment of the bridge is needed.	NYSDOT has started the design of this project in Summer 2022.	Level of Protection	N/A	NYSDOT is undertaking this project.
						Damages Avoided; Evidence of Success	N/A	
						Cost	N/A	
VOD-004	Develop an Emergency Evacuation Plan	All Hazards	Emergency Management Director	An emergency evacuation plan is needed for the community.	No Progress.	Level of Protection	N/A	Funding is needed to complete the next steps for this project.
						Damages Avoided; Evidence of Success	N/A	
						Cost	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Evidence of Success		
VOD-005	Repair of Reservoir Dam Spillway	Flooding	Village of Dolgeville	Failure of concrete and stone approach to spillway at reservoir. Repairs are needed.	In Progress; project is permitted and will be started in Spring 2023.	Cost	N/A	Project will continue when the weather is adequate for construction.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-006	Stabilization of Van Buren Street Embankment and Flood Protection	Flood and Ice Jam Resiliency	Village of Dolgeville	Ice buildup upstream of the Dolgeville Dam in February 2022 caused flooding and severe erosion along Van Buren Street and Dolge Avenue. Erosion along both streets threatens the utilities in the street, increased chance of further damage to homes, and further threatening the Village Wastewater Treatment Plant at the southern end of Van Buren Street. There are multiple solutions to this problem:	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	



Section 9.5. Village of Dolgeville

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				dam removal, flood wall construction, embankment stabilization.				
VOD-007	Removal of the Dam at Dolgeville Mill	Flooding	Privately Owned	The Dam at Dolgeville Mill was identified as a problematic structure in the East Canada Creek contributing to sediment retention, ice jams, and increased upstream flood water elevations. Removal of the dam must be evaluated..	No Progress.	Cost	N/A	Funding and cooperation of the owner is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-008	Removal of the Dolgeville Dam at Van Buren Street Extension	Sediment Capture, Ice Jams, Flooding	Village of Dolgeville	The Dolgeville Dam was identified as a problematic structure in the East Canada Creek contributing to sediment retention, ice jams, and increased upstream flood water elevations. Removal of the dam must be evaluated..	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-009	Embankment Stabilization Upstream of	Sedimentation; Flooding, Ice Jams	DEC	Highly erodible material upstream of the Route 29	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps
	Route 29 Bridge			Bridge contributes to sedimentation downstream and above the Dolgeville Dam resulting in reduced hydraulic capacity within East Canada Creek. A study is needed to determine the extent and solutions for this problem.		Damages Avoided; Evidence of Success	N/A	
VOD-010	North Main Street Levee	Flooding	DPW	A levee protecting portions of North Main Street failed during the 2019 flood event. The levee was repaired as an emergency – and the repair was temporary. This will need to be considered as structure acquisition happens under another project and as development occurs in the area.	No Progress.	Cost	N/A	Funding and planning is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-011	Fink Creek Culvert Repair	Flooding		The Fink Creek culvert is in very poor condition and	In Progress, partially.	Cost	N/A	Some portions of the culvert may be replaced or upgraded as part of an active FEMA project for
						Level of Protection	N/A	



Section 9.5. Village of Dolgeville

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	and Improvements		Village of Dolgeville / ?	portions of the conduit are undersized. An evaluation, repair, and replacement project is needed.		Damages Avoided; Evidence of Success	N/A	the area resulting from the 2019 floods if the funds are obligated.  Funding is needed to complete the next steps for this project.
VOD-012	Dolge Avenue / Van Buren Street Sanitary Sewer Siphon Repairs	I&l at WWTP	Village of Dolgeville	A sanitary sewer siphon from Dolge Avenue to Van Buren Street, below the East Canada Creek, appears to have been damaged during the 2019 floods. A preliminary study of the problem was completed. Further investigation or replacement / abandonment is needed.	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-013	Dolge Avenue Flood Protection	Flooding	Village of Dolgeville	Ice buildup upstream of the Dolgeville Dam in February 2022 caused flooding and severe erosion along Van Buren Street and Dolge Avenue. Erosion along both streets threatens the utilities in the	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				street, increased chance of further damage to homes, and further threatening the Village Wastewater Treatment Plant at the southern end of Van Buren Street. There are multiple solutions to this problem: dam removal, flood wall construction, embankment stabilization.				
VOD-014	Flood Protection or Relocation of the WWTP	Flooding / Resiliency / Critical Facility	Village of Dolgeville	Changes to stream morphology (due to sediment retention) and increases in storm intensity, the WWTP is at risk of severe damage during future flooding and ice jam events. Protection of the facility of relocation of critical components is recommended.	No Progress.	Cost	N/A	Funding is needed to complete the next steps for this project.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
VOD-015	Emergency Generators	Continuation of emergency service and	Village of Dolgeville	Generators are needed for Village Hall (which	No Progress.	Cost	N/A	
						Level of Protection	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	for Critical Facilities	critical services during hazard events		includes the Police Station), the Water Treatment Plant, and the DPW Garage		Damages Avoided; Evidence of Success	N/A	Funding is needed to complete the next steps for this project.
VOD-016	North Main Street Structure Acquisition and Floodplain Park	Flooding	Village of Dolgeville	A Hazard Grant Mitigation Program is currently under way to acquire and remove 20 homes between North Main Street and East Canada Creek that were damaged during the 2019 flooding event. A \$100,000 NYSDEC grant has been received for park / floodplain planning in the area.	Ongoing.	Cost Level of Protection Damages Avoided; Evidence of Success	N/A N/A N/A	Funding will be needed to construct the park after the homes are removed, land acquired, and park is planned.
VOD-017	2 <sup>nd</sup> Street Drainage Improvements	Flooding	Village of Dolgeville	Existing drainage on 2 <sup>nd</sup> Street is inadequately sized to accept the runoff from contributing steeply sloping watershed. Rerouting and/or resizing of the drainage system is needed.	No Progress.	Cost Level of Protection Damages Avoided; Evidence of Success Level of Protection Damages Avoided; Evidence of Success	N/A N/A N/A N/A N/A	Funding is needed to complete the next steps for this project.



## Additional Mitigation Efforts

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The Village of Dolgeville identified the following mitigation efforts completed since 2017 that were not identified in the 2017 HMP.:

- An emergency back-up generator has been installed at the Water Treatment Plant.
- Structures along the East Canada Creek have been acquired to be removed from the floodplain and reduce flood risk.
- Meetings with the Army Corp of Engineers have occurred to discuss flood risk reduction projects.
- There have been discussions with FEMA to update the Flood Maps to include the flood control dam located at Beaver Brook and Fink Creek.
- The Village applied for and received BRIDGE NY funding to repair the bridge located at Dolge Avenue and culverts by the Beaver and Thresher Brooks.
- Applied for and received a \$9 million from the New York Environmental Facilities Corporation to replace sewer lines in the Village.
- Applied for and received \$2.2 million from the first round of the NY Forward grant to support downtown revitalization initiatives in the Village.

Since the adoption of the County’s first HMP, the Village of Dolgeville has made significant mitigation progress in the following areas:

- Implementing initiatives to support flood management and reduce flood risk.
- Managing grant programs to fund mitigation projects in the Village.
- Supporting continuity of operations by installing an emergency generator at a critical facility.
- Continuing discussions with Federal partners to implement flood risk reduction projects.
- Removing flood-prone properties from the floodplains and areas of localized flooding.

## Proposed Hazard Mitigation Initiatives for the HMP Update

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The Village of participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.



**Table 9.5-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam Failure	X	X	X	X	X	X	X	X	X	X
Disease Outbreak				X			X			
Drought	X	X		X	X		X			X
Extreme Temperature	X	X		X	X		X			X
Flood	X	X	X	X	X	X	X	X	X	X
Infestation				X			X			
Severe Storm	X	X		X	X		X			X
Severe Winter Storm	X	X		X	X		X			X
Wildfire	X	X		X	X		X			X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.5-17).

The table below summarizes the specific mitigation initiatives the Village of Dolgeville would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.5-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Dolgeville-001	Community Outreach	2, 3	Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Infestation, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The public may not be informed of hazard risks and high-hazard areas within the Village.</p> <p><b>Solution:</b> The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural</p>	No	No	3 years	Village Emergency Management	Low	High	BRIC, Capital funds	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				hazards. The village will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-Dolgeville-002	Update Village Flood Maps	1	Flood	<b>Problem:</b> Flood mapping does not adequately address flood risk from Thresher Brook and Fink Creek.	No	No	5 years	FEMA	Low	Medium	FEMA, Capital Funds	Medium	EAP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> Work with FEMA Region II to ensure updates to flood maps adequately address flood risk from Thresher Brook and Fink Creek.</p>										
2023-Dolgeville-003	Increase NFIP Capabilities	1, 2, 3	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining</p>	No	No	1 year	Village NFIP Administrator	Low	Medium	Local Funds	Medium	EAP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				lists of properties damaged by flooding and of property owners who are interested in flood mitigation.										
2023-Dolgeville-004	Develop Substantial Damage Response Plan	1, 3	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	2 to 3 years	Village NFIP Administrator	Low	Medium	BRIC, HMGP, EMPG	Medium	LPR	PR
		1, 3, 5	Flood	<b>Problem:</b> The Route 29	Yes	Yes	5 years	NYSDOT	High	High	BRIC, HMGP,	Medium	SLIP	SLIP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Dolgeville-005	Replace Highway 29 Bridge			<p>Bridge is the cause of increased upstream flood elevations and increased bank erosion.</p> <p><b>Solution:</b> Realign the bridge to improve upstream flood conditions and reduce bank erosion.</p>							BRIDGE NY			
2023-Dolgeville-006	Develop an Emergency Evacuation Plan	1, 3	Dam Failure, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> An emergency evacuation plan is needed for the community.</p> <p><b>Solution:</b> Write an emergency evacuation plan with input from surrounding</p>	No	No	2 to 3 years	Village Emergency Management	Low	High	BRIC, EMPG	Medium	LPR	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				jurisdictions and the County to ensure operational feasibility.										
2023-Dolgeville-007	Repair of Reservoir Dam Spillway	1, 3, 5	Dam Failure, Flood	<p><b>Problem:</b> Failure of concrete and stone approach to spillway at reservoir.</p> <p><b>Solution:</b> Make repairs to the reservoir's spillway.</p>	Yes	Yes	1 to 2 years	Village Engineer	High	High	BRIC, HMGP	High	NSP	PP
2023-Dolgeville-008	Stabilization of Van Buren Street Embankment and Flood Protection	1, 3, 5	Flood	<p><b>Problem:</b> Ice buildup upstream of the Dolgeville Dam in February 2022 caused flooding and severe erosion along Van Buren Street and Dolge Avenue.</p>	Yes	Yes	2 to 3 years	Village Engineer and Public Works	High	High	BRIC, HMGP	High	NSP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>Erosion along both streets threatens the utilities in the street, increased chance of further damage to homes, and further threatening the Village Wastewater Treatment Plant at the southern end of Van Buren Street.</p> <p><b>Solution:</b> In partnership with the Army Corp of Engineers, work to stabilize the embankments to reduce flooding and protect infrastructure and property.</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Dolgeville-009	Removal of the Dam at Dolgeville Mill	1, 3, 5	Dam Failure, Flood	<p><b>Problem:</b> The Dam at Dolgeville Mill was identified as a problematic structure in the East Canada Creek contributing to sediment retention, ice jams, and increased upstream flood water elevations.</p> <p><b>Solution:</b> Working with the private owner, evaluate the feasibility of removing the Dolgeville Mill Dam.</p>	Yes	Yes	5 years	Privately Owned	High	High	BRIC, HMGP	Medium	SIP	PP
2023-Dolgeville-010	Removal of the Dolgeville Dam at Van Buren Street Extension	1, 3, 5	Dam Failure, Flood	<p><b>Problem:</b> The Dolgeville Dam was identified as a problematic structure in</p>	Yes	Yes	5 years	Village Engineer	High	High	BRIC, HMGP	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>the East Canada Creek contributing to sediment retention, ice jams, and increased upstream flood water elevations.</p> <p><b>Solution:</b> Evaluate the feasibility of removing the Dolgeville Dam.</p>										
2023-Dolgeville-011	Embankment Stabilization Upstream of Route 29 Bridge	1, 3, 4, 5	Dam Failure, Flood	<p><b>Problem:</b> Highly erodible material upstream of the Route 29 Bridge contributes to sedimentation downstream and above the Dolgeville Dam resulting in reduced</p>	Yes	Yes	2 to 3 years	DEC	High	High	BRIC, HMGP	High	NSP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>hydraulic capacity within East Canada Creek.</p> <p><b>Solution:</b> Conduct a study to determine the extent and solutions for this problem.</p>										
2023-Dolgeville-012	North Main Street Levee	1, 3, 5	Dam Failure, Flood	<p><b>Problem:</b> A levee protecting portions of North Main Street failed during the 2019 flood event. The levee was repaired as an emergency – and the repair was temporary. This will need to be considered as structure</p>	Yes	Yes	5 years	Village Public Works	High	High	BRIC, HMGP	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>acquisition happens under another project and as development occurs in the area.</p> <p><b>Solution:</b> Continue the acquisition of structures in the vicinity of the failing levee. Consider the acquisition and removal of the levee.</p>										
2023-Dolgeville-013	Fink Creek Culvert Repair and Improvements	1, 3	Flood	<p><b>Problem:</b> The Fink Creek culvert is in very poor condition and portions of the conduit are undersized.</p> <p><b>Solution:</b> Evaluate, repair and/or</p>	No	Yes	1 to 2 years	Village Engineer and Public Works	Medium	High	BRIC, HMGP, BRIDGE NY	Medium	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				replace the culvert.										
2023-Dolgeville-014	Dolge Avenue / Van Buren Street Sanitary Sewer Siphon Repairs	1, 3	Flood	<p><b>Problem:</b> A sanitary sewer siphon from Dolge Avenue to Van Buren Street, below the East Canada Creek, appears to have been damaged during the 2019 floods. A preliminary study of the problem was completed.</p> <p><b>Solution:</b> Investigate whether the sewer siphon can be replaced or if it must be abandoned.</p>	No	Yes	1 to 2 years	Village Engineer and Public Works	Medium	High	BRIC, HMGP, EPG	Medium	SIP	SP
2023-Dolgeville-015	Dolge Avenue Flood Protection	1, 3, 5	Dam Failure, Flood	<b>Problem:</b> Ice buildup upstream of	Yes	Yes	3 to 4 years	Village Engineer and Public Works	High	High	BRIC, HMGP	High	SIP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>the Dolgeville Dam in February 2022 caused flooding and severe erosion along Van Buren Street and Dolge Avenue. Erosion along both streets threatens the utilities in the street, increased chance of further damage to homes, and further threatening the Village Wastewater Treatment Plant at the southern end of Van Buren Street.</p> <p><b>Solution:</b> Evaluate the feasibility of removing the</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				dam, constructing a floodwall, and stabilizing the embankment, then determine which is most cost effective.										
2023-Dolgeville-016	Flood Protection or Relocation of the WWTP	1, 3	Flood	<p><b>Problem:</b> Changes to stream morphology (due to sediment retention) and increases in storm intensity, the WWTP is at risk of severe damage during future flooding and ice jam events.</p> <p><b>Solution:</b> Harden the flood protection at the WWTP</p>	Yes	Yes	5 years	Village Engineer and Public Works	Medium	High	BRIC, HMGP, EPG	Medium	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				and relocate critical components.										
2023-Dolgeville-017	Emergency Generators for Critical Facilities	1	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> Generators are needed for Village Hall (which includes the Police Station), and the DPW Garage.</p> <p><b>Solution:</b> Identify and install the correct size generator for the Village Hall and the DPW Garage.</p>	Yes	No	2 to 3 years	Village Engineer	High	High	BRIC, HMGP	Medium	SIP	ES
2023-Dolgeville-018	North Main Street Structure Acquisition and Floodplain Park	1, 2, 3	Flood	<b>Problem:</b> A Hazard Grant Mitigation Program is currently under way to acquire and remove 20 homes between North Main	No	Yes	3 to 4 years	Village Engineer	High	High	BRIC, HMGP, FMA	Medium	NSP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>Street and East Canada Creek that were damaged during the 2019 flooding event. A \$100,000 NYSDEC grant has been received for park / floodplain planning in the area.</p> <p><b>Solution:</b> Utilize identified funds to acquire and remove 20 homes, followed by creating a park or floodplain planning initiative in the area.</p>										
	2nd Street Drainage	1, 3	Flood	<b>Problem:</b> Existing	No	Yes	1 to 2 years		High	High	BRIC, HMGP	Medium	Structural	Structural



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Dolgeville-019	Improvements			<p>drainage on 2nd Street is inadequately sized to accept the runoff from contributing steeply sloping watershed.</p> <p><b>Solution:</b> Investigate whether it is more feasible to reroute or resize the drainage system.</p>				Village Engineer and Public Works						
2023-Dolgeville-020	Heating and Cooling Center	1, 3	Drought, Extreme Temperature	<p><b>Problem:</b> Dolgeville does not have a specified location for a heating and cooling center in case of emergency.</p> <p><b>Solution:</b> Identify at least one</p>	Yes	Yes	2 to 3 years	Village Emergency Management	Low	High	Capital Funds	Medium	SIP	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				location for a heating and cooling center in the Village for individuals to utilize in cause of extreme temperature or power outages caused by hazards.										
2023-Dolgeville-021	Dredging of the Salisbury Reservoir	1, 3	Drought, Extreme Temperature	<b>Problem:</b> The Village relies on water sourced from one of two reservoirs. Sediment build-up in the back-up reservoir has created a loss of storage for available water; the reservoir can only hold one day of back-up water due to build-up.	Yes	Yes	4 to 5 years	Village Engineer and Public Works	High	High	BRIC, HMGP, WQIP	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Dredge and repair the back-up reservoir to ensure adequate water supply.										

Notes:

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

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
EHP	Environmental Planning and Historic Preservation
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
BRIC	Building Resilient Infrastructure and Communities Program
EMPG	Emergency Management Performance Grant
WQIP	Water Quality Improvement Project Program
EPG	Wastewater Infrastructure Engineering Planning Grant

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP)—These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.



- Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.5-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Dolgeville-001	Community Outreach	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	High
2023-Dolgeville-002	Flood Map Updates	0	1	1	1	1	0	1	0	0	0	0	1	1	0	7	Medium
2023-Dolgeville-003	Increase NFIP Capabilities	0	1	1	1	0	1	1	0	0	1	0	1	0	0	7	Medium
2023-Dolgeville-004	Develop Substantial Damage Response Plan	0	1	1	1	0	1	1	1	0	0	1	1	0	0	8	Medium
2023-Dolgeville-005	Replace Highway 29 Bridge	0	1	1	1	1	0	0	1	0	0	0	1	0	0	6	Medium
2023-Dolgeville-006	Develop an Emergency Evacuation Plan	1	0	1	1	0	1	1	0	0	0	1	1	0	0	7	Medium
2023-Dolgeville-007	Repair of Reservoir Dam Spillway	0	1	1	1	1	1	0	1	0	0	1	1	1	0	9	High
2023-Dolgeville-008	Stabilization of Van Buren Street Embankment and Flood Protection	1	1	1	1	1	1	0	1	0	0	0	1	1	0	9	High
2023-Dolgeville-009	Removal of the Dam at Dolgeville Mill	1	1	1	1	1	0	0	1	0	0	1	1	0	0	8	Medium
2023-Dolgeville-010	Removal of the Dolgeville Dam at Van Buren Street Extension	1	1	1	1	1	1	0	1	0	0	1	1	1	0	10	High
2023-Dolgeville-011	Embankment Stabilization Upstream of Route 29 Bridge	0	1	1	1	1	1	0	1	0	0	1	1	1	0	9	High



Section 9.5. Village of Dolgeville

2023- Dolgeville-012	North Main Street Levee	1	1	1	1	1	1	0	1	0	0	1	1	0	0	9	High
2023- Dolgeville-013	Fink Creek Culvert Repair and Improvements	0	1	1	1	1	1	0	1	0	0	0	1	1	0	8	Medium
2023- Dolgeville-014	Dolge Avenue / Van Buren Street Sanitary Sewer Siphon Repairs	0	1	1	1	1	1	0	1	0	0	0	1	0	0	7	Medium
2023- Dolgeville-015	Dolge Avenue Flood Protection	1	1	1	1	1	1	0	1	0	0	1	1	0	0	9	High
2023- Dolgeville-016	Flood Protection or Relocation of the WWTP	0	1	1	1	1	1	0	1	0	0	0	1	1	0	8	Medium
2023- Dolgeville-017	Emergency Generators for Critical Facilities	1	1	1	1	1	1	0	-1	0	0	1	1	0	0	7	Medium
2023- Dolgeville-018	North Main Street Structure Acquisition and Floodplain Park	1	1	1	1	1	1	0	1	0	0	0	1	0	0	8	Medium
2023- Dolgeville-019	2nd Street Drainage Improvements	0	1	1	1	1	1	0	1	0	0	0	1	1	0	8	Medium
2023- Dolgeville-020	Heating and Cooling Center	1	0	1	1	0	1	1	0	0	1	1	1	0	0	8	Medium
2023- Dolgeville-021	Dredging of the Salisbury Reservoir	0	1	1	1	1	1	0	1	0	0	1	1	1	0	9	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.6

## 9.6 TOWN OF FAIRFIELD

This section presents the jurisdictional annex for the Town of Fairfield that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Fairfield’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Fairfield did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.6.1 Hazard Mitigation Planning Team

The Town of Fairfield identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including XXXX. The XXXX represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.6-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Address: Phone Number: Email:	Name/Title: Address: Phone Number: Email:
NFIP Floodplain Administrator	



Primary Point of Contact	Alternate Point of Contact
Name/Title:	
Address:	
Phone Number:	
Email:	
Additional Contributors	
Name/Title:	
Method of Participation:	
Name/Title:	
Method of Participation:	
Name/Title:	
Method of Participation:	

### 9.6.2 Municipal Profile

According to the U.S. Census, the 2020 population for the Town of Fairfield was XXXX, a X.X percent increase from the 2010 Census. Data from the 2020 U.S. Census indicate that X.X percent of the population is 5 years of age or younger and X.X percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.6.3 Jurisdictional Capability Assessment and Integration

The Town of Fairfield performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Fairfield to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Fairfield. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.6-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>			State and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Zoning/Land Use Code</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>• Does it contain natural overlay zones that set conditions?</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> <li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
<b>Subdivision Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li> <li>• Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li> <li>• Do the regulations allow density transfers where hazard areas exist?</li> </ul>				
<b>Site Plan Ordinance</b>			Local and County	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>			Federal, State, County and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Wellhead Protection</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Change Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?</li> <li>Does the future land use map clearly identify natural hazard areas?</li> <li>Do the land use policies discourage development or redevelopment with natural hazard areas?</li> <li>Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Capital Improvement Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Disaster Debris Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Floodplain Management or Watershed Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Open Space Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Urban Water Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Habitat Conservation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Economic Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Wildfire Protection Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Forest Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Transportation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does the transportation plan limit access to hazard areas?</li> <li>• Is transportation policy used to guide growth to safe locations?</li> <li>• Are transportation systems designed to function under disaster conditions (e.g. evacuation)?</li> </ul>				
<b>Agriculture Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Climate Action/ Resiliency/Sustainability Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Tourism Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other (for example NYRCR, etc.)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?</li> </ul>				
<b>Continuity of Operations Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Fairfield to oversee and track development.

**Table 9.6-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Fairfield and their current responsibilities that contribute to hazard mitigation.

**Table 9.6-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board		
Zoning Board of Adjustment		
Planning Department		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement Department		
Emergency Management/Public Safety Department		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices		
Engineers or professionals trained in building or infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications		
Environmental scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		
Grant writer(s)		<i>Consider the following: Are data and maps from the HMP used to support documentation in grant applications?</i>
Resilience Officer		
Other (this could include stormwater engineer, environmental specialist, etc.)		
<b>Administrative/technical capability self-assessment</b>		
<i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i>		



## Fiscal Capability

The table below summarizes financial resources available to the Town of Fairfield.

**Table 9.6-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Fairfield.

**Table 9.6-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		
Hazard mitigation information available on your website		
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		





Hazard	Adaptive Capacity – Strong/Moderate/Weak
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### 9.6.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Fairfield.

**Table 9.6-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Fairfield	1	0	0	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Fairfield.

**Table 9.6-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	



NFIP Topic	Comments
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	
Are any certified floodplain managers on staff in your jurisdiction?	
Do you have access to resources to determine possible future flooding conditions from climate change?	
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	
What are the barriers to running an effective NFIP program in the community, if any?	
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	



### 9.6.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.6–11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.6-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family												
Multi-Family												
Other (commercial, mixed-use, etc.)												
<b>Total New Construction Permits Issued</b>												
Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development					
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												

SFHA Special Flood Hazard Area (1% flood event)

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

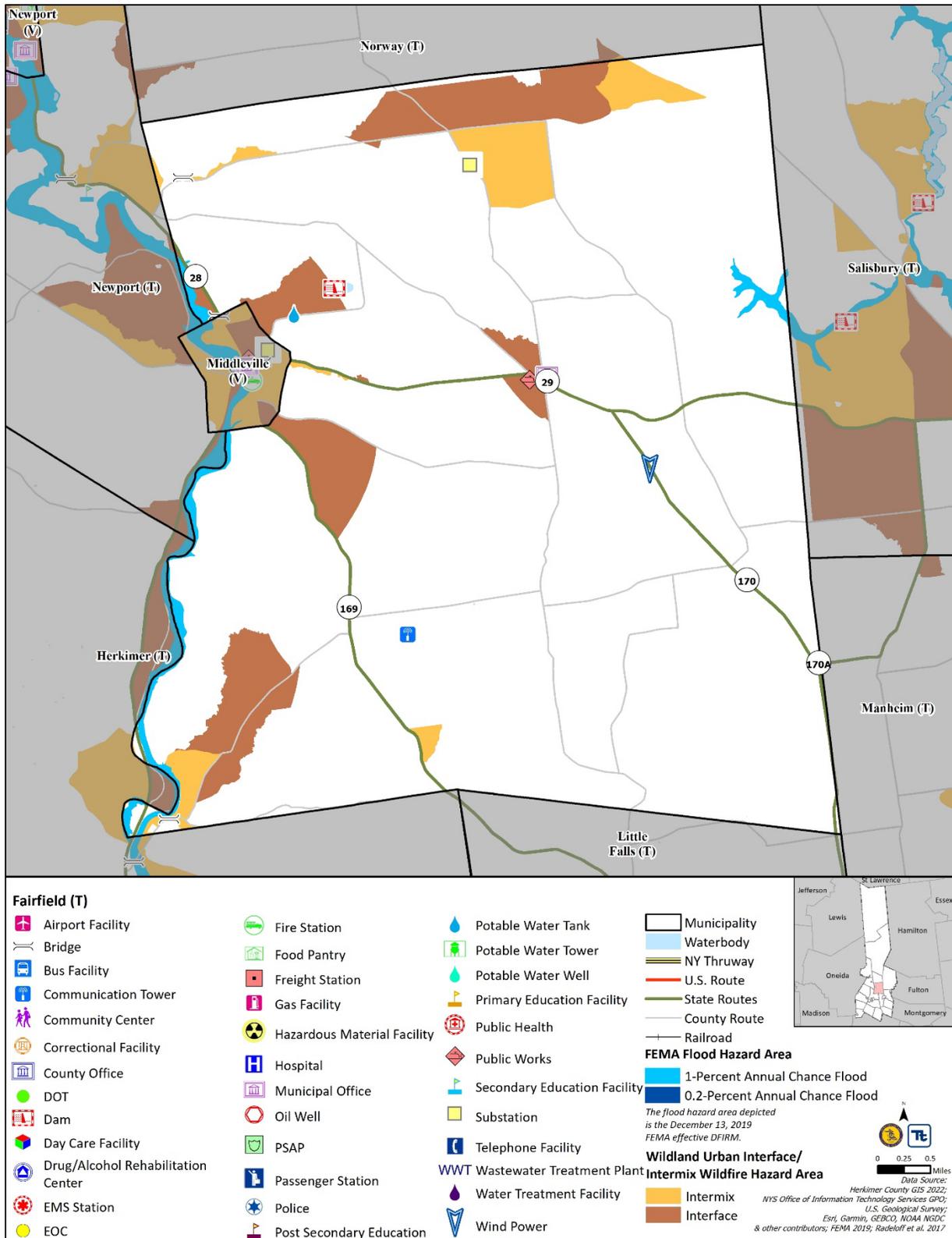
### 9.6.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Fairfield’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Fairfield has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.6-1. Town of Fairfield Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Fairfield’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.6–12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.6-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	

Notes:

EM Emergency Declaration (FEMA)



FEMA Federal Emergency Management Agency
DR Major Disaster Declaration (FEMA)
N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Fairfield’s risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Fairfield. The Town of Fairfield reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- XXXX
XXXX

Table 9.6-13. Hazard Ranking Input

Table with 7 columns and 2 rows, mostly blank or redacted.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications,



including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.6-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Potential Loss from 1% Flood Event		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage		

Source: XXXX

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Fairfield:

- XXXX

### Identified Issues

After review of the Town of Fairfield’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Fairfield identified the following vulnerabilities within their community:

- XXXX
- XXXX
- XXXX

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.6.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.



## Past Mitigation Initiative Status

---

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.6-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Damages Avoided; Evidence of Success	
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		





Table 9.6-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2021-Muni-001				Problem:										
				Solution:										
2021-Muni-002				Problem:										
				Solution:										
2021-Muni-003				Problem:										
				Solution:										
2021-Muni-004				Problem:										
				Solution:										
2021-Muni-005				Problem:										
				Solution:										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.



OEM Office of Emergency Management

Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.6-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-Muni-001																	
2021-Muni-002																	
2021-Muni-003																	
2021-Muni-004																	
2021-Muni-005																	

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.7 TOWN OF FRANKFORT

This section presents the jurisdictional annex for the Town of Frankfort that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Town of Frankfort’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.7.1 Hazard Mitigation Planning Team

The Town of Frankfort identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including Code Enforcement, Highway Department, and the Supervisor’s Office. The Code Enforcement Officer represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.7-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Mishele Spaman – Code Enforcement Officer Address: Town Hall, 201 Third Ave., Frankfort, New York 13340 Phone Number: (315) 894-0922 Email: <a href="mailto:tofcodes@townoffrankfort.com">tofcodes@townoffrankfort.com</a>	Name/Title: Glenn D. Asnoe – Supervisor Address: Town Hall, 201 Third Ave., Frankfort, New York 13340 Phone Number: (315) 894-8737 Email: <a href="mailto:gasnoe@townoffrankfort.com">gasnoe@townoffrankfort.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Mishele Spaman – Code Enforcement Officer Address: Town Hall, 201 Third Ave., Frankfort, New York 13340 Phone Number: (315) 894-0922 Email: <a href="mailto:tofcodes@townoffrankfort.com">tofcodes@townoffrankfort.com</a>	
<b>Additional Contributors</b>	



Primary Point of Contact	Alternate Point of Contact
Name/Title: Lauri Valent – Highway Account Clerk Method of Participation: Completed Hazard Event History,	

## 9.7.2 Municipal Profile

The Town of Frankfort includes the Village of Frankfort, which makes up 1.83 of the town’s 37.3 square miles. Town borders include: the Mohawk River to the north; the Village of Ilion and Town of German Flats to the east; the Town of Litchfield to the south; and the City of Utica, the region’s largest city, on the western front. NYS Route 5S spans the town and parallels the Mohawk River and Erie Canal.

According to the U.S. Census, the 2020 population for the Town of Frankfort was 4,691, a 6.8 percent decrease from the 2010 Census (5,038). Data from the 2021 American Community Survey 5-year Population Estimates indicate that 5.4 percent of the population is 5 years of age or younger and 24.8 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Frankfort has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 4.52% of the population does not have a high school diploma
- 14.97% of the population has a disability
- 1.62% of households do not have a vehicle
- 9.16% of the population is living below the poverty level
- 8.13% of the population is unemployed

## 9.7.3 Jurisdictional Capability Assessment and Integration

The Town of Frankfort performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better



understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Frankfort to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Frankfort. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.7-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Frankfort has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Chapter 88 – Zoning	Local	Town Codes Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Frankfort Zoning and Land use Code was established to do the following:				
<ul style="list-style-type: none"> <li>To lessen congestion in the streets</li> <li>To secure safety from fire, flood, panic, and other dangers</li> <li>To promote health and the general welfare</li> <li>To provide adequate light and air</li> <li>To prevent the overcrowding of land</li> <li>To avoid undue concentration of population</li> <li>To facilitate the adequate provision of transportation, water, sewage, schools, parks, and other public requirements</li> <li>To conserve the value of buildings</li> <li>To encourage the most appropriate use of land throughout the Town</li> <li>To avoid the pollution of air, water, land, and environment</li> </ul>				
Subdivision Ordinance	Yes	Chapter 76 – Subdivision of Land	Local	Town Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>Provide for the future growth and development of the town.</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Afford adequate facilities for the housing, transportation, distribution, comfort, convenience, safety, health and welfare</li> <li>Show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> <li>Require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings.</li> <li>Assure that the subdivision streets and highways shall be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance.</li> <li>Find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
Site Plan Ordinance	Yes	Chapter 76 -Subdivision of Land	Local and County	Town Zoning Board
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>This Article describes procedures for major subdivisions, minor subdivisions, one-lot subdivisions, lot-line adjustments and re-subdivisions. This Article also describes design and performance standards for all subdivisions within the Town.</p>				
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Flood Damage Prevention Ordinance	Yes	Chapter 43 – Flood Damage Prevention	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>The purpose of this Chapter is to promote the public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ul style="list-style-type: none"> <li>• Regulate uses which are dangerous to health, safety, and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities.</li> <li>• Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction.</li> <li>• Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters.</li> <li>• Control filling, grading, dredging and other development which may increase erosion or flood damages.</li> <li>• Regulate the construction of flood barriers which will unnaturally divert floodwaters, or which may increase flood hazards to other lands.</li> <li>• Qualify for and maintain participation in the National Flood Insurance Program.</li> </ul>				
Wellhead Protection	Yes	Chapter 87 – Water Wellhead Protection	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>The goal of Wellhead Protection is to protect the ground water sources and wellhead areas that supply public drinking water systems from contamination. The approach to wellhead protection recognizes and includes the existing federal, state, and county programs that protect groundwater and complements these programs through a combination of activities and efforts using existing public and private agencies and organizations at all levels.</p>				
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	Yes	Frankfort Town and Village Comprehensive Plan	Local	Planning & Zoning Board



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	---	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

The Town Comprehensive Plan provides the framework to manage future development. This plan was being reviewed during the 2017 HMP update, to ensure concurrency with other plans and present growth development trends.

Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Emergency Management Plan	Local	Highway Department
---	-----	---------------------------	-------	-----------------------

*How has or will this be integrated with the HMP and how does this reduce risk?*  
 The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	Yes	Continuity of Operations Plan	Local	Highway Department
----------------------------------	-----	-------------------------------	-------	-----------------------

*How has or will this be integrated with the HMP and how does this reduce risk?*  
 The Continuity of Operations Plan guides departmental response and coordination in the event of a hazard of emergency.

Substantial Damage Response Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Frankfort to oversee and track development.

**Table 9.7-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	No	-
If you issue development permits, what department is responsible?	N/A	-
If you do not issue development permits, what is your process for tracking new development?	N/A	Planning Board reviews all-purpose development
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Though our building permit program
Do you have a buildable land inventory?	No	-
If you have a buildable land inventory, please describe	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Frankfort and their current responsibilities that contribute to hazard mitigation.

**Table 9.7-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The five-member Town Planning Board is responsible for reviewing all applications for re-zoning, site plan reviews, conditional use permits, and all subdivision requests.
Zoning Board of Adjustment	Yes	The five-member Town Zoning Board is responsible for maintaining all building codes and regulations and approving, approve with conditions, or denying any special use permits.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Town Highway Department employs ten full-time employees, nine light and heavy equipment operators, one account clerk/secretary and seasonal staff. The Town incorporates four different jurisdictions for highway maintenance, state roads, county roads, town roads and village roads.
Construction/Building/Code Enforcement Department	Yes	The Town Code Department is responsible for the enforcement of all Town ordinances, zoning laws, and the NYS Fire Prevention. The department also issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	Yes	Public Safety includes Town Police Department, Frankfort Fire Department, Frankfort Hill Fire Dept., Frankfort Center Fire Dept., and the Dog Control Officer.
Warning Systems / Services	Yes	TV, Radio, Web site, Facebook.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
(mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Town Highway clean ditches, tree trimming though out the year
Mutual aid agreements	Yes	Fire Department and Highway Department
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Hired as needed
Engineers or professionals trained in building or infrastructure construction practices	Yes	See Construction/Building/Code Enforcement Dept.
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	Hired as needed
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	Hired as needed
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	Hired as needed
Emergency Manager	Yes	Chief of Police
Grant writer(s)	Yes	Data and maps from the HMP are used to support documentation in grant applications.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

The Town of Frankfort’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

### Fiscal Capability

The table below summarizes financial resources available to the Town of Frankfort.

**Table 9.7-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	-
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	-
Stormwater utility fee	-
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	-
Withhold public expenditures in hazard-prone areas	-
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Frankfort.



**Table 9.7-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Open Meeting, Public Form
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	The Town of Frankfort Annex is available through the Departments page on the Town website
Social media for hazard mitigation education and outreach	Yes	Town Website
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	TV Radio Website Facebook page
Natural disaster/safety programs in place for schools	Yes	Staff conducts school-based programs for safety and emergency management education
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	Yes	Town website

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Frankfort.

**Table 9.7-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	3	02-17-2022
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 3	05-17-2022
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable  
 - Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes



the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.7-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Moderate
Infestation	Moderate
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.7.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Frankfort.

**Table 9.7-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Frankfort	4	3	\$6,460	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Frankfort.



**Table 9.7-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Moyer Creek on St Rt 171
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	In progress
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Contact CEDAR from NYS Codes Division to provide an assessment and determination
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Somewhat
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Department
Are any certified floodplain managers on staff in your jurisdiction?	No, but Codes Officer has taken yearly training
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes. NRCD other web site
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Training is performed annually.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review, engineering, education and outreach, inspections. Keep track of locations that may be prone to flooding or exacerbate flooding.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Contact CEDAR from NYS Codes Division to provide an assessment
What are the barriers to running an effective NFIP program in the community, if any?	Getting people interested
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	-



NFIP Topic	Comments
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Chapter 43  12-28-2000
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	It meets the minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The Town will review CRS requirements and consider joining.

### 9.7.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.7-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.7-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	12	0	9	0	6	0	3	0	6	0	4	0
Multi-Family	--	--	--	--	--	--	--	--	--	--	--	--
Other (commercial, mixed-use, etc.)	3	0	4	0	4	0	4	0	1	0	2	0
<b>Total New Construction Permits Issued</b>	<b>15</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>6</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
Pumpkin Patch Subdivision IDA	Industrial / Retail	4 Business		Country Mile		None		Completed				



Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
Russel Farm IDA	Townhouses / Hotel	12(2)-unit Townhouse /100 room Hotel- Hospitality	112.3-1-46.1	None	Begin reviews

SFHA Special Flood Hazard Area (1% flood event)

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

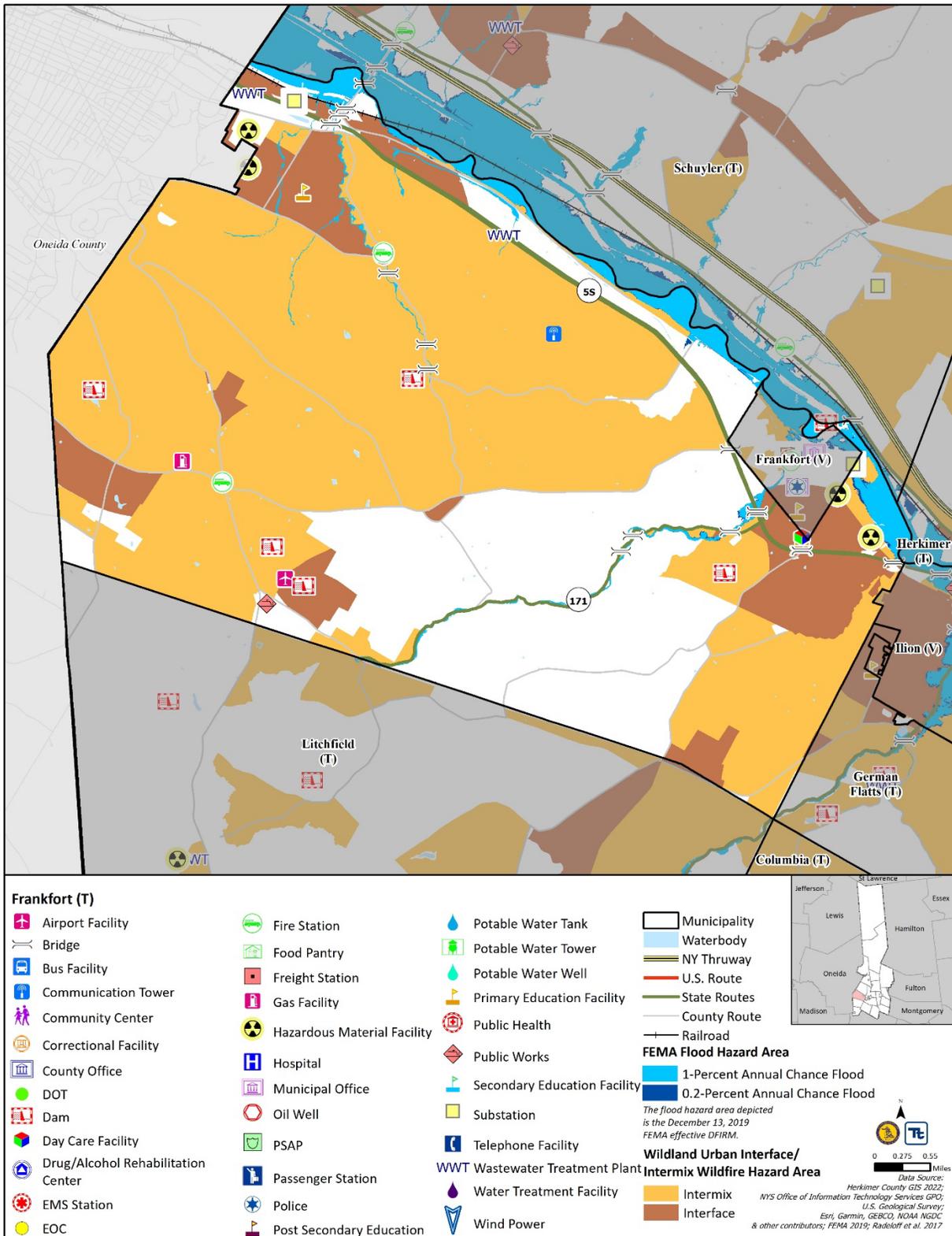
### 9.7.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Frankfort’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Frankfort has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.7-1. Town of Frankfort Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Frankfort’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.7-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.7-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Town did not experience any damages or losses from this event.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Southside Rd Shoulder and Road washouts \$12,995.77  Town wide Shoulder and Road washout (Dutch Hill, Brown, Gates, Slaytonbush) \$43,560.19  Wilson Rd Culvert and Road repairs \$224,101.35  Brookside Dr. Water Pump Station \$50,000 (Deductible) \$129,057.43 reimbursed by insurance claim
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Exact cases and deaths reported were not available by the New York Department of Health for the Town of Frankfort.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties,	Town did not experience any damages or losses from this event.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			producing damaging winds. Around 71,000 customers were without power at the height of the storm.	
April 16, 2022	Heavy Wet Snowstorm	Yes	Heavy, wet snow started falling overnight and is expected to continue into the afternoon. Most areas have seen a general accumulation of 5 to 12 inches of snow. As of 5 p.m., National Grid was reporting more than 13,000 without power in Herkimer County	Town of Frankfort experienced power outages.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Frankfort’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Frankfort. The Town of Frankfort reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:



- The Town agreed that the calculated rankings accurately reflected the risk posed to the community.

**Table 9.7-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Medium
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Medium
Disease Outbreak	High

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.7-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
NY Route 171 BRIDGE over Moyer Creek	Bridge	x	x	2023-FrankfortT-011, 2023-FrankfortT-013	-
NY Route 171 BRIDGE over Moyer Creek	Bridge	x	x	2023-FrankfortT-011, 2023-FrankfortT-013	-
NY Route 5S BRIDGE – Moyer Creek – Town of Frankfort – Eastbound	Bridge	x	x	2023-FrankfortT-011, 2023-FrankfortT-013	-
NY Route 5S BRIDGE – Moyer Creek – Town of Frankfort – Westbound	Bridge	x	x	2023-FrankfortT-011, 2023-FrankfortT-013	-



Source: Herkimer County, 2023

## Identified Issues

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After review of the Town of Frankfort’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Frankfort identified the following vulnerabilities within their community:

- Trees are falling into the creek bed of Moyer Creek
- The Town Hall, which acts as an emergency shelter for senior citizens and as an emergency evacuation site for Frankfort-Schuyler Schools, does not have any back-up power capabilities.
- The culverts located at Wilson Road and Southside Road are both undersized, which contributes to the Town’s flooding issues.
- Two houses on Brice Road, which borders Moyer Creek, have their backyard eroding, which may compromise the structures on the properties.
- Center Road between Mucky Run Road and Welshbush Road frequently flood from Ferguson Creek’s overflowing banks.
- Southside Road has experience over \$12,000 worth of damages from washouts.
- Dutch Hill Road, Brown Road, Gates Road, and Slaytonbush Road experienced a combined total damages of over \$43,000 from washouts.
- Brookside Dr. Water Pump Station experienced damage and failure from severe storms, straight-line winds, and flooding.

### 9.7.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.7-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Unknown	
TOF-001	Frankfort Gorge Road Crossings	Flash Flood & Riverine Flooding, Erosion	Highway Supervisor and DOT	Many of the bridges used in the crosses are narrow and the expansion joints need to be reinforced.  Replace undersized bridge crossings. Ensure new crossings are adequately sized.	Complete	Cost	Unknown	State Completed.
						Level of Protection	High	
						Damages Avoided; Evidence of Success	Properly sized bridge crossings were installed.	
TOF-002	Install storm sewers along Extension Avenues	Riverine and storm flooding	Highway Department	There are no storm sewers in this neighborhood. Water collects in streets, exposing businesses, homes, and residents to flood risk. Install storm sewers on both sides of First Avenue Extension through Fifth Avenue Extension from Reese Road to where the extensions end at Route 5S.	Ongoing	Cost	N/A	Included
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
TOF-003	Acme Road ramp to Route 5S	Flooding and road erosion	Town Highway Department	The ramp is flat, causing rainwater to collect and flood the roadway at a critical traffic intersection.	Complete	Cost	Unknown	Town Highway Department Completed.
						Level of Protection	High	
						Damages Avoided;	Town Highway	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps
				<p>Stopgap repairs made by the Town highway department are insufficient to solve the problem. Elevate the roadway and upsize drainage capability.</p>		Evidence of Success	Department upsized drainage capacity.	<ol style="list-style-type: none"> <li>1. Project to be included in the 2023 HMP or Discontinue</li> <li>2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).</li> <li>3. If discontinue, explain why.</li> </ol>



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.7-15, the Town of Frankfort identified the following mitigation efforts completed since the last HMP:

- Upgraded culverts in Town
- Removed debris and blockages from streams

Since the adoption of the County’s first HMP, the Town of Frankfort has made significant mitigation progress in the following areas:

- Flood maintenance

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Frankfort participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.7-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X			X	X		X			
Drought	X			X	X		X			
Flood	X	X		X	X	X	X			X
Severe Storm	X	X		X	X	X	X			X
Severe Winter Storm	X	X		X	X		X			X
Wildfire	X	X		X	X		X			X
Infestation	X			X	X		X			
Dam Failure	X	X		X	X		X			X
Disease Outbreak	X			X	X		X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.7-17).

The table below summarizes the specific mitigation initiatives the Town of Frankfort would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.7-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Frankfort-001	Develop a Capital Improvement Plan	1, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The town does not have Capital Improvement Plan/Program. A CIP could integrate mitigation actions for more effective implementation.</p> <p><b>Solution:</b> Town departments will identify desired projects for the next five years and identify estimated costs. Projects may include those that will reduce risk for a number of natural hazards including drought, extreme temperatures, severe storm and wind events, severe</p>	No	No	5 years	Town Supervisor	Low	Medium	Local funding	Low	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				winter storm snow and ice events, wildfire, and dam failure events.										
2023-Frankfort-002	Community Outreach	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The town would like to improve community outreach or warning systems in place.</p> <p><b>Solution:</b> The Town will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational</p>	No	No	1 to 2 years	Public Safety	Low	High	Local funding, BRIC, HMGP	Medium	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health.										
2023-Frankfort-003	Flood Map Updates	1, 2, 3	Flood	<p><b>Problem:</b> Flood mapping may not adequately address flood risk in the town.</p> <p><b>Solution:</b> Work with FEMA to ensure it accurately visualizes the flood risk in the Town.</p>	No	No	5 years	Codes Enforcement	Low	High	N/A	Medium	LPR	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Frankfort-004	CRS Program	1, 2, 3	Flood	<p><b>Problem:</b> There are areas in Town which flood, impacting residents and their homes.</p> <p><b>Solution:</b> Explore feasibility of joining the CRS program.</p>	No	No	2 to 3 years	Codes Enforcement	Low	Medium	HMGP	Low	EAP	PI
2023-Frankfort-005	Stream Debris Management	1, 3	Flood, Severe Storm, Severe Winter Storm, Dam Failure	<p><b>Problem:</b> Fallen trees create a barrier in the creek bed, exacerbating flooding.</p> <p><b>Solution:</b> Work with DEC to write a stream debris management plan.</p>	No	No	5 years	Highway Department	Medium	High	Local funding, State funding	Medium	LPR	PR
2023-Frankfort-006	Town Hall Back-up Power	1	Flood, Severe Storm, Severe Winter Storm, Wildfire,	<p><b>Problem:</b> Town Hall, Emergency shelter for senior citizens if potential damage to senior housing.</p>	Yes	Yes	2 to 3 years	Public Safety	Medium	High	Local funding, HMGP, BRIC	High	SIP	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Dam Failure	Emergency evacuation for the Frankfort-Schuyler Schools.  <b>Solution:</b> Install a generator and transfer switch at the Town Hall.										
2023-Frankfort-007	Culvert Upgrade Program	1	Flood, Severe Storm	<b>Problem:</b> Undersized culverts are creating flooding events.  <b>Solution:</b> Upgrade each culvert to an increased diameter to accommodate the influx of flood waters.	No	Yes	3 to 4 years	Highway Department	Medium	High	Local funding, HMGP, BRIC	High	SIP	PP
2023-Frankfort-008	Property Buy-Out	1, 2	Flood, Severe Storm	<b>Problem:</b> 2 homes on Brice Rd, Moyer Creek eroding property backyard away. In the future may	No	Yes	2 to 3 years	Codes Enforcement	High	High	FMA	Medium	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>compromise the structures.</p> <p><b>Solution:</b> Look into feasibility of FMA Program to acquire or elevate affected properties.</p>										
2023-Frankfort-009	Ferguson Creek Stream Management	1	Flood, Severe Storm	<p><b>Problem:</b> Center Rd intersection Mucky Run Rd to intersection Center Rd and Welshbush Rd Ferguson Creek overflowing banks</p> <p><b>Solution:</b> Conduct a study to identify the correct size culverts along Center Rd.</p>	No	Yes	3 to 4 years	Highway Department	Medium	High	Local funding, HMGP, BRIC	Medium	SIP	PP
2023-Frankfort-010	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter	<b>Problem:</b> The Town does not have a determination process for substantially	No	No	5 years	Codes Enforcement	Medium	Medium	Local funding, State funding, HMGP	Low	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Storm, Wildfire, Dam Failure	<p>damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>										
2023-Frankfort-011	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	No	No	1 year	Codes Enforcement	Low	Medium	N/A	Medium	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Frankfort-012	Install storm sewers along Extension Avenues	1	Flood, Severe Storm	<p><b>Problem:</b> There are no storm sewers in this neighborhood. Water collects in streets, exposing businesses, homes, and residents to flood risk.</p> <p><b>Solution:</b> Install storm sewers on both sides of First Avenue Extension through Fifth Avenue Extension from Reese Road to where the extensions end at Route 5S.</p>	No	Yes	5 years	Highway Department	High	High	Local funding, HMGP, BRIC	High	SIP	PP
2023-Frankfort-013	Route 171 and Route 5S Bridge Assessments	1, 3	Flood, Severe Storm	<p><b>Problem:</b> The NY Route 171 Bridge and NY Route 5S Bridge are located in the 1- and 0.5-percent flood areas.</p> <p><b>Solution:</b> Partner with New York DOT</p>	Yes	No	4 to 5 years	New York DOT	Medium	Medium	Local funding, HMGP, BRIC	Low	SIP	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				to assess whether the Moyer Creek would damage the bridges and to what extent.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.7-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Demographic Distribution	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
2023-FrankfortT-01	Develop a Capital Improvement Plan	1	1	1	0	0	0	-1	1	0	0	1	0	0	0	4	Low
2023-FrankfortT-02	Community Outreach	1	1	1	0	0	1	1	0	1	0	1	1	0	0	8	Medium
2023-FrankfortT-03	Flood Map Updates	1	1	1	0	1	1	1	1	1	0	0	0	0	0	8	Medium
2023-FrankfortT-04	CRS Program	1	1	1	0	0	1	0	1	1	0	-1	0	-1	0	4	Low
2023-FrankfortT-05	Stream Debris Management	1	1	1	0	1	1	0	1	1	0	0	0	1	0	7	Medium
2023-FrankfortT-06	Town Hall Back-up Power	1	1	1	0	1	1	0	0	1	1	1	1	1	0	10	High
2023-FrankfortT-07	Culvert Upgrade Program	1	1	1	1	1	1	0	0	1	1	0	0	1	0	9	High
2023-FrankfortT-08	Property Buy-Out	1	1	1	0	0	1	0	1	1	1	0	0	1	0	8	Medium
2023-FrankfortT-09	Ferguson Creek Stream Management	1	1	1	0	1	0	0	1	1	1	0	0	1	0	8	Medium
2023-FrankfortT-010	Develop Substantial Damage Response Plan	1	1	1	0	0	0	-1	1	0	0	1	0	0	0	4	Low
2023-FrankfortT-011	Increase NFIP Capabilities	1	1	1	0	0	0	1	0	0	1	0	0	0	0	5	Medium
2023-FrankfortT-012	Install storm sewers along Extension Avenues	1	1	1	1	1	1	0	0	1	1	0	0	1	0	9	High



Section 9.7. Town of Frankfort

2023-FrankfortT-013	Route 171 and Route 5S Bridge Assessments	1	1	1	0	1	0	0	0	0	0	0	0	0	0	4	Low
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Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.8 VILLAGE OF FRANKFORT

This section presents the jurisdictional annex for the Village of Frankfort that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Frankfort’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.8.1 Hazard Mitigation Planning Team

The Village of Frankfort identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the Police Department and Codes Enforcement. The Village Clerk represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

***The Village of Frankfort did not fully participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Village may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

**Table 9.8-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Matthew Palumbo – Chief of Police</b> Address: <b>110 Railroad Street, Frankfort, NY 13340</b> Phone Number: <b>(315) 534-3090</b> Email: <a href="mailto:mpalumbo@villageoffrankfortny.org">mpalumbo@villageoffrankfortny.org</a>	Name/Title: <b>Richard Adams, Jr. – Mayor</b> Address: <b>110 Railroad Street, Frankfort, NY 13340</b> Phone Number: <b>(315) 717-4501</b> Email: <a href="mailto:radams@villageoffrankfortny.org">radams@villageoffrankfortny.org</a>
<b>NFIP Floodplain Administrator</b>	



Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Kenneth Collis – Code Officer</b> Address: <b>110 Railroad Street, Frankfort, NY 13340</b> Phone Number: <b>(315) 219-3244</b> Email: <a href="mailto:hdwe87@aol.com">hdwe87@aol.com</a>	
<b>Additional Contributors</b>	
Name/Title: Karlee Tamburro – Village Clerk Method of Participation: Provided municipal information.	

## 9.8.2 Municipal Profile

The Village of Frankfort makes up 1.83 of the 37.3 square miles that comprise the Town of Frankfort. The Village is surrounded by the Town on three sides, and the Mohawk River serves as the northern border of the Village. New York State (NYS) Route 5S spans the Village and parallels the Mohawk River and Erie Canal. The Village as having easy access to Interstate 90, which runs east-west on the north side of the Mohawk River.

According to the U.S. Census, the 2020 population for the Village of Frankfort was 2,320, an 11.98-percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 4.8-percent of the population is 5 years of age or younger and 18.3-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 9.73% of the population does not have a high school diploma
- 13.24% of the population has a disability
- 9.04% of households do not have a vehicle
- 5.22% of the population is living below the poverty level
- 5.19% of the population is unemployed

## 9.8.3 Jurisdictional Capability Assessment and Integration

The Village of Frankfort performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.



- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Frankfort to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Frankfort. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.8-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Village Codes & Zoning
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Village of Frankfort has adopted the New York State Uniform Fire Prevention and Building Code.				
<b>Zoning/Land Use Code</b>	Yes	Chapter 88 – Zoning	Local	Village Codes & Zoning
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Village of Frankfort Zoning and Land use Code was established to do the following:				
<ul style="list-style-type: none"> <li>• To lessen congestion in the streets</li> <li>• To secure safety from fire, flood, panic, and other dangers</li> <li>• To promote health and the general welfare</li> <li>• To provide adequate light and air</li> <li>• To prevent the overcrowding of land</li> <li>• To avoid undue concentration of population</li> <li>• To facilitate the adequate provision of transportation, water, sewage, schools, parks, and other public requirements</li> <li>• To conserve the value of buildings</li> <li>• To encourage the most appropriate use of land throughout the Town</li> <li>• To avoid the pollution of air, water, land, and environment</li> </ul>				
<b>Subdivision Ordinance</b>	Yes	Chapter 76 – Subdivision of Land	Local	Village Codes & Zoning
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>• Provide for the future growth and development of the town.</li> <li>• Afford adequate facilities for the housing, transportation, distribution, comfort, convenience, safety, health, and welfare</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> <li>Require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings.</li> <li>Assure that the subdivision streets and highways shall be coordinated to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance.</li> <li>Find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
<b>Site Plan Ordinance</b>	Yes	Chapter 76- Subdivision of Land - Site Plan Review Requirements	Local	Village Codes & Zoning
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>This Article describes procedures for major subdivisions, minor subdivisions, one-lot subdivisions, lot-line adjustments and re-subdivisions. This Article also describes design and performance standards for all subdivisions within the Village.</p>				
<b>Stormwater Management Ordinance</b>	No	-	-	-
<p><b>Post-Disaster Recovery/ Reconstruction Ordinance</b></p>				
	No	-	-	-
<p><b>Real Estate Disclosure</b></p>				
	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
<b>Growth Management</b>	No	-	-	-
<p><b>Environmental Protection Ordinance</b></p>				
	No	-	-	-
<p><b>Flood Damage Prevention Ordinance</b></p>				
	Yes	Chapter 43 – Flood Damage Prevention	Federal, State, County and Local	Village Codes & Zoning
<p><b>Wellhead Protection</b></p>				
	No	-	-	-
<p><b>Emergency Management Ordinance</b></p>				
	No	-	-	-
<p><b>Climate Change Ordinance</b></p>				
	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Other	No	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	Yes	Frankfort Town and Village Comprehensive Plan	Local	Village Codes & Zoning
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Village Comprehensive Plan provides the framework to manage future development. This plan was being reviewed during the 2017 HMP update, to ensure concurrency with other plans and present growth development trends. The review of the comprehensive plan will affect future development and creation of transportation, environmental management, and public safety policies and ordinances.				
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	Yes	Emergency Management Plan	Local	Department of Public Works
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.				
Continuity of Operations Plan	Yes	Continuity of Operations Plan	Local	Department of Public Works
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Continuity of Operations Plan guides departmental response and coordination in the event of a hazard or emergency.				
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Frankfort to oversee and track development.



**Table 9.8-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Codes and Zoning
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	
Do you have a buildable land inventory?	No	
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Frankfort and their current responsibilities that contribute to hazard mitigation.

**Table 9.8-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	-
Zoning Board of Adjustment	Yes	The six-member Town Zoning Board is responsible for maintaining all building codes and regulations and approving, approve with conditions, or denying any special use permits.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Village works with the Town of Frankfort Department of Public Works. The Town Highway Department employs ten full-time employees, nine light and heavy equipment operators, one account clerk/secretary and seasonal staff. The Town incorporates four different jurisdictions for highway maintenance, state roads, county roads, town roads and village roads.
Construction/Building/Code Enforcement Department	Yes	Code & Zoning department issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	Yes	Frankfort Fire Department, Frankfort Village Police.
Warning Systems / Services	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
(mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	Hired as needed
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	Hired as needed
Emergency Manager	No	The Village Police Chief serves as the Emergency Manager
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of Frankfort’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Village of Frankfort.



**Table 9.8-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Frankfort.

**Table 9.8-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	The Village of Frankfort HMP Annex is available through the Departments page on the Village website
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	Yes	Staff conducts school-based programs for safety and emergency management education
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Frankfort.



**Table 9.8-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 5	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note: At the time of this annex being written, the Village was unable to determine the date of classification for their participation in the Public Protection program.

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.8-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

The Village has noted the following regarding its adaptive capacity:

-



### 9.8.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Frankfort.

**Table 9.8-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Village of Frankfort	18	8	\$23,205	1	0	0

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Frankfort.

**Table 9.8-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	No
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Unknown.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None



NFIP Topic	Comments
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes and Zoning
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	NYDEC
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit reviews.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Unknown
What are the barriers to running an effective NFIP program in the community, if any?	Need additional education.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Unknown.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Unknown.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No.

### 9.8.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its



hazards of concern. Table 9.8-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.8-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total New Construction Permits Issued</b>	-	-	-	-	-	-	-	-	-	-	-	-
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
-	-	-		-		-		-				
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
-	-	-		-		-		-				

SFHA Special Flood Hazard Area (1% flood event)

\* Only location-specific hazard zones or vulnerabilities identified. Permitting information not available.

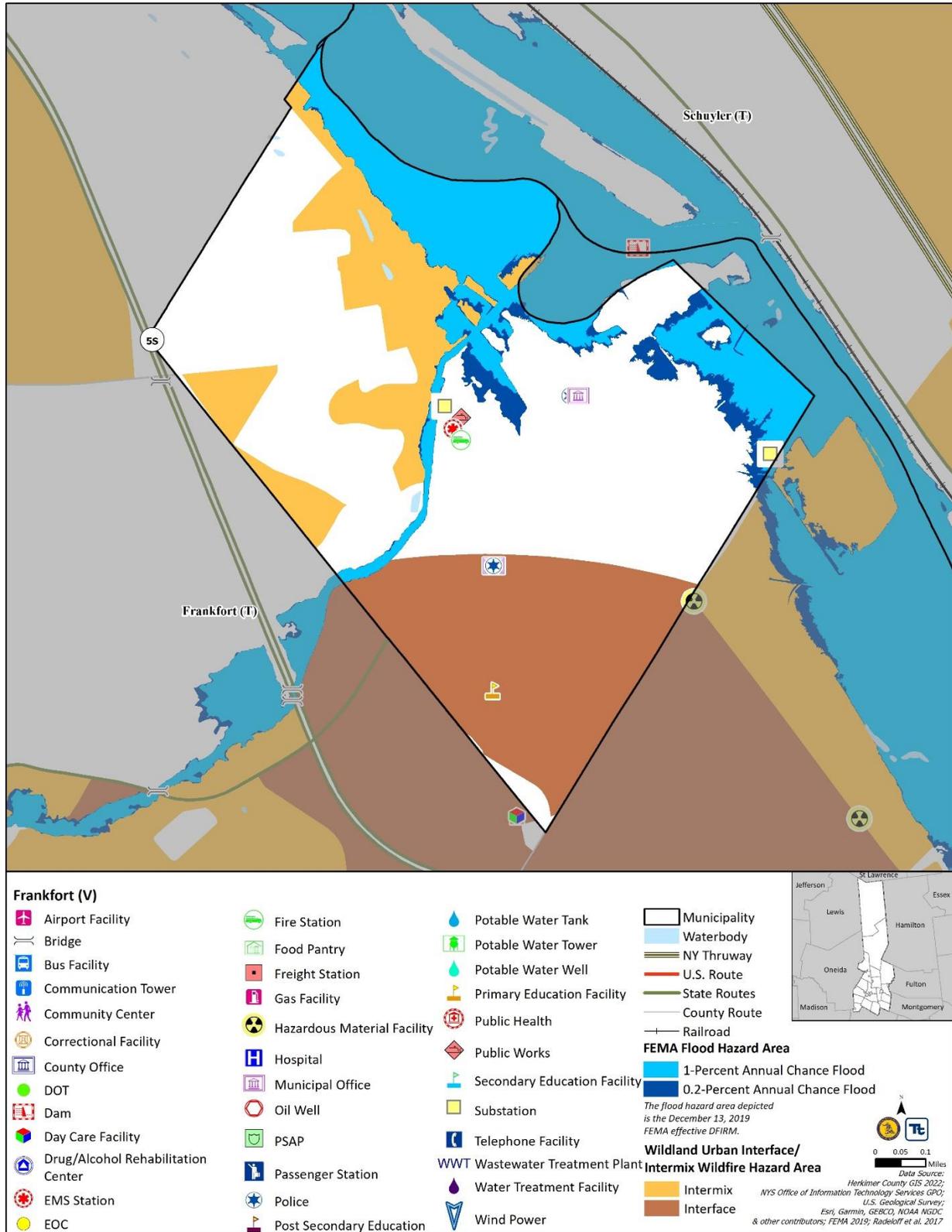
### 9.8.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Frankfort’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Frankfort has significant exposure are provided.



Figure 9.8-1. Village of Frankfort Flood Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Frankfort’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.8–12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.8-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Exact cases and deaths reported were not available by the New York Department of Health for the Village of Frankfort.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	

Notes:

EM Emergency Declaration (FEMA)



FEMA Federal Emergency Management Agency
DR Major Disaster Declaration (FEMA)
N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Frankfort’s risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Frankfort. The Village of Frankfort reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.8-13. Hazard Ranking Input

Table with 2 columns: Hazard and Hazard Ranking – High/Medium/Low. Rows include Extreme Temperature (Medium), Drought (Low), Flood (High), Severe Storm (High), Severe Winter Storm (Medium), Wildfire (Low), Infestation (Low), Dam Failure (Low), and Disease Outbreak (High).

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications,



including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.8-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
NY Route 171 BRIDGE over Moyer Creek	Bridge	Y	Y	-	-
NY Route 171 BRIDGE over Moyer Creek	Bridge	Y	Y	-	-
NY Route 5S BRIDGE - Moyer Creek - Town of Frankfort - Eastbound	Bridge	Y	Y	-	-
NY Route 5S BRIDGE - Moyer Creek - Town of Frankfort - Westbound	Bridge	Y	Y	-	-

Source: Herkimer County, 2023

The New York Route 171 bridge over Moyer Creek is owned, operated, and maintained by the New York State Department of Transportation, therefore no mitigation actions have been identified.

The New York Route 5S bridge over Moyer Creek is owned, operated, and maintained by the New York State Department of Transportation, therefore no mitigation actions have been identified.

### Identified Issues

After review of the Village of Frankfort’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Frankfort identified the following vulnerabilities within their community:

- None identified.

### 9.8.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.



### Past Mitigation Initiative Status

---

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.8-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
VFR-001	Repair Levee System Upstream of Swimming Road	Flash Flood & Riverine Flooding, Erosion	Village Department of Public Works	Swimming Road bridge crossing is subject to overtopping in extreme flood events. Flooding of this structure causes backwaters upstream to rise. Replace the Swimming Road bridge with a larger span structure capable of passing flows without creating an upstream backwater condition.		Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
VFR-002	2 Replace Stimming Road Bridge with larger span structure	Flash Flood & Riverine Flooding, Erosion	Village Department of Public Works	Swimming Road bridge has a span of 50 feet. Larger flows in Moyer Creek are predicted to cause backwater behind the bridge, which has the potential to overtop the levees. Increase of the bridge span to approximately 70 ft.		Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
VFR-003	Replace Main Street Bridge	Flash Flood & Riverine	Village Department	Several flood prone buildings are located near the		Cost		
						Level of Protection		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps
	with larger span structure	Flooding, Erosion	of Public Works	right bank of the channel. The FEMA FIRM shows a significant constriction at the Main Street bridge, causing extensive ponding on both sides of Moyer Creek upstream of Main Street. Replace Main Street bridge in combination with bank repair to mitigate flooding.		Damages Avoided; Evidence of Success		<ol style="list-style-type: none"> <li>Project to be included in the 2023 HMP or Discontinue</li> <li>If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).</li> <li>If discontinue, explain why.</li> </ol>
VFR-004	Adopt sediment management standards	Flash Flood & Riverine Flooding	Village floodplain manager	Moyer Creek generates a substantial amount of stream power, transporting sediment, restricting flow capacity, and blocking stream crossings. When the channel exceeds its capacity, or becomes clogged, it finds new paths, leaving property damaged by floodwaters, bridges damaged, and unstable creek bed and banks. Develop a sediment		Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps
				management program.				
VFR-005	Install a stream gauge on Moyer Creek	Flash Flood & Riverine Flooding	Village floodplain manager	There is currently no stream gauge on Moyer Creek. Installation of a gauge would inform future analysis of the creek. Install a stream gauge on Moyer Creek.		Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
VFR-006	Lehman Park Bank Stabilization	Flash Flood, riverine flooding, bank erosion	Village floodplain manager	A 2013 storm caused deterioration of the slope and stream bank. FEMA gave NYSDOT funds to make initial repairs, but more work is needed to prevent further erosion. Install a soil nail wall to maintain the existing park.		Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.8-15, the Village of Frankfort identified the following mitigation efforts completed since the last HMP:

- None identified.

Since the adoption of the County’s first HMP, the Village of Frankfort has made significant mitigation progress in the following areas:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.8-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	-	-	-	-	-	-	-	-	-	-
Drought	-	-	-	-	-	-	-	-	-	-
Flood	-	-	-	-	-	-	-	-	-	-
Severe Storm	-	-	-	-	-	-	-	-	-	-
Severe Winter Storm	-	-	-	-	-	-	-	-	-	-
Wildfire	-	-	-	-	-	-	-	-	-	-
Infestation	-	-	-	-	-	-	-	-	-	-
Dam Failure	-	-	-	-	-	-	-	-	-	-
Disease Outbreak	-	-	-	-	-	-	-	-	-	-

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.8-17).

The table below summarizes the specific mitigation initiatives the Village of Frankfort would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.8-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.



## Section 9.8. VILLAGE OF FRANKFORT

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

### CRS Category:

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



Section 9.8. VILLAGE OF FRANKFORT

The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.8-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.9 TOWN OF GERMAN FLATTS

This section presents the jurisdictional annex for the Town of German Flatts that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of German Flatts’ risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.9.1 Hazard Mitigation Planning Team

The Town of German Flatts identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Supervisor. The Town Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.9-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>L. Peter Rovazzi – Town Supervisor</b> Address: <b>Box 57, Mohawk, NY 13407</b> Phone Number: <b>(315) 866-4960</b> Email: <b>tgfsupervisor@gmail.com</b>	Name/Title: Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: L. Peter Rovazzi – Town Supervisor Method of Participation: Provided key input in the planning process	



Name/Title: Richard Sweeny – Code Enforcement Officer  
Method of Participation: Provided key input in the planning process  
Name/Title:  
Method of Participation:

## 9.9.2 Municipal Profile

German Flatts is located on the south shore of the Mohawk River, five miles southeast of the Town and Village of Herkimer and 75 miles west of Albany. The Mohawk River forms its northern boundary. Other boundaries include the Town of Little Falls to the east; the towns of Warren and Columbia to the south; and the Town of Frankfort to the west. The villages of Ilion and Mohawk fall within the geographic boundaries of German Flatts. Its position on the Mohawk River and the Erie Canal spurred historic growth in population and the economy. The canal and river now support recreational opportunities. Major transportation corridors passing through the town include Interstate 90 and New York State Routes, 5S, 28, 51 and 168.

According to the U.S. Census, the 2020 population for the Town of German Flatts was 2,474, a 12.3 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 6.6 percent of the population is 5 years of age or younger and 18.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of German Flatts has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 14.69% of the population does not have a high school diploma
- 16.47% of the population has a disability
- 2.05% of households do not have a vehicle
- 10.98% of the population is living below the poverty level
- 6.47% of the population is unemployed

## 9.9.3 Jurisdictional Capability Assessment and Integration

The Town of German Flatts performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.



- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of German Flatts to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of German Flatts. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.9-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Code Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of German Flatts has adopted the New York State Uniform Code.				
Zoning/Land Use Code	Yes		Local	Code Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of German Flatts Zoning Code was established to promote health, safety and general welfare of the public and to monitor growth throughout the Town.				
Subdivision Ordinance	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Implementation of subdivision ordinances can support coordination of resilient development.</i>				
Site Plan Ordinance	Yes	-	Local	Codes Enforcement
Stormwater Management Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
<p><i>Consider the following:</i></p> <ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
Flood Damage Prevention Ordinance	Yes	Floodplain Ordinance	Local	Codes Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Please describe the Flood Damage Prevention Ordinance				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Climate Change Ordinance	No	-	-	-
Other	-	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	No	Currently working on Creating Plan	Local	Town Officials

*How has or will this be integrated with the HMP and how does this reduce risk?*

Development of a comprehensive plan that identifies hazard areas can encourage resilient development. The plan may consider the following:

- Infrastructure policies to limit extension of existing facilities and services and discourage development in areas vulnerable to natural hazards
- Including a future land use map to clearly identify natural hazard areas
- Including land use policies discourage development or redevelopment with natural hazard areas?
- Providing a plan for adequate space for expected future growth in areas located outside natural hazard areas?

Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	Yes	Multi-Community Flood Hazard Mitigation Plan	Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Multi-Community Flood Hazard Mitigation Plan outlines hazards, identifies projects, and provides the authority by which the community can implement mitigation actions.				
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	-	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Emergency Operations Plan 2016	Local	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	Yes	Continuity of Operations Plan – 2016	Local	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 The Continuity of Operations Plan guides departmental response and coordination in the event of a hazard of emergency.

Substantial Damage Response Plan	No	-	-	-
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Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
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Post-Disaster Recovery Plan	No	-	-	-
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Public Health Plan	No	-	-	-
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Other	-	-	-	-
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**Development and Permitting Capability**

The table below summarizes the capabilities of the Town of German Flatts to oversee and track development.



**Table 9.9-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Building Permits and Floodplain Development Permits
If you issue development permits, what department is responsible?		Codes Department
If you do not issue development permits, what is your process for tracking new development?	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	
Do you have a buildable land inventory?	No	
If you have a buildable land inventory, please describe	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

**Administrative and Technical Capability**

The table below summarizes potential staff and personnel resources available to the Town of German Flatts and their current responsibilities that contribute to hazard mitigation.

**Table 9.9-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	-
Zoning Board of Adjustment	No	-
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Town Highway Department is responsible for maintaining approximately 25 miles of Town roads and approximately 25 miles of county roads within the boundaries of the Town.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Construction/Building/Code Enforcement Department	Yes	The Town Code Department is responsible for the enforcement of all Town ordinances, zoning laws, and the NYS Fire Prevention. The department also issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	Yes	German Flatts Office of Emergency Management Herkimer County Emergency Management
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	The Town has a shared services agreement with the Herkimer County Highway Department.
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	Hire as needed. The current Codes Department and Town Supervisor have significant professional experience regarding the stated practices.
Planners or engineers with an understanding of natural hazards	No	Hire as needed. The Fire Department, Codes Department, Town Supervisor and Highway Department have staff with varying levels of assessing hazards.
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	The Fire Department, Codes Department, Town Supervisor and Highway Department have staff with varying skill levels in damage assessment.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	Hire as needed
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	The Town Supervisor is responsible for fulfilling the role of Emergency Manager. The Town primarily and typically accepts the assistance/services from Herkimer County Emergency Management.
Grant writer(s)	-	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-
<b>Administrative/technical capability self-assessment</b>		
<i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i>		

### Fiscal Capability

The table below summarizes financial resources available to the Town of German Flatts.

**Table 9.9-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of German Flatts.

**Table 9.9-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	
Personnel skilled or trained in website development	No	A Town Councilman has knowledge and experience and is currently assisting with this task.
Hazard mitigation information available on your website	No	
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	No	
Warning systems for hazard events	No	
Natural disaster/safety programs in place for schools	Yes	Fire and Police Departments conducts school-based programs for safety and emergency management education
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	

### Community Classifications

The table below summarizes classifications for community programs available to the Town of German Flatts.



**Table 9.9-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	Class 5	2008
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 4A	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	Yes	-	-
Firewise Communities classification	Yes	-	-
Other	No	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.9-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Strong
Infestation	Weak
Dam Failure	High
Disease Outbreak	Moderate



### 9.9.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of German Flatts.

**Table 9.9-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of German Flatts	7	12	\$90,140	0	0	0	Not available

Source: FEMA. Accessed 4/21/23; Policy data per HUDEX. Accessed 2/2023

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of German Flatts.

**Table 9.9-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Steele Creek, Fulmer Creek, State Route 5s No
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Site Inspection None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction?	Approximately 3 Property Acquisitions  FEMA funded acquisitions.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Primarily, Yes. Some technical exceptions.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Code Enforcement Department
Are any certified floodplain managers on staff in your jurisdiction?	Codes Enforcement Officer is typically certified.
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes, when available. Any & all available
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Codes review and inspections.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Codes Enforcement Officer review and inspection.
What are the barriers to running an effective NFIP program in the community, if any?	Town participates in NFIP.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	None.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	2018
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law No. 11987
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Yes
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes - Codes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Potentially



### 9.9.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.9–11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.9-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total New Construction Permits Issued</b>	32		46		32		31		50		35	
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None identified.												

SFHA Special Flood Hazard Area (1% flood event)

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

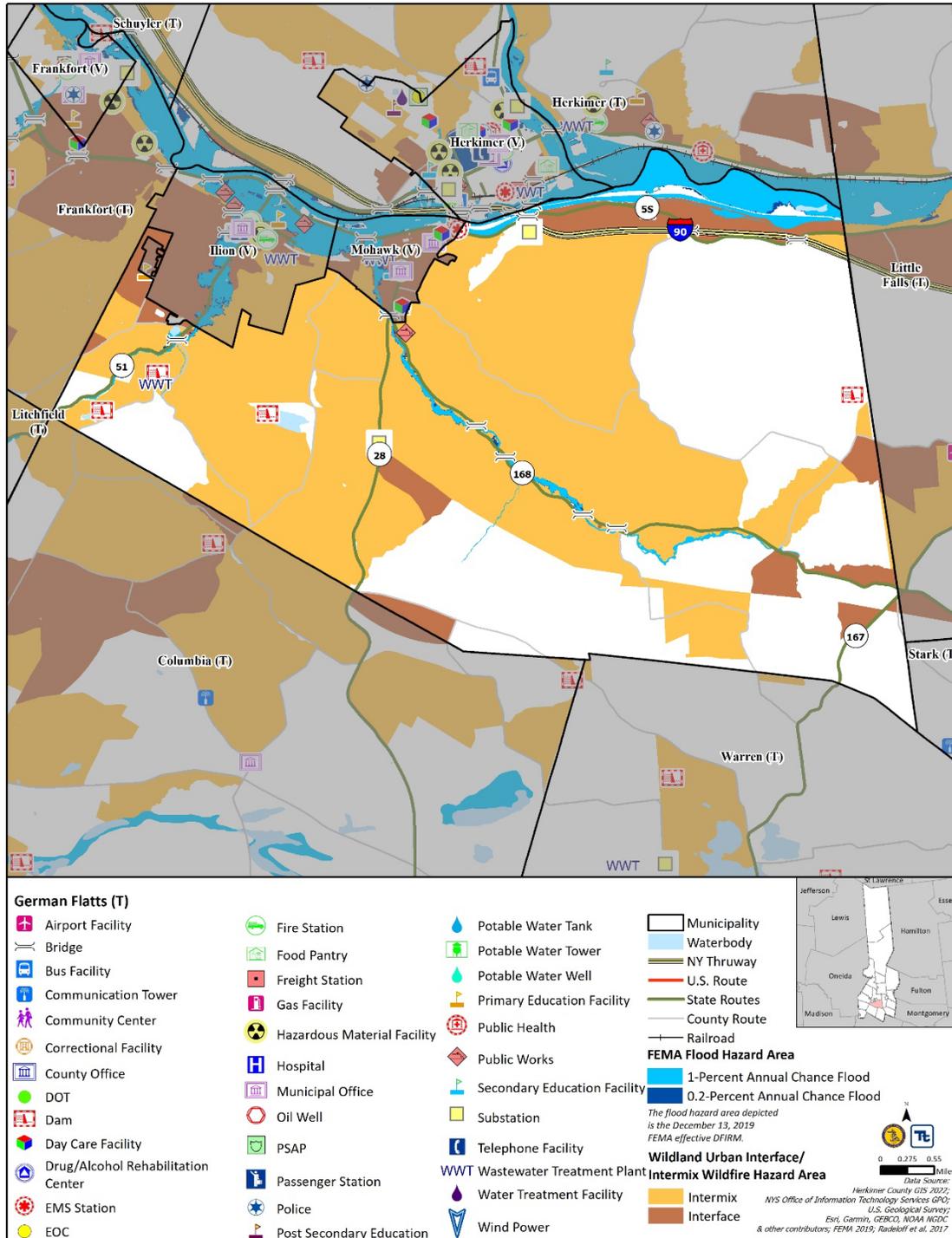
### 9.9.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of German Flatts’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of German Flatts has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.9-1. Town of German Flatts Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of German Flatts’ history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.9-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.9-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Significant damage to Shumaker Road. Ditch and road repairs
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	The most significant damage was to the east and north of the Town of German Flatts.  Ditch and road repairs
January 2020 – ongoing	Covid-19 Pandemic	Yes		No significant damages. Other service related and productivity losses.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Significant damage north of Town.  Ditch and road repairs

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency



DR Major Disaster Declaration (FEMA)  
N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of German Flatts risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of German Flatts. The Town of German Flatts reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town changed flood from low to high due to continued flooding of Fulmer and Steele Creeks.
- The Town changed dam failure from medium to high due to reservoir dam failure identified inside the Town boundaries which is connected to Steele Creek.

**Table 9.9-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	High
Disease Outbreak	Medium



Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.9-14. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
NY Route 168 bridge over Fulmer Creek	Bridge	X	X	2023– Town of German Flatts–007	Unknown
Spinnerville Gulf North Rd bridge over Steele Creek	Bridge	X	X	2023– Town of German Flatts–007	Unknown

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of German Flatts:

- Ilion Reservoir #2 Dam
- Ilion Reservoir #3 Dam
- Ilion Reservoir #1 Dam

### Identified Issues

After review of the Town of German Flatts’ hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of German Flatts identified the following vulnerabilities within their community:

- There is a large corridor in the Town that needs stream reconstruction and stabilization to reduce flooding problems. This is an extension of the work that was completed around station 75–98.



- The Upper Fulmer stream reconstruction and stabilization is taking place throughout Fulmer Creek. Research is needed to determine if the reconstruction and stabilization of the Upper Fulmer is feasible and cost-effective.
- The Town intends on carrying out the reconstruction and stabilization of Fulmer Creek and needs to obtain easements in order to integrate the reconstruction.
- The Town experiences extensive flooding from tributaries/streams and experiences issues relating to flow disbursement and control.
- The Town does not currently have an up-to-date Comprehensive Plan that integrates the HMP.
- The Town has not updated land use regulations to integrate the hazards of concern.
- The Town experiences flooding from undersized and damaged culverts and bridges.
- The Town's Second Street Bridge is hydraulically and structurally deficient which is leading to flooding and limited use.
- The Town is unaware of how susceptible the roads located in the Town are to the hazards of concern that are identified in the HMP.
- The Town has issues relating to flooding along Steele Creek and the Town is unsure what the root of the problem is. The Creek is also at risk for contributing to landslides.
- The Town has two deficient bridges that need to be replaced due to failing infrastructure and undersized capabilities.
- The Town does not have an emergency shelter with a backup generator that can be used to house and protect residents during major hazard events.
- The Town does not have an early warning system installed at Fulmer Creek to warn residents and property owners of potential inundation events.
- The Town does not have a protocol for FEMA acquisition and buyout for flood prone properties.
- The Town experiences flooding relating to the Upper Fulmer and Steele Creeks which is due to development and lack of wetlands.
- The Town is vulnerable to the wildfire hazard and is unaware of the status of the current dry hydrants and is in need of additional hydrants to cover the wildfire area.
- The Town does not have backup power in the Town Municipal Building or at the Highway Department building and cannot perform continuity of operations during hazard events.
- The Town does not currently have a disease outbreak plan nor do they have identified vaccination clinics or locations where the Town can distribute PPE to their residents.
- The Town suffers from the invasive knotweed which increases erosion along streambanks and stifles native plants and the residents are unaware.

### 9.9.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.



## Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps
						Cost	Damages Avoided; Evidence of Success	
GF-001	Creekside Floodplain Bench Construction (STA 59+00 to STA 74+00)	Flood	Town Administration		Complete. Project not initiated as it is on private property.	Cost		1. Discontinue
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-002	Creekside Floodplain Bench Acquisitions/Easements	Flood, Severe Storm, Severe Winter Storm	Town Administration		Complete. Project not initiated as it is on private property.	Cost		1. Discontinue
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-003	Mid-Fulmer GreenPlain Design* (STA 91+00 to STA 166+00)	Flood, Severe Storm, Severe Winter Storm	Town Administration		In Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided;		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
						Evidence of Success	
GF-004	Mid-Fulmer GreenPlain Construction (STA 91+00 to STA 166+00)	Flood, Severe Storm, Severe Winter Storm	Town Administration		In Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided; Evidence of Success	

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
					In Progress	Cost	1. Include



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps  1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Level of Protection	Damages Avoided; Evidence of Success	
GF-005	Upper Fulmer GreenPlain Design* (STA 175+00 to STA 233+00)	Flood, Severe Storm, Severe Winter Storm	Town Administration			Level of Protection		
						Damages Avoided; Evidence of Success		
GF-006	Upper Fulmer GreenPlain Construction (STA 175+00 to STA 233+00)	Flood, Severe Storm, Severe Winter Storm	Town Administration		In Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-007	Structure Acquisition in Mid and Upper GreenPlain Areas	Flood	Town Administration		Complete	Cost		1. Discontinue
						Level of Protection		
						Damages Avoided; Evidence		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
GF-008	Floodplain Easements in Mid and Upper GreenPlain Areas	Flood	Town Administration		In Progress	of Success Cost Level of Protection Damages Avoided; Evidence of Success	<ol style="list-style-type: none"> <li>Project to be included in the 2023 HMP or Discontinue</li> <li>If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).</li> <li>If discontinue, explain why.</li> </ol>

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
		Flood			In Progress	Cost	<ol style="list-style-type: none"> <li>Project to be included in the 2023 HMP or Discontinue</li> <li>If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).</li> <li>If discontinue, explain why.</li> </ol>



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Level of Protection	Damages Avoided; Evidence of Success	
GF-009	Tributary Assessments, Study, and/or Design for Flow Control/Flow Disbursement		Town Administration			Level of Protection		
						Damages Avoided; Evidence of Success		
GF-010	Miscellaneous Stream Bank Stabilizations (Design and Construction)	Flood, Severe Storm, Severe Winter Storm	Town Administration		In Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-011	Fulmer Creek Floodplain Mapping Update	Flood			In Progress.	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
GF-012	NYS Route 28 Bridge Widening (BIN - 01020020)	Flood	Town Administration & NYSDOT		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
GF-013	NYS Route 168 Bridge Widening (N of Casey Rd) (BIN 01038960)	Flood	Town Administration & NYSDOT		No Progress	Cost		1. Include
						Level of Protection		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
						Damages Avoided; Evidence of Success	
GF-014	Town Comprehensive Plan	All	Town Administration		In Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided; Evidence of Success	
GF-015	Land Use Regulations	All	Town Administration		In Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided; Evidence of Success	
GF-016	Culvert Right-Sizing and Drainage Improvements (Design and Construction):	Flood	Town Administration		In Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided;	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
						Evidence of Success	<ol style="list-style-type: none"> <li>Project to be included in the 2023 HMP or Discontinue</li> <li>If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).</li> <li>If discontinue, explain why.</li> </ol>

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps						
GF-018	Richfield Street Bridge Replacement	Flood	Town Administration			<table border="1"> <tr><td>Cost</td><td></td></tr> <tr><td>Level of Protection</td><td></td></tr> <tr><td>Damages Avoided; Evidence of Success</td><td></td></tr> </table>	Cost		Level of Protection		Damages Avoided; Evidence of Success		<ol style="list-style-type: none"> <li>Discontinue</li> </ol>
Cost													
Level of Protection													
Damages Avoided; Evidence of Success													
GF-019	Second St Bridge Replacement and Walls	Flood	Town Administration		In Progress	<table border="1"> <tr><td>Cost</td><td></td></tr> <tr><td>Level of Protection</td><td></td></tr> <tr><td>Damages Avoided;</td><td></td></tr> </table>	Cost		Level of Protection		Damages Avoided;		<ol style="list-style-type: none"> <li>Include</li> </ol>
Cost													
Level of Protection													
Damages Avoided;													



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps  1. Project to be included in the 2023 HMP or Discontinue  2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).  3. If discontinue, explain why.
						Evidence of Success	Cost	
GF-020	Susceptibility Analysis - Roads within T German Flatts	Flood	Town Administration		No Progress	Evidence of Success		1. Include
						Cost		
						Level of Protection		
GF-021	Ilion Gorge - Analysis of Bank Stabilization(s), Debris Blockage, and Landslide	Flood	Town Administration		No Progress	Damages Avoided; Evidence of Success		1. Include
						Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps  1. Project to be included in the 2023 HMP or Discontinue  2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).  3. If discontinue, explain why.
						Cost		
GF-022	Ilion Gorge - Engineering Design of Bank Stabilization(s), Debris Blockage, and Landslide	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-023	Ilion Gorge - Construction of Bank Stabilization(s), Debris Blockage, and Landslide Mitigation	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-024	Pine Bush Rd Sediment Basin	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided;		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
						Evidence of Success	
GF-025	Enhance Town GF Community Center as Emergency Shelter	All	Town Administration		No Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided; Evidence of Success	

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps
GF-026	Fulmer Creek Early Warning System	Flood	Town Administration		No Progress	Cost	1. Include
						Level of Protection	
						Damages Avoided;	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Damages Avoided; Evidence of Success	
GF-027	Develop State Program for Mitigation Acquisition.	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-028	Wetland Enhancement Study - Upper Fulmer Creek and Steele Creek Watersheds	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-029	Wetland Enhancement Design - Upper Fulmer Creek and Steele Creek Watersheds	Flood	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost		
GF-030	Wetland Enhancement Construction - Upper Fulmer Creek and Steele Creek Watersheds		Town Administration			Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-031	Town-wide Assessment of Dry Hydrant Placement	Wildfire	Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
GF-032	Installation of Dry Hydrants		Town Administration		No Progress	Cost		1. Include
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Cost		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps  1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.				
						<table border="1"> <tr> <td>Level of Protection</td> <td></td> </tr> <tr> <td>Damages Avoided; Evidence of Success</td> <td></td> </tr> </table>	Level of Protection		Damages Avoided; Evidence of Success		
Level of Protection											
Damages Avoided; Evidence of Success											



### Additional Mitigation Efforts

The Town of German Flatts did not identify additional mitigation efforts completed since the last HMP.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of German Flatts participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.9-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X			X				X	X
Drought	X	X			X				X	X
Flood	X	X		X	X	X	X		X	X
Severe Storm	X	X			X	X			X	X
Severe Winter Storm	X	X			X	X			X	X
Wildfire	X	X			X				X	X
Infestation	X	X		X	X		X		X	
Dam Failure	X	X			X				X	X
Disease Outbreak	X	X			X				X	X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.9-16).



The table below summarizes the specific mitigation initiatives the Town of German Flatts would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.

**Table 9.9-16. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of German Flatts-001	Mid-Fulmer GreenPlain Design and Construction * (STA 91+00 to STA 166+00)-station numbers	1, 4	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> There is a large corridor in the Town that needs stream reconstruction and stabilization to reduce flooding problems. This is an extension of the work that was completed around station 75-98.</p> <p><b>Solution:</b> The Town will acquire funding to complete the design and construction of the stream reconstruction and stabilization</p>	No	No	3 Years	Town Administration	TBD	The Town will experience reduced flooding.	FMA, HMGP, BRIC	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				from station 91 to station 166.										
2023-Town of German Flatts-001	Upper Fulmer GreenPlain Design and Construction * (STA 175+00 to STA 233+00) Research	1, 4	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Upper Fulmer stream reconstruction and stabilization is taking place throughout Fulmer Creek. Research is needed to determine if the reconstruction and stabilization of the Upper Fulmer is feasible and cost-effective.</p> <p><b>Solution:</b> The Town will conduct a study to determine if the reconstructions and stabilization of the Upper Fulmer is feasible and cost effective.</p>	No	No	1 Year	Town Administration	TBD	The Town will know if they are able to stabilize and reconstruct the Upper Fulmer.	HMGP, FMA, BRIC, Town Budget	High	SIP	SP
2023-Town of	Floodplain Easements in Mid and	1, 4	Flood, Severe Storm,	<b>Problem:</b> The Town intends on carrying out the	No	No	2 Years	Town Administration	TBD based on number	The Town will be able to complete the	HMGP, FMA, EWP, FPE	High	LP R	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
German Flatts-003	Upper GreenPlain Areas		Severe Winter Storm	<p>reconstruction and stabilization of Fulmer Creek and needs to obtain easements in order to integrate the reconstruction.</p> <p><b>Solution:</b> The Town will acquire floodplain easements in order to take care of the reconstruction and stabilization of Fulmer Creek.</p>					of easements	Fulmer Creem reconstruction and stabilization.				
2023-Town of German Flatts-004	Tributary and Stream Assessments, Study, and/or Design for Flow Control/Flow Disbursement	1	Flood, Severe Storm, Severe Winter Storm	<b>Problem:</b> The Town experiences extensive flooding from tributaries/streams and experiences issues relating to flow disbursement and control.	No	No	1 Year	Town Administration	\$10,000 for flood study	The Town will experience reduced flooding.	FMA, HMGP, Town Budget	High	LP R	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The Town will acquire funding to conduct a tributary/stream study to determine what tributaries and streams may need flood control work done. The Town will then acquire funding to complete these projects.</p>										
2023-Town of German Flatts-005	Town Comprehensive Plan	1	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The Town does not currently have an up-to-date Comprehensive Plan that integrates the HMP.</p> <p><b>Solution:</b> The Town will develop a Comprehensive Plan that will integrate the HMP and the Town will update the plan routinely. It is</p>	No	No	1 Year	Town Administration	Staff Time	The Town will be better prepared for community development.	Town Budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				anticipated that the plan will address the natural hazards identified in the hazard mitigation plan including drought, extreme temperatures, flood, severe storm, severe winter storm, wildfire, and dam failure. Including these hazards in the comprehensive plan will enable proactive planning to reduce future impacts related to these hazards.										
2023-Town of German Flatts-006	Land Use Regulations Update	1	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town has not updated land use regulations to integrate the hazards of concern.</p> <p><b>Solution:</b> The Town will</p>	No	No	1 Year	Town Administration	Staff Time	The new development will be better prepared against hazards of concerns.	Town Budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				implement land use regulations that address the hazards of concern.										
2023–Town of German Flatts–007	Culvert and Bridge Rightsizing and Drainage Improvements (Design and Construction):	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town experiences flooding from undersized and damaged culverts and bridges.</p> <p><b>Solution:</b> The Town will conduct a study to evaluate all culverts and bridges located in the Town to determine if they need to be upsized or repaired to the 500 year floodplain.</p>	No	No	1 Year	Town Administration, Highway Department	\$10,000	The Town will have an inventory of culverts located within the Town.	FMA, HMGP, BRIC, Bridge NY	High	SIP	SP
2023–Town of German Flatts–008	Second St Bridge Replacement and Walls	1	Flood	<p><b>Problem:</b> The Town’s Second Street Bridge is hydraulically and structurally deficient which is leading to flooding and limited use.</p>	No	No	4 Years	Highway Department, Public Works, Engineering	TBD after study	The Town will be able to continue to use the bridge.	FMA, HMGP, BRIC, Bridge NY	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The Town will conduct a study to determine the best and most cost-effective way to repair the bridge for full access and use. The Town will then implement that solution.</p>										
2023-Town of German Flatts-009	Susceptibility Analysis - Roads within T German Flatts	1	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town is unaware of how susceptible the roads located in the Town are to the hazards of concern that are identified in the HMP.</p> <p><b>Solution:</b> The Town will conduct a hazard susceptibility analysis for the roads located in the Town. The Town will then acquire funding to implement these projects.</p>	No	No	2 Years	Highway Department, Engineering	\$10,000 for study	The Town will have a better understanding of road susceptibility.	HMGP, FMA,	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of German Flatts-010	Ilion Gorge - Analysis of Bank Stabilization(s), Debris Blockage, and Landslide for Steele Creek	1, 4	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town has issues relating to flooding along Steele Creek and the Town is unsure what the root of the problem is. The Creek is also at risk for contributing to landslides.</p> <p><b>Solution:</b> The Town will conduct an analytical study of Steele Creek to determine what the root of the flood issue is.</p>	No	No	1 Year	Town Administration, Engineering	TBD after Study	The Town will experience reduced flooding	HMGP, BRIC, FMA	High	SIP	SP
2023-Town of German Flatts-011	Pine Bush Rd Sediment Basin	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town has two deficient bridges that need to be replaced due to failing infrastructure and undersized capabilities.</p> <p><b>Solution:</b> The Town will conduct a study</p>	No	No	1 Year	Highway Department, Engineering	TBD after Study	The Town will be able to continue to use these bridges.	HMGP, FMA, BRIC, Bridge NY	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				to determine the best and most cost effective way of repairing the bridges and will implement that.										
2023-Town of German Flatts-012	Enhance Town GF Community Center as Emergency Shelter	1	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The Town does not have an emergency shelter with a backup generator that can be used to house and protect residents during major hazard events.</p> <p><b>Solution:</b> The Town will conduct a generator study to implement a generator into the community center so that the shelter can operate during power outages and will advertise the new sheltering</p>	Yes	No	2 Years	Town Administration, Engineering	\$100,000	The Town will be able to house residents temporarily during hazard events.	HMGP, BRIC, Generator Grant, Emergency Sheltering Grant	High	SIP	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				capability to residents.										
2023-Town of German Flatts-013	Fulmer Creek Early Warning System	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town does not have an early warning system installed at Fulmer Creek to warn residents and property owners of potential inundation events.</p> <p><b>Solution:</b> The Town will apply for funding to purchase and install an early warning system for Fulmer Creek to alert residents of potential flood events.</p>	No	No	3 years	Town Administration	\$50,000	The Town will be better prepared for potential flood events.	HMGP, FMA	High	SIP	ES
2023-Town of German Flatts-014	Develop Program for Mitigation Acquisition.	1	Flood	<p><b>Problem:</b> The Town does not have a protocol for FEMA acquisition and buyout for flood prone properties.</p>	No	No	1 Year	Town Administration	Staff Time	The Town will have a program to handle property owners interested in flood acquisition/buy out.	HMA, FMA	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The Town will develop a program to support property owners in flood acquisition and will conduct outreach to property owners that may be susceptible to flood.</p>										
2023-Town of German Flatts-015	Wetland Enhancement Study, Design and Construction - Upper Fulmer Creek and Steele	4	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town experiences flooding relating to the Upper Fulmer and Steele Creeks which is due to development and lack of wetlands.</p> <p><b>Solution:</b> The Town will conduct a wetland implementation study to evaluate the feasibility of enhancing wetland along</p>	No	No	2 Years	Town Administration	TBD after Study	The Town will experience reduced flooding and purer water.	HMGP, FMA, BRIC	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Fulmer and Steele Creek. Once determined the Town will implement the best and most cost effective solution.										
2023-Town of German Flatts-016	Town-wide Assessment of Dry Hydrant Placement and installation of new	1	Wildfire	<p><b>Problem:</b> The Town is vulnerable to the wildfire hazard and is unaware of the status of the current dry hydrants and is in need of additional hydrants to cover the wildfire area.</p> <p><b>Solution:</b> The Town will conduct an assessment of all dry hydrants in the Town and will document the status of them and will record where new hydrants are needed. The</p>	No	No	2 Years	Fire Department s, Town Administration	TBD after study	The Town will be better prepared from wildfires.	HMGP, BRIC	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Town will then acquire funding to install new hydrants.										
2023-Town of German Flatts-017	Generators for Town Municipal Building and Highway Department	1	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The Town does not have backup power in the Town Municipal Building or at the Highway Department building and cannot perform continuity of operations during hazard events.</p> <p><b>Solution:</b> The Town will conduct a generator study and will purchase and install backup generators to support critical Town functions. The Municipal Office Building will also be used as E.O.C.</p>	Yes	No	3 years	Town Administration, Engineering	\$100,000 per generator	The Town will be able to operate these facilities during power outages.	HMGP, BRIC, Generator Study, EOC grant	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Command Post. The generators will provide continuous power for services to ensure the health and safety of residents, businesses, and visitors. By providing power to municipal facilities and the department of public works, staff will be able to provide pre-, during, and post event services to communicate, monitor and respond to citizen issues. Services such										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				as heat and cooling will be uninterrupted to support the needs of vulnerable populations, community alerts and rapid inspections and monitoring to be available for earthquake events, equipment fuel will be available during snow, wildfire, and wind events to maintain uninterrupted access to critical facilities. .										
2023-Town of German	Create a Disease Outbreak Plan and Identify	1, 2	Disease Outbreak	<b>Problem:</b> The Town does not currently have a disease outbreak plan	Yes	No	1 Year	Town Administration	Staff Time	The Town will be better prepared for disease outbreak.	Town Budget	High	LP R	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
n Flatts- 018	Vaccination Center			<p>nor do they have identified vaccination clinics or locations where the Town can distribute PPE to their residents.</p> <p><b>Solution:</b> The Town will create a disease outbreak plan and will identify a vaccination clinic and locations where PPE will be distributed.</p>										
2023- Town of German Flatts- 019	Public Education about Invasive Knotweed	1, 4	Infestation	<p><b>Problem:</b> The Town suffers from the invasive knotweed which increases erosion along streambanks and stifles native plants and the residents are unaware.</p> <p><b>Solution:</b> The Town will work with Herkimer</p>	No	No	Ongoing	Town Administration, Herkimer Soil and Water	\$20,000	The Town will experience reduced flooding from invasive knotweed.	HMGP, FMA, Town Budget	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				soil and water to eliminate the invasive knotweed and prevent erosion along streambanks and will educate residents.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP)—These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.



- Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.9-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency/Champion	Other/Community	Total	High / Medium / Low
2023- Town of German Flatts-001	Mid-Fulmer GreenPlain Design and Construction* (STA 91+00 to STA 166+00)- station numbers	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High
2023- Town of German Flatts-002	Upper Fulmer GreenPlain Design and Construction (STA 175+00 to STA 233+00)	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High
2023- Town of German Flatts-003	Floodplain Easements in Mid and Upper GreenPlain Areas	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High
2023- Town of German Flatts-004	Tributary and Stream Assessments, Study, and/or Design for Flow Control/Flow Disbursement	1	1	1	1	1	1	0	1	1	0	1	1	0	1	11	High
2023- Town of German Flatts-005	Town Comprehensive Plan	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High
2023- Town of German Flatts-006	Land Use Regulations Update	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High
2023- Town of German Flatts-007	Culvert and Bridge Rightsizing and Drainage Improvements (Design and Construction):	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High
2023- Town of German Flatts-008	Second St Bridge Replacement and Walls	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High



Section 9.9. Town of German Flatts

Project Number	Project Name	Life Safety	Property	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency/Champion	Other/Community	Total	High / Medium / Low
2023- Town of German Flatts-009	Susceptibility Analysis - Roads within T German Flatts	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2023- Town of German Flatts-010	Ilion Gorge - Analysis of Bank Stabilization(s), Debris Blockage, and Landslide for Steele Creek	1	1	1	1	1	1	0	1	1	0	1	1	0	1	11	High
2023- Town of German Flatts-011	Pine Bush Rd Sediment Basin	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2023- Town of German Flatts-012	Enhance Town GF Community Center as Emergency Shelter	1	1	1	1	1	1	0	0	1	1	1	1	0	1	11	High
2023- Town of German Flatts-013	Fulmer Creek Early Warning System	1	1	1	1	1	1	0	0	1	1	1	1	0	0	10	High
2023- Town of German Flatts-014	Develop State Program for Mitigation Acquisition.	1	1	0	0	1	1	0	1	1	1	0	1	1	1	10	High
2023- Town of German Flatts-015	Wetland Enhancement Study, Design and Construction - Upper Fulmer Creek and Steele	1	1	0	1	1	1	0	1	1	1	1	1	0	1	11	High
2023- Town of German Flatts-016	Town-wide Assessment of Dry Hydrant Placement and installation of new	1	1	0	1	1	1	0	1	1	1	0	1	1	1	11	High
2023- Town of German Flatts-017	Generators for Town Municipal Building and Highway Department	1	1	1	1	1	1	0	0	1	1	1	1	0	1	11	High
2023- Town of German Flatts-018	Create a Disease Outbreak Plan and Identify Vaccination Center	1	0	1	1	1	1	0	0	1	1	0	1	0	1	9	High
2023-Muni-019	Public Education about Invasive Knotweed	0	1	1	1	1	1	1	1	1	1	0	1	1	0	11	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.10 TOWN OF HERKIMER

This section presents the jurisdictional annex for the Town of Herkimer that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Herkimer’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.10.1 Hazard Mitigation Planning Team

The Town of Herkimer identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Office of the Supervisor and Town Codes Department. The Town Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.10-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Dominic Frank – Town Supervisor Address: 114 N. Prospect St, Herkimer, NY 13350 Phone Number: (315) 868-4180 Email: supervisor@townofherkimer.org	Name/Title: Daniel Stalteri – Deputy Supervisor Address: 114 N. Prospect St, Herkimer, NY 13350 Phone Number: (315) 723-5187 Email: dans@hummelsop.com
<b>NFIP Floodplain Administrator</b>	
Name/Title: Ken Collis – Codes Department Address: 114 N. Prospect St, Herkimer, NY 13350 Phone Number: (315) 866-8106 Email: codes@townofherkimer.org	
<b>Additional Contributors</b>	
Name/Title: Vito Carbone , Councilman Method of Participation: Provided input to town capability assessment	
Name/Title: Ken Ward, Highway Superintendent Method of Participation: Provided input to town capability assessment	
Name/Title: Dan Stalteri, Councilman Method of Participation: Provided input to town capability assessment	



## 9.10.2 Municipal Profile

The Town of Herkimer is located on the north bank of Mohawk River, flanked along the water by the Town of Little Falls to the east and the Town of Schuyler to the west. The Village of Herkimer is nested in the south-central section of the town. The West Canada Creek bisects the Town in the east, and Steuben Hill State Forest lies in the northeast corner, where the forest spills into neighboring Schuyler and the Town of Newport to north. Fairfield borders the Town of Herkimer to the northeast. Its position on the Mohawk River and, as such, the Erie Canal spurred growth in population, the economy, and recreational opportunities. Its Mohawk Valley location provides access to major transportation corridors such as Interstate 90 and New York State Routes 5 and 28.

According to the U.S. Census, the 2020 population for the Town of Herkimer was 2,332, a 4.1-percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 3.4 percent of the population is 5 years of age or younger and 26.3-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Herkimer has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 8.83% of the population does not have a high school diploma
- 19.25% of the population has a disability
- 21.20% of households do not have a vehicle
- 8.78% of the population is living below the poverty level
- 7.26% of the population is unemployed

## 9.10.3 Jurisdictional Capability Assessment and Integration

The Town of Herkimer performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Herkimer to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Herkimer. The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.

**Table 9.10-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Codes Officer and Zoning Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Herkimer has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Zoning Ordinance – Town of Herkimer	Local	Codes Officer and Zoning Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Herkimer Zoning Ordinance is for promoting the health, safety, morals, or the general welfare of the community, and to lessen congestion in the streets, to secure safety from fire, flood, panic and other dangers, to provide adequate light and air, to prevent the overcrowding of land and to avoid undue concentration of population, water, sewerage, schools, parks and other public requirements.				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>▪ Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use? Yes</li> <li>▪ Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains? Yes</li> <li>▪ Does it contain natural overlay zones that set conditions? Not to my knowledge</li> <li>▪ Does the ordinance require developers to take additional actions to mitigate natural hazard risk? Yes</li> <li>▪ Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? Yes</li> </ul>				
Subdivision Ordinance	Yes	Subdivision Ordinance	Local	Codes Enforcement Officer, Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>▪ Provide for the future growth and development of the town.</li> <li>▪ Afford adequate facilities for the housing, transportation, distribution, comfort, convenience, safety, health, and welfare</li> <li>▪ Show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings.</li> <li>Assure that the subdivision streets and highways shall be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance.</li> <li>Find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul> <p>Consider the following:</p> <ul style="list-style-type: none"> <li>Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas? Yes</li> <li>Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources? Yes</li> <li>Do the regulations allow density transfers where hazard areas exist? Not to my knowledge</li> </ul>				
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Flood Damage Prevention Ordinance	Yes	Local Law #1 Flood Damage Prevention of 1987.	-	-
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Herkimer County Comprehensive Emergency Management Plan (CEMP)	County	Herkimer County Emergency Services
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 The Plan is the County’s designated for all hazards preparedness, response, recovery, and mitigation efforts in the event of a hazard. The CEMP also designates the County Director of Emergency Services as the County Mitigation Coordinator and defines roles and responsibilities for monitoring, evaluating, and updating the county’s hazard mitigation plan.  
  
 The Town indicated that its CEMP covers short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards.

Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Herkimer to oversee and track development.

**Table 9.10-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Codes
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Codes
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	The Town of Herkimer does not have buildable land inventory-
Describe the level of build-out in your jurisdiction.	N/A	There is no buildout in the town of Herkimer

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Herkimer and their current responsibilities that contribute to hazard mitigation.

**Table 9.10-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The five-member Planning Board is responsible for subdivision approvals, site-plan reviews.
Zoning Board of Adjustment	Yes	The five-member Zoning Board of Appeals is responsible for approval of special use permits, enforcing all building



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		and zoning codes, and approving or denying any variances
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Highway Department maintains 47 miles of roads in the Town. This includes maintenance during extreme winter conditions, green waste pick-ups and trash collection.
Construction/Building/Code Enforcement Department	Yes	The Codes Officer and Zoning Enforcement Officer is appointed by the town board to enforce the codes and zoning ordinances of the town and performs building and fire code inspections.
Emergency Management/Public Safety Department	Yes	The East Herkimer Volunteer Fire Department provides services to 32.2 square miles in the Town of Herkimer, not including the 2.8 square miles covered by the Village of Herkimer. EHFD also responds to mutual aid calls in the neighboring Mohawk Fire Department area and as requested by other agencies.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	The volunteer fire department utilizes a warning system that can be used to notify the community about emergencies or other unusual circumstances
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	Mutual Aid agreements between East Herkimer Fire Department and Mohawk Fire Department
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	
Other	No	
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	Hired as needed
Emergency Manager	Yes	Police Chief
Grant writer(s)	No	Hired as needed
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

The Town of Herkimer’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Herkimer.

**Table 9.10-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Herkimer.

**Table 9.10-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	See Warning Systems/Services above
Natural disaster/safety programs in place for schools	Yes	Fire and Police Departments conduct natural disaster and safety-related school programs
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? • If yes, please describe.	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Herkimer.

**Table 9.10-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 5	-



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note: At the time of writing, the Town was unable to identify the date classified for the Public Protection program.  
 N/A Not applicable  
 - Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.10-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

The Town increased their adaptive capacity from ‘Moderate’ to ‘Strong’ for the Severe Winter Storm hazard due to standard operating procedures and maintenances programs put in place by the Highway Department.

### 9.10.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.



## National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Herkimer.

**Table 9.10-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Town of Herkimer	4	7	28,018	0	0	0

Source: HUDEX, retrieved 1/2023

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

## Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Herkimer.

**Table 9.10-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Along the West Canada Creek there are two areas: the Kast Bridge and Farber Lane Areas
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	The Town does not maintain a list of property owners interested in flood mitigation. The Town is not aware of any homeowners and or businesses interested in mitigation.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	There are no RiskMAP projects underway in the Town.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Substantial Damage determinations are made using FEMA Standards. There were no such determinations made for recent flood events.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	There have been no properties mitigated in the Town.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	The Town flood hazard maps adequately address the flood risk in the Town.
<b>NFIP Compliance</b>	



NFIP Topic	Comments
What local department is responsible for floodplain management?	Codes Enforcement Officer (CEO)
Are any certified floodplain managers on staff in your jurisdiction?	The Town does not have a certified floodplain manager. The CEO has attended floodplain training.
Do you have access to resources to determine possible future flooding conditions from climate change?	The Town is unaware of resources helpful in the determination of future flooding conditions due to climate change
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes, the Town’s staff needs assistance in permitting, GIS and inspection training.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	The Town provides permitting and inspection services.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	The Town uses FEMA standards.
What are the barriers to running an effective NFIP program in the community, if any?	Funding, training, staffing and time
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	The Town does not have any outstanding NFIP compliance violations that need to be addressed.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	The Town believes the last such visit was in 2018.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law #1 Flood Damage Prevention of 1987. The Town is unaware of any amendments of the 1987 Ordinance.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	The Town feels its floodplain management program meets minimum requirements.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	There are other local ordinances, plans or programs that supports floodplain management and meeting the NFIP requirements. The Town’s Planning Board and its Zoning Board considers efforts to reduce flood risk when reviewing site plans, and any variances.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	The Town has no plans at this time to join the CRS program.



### 9.10.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.10-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.10-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	2	0	1	0	2	0	2	0	0	0	3	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	1	0
Other (commercial, mixed-use, etc.)	33	0	20	0	38	0	35	0	40	0	26	0
<b>Total New Construction Permits Issued</b>	<b>35</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>37</b>	<b>0</b>	<b>40</b>	<b>0</b>	<b>30</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None Identified												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None Identified												

SFHA Special Flood Hazard Area (1% flood event)  
 \* Only location-specific hazard zones or vulnerabilities identified.

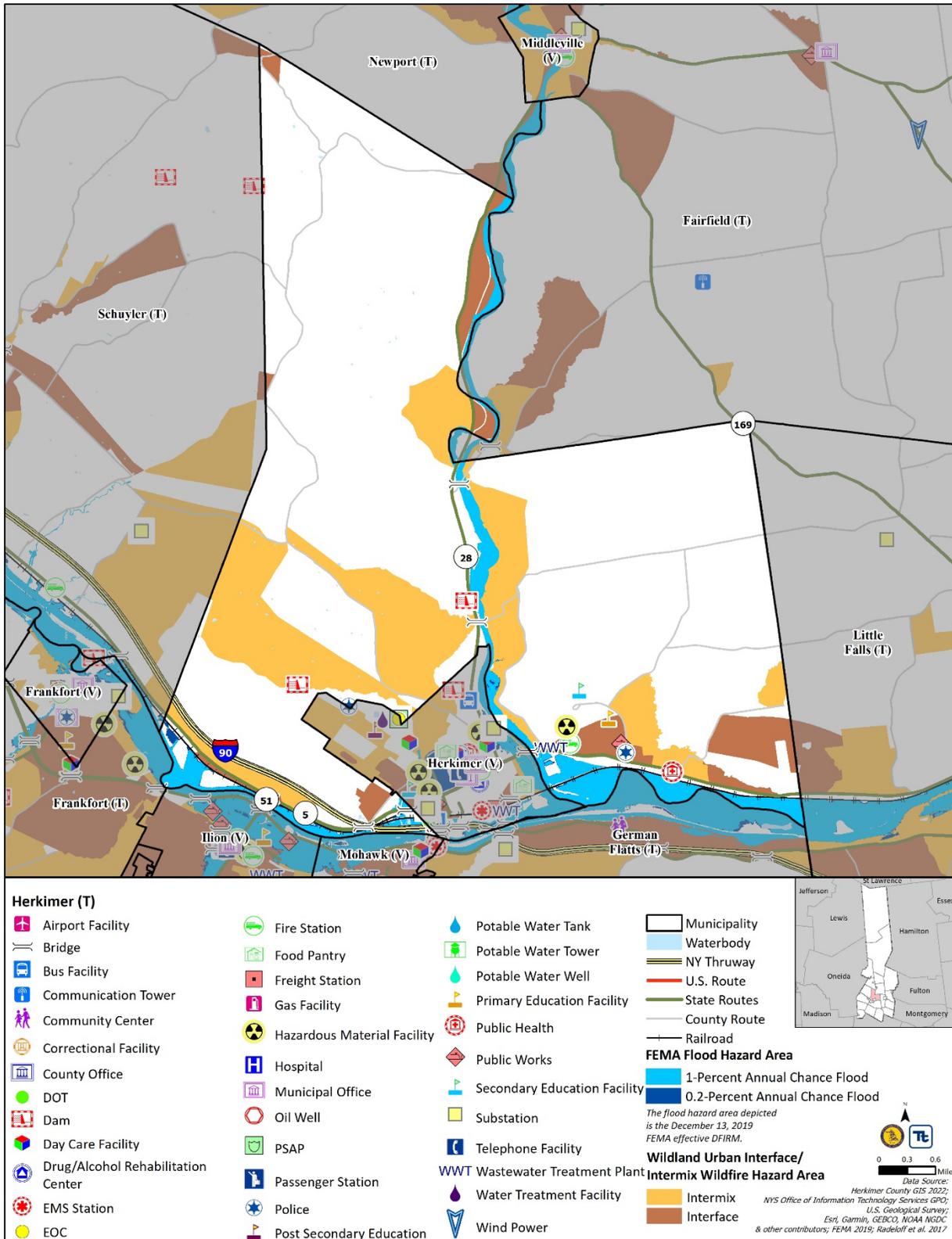
### 9.10.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Herkimer’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Herkimer has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.10-1. Town of Herkimer Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Herkimer’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.10-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.10-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Numerous drainage pipes and culverts plugged or collapsed. Several roads washed out.
October 31- November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	A major impact was on Osborne Hill Road where several culverts were compromised resulting in flooding cumulating in over \$100,000 damage of which FEMA funded 75% of the repairs. A catastrophic result of this storm has created an issue in the West Canada Creek resulting in undermining of the supporting walls of East German Street Extension and the collapsing of a section of the road.
January 2020 - ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Several Highway employees could not work due to illness culminating in approximately lost 360 hours. The Town Court could not function as usual due to restrictions passed down by the State’s Judicial System.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing	The Town is unaware of any major damage or loss other than usual fallen trees/limbs road maintenance.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			damaging winds. Around 71,000 customers were without power at the height of the storm.	

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Herkimer’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Herkimer. The Town of Herkimer reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated that it agreed with the hazard rankings.

**Table 9.10-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low



Hazard	Rank
Disease Outbreak	Low

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.10-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
West End Road bridge over West Canada	Bridge	x	x	2023-HerkimerT-003	-

Source: Herkimer County 2023

### Identified Issues

After review of the Town of Herkimer’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Herkimer identified the following vulnerabilities within their community:

- Erosion from flooding of West Canada Creek particularly along East German Street Extension and the east bank north of the East German Street Ext. To Kast Bridge
- The Town does not have a Command Center or Shelter
- Erosion on East German Street Ext resulting in loss of function to roadways, infrastructure, and utilities for homes
- Erosion on Piper, Main and Folts Road cause loss of road function and infrastructure protection
- Osborne Hill Road North and South culvert need to be upsized to reduce storm water flooding
- Fiddletown and North Creek Road Bridge experiences storm water flooding during storm events
- Erosion on West German Street results in the loss of roadway function and weaken infrastructure protection
- Hydroelectric Dam is not operation which is causing erosion
- Current methods of informing residents of impending hazards are outdated



\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### **9.10.7 Mitigation Strategy and Prioritization**

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### **Past Mitigation Initiative Status**

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.10-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
TOH-001	Beaver Creek Culvert Expansion	Flood, Flash Flooding and Erosion	Town of Herkimer Highway Department	Over the last several years, due to heavy rain storms the Creek as over flowed and damaged the roads and personal property. The culverts need to be replaced as they are too small to handle the situation	No progress	Cost	-	Project to be included in the 2023 HMP
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TOH-002	Establish List of Alternative Potable Water Sources	Drought	Town Board	Establish a comprehensive list of alternative water potable sources to save on reaction time by local governments in draught conditions and allows for identified sources for potable water for homes and farms that are on wells	Ongoing, by 2024 an additional 60 homes will be served by municipal water in the West Herkimer area of the town of Herkimer	Cost	-	Project to be included in the 2023 HMP
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TOH-003						Cost	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	East German Street Extension & West Canada Creek - Landslide, Erosion & Flooding Solution	Landslide, erosion, flooding	Town Highway and Water Departments	In 2014 the Town of Herkimer provided a short-term solution to a portion of the northern part of East German Street Ext as this road collapsed, jeopardizing homes located along the road. The collapse not only jeopardized the infrastructure that supplies water, electric and gas to those same homes but also the supply lines to the Petrie Development that has 60 homes. To fund this short-term solution, the Town was provided a small grant via the USDA and engaged USDA loan and a long-term debt. The problem is that, over time due to storms and the	The road has collapsed. Beginning in early 2020 noticeable cracks in the road were evident. Consultant Engineer from 2014 was engaged to inspect and provided a short-term solution to the road of excavating it and refilling the material and repaving the road in 2021. By mid- summer of 2022 it was evident of serious problems. The consultant engineer study the issue with surveying, divers and analysis, The temporary repair of 2014 is compromised. The West Canada has undermined the 100-year-old wall which supports the sheet piled wall installed in 2014 and has caused the sheet pile wall to bow and buckle. Additionally, the Town recognizes the potential	Level of Protection	-	Project to be included in the 2023 HMP and should be included with projects # 8 and #13 with consideration of the 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning.
						Damages Avoided; Evidence of Success	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				<p>removal of a bridge, the West Canada Creek has been re-routed to unleash its current against its west banks and over future time will once again cause the road to collapse and once again jeopardize the homes and infrastructure. To that end, the Town of Herkimer was awarded a grant via NYS Empire development and engaged a consulting engineer firm (C.T. Male) to study the situation from East German Street Ext north to the Kast Bridge area of the Town and present a long-term solution to the problem. The Study is entitled 2016-2017</p>	<p>the erosion has caused the Don Mitchel Bridge which is located just north of the issue on East German Street and just south of the dam mentioned in project #13. The Town initiated a State of Emergency regarding East German Street Extension with orders in September of 2022 which will continue for a considerable time in the future. Immediate action had the Tow Highway Department excavate 4 to 5 feet of the road to relive pressure against the retaining sheet pile wall and the engineer has provided an analysis report with another 2-to 2.3-million-dollar short term strategy to repair the wall, road and limit erosion. The Town has not mandated</p>		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning Study.	evacuation and temporary solutions for residents to access their homes have been made. In 2021 the Town submitted to FEMA for funding of the mitigation strategy stemming from the entitled 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning Study but was denied.			
TOH-004 E	and -012	Landslide and Erosion	Town of Herkimer Water and Highway Departments	The water main for the East Herkimer Water District is located on an eastern bank of the of the West Canada Creek. The embankment is extremely steep and heavy rains and storms present jeopardy for the long-term stability of the water line and water main. There is	Ongoing see project number 12	Cost	-	To be included in the 2023 HMP but combined with project #6 and #12 Piper, Main and Folts Roads Stabilization Engineering Study
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				evidence that the bank is eroding.		Cost	-	
TOH-005	Fiddletown Rd & North Creek Rd Bridge Elevation	Flood, Flash flooding and erosion	Town of Herkimer Highway Department	Town of Herkimer the bridge spans North Creek The bridge has washed out several times due to heavy storms, ice jams and debris. the road and the bridge need to be elevated.	Ongoing. The Town has applied for Bridge and culvert funding through NYS but has not been successful to date.	Level of Protection	-	Project to be included in the 2023 HMP
						Damages Avoided; Evidence of Success	-	
TOH-006	Folts Road Bank Stabilization	Landslide and Erosion.	Town of Herkimer Highway and Water Departments	Many homes are located on Folts Road. Some of these homes are located on the Western side of the road are situated on a very steep bank. These homes are dangerously close to the edge of the bank. Erosion is jeopardizing these homes and the road. In fact, recently a home has been abandoned due to	Ongoing see project number 12	Cost	-	To be included in the 2023 HMP but combined with project #4E and #12 Piper, Main and Folts Roads Stabilization Engineering Study
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



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Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				its precarious situation on the bank.				
TOH-007	Herkimer Levee Stabilization Engineering Study	Flooding	NEW York State DEC and Village of Herkimer	Yearly maintenance of levee gates and levee	Ongoing	Cost	-	Discontinue as it is the Town's understanding that the annual maintenance and inspections office through the relationship of the State of new York and the Village of Herkimer.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TOH-008	West Canada Creek at Kast Bridge Bank Stabilization for Erosion Control	Erosion and flooding	Town of Herkimer	This plan concerns the east bank of the West Canada as it has had flooding issues there from the West Canada. The flooding has caused property damage and erosion of the banks of the West Canada.	In progress. The plan should be incorporated with plans # 3 and #13. In 2021 the Town submitted to FEMA for funding of the mitigation strategy stemming from the entitled 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning Study but was denied.	Cost	-	Project to be included in the 2023 HMP and should be included with projects # 3 and #13 with consideration of the 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



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Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
TOH-009	Oberle Rd Bank Stabilization	Landslide, Erosion, Washouts	Town of Herkimer Highway Department for Road. Village of Herkimer Water Department for Water Line	A portion of Oberle Road supports the Gravesville water line and main of the water system Village of Herkimer. It is a very steep road with very steep gulches and ravines. Over the years erosion has jeopardized the road and the water line. Oberle Road has washed out during heavy rains and has jeopardized the Village's water supply.	No progress	-	-	Discontinue. The Town has closed a portion of the road to traffic. The Village of Herkimer maintains its water line.
TOH-010	Osborne Hill Rd Culvert Replacement and Expansion	Landslide, Erosion, Washouts	Town of Herkimer Highway Department	Osborne Hill Road is a narrow winding oscillating road, with many deep gulches, and several areas that have been mitigated via FEMA funds in the last four – five years. The area of concern of this plan lies about 4	In progress. The area of concern listed in the summary of the original problem washed out along with two other culverts. FEMA funds of \$76,000 helped to repair to existing conditions the over 100,000 damage to the road and culverts.	-	-	Project to be included in the 2023 HMP



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				miles from Route 28 and is a very deep gulch that has undersized culverts and culverts in need of repair. The concern is possible flooding due to the undersized culverts, damaging the road and infrastructure. The road in this same area features blind spots due to the twisting and oscillating road.				
TOH-011	Petrie Levee Operation Engineering Study	Flooding	New York State DEC	Yearly maintenance of levee gates and levee	On going	Cost	-	Discontinue as it is the Town's understanding that New York state DEC has a maintenance plan in place
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TOH-012	Piper, Main and Folts Roads Stabilization Engineering Study	Landslide	Town of Herkimer Highway and Water Departments	Piper Road and the Piper Road Spur both lie beneath Folts Road and above the West Canada Creek. Piper	In progress. The town has been awarded a FEMA Mitigation Grant titled Town of Herkimer West Canada Creek Landslide Prevention	Cost	-	Projects #4, #6 and #12 are to be included in the 2023 HMP under project 12; Town of Herkimer West Canada Creek
						Level of Protection	-	
						Damages Avoided;	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				<p>Road intersects with Main Road which runs parallel to NYS Route 5. The Water Main serving the area is located at this intersection.</p> <p>Also, at this intersection and running East on Main Road to Edgar Street are retaining walls on both the North and south Sides of Main Road holding an embankment. Both retaining walls are losing their ability to hold the embankments as they are deteriorating.</p> <p>Twenty plus homes are located along Piper Road and the Piper Road Spur. The problem for Piper Road and its spur is twofold: base</p>	<p>Scoping Project which combines Project Numbers 4, 6 and 12 into the engineering study to develop mitigation strategies. The Town is currently negotiating the contract for such work with the selected engineering firm. The Town expects the study to be finished and reports delivered by the end of 2023.</p>	<p>Evidence of Success</p>	<p>Landslide Prevention Scoping Project</p>



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				erosion will potentially cause the Folts Road to landslide onto Piper Road and its spur and base erosion will potentially cause Piper Road and its spur to landslide into the West Canada Creek. The potential landslides jeopardize lives, homes, infrastructure and the environment. Each heavy rain storm leaves evidence of the erosion occurring below and above Piper Road and its spur.				
TOH-013	Hydro Plant – Echo Sponsile	Flooding	Trafalgar Power, Inc., NYS DEC	This person has been cited for mismanaging the hydro dam. Interested buyer to	In-Progress	Cost	-	Project to be included in the 2023 HMP and should be included with projects #3 and #8
						Level of Protection	-	



Section 9.10. Town of Herkimer

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				bring the dam back to life to produce power again. DEC would like to remove the dam and restore it to its natural state. Erosion that this inoperable dam has caused needs to be repaired. Because this is not operating it is increased the flow of West Canada Creek and erosion throughout the Creek.		Cost	-	with consideration of the 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning.
TOH- 014	West German Street Water District – Bank Stabilization	Erosion & landslide	Highway Superintendent	Water line sits above the bank and is eroding. Stabilize the bank on West German Street. WGS sit above a bank that is eroding, by stabilizing the bank it would mitigate the water line erosion process	No Progress	Cost	-	Project included in the 2023 update.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TOH - 015		Flood	Town of Herkimer		No Progress	Cost	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	Temporary Housing and Relocation Plans			No location for temporary housing units for residents impacted by disaster.		Level of Protection	-	Project to be included in the 2023 HMP
						Damages Avoided; Evidence of Success	-	



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.10-15, the Town of Herkimer identified the following mitigation efforts completed since the last HMP:

- Study conducted to identify potential potable water sources
- An engineering study, focused on developing mitigation strategies to reduce the risk of washouts at the North Creek Bridge, will be completed in 2023.
- The Town was awarded \$100,000 to conduct a flood study on Piper Road, Main Road, and Folts Road; this study was completed in May 2023.

Since the adoption of the County’s first HMP, the Town of Herkimer has made significant mitigation progress in the following areas:

- Conducting various studies to determine best paths forward in identifying mitigation actions to reduce the Town’s risk to flooding.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Herkimer participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.10-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X			X	X		X			X
Drought	X			X			X			X
Flood	X	X		X	X	X	X		X	X
Severe Storm	X	X		X	X	X	X		X	X
Severe Winter Storm	X	X		X	X	X	X		X	X
Wildfire	X			X	X		X			X
Infestation				X			X			
Dam Failure	X			X	X		X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.10-17).

The table below summarizes the specific mitigation initiatives the Town of Herkimer would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.10-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-HerkimerT-001 (Former TOH-001)	Beaver Creek Culvert Expansion	1	Flood	<p><b>Problem:</b> Over the last several years, due to heavy rain storms the Creek as over flowed and damaged the roads and personal property.</p>	No	Yes	4 to 5 years	Highway Department	High	High	BRIC, HMGF, NYS CFA, DOS LWRP, EFC, GIGP, NYS OPRHP, NYS SAMS, NYS EPF, DEC MOHAWK WATERSHED	Medium	SIP	SP
				<p><b>Solution:</b> Replace culverts surrounding Beaver Creek to improve stormwater management and reduce flooding impacts.</p>										
2023-HerkimerT-002 (Former TOH-002)	Establish List of Alternative Potable Water Sources	1, 2	Drought	<p><b>Problem:</b> Three population clusters are served by municipal water. The remaining Town is rural and agricultural consisting of small family farms and homes on private wells. Thus, the threat of a town wide drought will cause the lack of potable water to sustain residents, farms, and other agricultural endeavors.</p>	Yes	No	1 to 2 years	Town Board	Low	High	BRIC, HGMP	High	LPR	ES
				<p><b>Solution:</b> Establish a comprehensive list of alternative water potable sources to save on reaction time by local governments in drought conditions and allows for identified sources for</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				potable water for homes and farms that are on wells.										
2023-HerkimerT-003 (Former TOH-003, -008, -0013)	East German Street Extension & West Canada Creek - Landslide, Erosion & Flooding Solution	1	Flood, Severe Storm, Severe Winter Weather	<p><b>Problem:</b> The West Canada has undermined the 100-year-old wall which supports the sheet piled wall installed in 2014 and has caused the sheet pile wall to bow and buckle. The Town recognizes the potential the erosion has caused the Don Mitchel Bridge (Item Number 2204630 in the NYDEC 2023 Bridge Inventory) which is located just north of the issue on East German Street and just south of the hydroelectric dam. The Town initiated a State of Emergency regarding East German Street Extension with orders in September of 2022. In 2021 the Town submitted to FEMA for funding of the mitigation strategy stemming from the entitled 2016-2017 C.T. Male Study; West Canada Creek Flood Mitigation Strategic Planning Study but was denied.</p> <p><b>Solution:</b> The town will continue to seek funding for the 2016-2017 C.T. Male Study;</p>	Yes	No	5 years	Highway Department, NYS DEC	High	High	BRIC, HMGFP	Medium	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				West Canada Creek Flood Mitigation Strategic Planning Study to resolve the issues stemming from the German Street Extension and West Canada Creek. A specific, critical issues has been flagged by NYSDOT with the Don Mitchell Bridge that crosses the West Canada creek at shells Bush Road. The town will engage an engineering firm to design the mitigation										
2023-HerkimerT-004 (former TOH-004E, -006, and -012)	Town of Herkimer West Canada Creek Landslide Prevention Scoping Project	1, 3	Flood, Severe Storm, Severe Winter Weather	<b>Problem:</b> Piper Road and the Piper Road Spur both lie beneath Folts Road and above the West Canada Creek. Piper Road intersects with Main Road which runs parallel to NYS Route 5. The Water Main serving the area is located at this intersection. Also, at this intersection and running East on Main Road to Edgar Street are retaining walls on both the North and south Sides of Main Road holding an embankment. Both retaining walls are losing their ability to hold the embankments as they are deteriorating. Twenty plus homes are located along Piper Road and the Piper Road Spur.	No	No	5 years	Highway Superintendent	High	High	BRIC, HMGP	Medium	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>The problem for Piper Road and its spur is twofold: base erosion will potentially cause the Folts Road to landslide onto Piper Road and its spur and base erosion will potentially cause Piper Road and its spur to landslide into the West Canada Creek. The potential landslides jeopardize lives, homes, infrastructure, and the environment. Each heavy rain storm leaves evidence of the erosion occurring below and above Piper Road and its spur.</p> <p><b>Solution:</b> The town has been awarded a FEMA Mitigation Grant titled Town of Herkimer West Canada Creek Landslide Prevention Scoping Project which produced an engineering study to develop mitigation strategies. The Town expects the study to be finished and reports delivered by the end of 2023. The Town is currently negotiating the contract for such work with the selected engineering firm to implement the study's findings.</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-HerkimerT-005 (Former TOH-005)	Fiddletown Rd & North Creek Rd Bridge Elevation	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> Located in the Northeast section of the Town of Herkimer the bridge spans North Creek (Item number 2204630 in the NYDEC 2023 Bridge Inventory) which drains into the West Canada River. The bridge has washed out several times due to heavy storms, ice jams and debris.</p> <p><b>Solution:</b> Seek funding through various grants to elevate the bridge.</p>	Yes	Yes	3 to 4 years	Highway Department	High	High	BRIC, BRIDGE NY	Medium	SIP	PP
2023-HerkimerT-006 (Former TOH-010)	Osborne Hill Rd Culvert Replacement and Expansion	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> Osborne Hill Road connects with NYS Route 28 at two intersections. The road is a narrow, winding, oscillating one with many deep gulches. Several segments were mitigated with FEMA in recent years. The point of concern lies about 4 miles from Route 28, where a deep gulch and undersized culverts must be repaired. Undersized culverts cause flooding that damages the road and infrastructure. The road also includes blind spots due to its twisting and oscillating layout.</p>	No	Yes	2 to 3 years	Highway Department	Medium	High	HMGP, NYS CFA, DOS, LWRP, EFC, GIGP, NYS OPRHP, NYS SAMS, NYS EPF, DEC MOHAWK WATERSHED	Medium	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Repair and resize existing culverts to mitigate flooding.										
2023-HerkimerT-007	Public Emergency Information	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Current dissemination of emergency information to the public is outdated.</p> <p><b>Solution:</b> The Town will utilize its website and social media for education and outreach regarding hazards to the Town and impending risks. The town will conduct and improve community and public education and awareness to promote hazard risk reduction. The town will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website. It will disseminate the county materials noted in action number 2023-Herkimer</p>	No	No	1 year	Fire Department, Highway Department, Town Board, Town Supervisor	Low	High	Local Funds, BRIC, HMGF	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				County-O22 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health.										
2023-HerkimerT-008	Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	5 years	Town Floodplain Administrator	Medium	Medium	HMGp	Medium	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-HerkimerT-009	West German Street Water District – Bank Stabilization	1, 3	Severe Storm, Flood, Severe Winter Storm	<p><b>Problem:</b> The road and its embankment support a water line and main for the West German Street Water District of the Town. The embankment is extremely steep and heavy rains and storms present jeopardy for the stability of the water line and water main.</p> <p>There is evidence that the bank is eroding, and various short-term solutions have been applied, but a long-term solution is needed to secure the infrastructure.</p>	Yes	Yes	5 years	Highway Superintendent	High	High	NY State and Federal government	Medium	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> Stabilize the embankment and secure the water supply. Phase 1. The Town of Herkimer needs a study performed by a qualified engineering firm to determine the correct mitigation plan resolving the erosion occurring along the West German Street embankment and to determine the best course of action protecting the Town's main and water line. Phase 2. Implementation of stabilization construction.</p>										
2023-HerkimerT-010	Temporary Housing and Relocation	1, 2, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure, Extreme Temperature	<p><b>Problem:</b> The Town of Herkimer does not have existing pre-designated sites for temporary housing units for residents impacted by disasters nor does it have pre-designated sites for the relocation of housing due to acquisition of property for flood mitigation purposes.</p>	No	No	2 to 3 years	Town Board	Medium	Medium	Local Funds, NY State & Federal Government	High	LPR	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Determine if potential/suitable sites for placement of temporary housing units for residents displaced by disasters exists in the Town of Herkimer or nearby communities. Develop such sites as needed within the Town of Herkimer per NYS Uniform Fire Prevention and Building Code and/or coordinate such with neighboring communities in context and consistent with their respective mitigation and emergency plans.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain



*Mitigation Category:*

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

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.10-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-HerkimerT-001	Beaver Creek Culvert Expansion	1	1	1	1	0	1	0	0	0	1	0	1	0	0	7	Medium
2023-HerkimerT-002	Establish List of Alternative Potable Water Sources	1	0	1	1	1	1	1	1	1	1	0	1	1	0	11	High
2023-HerkimerT-003	East German Street Extension & West Canada Creek – Landslide, Erosion & Flooding Solution	0	1	1	1	0	1	0	1	0	0	1	1	1	0	7	Medium
2023-HerkimerT-004	Town of Herkimer West Canada Creek Landslide Prevention Scoping Project	0	1	1	1	0	1	0	1	0	0	1	1	1	0	7	Medium
2023-HerkimerT-005	Fiddletown Rd & North Creek Rd Bridge Elevation	0	1	1	1	0	1	0	1	0	0	1	1	0	0	7	Medium
2023-HerkimerT-006	Osborne Hill Rd Culvert Replacement and Expansion	0	1	1	1	0	1	0	0	0	1	1	1	0	0	7	Medium
2023-HerkimerT-007	Public Emergency Information	1	0	1	1	1	1	1	0	1	1	1	1	0	0	10	High
2023-HerkimerT-008	Substantial Damage Response Plan	0	1	1	1	0	1	0	1	0	0	1	1	0	0	8	Medium
2023-HerkimerT-009	West German Street Water District – Bank Stabilization	0	1	1	1	0	1	0	0	0	0	1	1	0	0	6	Medium
2023-HerkimerT-010	Temporary Housing and Relocation	1	0	1	1	1	1	1	0	1	1	1	1	0	0	10	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.11 VILLAGE OF HERKIMER

This section presents the jurisdictional annex for the Village of Herkimer that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Herkimer’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.11.1 Hazard Mitigation Planning Team

The Village of Herkimer identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the Village Fire Department and the Village Police Department. The Village Fire Department represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership, Steering Committee, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.11-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Michael Jory – Chief/Village of Herkimer Police Address: 120 Green Street, Herkimer, NY 13350 Phone Number: 315-866-4330 Email: mjj@village.herkimer.ny.us	Name/Title: Justin Cristman –DPW Superintendent Address: 120 Green Street, Herkimer, NY 13350 Phone Number: 315-866-4330 Email: jcristman@village.herkimer.ny.us
<b>NFIP Floodplain Administrator</b>	
Name/Title: Steve Gay – Codes Officer Address: 120 Green Street, Herkimer, NY 13350 Phone Number: 315-866-4330 Email: sgay@village.herkimer.ny.us	



## 9.11.2 Municipal Profile

The Village is located within the Town of Herkimer, which surrounds the Village on the north and west. The Mohawk River borders the Village to the south, and West Canada Creek is the eastern boundary.

According to the U.S. Census, the 2020 population for the Village of Herkimer was 7,234, a 7-percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 2-percent of the population is 5 years of age or younger and 24.9-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Village of Herkimer has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 14.02% of the population does not have a high school diploma
- 31.26% of the population has a disability
- 26.73% of households do not have a vehicle
- 21.65% of the population is living below the poverty level
- 9.76% of the population is unemployed

## 9.11.3 Jurisdictional Capability Assessment and Integration

The Village of Herkimer performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Herkimer to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Herkimer. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.11-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Village of Herkimer has adopted the New York State Uniform Fire Prevention and Building Code. Modern building codes lead to major reduction in property losses from natural disasters.				
<b>Zoning/Land Use Code</b>	Yes	Local Law 1 – Zoning Ordinance	Local	Code Enforcement Offer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The purpose of this ordinance is to classify, regulate and restrict the height, number of stories and size of buildings and other structures, the percentage of lot that may be occupied, size of yards and other open spaces, density of population and location and use of buildings, structures and land for trade, industry, residence, and other purposes; to establish the boundaries for districts, and to promote the public health, safety, morals and general welfare of the Village.				
<b>Subdivision Ordinance</b>	No	-	-	-
<b>Site Plan Ordinance</b>	Yes	2020 Village Master Plan Development	Local and County	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> Site Plan review is addressed in the 2020 Village Master Plan Development Site.				
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	Local Law 1-2002	Local	Village Board

*How has or will this be integrated with the HMP and how does this reduce risk?*

The purpose of this chapter is to promote the public health, safety, and welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- Regulate uses which are dangerous to health, safety, and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities
- Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction
- Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters
- Control filling, grading, dredging and other development which may increase erosion or flood damages
- Regulate the construction of flood barriers which will unnaturally divert floodwaters, or which may increase flood hazards to other lands
- Qualify and maintain for participation in the National Flood Insurance Program

<b>Wellhead Protection</b>	No	-	-	-
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	No	-	-	-

**Planning Documents**

<b>Comprehensive Plan</b>	Yes	Village Master Plan 2020	Local	Village Board
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The primary goal of the Master Plan 2020 is to provide the future vision of the Village of Herkimer with as much reinforcing and supportive documentation as possible, including select content from prior plans that remain applicable.

<b>Capital Improvement Plan</b>	No	-	-	-
<b>Disaster Debris Management Plan</b>	No	-	-	-
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	Yes	Herkimer County Comprehensive Emergency Management Plan	Local, County	Village Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Emergency Management Plan guides department response and coordination in the event of a hazard or emergency.				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Substantial Damage Response Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Herkimer to oversee and track development.

**Table 9.11-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	This is a function of the Codes Officer
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>		Codes Enforcement
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	According to the Village’s comprehensive plan, nearly 70% of the existing housing is one-unit use (there are 5 multi-unit residencies). Of the 30% of 1,539 acres within the incorporated Village considered vacant, about 22% of that was zoned for residential use. The remaining 66% of vacant land



Indicate if your jurisdiction implements the following	Yes/No	Comment:
		not zoned as residential is available for development.

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Herkimer and their current responsibilities that contribute to hazard mitigation.

**Table 9.11-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Village Planning Board consists of five members. The board is responsible for reviewing site plans and subdivisions
Zoning Board of Adjustment	Yes	The Village Zoning Board consists of six members. The Board is responsible for maintaining local zoning laws and ordinances
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Department of Public Works is responsible for maintaining Village roads and general maintenance
Construction/Building/Code Enforcement Department	Yes	The Code Enforcement Officer enforces the New York State Building and Fire Code. The CEO also ensures that all local zoning and planning laws are enforced, issues building permits, makes periodic and final inspections, and will issue a certificate of compliance or a certificate of occupancy when work is completed to code.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	The Village Fire Department and Police Department
Grant writer(s)	Yes	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of Herkimer’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Village of Herkimer.

**Table 9.11-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Herkimer.

**Table 9.11-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Mayor
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	-
Social media for hazard mitigation education and outreach	Yes	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	Yes	Fire and Police Department conduct natural disaster and safety related school programs
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Herkimer.

**Table 9.11-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	4/4x	April 2022
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Other	No	-	-

Note:

N/A Not applicable

- Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.



**Table 9.11-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Weak
Drought	Moderate
Flood	Moderate
Severe Storm	Moderate
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Weak

### 9.11.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Herkimer.

**Table 9.11-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Herkimer	24	13	\$160,524	0	0	0	Data not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Herkimer.

**Table 9.11-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Previous floods have impacted the Eastern and Southern sections of the Village the most severely.



NFIP Topic	Comments
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Damages estimates for privately owned property are left up to the property owners insurances adjuster. Village or County wide estimates are coordinated with the County and/or State
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	To the best of my knowledge they do.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	It is shared by the fire department and Codes department. At this time the Village does not have a Certified FP Adminstrator
Are any certified floodplain managers on staff in your jurisdiction?	Not at this time, the fire chief and codes officer are in the process of obtaining certification
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes. We need to get certified. At this time we have study guides and will take the exam in the near future.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	None at this time
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	The Codes Officer makes a determination
What are the barriers to running an effective NFIP program in the community, if any?	Funding to pay FP administrators
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Yes
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	The DEC did a survey in July 2023
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Not sure



NFIP Topic	Comments
Does your floodplain management program meet or exceed minimum requirements? • If exceeds, in what ways?	No it does not meet requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	I don't know if they apply floodplain management in their planning efforts
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	This is a question for the Village Administration who did not participate in this mitigation plan.

### 9.11.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction's overall risk to its hazards of concern. Table 9.11-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.11-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	0	0	0	0	0	0	0	0	0	0	1	0
Multi-Family	0	0	0	0	0	0	0	0	1	0	0	0
Other (commercial, mixed-use, etc.)	0	0	1	0	1	0	1	0	1	0	2	0
<b>Total New Construction Permits Issued</b>	0	0	1	0	1	0	1	0	2	0	3	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
None identified.												
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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



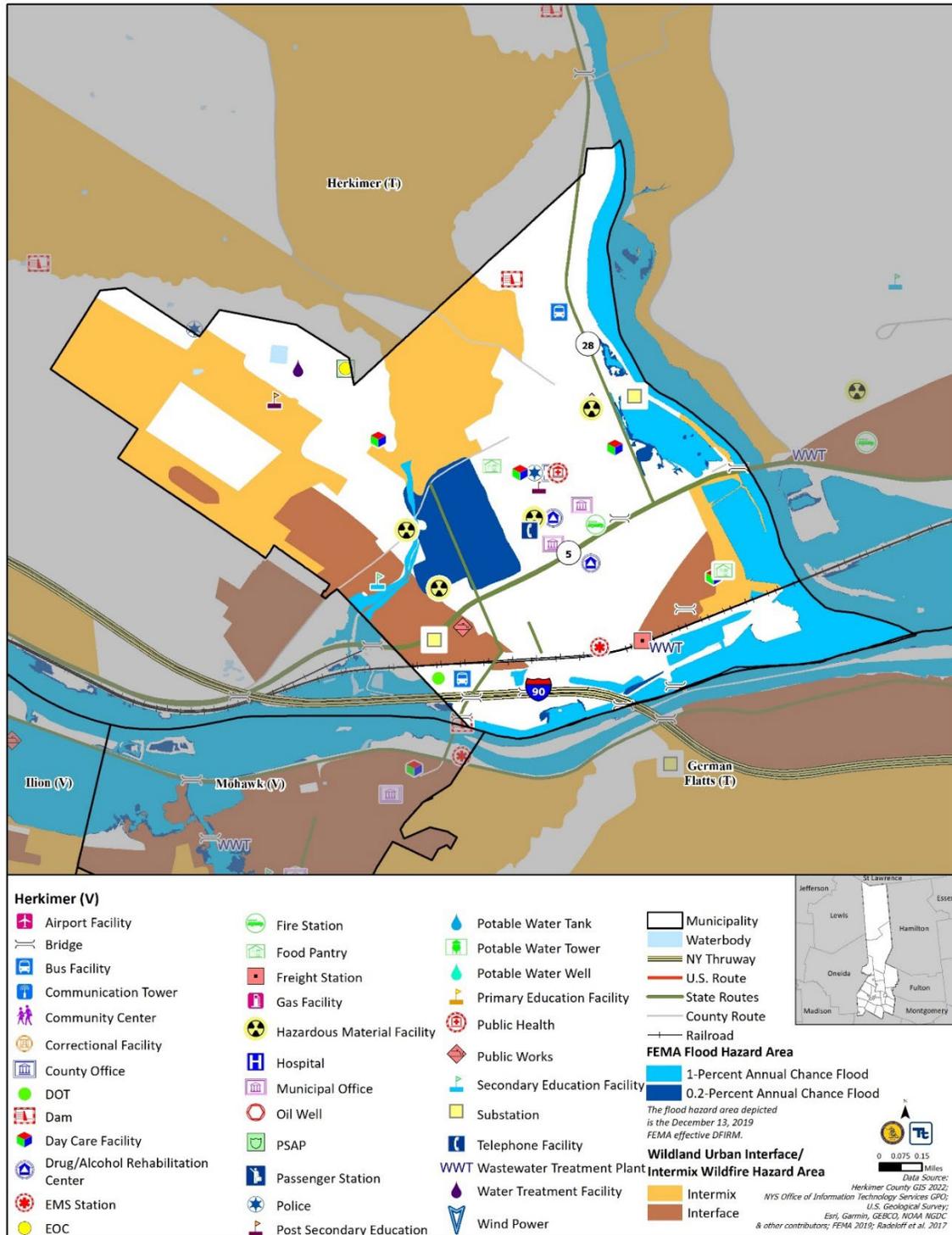
### 9.11.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Herkimer’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Herkimer has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.11-1. Village of Herkimer Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Herkimer’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.11-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.11-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Severe flooding through Village, several houses with flooding above basement and into the first floor of homes. Damage to streets with sections of pavement displaced. The fire department lost various equipment while performing rescues.
October 31– November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Results of this storm were very similar to the 2017 storm although damage was not as widespread or as severe
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Exact cases and deaths reported were not available by the New York Department of Health for the Village of Herkimer.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers	This storm caused power outages, several downed trees which left some streets impassable. Some homes were damaged from falling trees.



			were without power at the height of the storm.	
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Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Herkimer’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Herkimer. The Village of Herkimer reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- Dam Failure modified by community from Medium to High due to Mirror Lake Dam being a High Hazard Potential Dam.
- The Village has partnered with research groups to develop studies and planning initiatives to address the long-term issue of flooding. The community is currently participating in a FEMA-funded flood mitigation project to reduce the future impact of floods through the acquisition and demolition of a structure located in the floodplain.

**Table 9.11-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High



Hazard	Rank
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	High
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.11-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Lock E-18 Dam Herkimer	Dam	x	x	2023-HerkimerV-008	-
Mohawk St bridge between Herkimer and Mohawk	Bridge	x	x	2023-HerkimerV-009	-
NY Route 5 bridge over West Canada Creek	Bridge	x	x	2023-HerkimerV-009	-
NY Thruway bridge over Mohawk River and NY Erie Canal – Eastbound	Bridge	x	x	2023-HerkimerV-009	-
South Washington St Bridge	Bridge	x	x	2023-HerkimerV-009	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Village of Herkimer:

- Mirror Lake Dam



## Identified Issues

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After review of the Village of Herkimer’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Herkimer identified the following vulnerabilities within their community:

- German Street and Church Street Bridge floods during storm events.
- The main entry and exit points to the Village suffer from poor storm drainage resulting in flooding.
- The northwest and southwest areas of the Village experience flooding conditions, which have led to properties being repetitively damaged.
- There is a gap in the dissemination of emergency information to the public; currently, only an LED sign board is utilized at the Village, Police, and Fire Station complex.
- Maple Grove Avenue is an area which experiences repetitive loss.
- FEMA Flood Maps do not incorporate a pond in the Village which causes flooding in the area.
- Herkimer County Community College does not have an emergency generator.
- There is no identified location(s) for a heating or cooling center or emergency shelter.

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.11.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.11-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
HV-001	Bellinger Creek Bank Stabilization	Flood	Floodplain Administrator	Widening of the bank under the W. German St. and Church St. bridges	Engineering plans complete, seeking grant funding	Cost	-	Project to be included in the 2023 HMP. Engineering plans will remain the same, village will continue to seek grant funding source.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
HV-002	Mohawk River LAMP Study	Flood, Street and Bank Erosion	Floodplain Administrator	Water relief area and culverts emptying into the Mohawk River require expansion.	No action planned due to required participation of Army Corps of Engineers	Cost	-	Project will be discontinued. This project will require participation with Army Corps of Engineers.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.11-15, the Village of Herkimer identified the following mitigation efforts completed since the last HMP:

- The Village has engineered plans for the Bellinger Creek Bank Stabilization, but is seeking additional funding to implement the plans.
- The Fire and Police Departments have a generator to keep communication and facilities running during emergencies.
- The water system for the Village is being upgraded by rehabbing the existing infrastructure; engineering reports have been completed.
- The sewer system for the Village is being upgraded by rehabbing the existing infrastructure; engineering reports have been completed and the upgrades are currently in the design stage.
- A two-story residential structure on Maple Grove Avnue, a repetitive loss area, has been demolished and is now open space.

Since the adoption of the County’s first HMP, the Village of Herkimer has made significant mitigation progress in the following areas:

- The Village has partnered with research groups to develop studies and planning initiatives to address the long-term issue of flooding. The community is currently participating in a FEMA-funded flood mitigation project to reduce the future impact of floods through the acquisition and demolition of a structure located in the floodplain.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Herkimer participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.11-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X		X	X		X			X
Drought		X		X	X		X			X
Flood	X	X		X	X	X	X			X
Severe Storm	X	X		X	X		X			X
Severe Winter Storm	X	X		X	X		X			X



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Wildfire		X		X	X		X			X
Infestation				X			X			
Dam Failure	X	X		X	X		X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.11-17).

The table below summarizes the specific mitigation initiatives the Village of Herkimer would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.11-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Herkimer V-001	Bellinger Creek Bank Stabilization	1, 4	Flood	<p><b>Problem:</b> The summer of 2013 storm event caused damage to the banks of the Bellinger Creek. Flood contributed large amounts of debris to the stream channel resulting in mudslide events and significant flooding in the Village.</p> <p><b>Solution:</b> Stabilize the banks of Bellinger Creek with rip-rap stone 2,600 linear feet section's on the East and West side, and 5,200 linear feet total from Herkimer High School to Brookwood Park.</p>	No	Yes	5 years	Village Floodplain Administrator	High	High	BRIC, HMGP	High	SIP	SP
2023-Herkimer V-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	5 years	Village Floodplain Administrator	Medium	Medium	HMGP	Medium	LPR	ES
2023-Herkimer V-003	Community Hazard Awareness/	1, 2, 3	Flood, Severe Storm, Severe	<p><b>Problem:</b> The village does not participate in community awareness/preparedness</p>	No	No	1 to 2 years	Village Board	Low	Medium	Local Funds	High	EAP	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
	Preparedness Programs		Winter Storm, Wildfire	<p>programs such as StormReady, Firewise, or CRS.</p> <p><b>Solution:</b> Adopt a resolution to participate in the program and leverage available grant funding, flood insurance reductions, and technical assistance.</p>										
2023-Herkimer V-004	Climate Smart Communities	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The Village currently does not participate in Climate Smart Communities (CSC), a New York State program that helps local governments take action to reduce greenhouse gas emissions and adapt to a changing climate.</p> <p><b>Solution:</b> Adopt a resolution to participate in the program and leverage available grant funding.</p>	No	No	1 to 2 years	Village Board	Low	Medium	Local Funds	High	EAP	PR
2023-Herkimer V-005	German Street and Church Street Bridge Flood Mitigation	1, 3	Flood	<p><b>Problem:</b> Flooding on German Street and Church Street in the vicinity of the W. German and Church Street Bridge.</p>	No	Yes	5 years	Village Floodplain Administrator	High	High	BRIC, HMGP, BRIDGE NY	Medium	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Evaluate the plausibility of upgrading any undersized culverts with new culverts at least 20% above current capacity.										
2023-Herkimer V-006	Village Storm Drainage Project	1, 3	Flood	<p><b>Problem:</b> There are localized flooding issues at the main entry and exit points for the Village.</p> <p><b>Solution:</b> Evaluate the plausibility of upgrading any undersized culverts with new culverts at least 20% above current capacity.</p>	No	Yes	5 years	Village Floodplain Administrator	High	High	BRIC, HMGP, BRIDGE NY	Medium	SIP	PP
2023-Herkimer V-007	Public Emergency Information	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Current dissemination of emergency information to the public is limited to LED signage at Village, Police &amp; Fire Station complex.</p> <p><b>Solution:</b> The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Village will conduct and improve</p>	No	No	1 year	Village Fire and Police Departments	Low	High	BRIC, HMGP	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				community and public education and awareness to promote hazard risk reduction. The village will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-Herkimer V-008	Increase NFIP Capabilities	1, 2, 3, 4	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	No	No	1 year	Village Floodplain Administrator	Low	Medium	Local Funds	Medium	LPR	PR
2023-Herkimer V-009	Bridge Maintenance	1, 3	Flood, Severe Storm, Severe Winter Storm, Extreme Temperature	<p><b>Problem:</b> Many bridges in the Village are owned and maintained by NYSDOT and the NYS Thruway Authority, one of which is in poor condition.</p> <p><b>Solution:</b> In partnership with NYSDOT and NYS Thruway</p>	Yes	No	2 to 3 years	Department of Public Works	Low	High	Local Funds, BRIDGE NY	Medium	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Authority, create a method to report needed bridge maintenance and any deficiencies.										
2023-Herkimer V-010	Dam Maintenance	1, 3, 5	Dam Failure, Flood	<p><b>Problem:</b> The Lock E-18 Dam and Mirror Lake Dam have the potential to impact the Village.</p> <p><b>Solution:</b> Maintain a relationship with the New York State Canal Corporation and NYS DEC to ensure the intent of flood risk reduction remains feasible and to ensure the integrity of both dams.</p>	Yes	No	1 to 2 years	Department of Public Works	Low	High	Local Funds	Medium	LPR	PR
2023-Herkimer V-011	Emergency Generators for Critical Facilities	1	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The Herkimer County Community College does not have an emergency generator.</p> <p><b>Solution:</b> Identify and install the correct size generator for the Herkimer County Community College.</p>	Yes	Yes	2 to 3 years	Village Board	High	High	BRIC, HMGP	Medium	SIP	ES
2023-Herkimer V-012	Flood Map Revisions	1, 2, 3	Flood	<b>Problem:</b> Federal flood maps inaccurately display flood risk in the Village.	No	No	5 years	Village Floodplain Administrator	Low	Medium	N/A	Medium	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Work with FEMA Region II to ensure updates to flood maps adequately address flood risk.										
2023-Herkimer V-013	Heating and Cooling Center	1, 3	Drought, Extreme Temperature, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Village does not have a specified location for a heating and cooling center in case of emergency.</p> <p><b>Solution:</b> Identify at least one location for a heating and cooling center in the Village for individuals to utilize in cause of extreme temperature or power outages caused by hazards.</p>	Yes	Yes	2 to 3 years	Village Board	Low	High	Local Funds	Medium	SIP	ES

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain



*Mitigation Category:*

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

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.11-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-HerkimerV-001	Bellinger Creek Bank Stabilization	0	1	1	1	1	1	0	1	1	1	0	1	1	1	11	High
2021-HerkimerV-002	Develop Substantial Damage Response Plan	0	1	1	1	0	1	1	1	0	0	1	1	0	0	8	Medium
2021-HerkimerV-003	Community Hazard Awareness/Preparedness Programs	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2021-HerkimerV-004	Climate Smart Communities	0	0	1	1	0	1	1	1	1	1	1	1	0	0	9	High
2021-HerkimerV-005	German Street and Church Street Bridge Flood Mitigation	1	1	1	1	0	1	0	1	0	0	0	1	0	0	7	Medium
2021-HerkimerV-006	Village Storm Drainage Project	1	1	1	1	0	1	0	1	0	1	0	1	0	0	8	Medium
2021-HerkimerV-007	Public Emergency Information	1	0	1	1	1	1	1	0	1	1	1	1	0	0	10	High
2021-HerkimerV-008	Increase NFIP Capabilities	0	1	1	1	0	1	1	0	0	1	0	1	0	0	7	Medium
2021-HerkimerV-009	Bridge Maintenance	0	1	1	1	0	0	1	0	0	0	1	1	0	0	6	Medium
2021-HerkimerV-010	Dam Maintenance	0	1	1	1	0	0	1	0	0	0	1	1	0	0	6	Medium
2021-HerkimerV-011	Emergency Generators for Critical Facilities	1	1	1	1	1	1	0	-1	0	0	1	1	0	0	7	Medium



Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-HerkimerV-012	Flood Map Revisions	0	1	1	1	1	0	1	0	0	0	0	1	1	0	7	Medium
2021-HerkimerV-013	Heating and Cooling Center	1	0	1	1	0	1	1	0	0	1	1	1	0	0	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.12 VILLAGE OF ILION

This section presents the jurisdictional annex for the Village of Ilion that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Ilion’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.12.1 Hazard Mitigation Planning Team

The Village of Ilion identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the mayor’ and code enforcement offices. The mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.12-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>John P. Stephens – Mayor</b> Address: Phone Number: <b>(315) 895-7449 ex. 3065</b> Email: <a href="mailto:mayorstephens@ilionny.com">mayorstephens@ilionny.com</a>	Name/Title: <b>Kari Allen – Deputy Mayor</b> Address: Phone Number: <b>(315) 868-6448</b> Email: <a href="mailto:kallen@ilionny.com">kallen@ilionny.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>James Maxwell – Code Enforcement Officer</b> Address: Phone Number: <b>(315) 895-7449 ex. 3223</b> Email: <a href="mailto:codes@ilionny.com">codes@ilionny.com</a>	



### 9.12.2 Municipal Profile

The Village of Ilion is situated within the Town of German Flatts, though a small portion lies within the Town of Frankfort. The Erie Canal is the northern boundary of Ilion. Ilion's position on the Mohawk River, Erie Canal and Steele Creek have fostered its growth in population, economic development, and recreational opportunities. Its Mohawk Valley location offers access to major transportation corridors, including Interstate 90 and major rail lines. From its earliest years, the economy grew from a single major industry, the Remington Company, which established a small factory for the manufacture of rifles in 1828. The company later expanded to include the production of farming tools, sewing machines and typewriters.

According to the U.S. Census, the 2020 population for the Village of Ilion was 7,646, a 5.3 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 3.0 percent of the population is 5 years of age or younger and 18.8 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Ilion has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 2.08% of the population does not have a high school diploma
- 10.84% of the population has a disability
- 8.39% of households do not have a vehicle
- 12.83% of the population is living below the poverty level
- 4.23% of the population is unemployed

### 9.12.3 Jurisdictional Capability Assessment and Integration

The Village of Ilion performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis,



planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Ilion to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Ilion. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.12-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Property Maintenance/Codes Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Village of Ilion has adopted the New York State Uniform Fire Prevention and Building Code				
Zoning/Land Use Code	Yes	Chapter 250 – Zoning	Local	Property Maintenance/Codes Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The purpose of this Chapter is to classify, regulate and restrict the height, number of stories and size of buildings and other structures, the percentage of lot that may be occupied, size of yards and other open spaces, density of population and location and use of buildings, structures and land for trade, industry, residence, and other purposes; to establish the boundaries for districts, and to promote the public health, safety, morals and general welfare of the Village.				
Subdivision Ordinance	Yes	Chapter 205 – Subdivision of Land	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
These regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>To provide for the future growth and development of the village</li> <li>To afford adequate facilities for housing, transportation, distribution, comfort, convenience, safety, health and welfare</li> <li>To show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>To require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings</li> <li>To assure that the subdivision streets and highways shall be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance</li> <li>To find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
Site Plan Ordinance	Yes	Chapter 205 – Subdivision of Land	Local	Zoning Board
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>Site Plan Review Requirements describes procedures for major subdivisions, minor subdivisions, one-lot subdivisions, lot-line adjustments and re-subdivisions.</p> <p>Site Plan Review also describes design and performance standards for all subdivisions within the Village.</p>				
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Flood Damage Prevention Ordinance	Yes	Chapter 123 – Flood Damage Prevention	Local	Property Maintenance/Codes Office

*How has or will this be integrated with the HMP and how does this reduce risk?*

The purpose of this chapter is to promote the public health, safety, and welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- Regulate uses which are dangerous to health, safety, and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities
- Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction
- Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters
- Control filling, grading, dredging and other development which may increase erosion or flood damages
- Regulate the construction of flood barriers which will unnaturally divert floodwaters, or which may increase flood hazards to other lands
- Qualify and maintain for participation in the National Flood Insurance Program

Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Floodplain Management or Watershed Plan	Yes	Flood Hazard Mitigation Plan – 2004	Local, County	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Business/ Downtown Development Plan	No	-	-	-

Other (for example NYRCR, etc.)	No	-	-	-
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**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Emergency Operations Plan – 2016	Local	Office of Emergency Management
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The plan outlines departmental command structure, logistics, and response capabilities and how local emergency responders will coordinate with countywide and statewide responders. It was created to prepare departments to respond to all-hazards events and to improve service delivery during and following an emergency.

Continuity of Operations Plan	Yes	Continuity of Operations Plan –2016	Local	Office of Emergency Management
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Continuity of Operations Plan guides departmental response and coordination in the event of a hazard of emergency

Substantial Damage Response Plan	No	-	-	-
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Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
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Post-Disaster Recovery Plan	No	-	-	-
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Public Health Plan	No	-	-	-
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Other	No	-	-	-
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## Development and Permitting Capability

The table below summarizes the capabilities of the Village of Ilion to oversee and track development.

**Table 9.12-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Building permits are issued through the Codes Department
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Codes Department
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	

## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Ilion and their current responsibilities that contribute to hazard mitigation.

**Table 9.12-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Planning Board consisting of five (5) members appointed by the Village Board, each to serve for a term of five (5) years.
Zoning Board of Adjustment	Yes	The Board of Appeals shall consist of five (5) members appointed by the Village Board, each to serve for a term of five (5) years.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Village of Ilion Department of Public Works maintains some 32 miles of village streets and roadways, performing regular and preventative maintenance activities including <ul style="list-style-type: none"> <li>Storm &amp; sanitary cleaning &amp; repair</li> </ul>



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		<ul style="list-style-type: none"> <li>• Snow plowing, removal, and ice control requirements</li> <li>• Roadway repair (patching and paving projects)</li> <li>• Field and park maintenance</li> <li>• Assistance with Marina grounds upkeep</li> <li>• Central Mall area upkeep</li> <li>• Infrastructure repairs as needed</li> </ul>
Construction/Building/Code Enforcement Department	Yes	The property maintenance/codes officer operates the Village of Ilion Codes. All the codes are enforced with the use of the New York State Fire, Building, Property Maintenance, and the Village of Ilion Code.
Emergency Management/Public Safety Department	Yes	The Village of Ilion Office of Emergency Management is responsible for coordinating the activities of various Village Departments in the event of an emergency. While individual Departments within the Village commonly respond to emergency scenes, there is always the potential for an emergency that overwhelms the resources of any single Department. The role of the Office of Emergency Management is to assist with the planning and mitigation of this type of emergency.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	The Village of Ilion now has a Village-wide notification system. The notification system will send voice alerts via cell/landline phones and/or text messages or email during emergency events, including but not limited to; snow emergencies, flash flooding, power outages, and boil water advisories.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	No formal written agreements in place
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	Village Fire Chief
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)		

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of Ilion’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.

### Fiscal Capability

The table below summarizes financial resources available to the Village of Ilion.

**Table 9.12-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	Yes
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Ilion.



**Table 9.12-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Community Flood Advisory Group – Local citizen groups or non-profit organizations addressing focused on environmental protection, emergency preparedness, access and functional needs populations
Warning systems for hazard events	Yes	See Warning Systems/ Services above
Natural disaster/safety programs in place for schools	Yes	Fire and Police Departments conduct school-based programs for natural disaster/safety related education
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Ilion.

**Table 9.12-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 5	September 26, 2022
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and



withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.12-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Medium
Drought	High
Flood	High
Severe Storm	High
Severe Winter Storm	High
Wildfire	High
Infestation	Low
Dam Failure	Medium
Disease Outbreak	Medium

### 9.12.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Ilion.

**Table 9.12-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Village of Ilion	158	177	\$1,289,447	0	24	0

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Ilion.



**Table 9.12-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Areas in or near Steele Creek. There was a FEMA buyout during 2013 to 2016.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	No
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	33 – FEMA buyout (see list)
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Department
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Permit review
What are the barriers to running an effective NFIP program in the community, if any?	Funding, Personnel
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown



NFIP Topic	Comments
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Municipal Code 123 Flood Damage Prevention  199 LL No. 1-199
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Improving

### 9.12.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.12–11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.12-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	1	1	0	0	0	0	0	0	0	0	1	0
<b>Total New Construction Permits Issued</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
Walgreens	Commercial	1		21 E State St, Ilion, NY 13357		SFHA, WUI Interface		Walgreens is constructing a new property at 21 E State St, Ilion, NY 13357. The structure will be complete by Summer 2023.				



Type of Development	2017	2018	2019	2020	2021	2022
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>						
Duofold	Apartment Complex	1 structure, number of units unknown	7 Spruce Street	Located in the SFHA	Development in talks, permitting has not yet occurred.	

SFHA Special Flood Hazard Area (1% flood event)

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

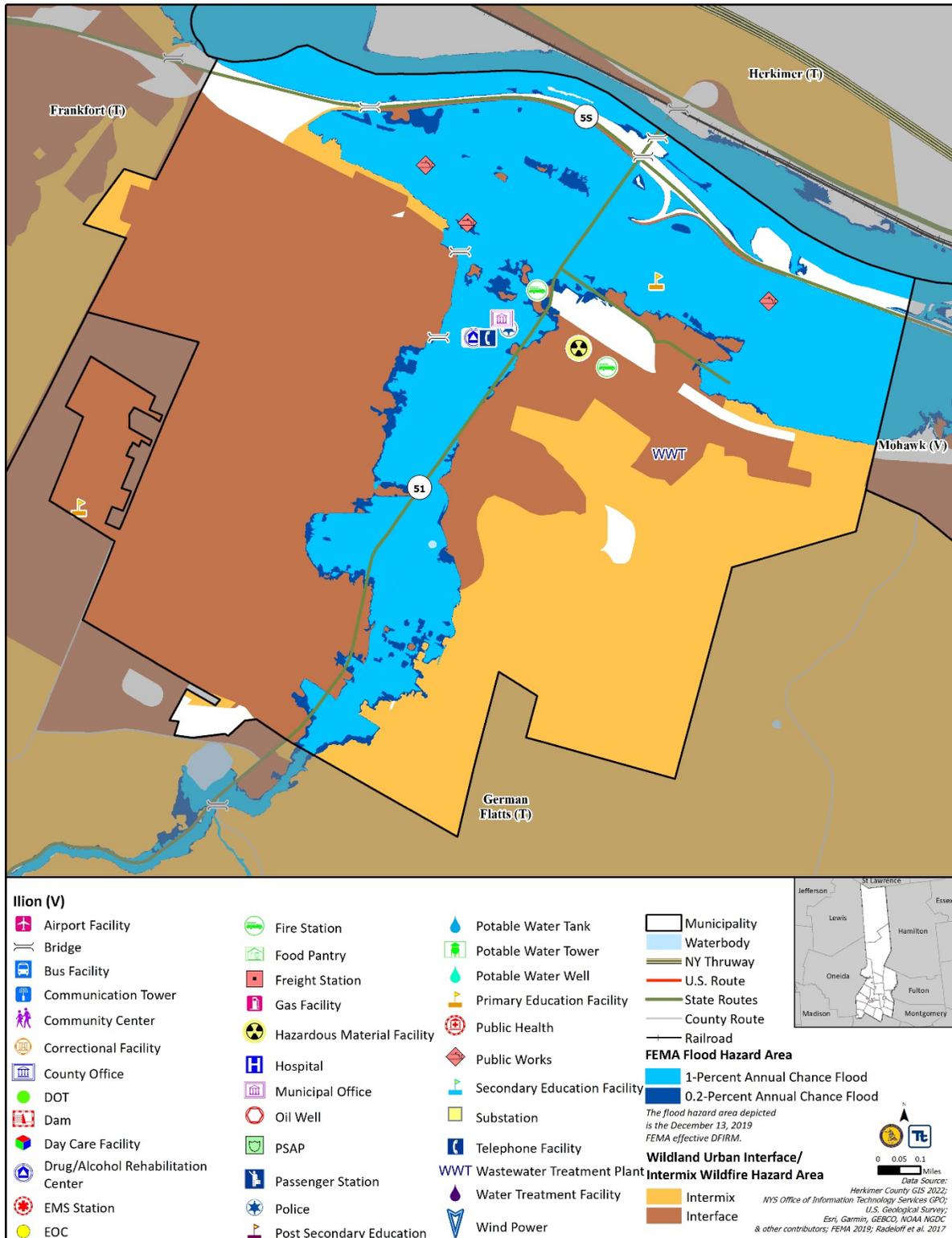
### 9.12.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Ilion’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Ilion has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.12-1. Village of Ilion Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Ilion’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.12-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.12-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	No reported losses to the Village of Ilion
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$10 million in property damage.	No reported losses to the Village of Ilion
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Exact cases and deaths reported were not available by the New York Department of Health for the Village of Ilion.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	No reported losses to the Village of Ilion



Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Ilion’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Ilion. The Village of Ilion reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- The Village agreed that the calculated rankings accurately reflected the risk posed to the community.

**Table 9.12-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium



Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.12-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Catholic Charities Herkimer County Food Pantry	Food Pantry	Y	Y	2023-Ilion-001	-
Herkimer County Prevention	Drug/Alcohol Rehabilitation Center	Y	Y	2023-Ilion-001	-
Ilion Electric Substation	Public Works	Y	Y	2023-Ilion-001	-
Ilion Village Electric Department and Substation	Public Works	Y	Y	2023-Ilion-001	-
Ilion Village Police Department Police Station Ilion (V) 55 1st Street	Police	Y	Y	2023-Ilion-001	-
NY Route 5s bridge over Steele Creek	Bridge	Y	Y	2023-Ilion-001	-
Remington Elementary School Public School	Primary Education Facility	Y	Y	2023-Ilion-001	-
Second Street bridge over Steele Creek	Bridge	Y	Y	2023-Ilion-001, 2023-Ilion-009	-
VERIZON Telephone Switch Building	Telephone Facility	Y	Y	2023-Ilion-001	-
Village of Ilion	Municipal Office	Y	Y	2023-Ilion-001	-



Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Village of Ilion Public Works	Public Works	Y	Y	2023-Ilion-001	-
W Main Street bridge over Steele Creek	Bridge	Y	Y	2023-Ilion-001	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Village of Ilion:

- Ilion Reservoir #1 Dam
- Ilion Reservoir #2 Dam
- Ilion Reservoir #3 Dam

### Identified Issues

After review of the Village of Ilion’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Ilion identified the following vulnerabilities within their community:

- The current flood maps do not accurately represent the flood risk in the Village.
- The Second Street Bridge is undersized and overtops.
- Access to information about hazard risks and high-hazard areas is not always readily available\*
- Property owners may not be aware of ways to mitigate damage to their properties\*

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.12.7 Mitigation Strategy and Prioritization

This section discusses past mitigation actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.12-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Unknown	
IL-001	Replace the Otsego Street and Second Street Bridges that cross Steele Creek	Flooding	NYS DOT, Rte. 51 Bridge, Town of German Flatts; Village of Ilion Second St. Bridge	Backups or jams at these locations cause the creek to flow over the bridges sending water into residential and commercial properties. Replacement of the two bridges and bring them up to current standard.	Complete	Cost	Unknown	State Completed
						Level of Protection	High	
						Damages Avoided; Evidence of Success	State replaced both bridges to comply with current standards.	
IL-002	FEMA Property Acquisitions	Flooding	Floodplain Manager	In both 2006 and 2013 numerous properties in the Village of Ilion were damaged by the flooding of Steel Creek. Acquire and demolish 33 properties to turn into green space.	Complete	Cost	Unknown	Village Completed
						Level of Protection	High	
						Damages Avoided; Evidence of Success	Properties bought and turned to green space to avoid future flooding impacts.	
IL-003	Dam/Falls Removal Steele Creek.	Flooding, Dam Failure	Ilion Public Works, DEC, Herkimer County Soil and Water	Water backs up during high water flow events and increases the velocity of water. In the winter months, the dam contributes to ice buildup jams. Removal of the Dam/Falls will eliminate the problems of high-water velocity, backups, and ice jams.	Complete	Cost	Unknown	State and Village Completed
						Level of Protection	High	
						Damages Avoided; Evidence of Success	Dam/Falls were removed from Steele Creek. Water velocity has been slowed substantially.	
IL-004		Dam Failure			In Progress	Cost	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Level of Protection	N/A	
	Decommissioning of Reservoir #3		Village Public Works Department, NYS DEC	Reservoir #3 has been designated as unsafe by the NYS DEC. The reservoir, inactive for many years, should be either repaired and brought into compliance or decommissioned. The village has opted to decommission the reservoir.		Level of Protection	N/A	Reservoir #3 has been designated as unsafe by the NYS DEC. The reservoir, inactive for many years, should be either repaired and brought into compliance or decommissioned. The village has opted to decommission the reservoir.
						Damages Avoided; Evidence of Success	N/A	
IL-005	Engineering study of Steele Creek Stream Bank Erosion	Erosion	Village floodplain manager, NYS DEC, NYS DOT	Stream bank deterioration along Steele Creek leading to creek bed problems and sediment accumulation downstream. A hydrologic engineering study to determine the source of the problem.	In Progress	Cost	N/A	Stream bank deterioration along Steele Creek leading to creek bed problems and sediment accumulation downstream. A hydrologic engineering study to determine the source of the problem.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
IL-006	Mitigate the Electric Sub-Stations	Flooding	Electric Department, Village of Ilion, NY	The substations are in a flood zone within 200 yards of Steele Creek. build protective flood walls around the existing facilities, the facilities to a level that is above potential flood stages, or completely relocate the facilities.	Discontinue	Cost	N/A	Not financially feasible for the Village, even with a Federal Grant, as the Village would likely not be able to afford the required cost-match.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	
IL-007	Analysis of Bank Stabilization, Debris Blockage and Landslide	Flooding, Landslide	Village of Ilion DPW and Town of German Flatts DPW, NYS DOT	The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency	In Progress	Cost	N/A	The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency vehicles. Identify most feasible recommendations/remedies for
						Level of Protection	N/A	
						Damages Avoided; Evidence	N/A	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				vehicles. Identify most feasible recommendations/remedies for future mitigation projects and actions identified in the feasibility analysis.		of Success		future mitigation projects and actions identified in the feasibility analysis.
IL-008	Develop an Engineering Design for Ilion Gorge.	Flooding, Landslide	DPW of Village of Ilion and Town of German Flatts, NYS DOT	The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency vehicles. Identify most feasible recommendations/remedies for future mitigation projects and actions identified in the feasibility analysis.	In Progress	Cost	N/A	The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency vehicles. Identify most feasible recommendations/remedies for future mitigation projects and actions identified in the feasibility analysis.
						Level of Protection	N/A	
						Damages Avoided; Evidence of Success	N/A	



## Additional Mitigation Efforts

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In addition to the mitigation initiatives completed in Table 9.12–15, the Village of Ilion identified the following mitigation efforts completed since the last HMP:

- Weather station and stream gage installed at Frederick Street Bridge
- Back-up generators installed at the electric substation and fire department.
- Upgraded EOC capabilities to include additional phone lines, computers, and monitors.
- Annual tree and power maintenance performed by the Village Maintenance Department.
- Upgrades to the electric substation in 2023.

Since the adoption of the County’s first HMP, the Village of Ilion has made significant mitigation progress in the following areas:

- Flood Management
- Safety and Security upgrades to Critical Facilities

The Village of Ilion has been extremely active in completing flood maintenance projects, so much so that the American Council of Engineering Companies awarded the Village a National Recognition Award in the American Council of Engineering Companies (ACEC) 2023 Engineering Excellence Awards (EEA) competition—the “Academy Awards of the Engineering Industry” for the Village’s Steele Creek Restoration and Flood Mitigation Design project. The Village has also completed over 30 property acquisitions to assist residents and business owners; these properties have since been turned into green space, where no permanent structures are permitted to be built. Successful projects have been funded by various sources, including through various New York State Department of State grants, the Federal Department of Commerce’s Sea Level Rise (SLR) grant, New York State Environmental Facilities Corporation’s Green Innovation Grant Program (GIGP), New York State Department of Environmental Conservation’s Water Quality Improvement Project (WQIP) Program, and the New York State Senate’s State and Municipal (SAM) Grant.

## Proposed Hazard Mitigation Initiatives for the HMP Update

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The Village of Ilion had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Village’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.



**Table 9.12-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature				X		X	X			
Drought				X		X	X			
Flood	X	X	X	X	X	X	X	X	X	X
Severe Storm	X	X	X	X		X	X	X	X	X
Severe Winter Storm	X	X	X	X		X	X	X	X	X
Wildfire				X		X	X			
Infestation				X		X	X			
Dam Failure	X		X	X		X	X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.12-17).

The table below summarizes the specific mitigation initiatives the Village of Ilion would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.12-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023 - Ilion-001	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	Yes	No	1 year	Village Floodplain Administrator	Low	Medium	HMGP, FMA	Medium	LPR	PP
2023 - Ilion-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan</p>	No	No	5 years	Village Floodplain Administrator	Medium	Medium	HMGP	Low	LPR	ES
2023 - Ilion-003	Decommissioning of Reservoir #3	1, 4	Flood, Severe Storm, Severe Winter	<p><b>Problem:</b> Reservoir #3 has been inactive for many years, and has been designated as</p>	Yes	Yes	5 years	Village DPW	High	High	BRIC, HMGP	High	NSP	NR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Storm, Dam Failure	unsafe by the NYS DEC.  <b>Solution:</b> The Village will decommission the reservoir.										
2023 - Ilion-004	Engineering Study of Steele Creek Stream Bank Erosion	1	Flood, Severe Storm, Severe Winter Storm,	<b>Problem:</b> Stream bank deterioration at Steele Creek leading to creek bed problems and sediment accumulation downstream.  <b>Solution:</b> Conduct a hydrologic engineering study to determine the source of the problem.	No	Yes	5 years	Village DPW	Medium	High	BRIC, HMGP	High	SIP	SP, NR
2023 - Ilion-005	Analysis of Bank Stabilization, Debris Blockage and Landslide	1	Flood, Severe Storm, Severe Winter Storm,	<b>Problem:</b> The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency vehicles.	No	No	5 years	Village DPW	High	High	BRIC, HMGP	High	SIP	SP, NR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> Identify most feasible remedies and recommendations for future mitigation projects and actions identified in the feasibility analysis.</p>										
2023 - Ilion-006	Develop an Engineering Design for Ilion Gorge	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The gorge is known to have multiple streambank failures, debris and ice blockages, build-up of sediment, and road washouts. Road closure severely impacts access by residents and emergency vehicles.</p> <p><b>Solution:</b> Identify most feasible remedies and recommendations for future mitigation projects and actions identified in the feasibility analysis.</p>	No	No	5 years	Village DPW	Medium	High	BRIC, HMGP	High	SIP	SP, NR
2023 -	New Development Compliance	1, 3, 4	Flood	<p><b>Problem:</b> Property developers may be unaware of local and</p>	No	No	3 to 4 years	Village Code Enforcement	Low	Medium		Medium	LPR, EAP	PI, PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Ilion-007	with Flood Regulations			<p>State flood regulations.</p> <p><b>Solution:</b> Work with developers to construct new development in accordance with regulations.</p>										
2023 - Ilion-008	Flood Map Revisions	1, 2, 3	Flood	<p><b>Problem:</b> Federal flood maps inaccurately display flood risk in the Village.</p> <p><b>Solution:</b> Submit a request to update the flood maps and work with FEMA to ensure it accurately visualizes the flood risk in the Village.</p>	No	No	5 years	Village Floodplain Administrator	Low	Medium	N/A	Medium	LPR	PR
2023 - Ilion-009	Second Street Bridge Replacement	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Second Street Bridge is undersized and overtops with water from the Steele Creek.</p> <p><b>Solution:</b> Remove the Second Street Bridge and replace it</p>	Yes	Yes	4 to 5 years	Village DPW	High	High	BRIC, HMGP	High	SIP	SP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				with a properly sized bridge.										
2023 - Ilion-010	Hazard Risk Education	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Information about hazard risks and high-hazard areas is not always readily available.</p> <p><b>Solution:</b> The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Village will conduct and improve community and public education and awareness to promote hazard risk reduction. The village will provide</p>	No	No	1 year	Village OEM	Low	High	BRIC, HMGP	High	EAP	PI



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				educational materials on the village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023 - Ilion-011	Property Protection Campaign	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure	<p><b>Problem:</b> Property owners may be unaware how to mitigate damages to their properties.</p> <p><b>Solution:</b> Conduct a property mitigation campaign to educate and inform property owners on how to mitigate various hazards from causing damage to their properties.</p>	No	No	1 to 2 years	Village OEM	Low	High	BRIC, HMGP, FMA	Medium	EAP	PI, PP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023 - Ilion-012	Village of Ilion Public Works Flood Protection Review	1,2	Flood	<b>Problem:</b> The Village of Ilion Public Works is located in the regulatory floodplain and it has not been determined that the building is protected to the 500-year event. <b>Solution:</b> The Village NFIP Administrator will review the regulatory flood map to determine whether it is elevated above the 500-year base flood elevation.	Yes	No	1 year	NFIP Administrator/Codes Officer	Low	High	Operating Budget	High	EAP	PR
2023 - Ilion-013	Bridge Maintenance	1,3	Flood, Severe Storm, Severe Winter Storm, Extreme	<b>Problem:</b> W Main Street bridge over Steele Creek is owned and maintained by the Village. <b>Solution:</b> In partnership with	Yes	No	2 to 3 years	Department of Public Works	Low	High	Local Funds, BRIDGE NY	Medium	LPR	PP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Temperature	the County of Herkimer, create a method to report needed bridge maintenance and any deficiencies. Currently the bridge is not indicated in poor condition.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures, as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.



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- Natural Systems Protection (NSP)—These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP)—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.12-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Ilion-001	Increase NFIP Capabilities	1	1	1	1	0	0	1	0	1	1	0	1	0	0	8	Medium
2023-Ilion-002	Develop Substantial Damage Response Plan	1	1	1	0	0	0	0	0	0	0	1	0	0	0	4	Low
2023-Ilion-003	Decommissioning of Reservoir #3	1	1	1	1	1	1	1	1	0	1	1	0	1	0	11	High
2023-Ilion-004	Engineering Study of Steele Creek Stream Bank Erosion	1	0	1	1	1	1	1	1	0	0	1	1	1	0	10	High
2023-Ilion-005	Analysis of Bank Stabilization, Debris Blockage and Landslide	1	0	1	1	1	1	1	1	0	0	1	1	1	0	10	High
2023-Ilion-006	Develop an Engineering Design for Ilion Gorge	1	0	1	1	1	1	1	0	0	0	1	1	1	0	9	High
2023-Ilion-007	New Development Compliance with Flood Regulations	1	0	1	1	1	1	0	1	1	0	0	1	0	0	8	Medium
2023-Ilion-008	Flood Map Revisions	1	1	1	0	1	0	0	1	1	0	0	0	1	0	7	Medium
2023-Ilion-009	Second Street Bridge Replacement	1	0	1	1	1	1	1	1	0	1	0	1	1	0	10	High
2023-Ilion-010	Hazard Risk Education	1	0	1	1	1	0	1	0	1	1	1	1	1	0	10	High
2023-Ilion-011	Property Protection Campaign	1	1	1	1	1	0	1	0	1	1	1	1	1	0	9	High



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Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Ilion-012	Village of Ilion Public Works Flood Protection Review	1	1	1	1	1	0	1	0	1	1	1	1	1	0	9	High
2023-Ilion-013	Bridge Maintenance	1	1	1	1	1	0	1	0	1	1	1	1	1	0	9	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.13 TOWN OF LITCHFIELD

This section presents the jurisdictional annex for the Town of Litchfield that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Litchfield’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.13.1 Hazard Mitigation Planning Team

The Town of Litchfield identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Council. The Town Councilman represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.13-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Mark O’Sullivan – Town Councilman Address: 804 Cedarville Rd, Ilion, NY 13357 Phone Number: 315-717-7928 Email: mark.osullivan19@gmail.com	Name/Title: James D. Entwistle – Town Supervisor Address: 804 Cedarville Rd, Ilion, NY 13357 Phone Number: 315-717-1399 Email: jimbeth811@yahoo.com
<b>NFIP Floodplain Administrator</b>	
Name/Title: Nicole Edwards – Town Clerk Address: 804 Cedarville Rd, Ilion, NY 13357 Phone Number: (315) 737-0554 Email: litchfield.townclerk@gmail.com	



## 9.13.2 Municipal Profile

The Town of Litchfield is located in Herkimer County. It is situated on the hills overlooking the southern rim of the Mohawk Valley and the eastern rim of the Sauquoit Valley. The town rises more than 1000 feet from the valley floor and its hills, in particular Wheelock Hill and the Dry Hills form a significant portion of the viewsheds for the adjoining towns. The Town's near pristine beauty is largely untouched by uncontrolled development. The Town's history is an important aspect of its identity and culture.

According to the U.S. Census, the 2020 population for the Town of Litchfield was 1,444, a 4.8 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 6.7 percent of the population is 5 years of age or younger and 19.1 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Litchfield has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 10.61% of the population does not have a high school diploma
- 11.97% of the population has a disability
- 8.38% of households do not have a vehicle
- 15.68% of the population is living below the poverty level
- 4.76% of the population is unemployed

## 9.13.3 Jurisdictional Capability Assessment and Integration

The Town of Litchfield performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided



an opportunity for the Town of Litchfield to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Litchfield. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.13-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Litchfield has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	No/Yes	Local Law #1 – Land and Building Requirements	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The purpose of this Local Law is to provide for orderly growth in accordance with a comprehensive plan, to lessen congestion in the streets, to provide adequate light and air, to prevent the overcrowding of land, to avoid undue concentration of population and to promote the health, safety, and general welfare of the public.				
Subdivision Ordinance	Yes	Local Law #1 – Section 19	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Any subdivision of land into five (5) or more parcels or lots, requires approval from the Town Board. This is to maintain growth and development throughout the Town				
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<p>Are environmental systems that protect development from hazards identified and mapped?            Do environmental policies maintain and restore protective ecosystems?            Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?            Do environmental policies provide incentives to development that is located outside protective ecosystems?</p>				
Flood Damage Prevention Ordinance	Yes.	The ordinance has been requested from the NYDEC.	Local	-
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Climate Change Ordinance	No	-	-	-

Other	-	-	-	-
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**Planning Documents**

Comprehensive Plan	Yes	Town of Litchfield Comprehensive Plan - 2013	Local	Town Council
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The town comprehensive plan is a means to promote the health, safety, and general welfare of the people of the town and to give due consideration to the needs of the people of the region of which the town is a part.

Capital Improvement Plan	No	-	-	-
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Disaster Debris Management Plan	No	-	-	-
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Floodplain Management or Watershed Plan	No	-	-	-
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Stormwater Management Plan	No	-	-	-
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Open Space Plan	No	-	-	-
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Urban Water Management Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
Does the transportation plan limit access to hazard areas?				
Is transportation policy used to guide growth to safe locations?				
Are transportation systems designed to function under disaster conditions (e.g., evacuation)?				
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	-	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	--	---	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Herkimer County Emergency Management Plan	Local, County	Town Council
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	No	-	-	-
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Substantial Damage Response Plan	No	-	-	-
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Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
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Post-Disaster Recovery Plan	No	-	-	-
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Public Health Plan	No	-	-	-
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Other	-	-	-	-
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**Development and Permitting Capability**

The table below summarizes the capabilities of the Town of Litchfield to oversee and track development.



**Table 9.13-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Building Department
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Building Department
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	Numbered and filed by the Town Clerk
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	The Town is primarily agricultural land, with very little commercial property. There are also areas for residential purposes. There are no areas designated as flood zones.

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Litchfield and their current responsibilities that contribute to hazard mitigation.

**Table 9.13-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	-
Zoning Board of Adjustment	Yes	The Board of Appeals consists of five members, this board is responsible to hear and decide appeals from and review and order, requirement and decision or determination made by the Code Enforcement Officer
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Public Works/Highway Department	Yes	The Highway Department maintains 26.5 miles of town roads, and a combined 60.3 miles of Town and County roads. Maintenance includes snow removal.
Construction/Building/Code Enforcement Department	Yes	The Code Enforcement Officer is responsible for approval and review of all permits and permitting processes and maintaining the NYS code for the town.
Emergency Management/Public Safety Department	Yes	The Columbia-Litchfield Volunteer Fire Department (known as the Cedarville Fire Department). follows SOPs and best practices which include mitigation initiatives and ICS standards.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.

The Town of Frankfort’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review and issuance of permits and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

## Fiscal Capability

The table below summarizes financial resources available to the Town of Litchfield.

**Table 9.13-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Litchfield.

**Table 9.13-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Litchfield.

**Table 9.13-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	-	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	-	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	-	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	-	-	-
Storm Ready Certification	-	-	-



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Firewise Communities classification	-	-	-
Other	-	-	-

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.13-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

The Town of Litchfield identified that due to their familiarity with the hazard and strong winter maintenance programs, the Town’s adaptive capacity for Severe Winter Storm should be increased from ‘Moderate’ to Strong’.

### 9.13.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Litchfield.



**Table 9.13-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Town of Litchfield	5	5	\$14,183	0	1	0

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

**Flood Vulnerability Summary**

The following table provides a summary of the NFIP program in the Town of Litchfield.

**Table 9.13-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Rasbach Road/Albany Street intersection, Ball Road, Soncody Road, and Hammond Road
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	N/A
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	N/A
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Town Clerk
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No



NFIP Topic	Comments
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes, any available
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Education and outreach
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	N/A
What are the barriers to running an effective NFIP program in the community, if any?	Lack of need, and personnel
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	The ordinance has been requested from the NYDEC.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No, there is minimal floodplain

### 9.13.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.13-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.13-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	0	0	0	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	0	0	0	0	0	0	0	0	0	0	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
There has been no major development or infrastructure from 2017 to present												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
There are no known or anticipated major development and infrastructure in the next five (5) years												

SFHA Special Flood Hazard Area (1% flood event)

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

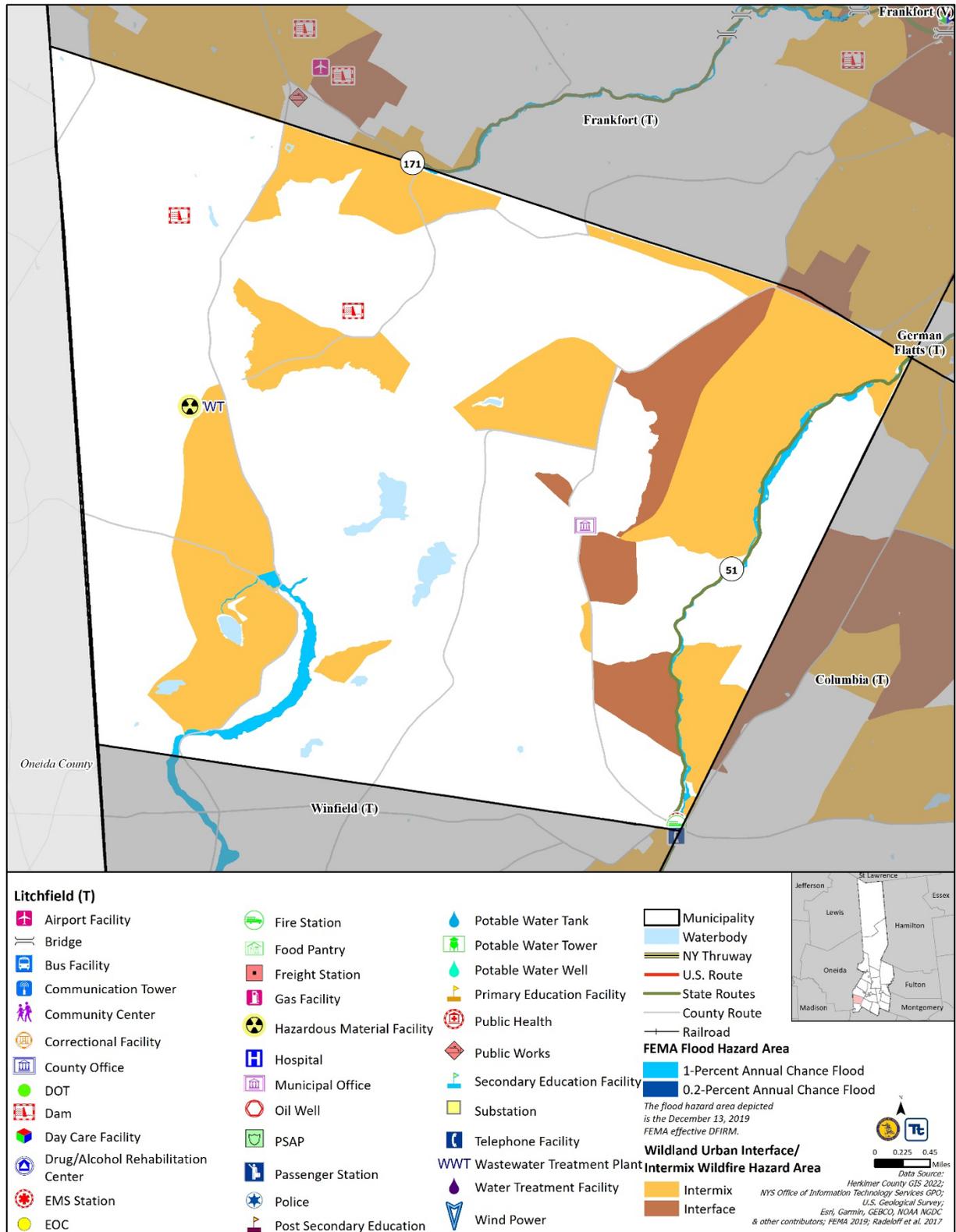
### 9.13.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Litchfield’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Litchfield has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.13-1. Town of Litchfield Hazard Area Extent and Location Map





### Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Litchfield’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.13-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.13-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Replaced 2 culvert pipes, Major ditch repair to several roads. Town purchased flooded road signs.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Cleaned up and assisted with opening roads near town lines. No significant expenses incurred.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Employees changed to report from home for needed highway maintenance. Small expenses for cleaning protocol.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	No significant emergencies in town of Litchfield.

Notes:



EM      Emergency Declaration (FEMA)  
 FEMA   Federal Emergency Management Agency  
 DR      Major Disaster Declaration (FEMA)  
 N/A     Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Litchfield’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Litchfield. The Town of Litchfield reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town agreed that the calculated rankings accurately reflected the risk posed to the community.

**Table 9.13-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.13-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Cedarville Fire Department	Fire Station	Y	Y	2023-Litchfield-001, 2023-Litchfield-005	-

Source: Herkimer County 2023

### Identified Issues

After review of the Town of Litchfield’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Litchfield identified the following vulnerabilities within their community:

- Ditches in Town have incurred damages from heavy rain and flooding.
- Culverts in Town may be too small to handle influx of heavy rains and flooding.
- Basement flooding has occurred at a singular house on Ball Road.
- There are two (2) abandoned properties located in the floodplain.
- The Rasbach Road/Albany Street intersection experiences flooding due to runoff from the quarry.

### 9.13.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.



### Past Mitigation Initiative Status

The Town of Litchfield did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Additional Mitigation Efforts

The Town of Litchfield identified the following mitigation efforts completed since the last HMP:

- All culverts worked on have been increased by at least 20%.
- The drainage ditch damaged from a 2017 storm has been repaired and upgraded.
- Issued guidance during the COVID-19 for employees, but no mandate.
- Updated policy on snow removal and informed the public of the update.
- The Highway Department switched from using sand for winter road maintenance to a fine stone gravel called “B’s,” which has improved winter roadway conditions.

Since the adoption of the County’s first HMP, the Town of Litchfield has made significant mitigation progress in the following areas:

- Winter weather preparedness
- Education on safe disease/pandemic prevention methods
- Culvert upgrades to further reduce flood occurrences

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Litchfield had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Town’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.13-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature				X			X			
Drought				X			X			
Flood	X	X		X	X	X	X			X
Severe Storm	X	X		X	X	X	X			X
Severe Winter Storm	X			X	X		X			X
Wildfire	X			X	X		X			X



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Infestation				X			X			
Dam Failure	X			X			X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.13-16. ).

The table below summarizes the specific mitigation initiatives the Town of Litchfield would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.13-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Litchfield-001	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	Yes	No	1 year	Town Clerk	Low	Medium	Local Funding, HMGP, FMA	Medium	LPR	PP
2023-Litchfield-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan</p>	No	No	5 years	Town Clerk, NYS Codes Division	Medium	Medium	HMGP	Low	LPR	ES
2023-Litchfield-003	Hazard Risk Education	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm,	<p><b>Problem:</b> Information about hazard risks and high-hazard areas is not always readily available.</p>	No	No	1 year	Town Clerk, Highway Department	Low	High	Local Funding, BRIC, HMGP	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<b>Solution:</b> The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-Litchfield-004	Culvert Upgrade Program	1	Flood, Severe Storm	<b>Problem:</b> Culverts in Town are aging, and many are undersized, leading to areas of localized flooding, in particular at the intersection of Rasch	No	Yes	5 years	Town Board	Medium	High	Local Funding, HMGP, BRIC	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>Road and Albany Street, on Ball Road, Soncody Road, and Hammond Road.</p> <p><b>Solution:</b> Upgrade culverts in Town with an increase of at least 20% in capacity.</p>										
2023-Litchfield-005	FMA Program	1, 2	Flood	<p><b>Problem:</b> There are five (5) houses and the Fire Station which are located within the floodplain; two (2) of the five (5) properties have been abandoned.</p> <p><b>Solution:</b> Inform home and property owners of the FMA Program and opportunities to elevate their property, or have the property acquired by the Town. Determine if the fire station is built to the 500-year elevation to reduce potential flood impacts.</p>	No	Yes	2 to 3 years	Town Board, Town Clerk, Codes Enforcement	High	High	FMA	High	SIP	PP
2023-Litchfield-006	Comprehensive Plan Update	1, 3	Flood, Severe Storm,	<p><b>Problem:</b> The Town of Litchfield has not updated their Comprehensive Plan</p>	No	No	3 to 4 years	Town Board, Town Supervisor	Low	Medium	Local Funding	High	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Severe Winter Storm, Wildfire	<p>since its last rendition in September 2013.</p> <p><b>Solution:</b> Review and update the Town's Comprehensive Plan by working with Town, County, and State agencies and gathering public input to ensure the most current data is utilized.</p>										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes 💧 Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.



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

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.13-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Litchfield-001	Increase NFIP Capabilities	1	1	1	1	0	0	1	0	0	1	0	1	0	0	7	Medium
2023-Litchfield-002	Develop Substantial Damage Response Plan	0	0	1	1	0	0	0	0	0	0	1	1	0	0	4	Low
2023-Litchfield-003	Hazard Risk Education	1	0	1	1	1	0	1	0	1	1	1	1	0	0	9	High
2023-Litchfield-004	Culvert Upgrade Program	1	1	1	1	1	1	1	0	1	1	0	1	0	0	10	High
2023-Litchfield-005	FMA Program	1	1	1	1	0	1	0	1	1	1	0	1	0	0	9	High
2023-Litchfield-006	Comprehensive Plan Update	0	1	1	1	1	1	1	0	0	1	1	1	1	0	10	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.14 CITY OF LITTLE FALLS

This section presents the jurisdictional annex for the City of Little Falls that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the City participated in the planning process, an assessment of the City of Little Falls’ risk and vulnerability, the different capabilities used in the City, and an action plan that will be implemented to achieve a more resilient community.

### 9.14.1 Hazard Mitigation Planning Team

The City of Little Falls identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many City departments, including the Mayor and City Engineer. The city Engineer represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.14-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Chester P. Szymanski III, P.E. – City Engineer Address: 659 E. Main Street, Little Falls, NY 13365 Phone Number: 315-574-5239 Email: <a href="mailto:cityengineer@cityoflittlefalls.net">cityengineer@cityoflittlefalls.net</a>	Name/Title: Mark Blask – Mayor Address: 659 E. Main Street, Little Falls, NY 13357 Phone Number: 315-823-2400 Email: <a href="mailto:mayor@cityoflittlefalls.net">mayor@cityoflittlefalls.net</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Chester P. Szymanski III, P.E. – City Engineer Address: 659 E. Main Street, Little Falls, NY 13365 Phone Number: 315-574-5239 Email: <a href="mailto:cityengineer@cityoflittlefalls.net">cityengineer@cityoflittlefalls.net</a>	
<b>Additional Contributors</b>	
Name/Title: Philip Green – Code Enforcement Officer Method of Participation: Provided information and data for Worksheets	



## 9.14.2 Municipal Profile

The City of Little Falls has a total area of 4.0 square miles, of which 3.8 square miles are land and 0.15 square miles are water. The City is located mostly on the bank of the Mohawk River.

According to the U.S. Census, the 2020 population for the City of Little Falls was 4,605, a 7.4-percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 7.1-percent of the population is 5 years of age or younger and 17.2-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the City of Little Falls has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 10.24% of the population does not have a high school diploma
- 12.6% of the population has a disability
- 12.10% of households do not have a vehicle
- 30.80% of the population is living below the poverty level
- 10.69% of the population is unemployed

## 9.14.3 Jurisdictional Capability Assessment and Integration

The City of Little Falls performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the City of Little Falls to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the City of Little Falls. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.14-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The City of Little Falls has adopted the New York State Uniform Fire Prevention and Building Code.				
Zoning/Land Use Code	Yes	Little Falls Comprehensive Plan	Local	City Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The City Comprehensive Plan discusses the City zoning and land use codes that preserve the community's character, safety, and quality of life.				
Subdivision Ordinance	Yes	Subdivision Ordinance	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
These regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>To provide for the future growth and development of the City</li> <li>To afford adequate facilities for housing, transportation, distribution, comfort, convenience, safety, health, and welfare</li> <li>To show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> <li>To require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire -fighting equipment to buildings</li> <li>To assure that the subdivision streets and highways shall be coordinated to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance</li> <li>To find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	Floodplain Ordinance	Local	City Engineering
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i>            The purpose of this chapter is to promote the public health, safety, and welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ul style="list-style-type: none"> <li>Regulate uses which are dangerous to health, safety, and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities</li> <li>Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction</li> <li>Control the alteration of natural floodplains, stream channels and natural protective barriers which are involved in the accommodation of floodwaters</li> <li>Control filling, grading, dredging and other development which may increase erosion or flood damages</li> <li>Regulate the construction of flood barriers which will unnaturally divert floodwaters, or which may increase flood hazards to other lands</li> <li>Qualify and maintain for participation in the National Flood Insurance Program</li> </ul>				
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	-	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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**Planning Documents**

Comprehensive Plan	Yes	City of Little Falls Comprehensive Plan – September 2018	Local	Town Planning Board
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The City Comprehensive Plan provides an overarching guideline to managing land uses, while promoting the health, safety and general welfare of citizens.. The City Comprehensive Plan includes guidelines for stormwater runoff, water retention, and a wastewater treatment policy to protect the environment. The Comprehensive Plan does not mention hazard mitigation or projects of inclusion. There is potential to incorporate these elements

Capital Improvement Plan	No	-	-	-
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Disaster Debris Management Plan	No	-	-	-
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Floodplain Management or Watershed Plan	Yes	Floodplain Management Plan – 1987	Local	Department of Public Works
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The City of Little Falls Floodplain Management Plan was adopted in 1987. The Floodplain Management Plan has not been updated since its adoption and no longer accurately represents the City floodplain areas.

Stormwater Management Plan	No	-	-	-
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Open Space Plan	No	-	-	-
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Urban Water Management Plan	No	-	-	-
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Habitat Conservation Plan	No	-	-	-
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Economic Development Plan	No	-	-	-
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Community Wildfire Protection Plan	No	-	-	-
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Community Forest Management Plan	No	-	-	-
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Transportation Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other	Yes	Local Waterfront Revitalization Program (LWRP)	Local	Little Falls City Council

*How has or will this be integrated with the HMP and how does this reduce risk?*

The City of Little Falls Local Waterfront Revitalization Program (LWRP) is a locally prepared comprehensive land and water use plan for the City's natural, public, and developed waterfront resources along the Mohawk River and the Canal System.

The City of Little Falls LWRP provides a comprehensive framework within which critical waterfront issues can be addressed and planned waterfront improvement projects can be pursued and implemented. The Little Falls LWRP was adopted by the City's Common Council on December 6, 2005 and approved by the New York State Secretary of State on December 22, 2010.

Other	Yes	South Side/Waterfront New Visions Plan: Revitalization Report, March 2019	Local	Little Falls City Council
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The South Side / Waterfront New Vision Plan builds on the existing Local Waterfront Revitalization Program (LWRP) for the Mohawk River and Erie Canal (2010), the City's Comprehensive Plan (2018), and the investments being made to rejuvenate the Waterfront and the adjacent South Side neighborhood community. The Plan includes rejuvenating vacant properties, including commercial, residential, and other deteriorating structures adjacent to the waterfront.

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Herkimer County Comprehensive Emergency Management Plan	Local	Emergency Management
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the City of Little Falls to oversee and track development.

**Table 9.14-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Building, subdivision, and zoning permits are required
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	Yes	Codes Enforcement Officer, Planning Board, Zoning Board
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	Permits are not tracked by area. The flood hazard area and location are assessed during the permitting process
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	The City of Little Falls contains a total landmass of 3,977 square miles, or 2,445 acres, of which 482 acres are active or vacant agricultural land. The Mohawk River, and the City’s topography and overall rugged character, have significantly influenced its development.



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the City of Little Falls and their current responsibilities that contribute to hazard mitigation.

**Table 9.14-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board is a four-party board, all members serves a 3-year term and is responsible for reviewing all applications for re-zoning, site plan reviews, conditional use permits, and all subdivision requests.
Zoning Board of Adjustment	Yes	The Zoning Board of appeals has final decision-making authority, the legislative body may not review the grant or denial of variances, special use permits, or any other decisions.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Department of Public Works is comprised of the City Garage, Water Treatment Plant, and Wastewater Treatment staff. The DPW is responsible for wastewater treatment and collection system, water treatment, watershed, and distribution system, storm sewer and creek maintenance, and road maintenance.
Construction/Building/Code Enforcement Department	Yes	The Code Enforcement Officer enforces the New York State Building and Fire Code within the City of Little Falls. The CEO also ensures that all local zoning and planning laws are enforced, issues building permits, makes periodic and final inspections, and will issue a certificate of compliance or a certificate of occupancy when work is completed to code.  The Code Enforcement Officer refers development in floodplain areas to the City Engineer.
Emergency Management/Public Safety Department	Yes	The City Fire and Police Department oversee protecting the lives and property of the citizens.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	Currently not in place. The City is working to implement a system within the next few months.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	The City does not have a written, formalized program. The City does investigate problematic areas as needed and perform maintenance as needed.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Mutual aid agreements	Yes	The City police and fire departments have mutual aid agreements in place with neighboring communities.
Human Resources Manual – Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	The City Engineer is knowledgeable and capable to perform related analysis.
Engineers or professionals trained in building or infrastructure construction practices	Yes	The City Engineer is trained in building and infrastructure construction practices, having over 20 years of experience in the profession.
Planners or engineers with an understanding of natural hazards	Yes	The City Engineer is knowledgeable and capable to perform related analysis regarding natural hazards.
Staff with expertise or training in benefit/cost analysis	Yes	This also falls under the purview of the City Engineer.
Professionals trained in conducting damage assessments	Yes	The Fire Chief, who serves as the community’s mitigation specialist, is skilled in assessing local vulnerability to the range of hazards to which the city may be exposed.  Additionally, the City Engineer is knowledgeable and capable to perform related analysis and has coordinate and implemented multiple FEMA recovery and mitigation projects.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Personnel with experience and access to GIS
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	Emergency Manager responsibilities fall under the purview of the Fire Chief.
Grant writer(s)	Yes	The City Engineer coordinates subcontracted grant writing work and participates in grant writing and provides source information for grant writing.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

Our Fire Chief and City Engineer are keenly aware of the natural and manmade hazards throughout the City of Little Falls and are actively working to increase safety and implement mitigation measures related to these events and infrastructure.



## Fiscal Capability

The table below summarizes financial resources available to the City of Little Falls.

**Table 9.14-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes (water/sewer)
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the City of Little Falls.

**Table 9.14-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Fire and Police
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	General website
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-



## Community Classifications

The table below summarizes classifications for community programs available to the City of Little Falls.

**Table 9.14-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable

- Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.14-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Moderate
Severe Winter Storm	Moderate
Wildfire	Moderate
Infestation	Moderate
Dam Failure	Weak
Disease Outbreak	Weak

Note: Adaptive capacity was assumed Moderate for all hazards.



The City of Little Falls altered their adaptive capacity for the Dam Failure and Disease Outbreak hazards to ‘Weak’ from ‘Moderate’.

### 9.14.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the City of Little Falls.

**Table 9.14-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
City of Little Falls	16	18	\$548,518	0	3	0	Data not available

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the City of Little Falls.

**Table 9.14-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Areas prone to flooding in the City of Little Falls are found generally along the Canal / Mohawk River Corridor, Southern Avenue, West Main Street, and River Road. Additionally, areas throughout the City are at risk from flooding resulting from limited capacity of (or blockages to) stream inlets within the City as the City has many covered creeks through the downtown with inlets at the periphery of the City.  A list of properties damaged by flooding is not kept by the City.
Do you maintain a list of property owners interested in flood mitigation?	The City does not keep a list of property owners interested in flood mitigation.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
<p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	<p>RiskMAP are held at the County level.</p> <p>Case Number 17-02-0791S            Project Name REG - Herkimer County PMR/Revised Prelim CW - FY16</p>
<p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	<p>The Codes Enforcement Officer is responsible for substantial damage determination. There were no determinations made in the recent flood events.</p>
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	<p>None</p>
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	<p>Maps do not consider the impact of flooding due to local creek.</p>
<p><b>NFIP Compliance</b></p>	
<p>What local department is responsible for floodplain management?</p>	<p>City Engineer.</p>
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	<p>No, though the City Engineer is a New York State Licensed Professional Engineer.</p>
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	<p>No.</p>
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	<p>No</p>
<p>Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)</p>	<p>The City perform permit review and the tasks required by local city ordinance.</p>
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	<p>Codes Enforcement Officer</p>
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	<p>None</p>
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	<p>A replacement bridge at South Ann Street (constructed in 2012) is lacking NFIP compliance documentation.</p> <p>A garage at 10 Mohawk Street is lacking an elevation certificate. (2015)</p> <p>A garage at 6 Mohawk Street (Tax Parcel 114.76-1-16) is lacking an elevation certificate. (2015)</p> <p>A hard fill site on Southern Avenue (Tax Parcel 114.84-1-1) did not obtain a floodplain development permit. (2015)</p>



NFIP Topic	Comments
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	May 2020
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law 2 of 1987; no updates.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	The program meets the requirements.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No additional ordinances, plans, or programs are available.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	There is no plan to join at this time.

### 9.14.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.14-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.14-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	2	0	0	0	0	0	1	0	1	0	1	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												



Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					

SFHA Special Flood Hazard Area (1% flood event)

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

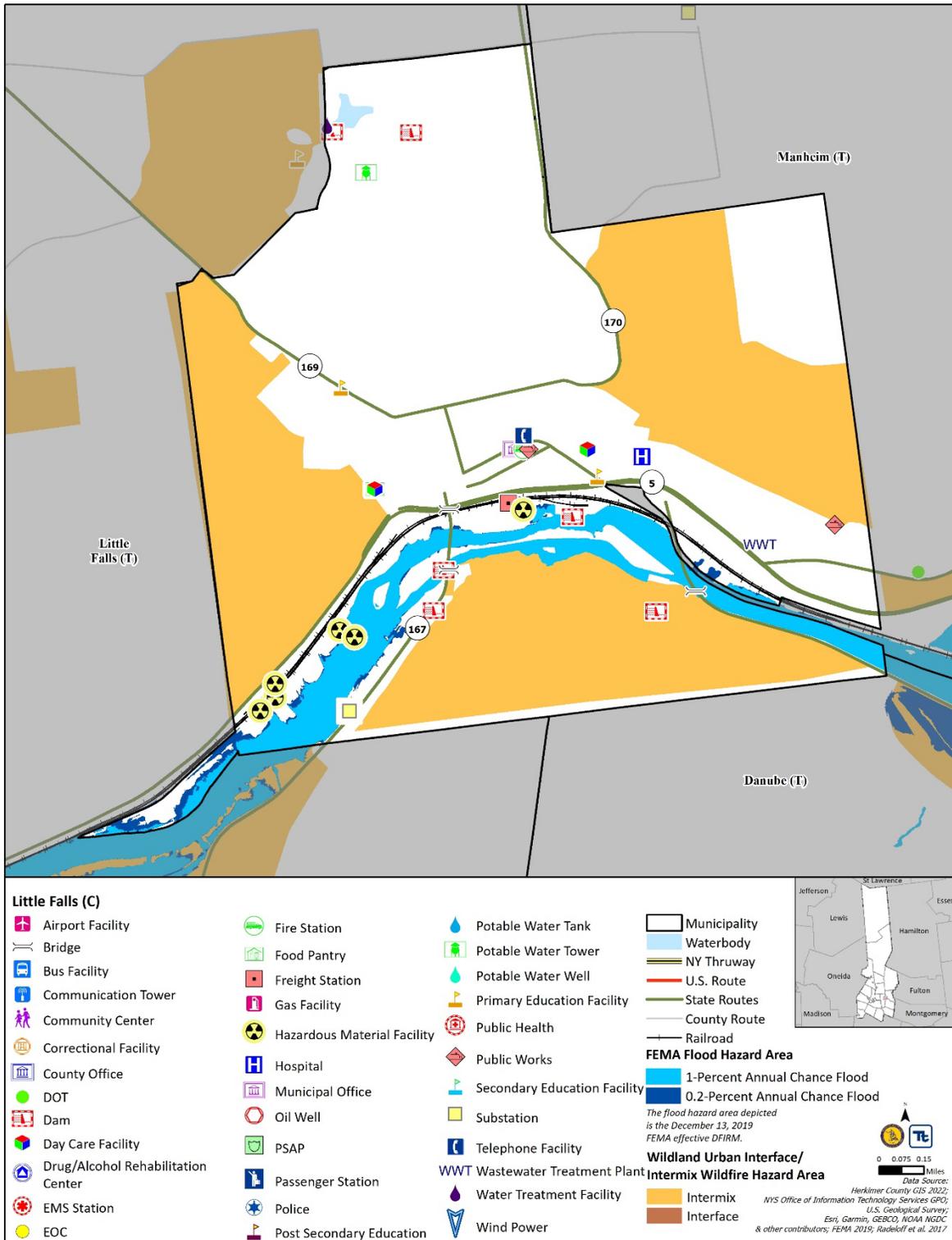
### 9.14.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the City of Little Falls’ risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the City of Little Falls has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.14-1. City of Little Falls Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The City of Little Falls’ history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.14-12 provides details regarding municipal-specific loss and damages the City experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.14-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Localized flooding of roads and flow over the capacity of stream conduits through the City. Sediment deposition at inlets to large streams through the City.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Area flooding along the Canal and Mohawk River / Southern Avenue; West Main Street. Overtopping of the Spruce Lake Dam and removal of portions of Dairy Hill Road exposing lengths of the City’s only water transmission main.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Resulted in lost work hours and reduced City services through the pandemic in 2020 and 2021.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Localized flooding of roads and flow over the capacity of stream conduits through the City. Sediment deposition at inlets to large streams through the City.

Notes:

EM Emergency Declaration (FEMA)



FEMA Federal Emergency Management Agency
DR Major Disaster Declaration (FEMA)
N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the City of Little Falls’ risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the City of Little Falls. The City of Little Falls reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the City indicated the following:

- The City indicated that instances of flooding and damages from flooding have increased in frequency
Dam conditions have been impacted by recent flood events and in need of repairs.

Table 9.14-13. Hazard Ranking Input

Table with 2 columns: Hazard, Rank. Rows include: Extreme Temperature (Low), Drought (Low), Flood (High), Severe Storm (High), Severe Winter Storm (Medium), Wildfire (Low), Infestation (Low), Dam Failure (Medium), Disease Outbreak (Medium).

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.14-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Little Falls Color Print	Hazardous Materials Facility	X	X	*Little Falls Color Print is no longer an active business. The facility no longer has hazardous materials.	N/A
Middle Farm Dam	Dam	X	X	According to the National Inventory of Dams, there is no dam named "Middle Farm Dam" in Herkimer County.	N/A
NY Route 167 bridge over Erie Canal	Bridge	X	X	2023-City of Little Falls-0014	TBD
NY Route 169 bridge over Mohawk River/Canal/CSX Railroad "Wind Bridge"	Bridge	X	X	2023-City of Little Falls-0014	TBD

Source: Herkimer County 2023

Notes: N/A = Not Applicable; TBD=To be determined

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The City of Little Falls following dams, reservoirs, and other related facilities are located within its jurisdiction:

- Little Falls State Dam – North
- Lock E-17 Dam
- Little Falls Reservoir Dam
- Little Falls Distribution Reservoir Dam

The City of Little Falls owns the Spruce Lake Dam, located in the Town of Salisbury.

Both the NY Route 167 bridge and the NY Route 169 bridge are owned and maintained by the State of New York’s Department of Transportation (NYSDOT 2023).

### Identified Issues

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After review of the City of Little Falls hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the City of Little Falls identified the following vulnerabilities within their community:

- City Hall and the Department of Public Works garage need backup power facilities to maintain continuity of operations in hazard events
- Carden Creek conduit is undersized and requires upsizing and repair
- Cemetery Creek, Manheim Creek, Smith Creek, Skinner Creek, Eysamen Creek, and Furnace Street Creek conduits all require improvement projects due to unsafe condition
- Two unnamed creek conduits in the area of Southern Avenue also need improvement projects due to condition
- Sanitary sewer collection system throughout the City is in need of repair
- The water distribution system pipes and valves are in deterioration resulting in water loss and difficult maintenance

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.14.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.14-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps  1. Project to be included in the 2023 HMP or Discontinue  2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate).  3. If discontinue, explain why.
						Cost	Level of Protection	
CLF-001	Creek Bank Stabilization	Slope collapse and sediment deposition	City of Little Falls	Unstable embankments and highly erodible material along the banks of Cemetery and Danube Creeks. Solution: Bank stabilization through structural or vegetative measures.	No Progress.	Cost	-	Funding is needed to complete this project.  Carry over to the updated plan
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
CLF-002	Generators for Critical Facilities	Continuation of emergency service and critical services during hazard events	City of Little Falls	Generators are needed for City Hall (which includes the Police, Fire, and NYS Courts); the Water Treatment Plant; DPW Garage; and the Wastewater Treatment Plant and Pump Stations.	In Progress.	Cost	-	Generators are being designed for the wastewater treatment plant and pump stations at this time. Funding is needed to provide generators for the other locations listed.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
CLF-003	Dam Repair and Stabilization	Repairs are needed to the Spruce Lake Dam	City of Little Falls	Structural repairs and mechanical replacements are needed to bring	In Progress.	Cost	-	A feasibility study has been completed for Spruce Lake Dam and an inspection has been completed for the Lower Reservoir Dam. An action plan has been submitted to the NYSDEC for the needs at Spruce Lake
						Level of Protection	-	



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps  1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		and the Lower Reservoir Dam		both dams back into compliance with dam safety regulations.		Damages Avoided; Evidence of Success	-	Dam, however, funding is needed to implement repairs and replacements at both dams.
CLF-004	Creek Inlet Improvements and Conduit Repairs / Replacement	Flooding due to limited capacity of inlets and conduits at multiple creeks throughout the City of Little Falls	City of Little Falls	Existing creek conduits through the City are subject to Increased runoff rates and frequency from upland areas resulting in overtopping of inlets and localized flood damage	In Progress	Cost	-	Minor improvements are being made to creek inlets, however much more funding is needed to implement adequate solutions.
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.14-15, the City of Little Falls identified the following mitigation efforts completed since the last HMP:

- Updated the City’s Master Plan (September 2018).
- Created the South Side / Waterfront Revitalization Plan Revitalization Report (March 2019). This plan focuses on rejuvenating properties (residential, commercial, and otherwise) near the waterfront of the Mohawk River.
- Generators are being designed for the wastewater treatment plant and pump stations as part of the 2017 City of Little Falls action item CLF-002.
- As part of the 2017 City of Little Falls action item CF-003, a feasibility study has been completed for Spruce Lake Dam and an inspection has been completed for the Lower Reservoir Dam. An action plan has been submitted to the NYSDEC for the needs at Spruce Lake Dam.
- Minor improvements are being made to Smith Creek inlets, which falls into 2017 City of Little Falls action item CLF-004.

Since the adoption of the County’s first HMP, the City of Little Falls has made significant mitigation progress in the following areas:

- Writing and implementing plans to support flood mitigation practices, including the City’s Master Plan and the South Side / Waterfront Revitalization Plan Revitalization Report.
- Initiating COOP/COG practices by designing generators for critical facilities.
- Identifying vulnerabilities at critical facilities, including the completion of a feasibility study for the Spruce Lake Dam.
- Strengthening the City’s management of stormwater by making improvements to inlets surrounding Smith Creek.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The City of Little Falls participated in a mitigation action workshop in April 2023 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.14-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam Failure	X	X	X	X	X	X	X	X	X	X



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak	X	X		X	X	X	X			X
Drought	X	X		X	X	X	X			X
Extreme Temperature	X	X		X	X	X	X			X
Flood	X	X	X	X	X	X	X	X	X	X
Infestation and Invasive Species	X	X		X	X	X	X			X
Severe Storm	X	X	X	X	X	X	X	X		X
Wildfire	X	X		X	X	X	X			X
Winter Weather	X	X	X	X	X	X	X	X		X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.14-17).

The table below summarizes the specific mitigation initiatives the City of Little Falls would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.14-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-City of Little Falls-001	Creek Bank Stabilization	1, 3, 4	Dam Failure, Flood, Severe Storm	<p><b>Problem:</b> Smith Creek, Danube Creek, and Cemetery Creek banks are unstable and have highly erodible material along the banks that leads to erosion and roadway flooding during storm events</p> <p><b>Solution:</b> The City Engineer will work with the City Public Works to implement proper bank stabilization through structural or vegetative measures.</p>	No	No	Within 5 years	City of Little Falls Engineer, City of Little Falls Department of Public Works	High	High	HMGF, BRIC, FMA, Local Budgets	High	SIP	NR
2023-City of Little Falls-002	Backup Generators for Critical Facilities	1	Dam Failure, Disease Outbreak, Drought, Extreme	<b>Problem:</b> The City Hall, which includes the Police, Fire, and NYS	Yes	No	1 to 2 years	City of Little Falls Department of Public Works	Low	Medium	HGMP, FMA, BRIC, Local Budget	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Temperature, Flood, Infestation and Invasive Species, Severe Storm, Wildfire, Winter Weather	Courts does not have backup generators. <b>Solution:</b> The City Department of Public Works and Emergency Management to obtain funding for backup generators for the City Hall.										
2023-City of Little Falls-003	Backup Generators for Wastewater Treatment Plant and Pump Station	1	Dam Failure, Flood, Severe Storm, Wildfire, Winter Weather	<b>Problem:</b> The Wastewater Treatment Plant does not have a backup generator. Backup generator design plans have been approved. <b>Solution:</b> The City Department of Public Works and Engineer will obtain funding to	Yes	No	1 to 2 years	City of Little Falls Department of Public Works, City Engineer	Medium	High	HMGP, FMA, BRIC, Local Budget	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				implement the design plans for the wastewater treatment plant backup generators.										
2023-City of Little Falls-004	Spruce Lake Dam and Lower Reservoir Dam Repair	1, 3, 5	Dam Failure	<b>Problem:</b> Spruce Lake Dam and Lower Reservoir Dam are not in compliance with dam safety regulations. An action plan was completed and sent to NYSDEC for Spruce Lake Dam and funding is needed to complete upgrades for both Spruce Lake and Lower Reservoir Dams.	Yes	No	Withing 5 years	City of Little Falls Department of Public Works, City of Little Falls Emergency Management , New York State Department of Environmental Conservation (NYSDEC)	High	High	HMGP, BRIC, FMA, Local Budget	High	SIP, NSP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> The City Department of Public works and Emergency Management will work with NYSDEC to obtain funding to implement repairs identified in the Action plan and to replace both Spruce Lake Dam and Lower Reservoir Dam.										
2023-City of Little Falls-005	Protection of Inlets	1, 4	Flood, Severe Storm, Winter Weather	<b>Problem:</b> Existing creek conduits including Inlet of Smith Creek and Inlet to Carden Creek - Eysaman Creek, Manheim Creek, Danube Creek through the City are subject to increased	No	No	Within 5 years	City of Little Falls	High	High	HMGP, BRIC, Local Budget	High	NSP	NR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
				<p>runoff rates and frequency from upland areas resulting in overtopping of inlets and localized flood damage.</p> <p><b>Solution:</b> The City of Little Falls will increase the capacity of Inlet of Smith Creek and Inlet to Carden Creek - Eysaman Creek, Manheim Creek, Danube Creek - through incorporating green infrastructure practices such as increasing size of wetlands parallel to the inlets and creeks, increase</p>											



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				vegetation near waterways.										
2023-City of Little Falls-006	Upper Reservoir Dam Feasibility Study	1, 3, 4, 5	Dam Failure, Flood	<p><b>Problem:</b> Upper Reservoir Dam is not in compliance with Dam Safety regulations.</p> <p><b>Solution:</b> The City of Little Falls will work with NYSDEC to conduct a feasibility study to determine the best course of action whether to repair the dam or decommission the dam.</p>	Yes	No	Within 5 years	City of Little Falls	High	High	HMGP, BRIC, FMA, High Hazard Dam Grant	High	SIP, NSP	PR, SP
2023-City of Little Falls-007	Develop Substantial Damage Response Plan	1	Dam Failure, Flood,, Severe Storm, Wildfire, Severe Winter Storm	Problem: The City does not have a determination process for substantially damaged structures.	No	No	Within 2 years	City of Little Falls	Low	Medium	HMGP, CDBG, Local Budget	High	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> The City of Little Falls will develop a Substantial Damage Response Plan.										
2023-City of Little Falls-008	Forest Management Plan	1, 4	Infestation and Invasive Species, Wildfire	<p><b>Problem:</b> The City of Little Falls has seen an increase in invasive species throughout wooded areas and an increase in wildfire due to climate changes.</p> <p><b>Solution:</b> The City will develop a Forest Management Plan to maintain invasive species and wildfires throughout the City's Forest areas.</p>	No	No	1 to 2 years	City of Little Falls	Low	Medium	Local Budget	High	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-City of Little Falls-009	Participate in Climate Smart Communities	3	Dam Failure, Drought, Extreme Temperature, Flood, Infestation and Invasive Species, Severe Storm, Wildfire, Winter Weather	<p><b>Problem:</b> The City of Little Falls is not currently participating in Climate Smart Communities Program.</p> <p><b>Solution:</b> The City will begin the process of joining and maintaining active status in the Climate Smart Communities program</p>	No	No	1 to 2 years	City of Little Falls	Low	Medium	Local Budget	High	LPR	PR
2023-City of Little Falls-010	Green Infrastructure	1, 4	Flood	<p><b>Problem:</b> The City has a combined sewer system that will overflow during flood events.</p> <p><b>Solution:</b> The City Public Works Department and Planning Department will work</p>	No	No	1 to 2 years	City of Little Falls Public Works Department, City Planning Department	High	High	HMGP, BRIC, CDBG, Local Budget	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				together to develop green infrastructure practices to reduce runoff to the combine sewer system.										
2023-City of Little Falls-011	Identify Heating Centers	1	Extreme Temperature, Flood, Severe Storm, Winter Weather	<p><b>Problem:</b> The City does not have a designated heating/warming center.</p> <p><b>Solution:</b> The City will work with the County to identify which schools, businesses and other shelter areas can identify as a heating/warming center during extreme temperature events.</p>	No	No	3 years	City of Little Falls	Medium	Medium	Local Budget	High	EAP	ES
20203-City of Little	All Hazard Education and Outreach	1, 2, 3	Dam Failure, Drought, Extreme Temperature	<p><b>Problem:</b> The residents have a limited understand of</p>	No	No	1 year	City of Little Falls Emergency Services	Low	High	Local Budget	High	EAP	ES, PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Falls-012			e, Flood, Infestation and Invasive Species, Severe Storm, Wildfire, Winter Weather	<p>the risk associated with hazard events.</p> <p><b>Solution:</b> The City will work with residents to distribute information trainings and pamphlets to provide an in-depth understanding of how to better prepare community members for hazard events. The City will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				the intent of reducing their exposure and impacts to natural hazards. The City will provide educational materials on the village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023–City of Little Falls–0013	Flood Map Updates	1, 3, 4	Flood	<b>Problem:</b> The City’s preliminary flood mapping does not	No	No	Within 5 years	City of Little Falls	Low	High	Local Budget	High	EAP	ES, PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				adequately address flood risk in the City. <b>Solution:</b> The City will work with FEMA to update flood maps throughout the City.										
2023-City of Little Falls-0014	Critical Facility Inventory and Outreach	1,2	Flood	<b>Problem:</b> The NY Route 167 and 169 Bridges are located in the 1- and 0.5-percent flood areas. <b>Solution:</b> Partner with New York DOT to assess whether the Moyer Creek would damage the bridges and to what extent.	Yes	No	Short	Dept of Emergency Services with support from Department of Public Works	Low	Increased critical facility resilience, reduction of interruption of services	Operating Budget	Yes	No	Short

Notes:

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

Acronyms and Abbreviations:

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program  
 HMGP Hazard Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation.

Cost:



EHP	Environmental Planning and Historic Preservation	BRIC	Building Resilient Infrastructure and Communities Program	The estimated cost for implementation.
FEMA	Federal Emergency Management Agency			Benefits:
FPA	Floodplain Administrator			A description of the estimated benefits, either quantitative and/or qualitative.
HMA	Hazard Mitigation Assistance			
N/A	Not applicable			
NFIP	National Flood Insurance Program			
OEM	Office of Emergency Management			

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.14-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-City of Little Falls-001	Creek Bank Stabilization	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-City of Little Falls002	Backup Generators for Critical Facilities	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-City of Little Falls-003	Backup Generators for Wastewater Treatment Plant and Pump Station	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-City of Little Falls-004	Spruce Lake Dam and Lower Reservoir Dam Repair	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2023-City of Little Falls-005	Protection of Inlets	1	1	1	1	1	1	1	1	1	0	1	1	0	1	13	High
2023- City of Little Falls-006	Upper Reservoir Dam Feasibility Study	1	1	1	0	1	1	1	1	1	1	1	0	1	1	11	High
2023-City of Little Falls-007	Develop Substantial Damage Response Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-City of Little Falls-008	Forest Management Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-City of Little Falls-009	Participate in Climate Smart Communities	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High



Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-City of Little Falls-O10		1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2023-City of Little Falls-O11	Identify Heating Centers	1	0	1	0	1	1	1	0	1	1	1	1	1	1	11	High
2023-City of Little Falls-O12	All Hazard Education and Outreach	1	1	1	0	0	1	1	0	1	0	1	1	1	1	10	High
2023-City of Little Falls-O013	Flood Map Updates	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2023-City of Little Falls-O014	Critical Facility Inventory and Outreach	1	1	1	1	0	0	0	0	1	1	0	1	0	1	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.15 TOWN OF LITTLE FALLS

This section presents the jurisdictional annex for the Town of Little Falls that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Little Falls’ risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.15.1 Hazard Mitigation Planning Team

The Town of Little Falls identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Supervisor and Highway Department. The Town Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.15-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Daniel Casler – Town Supervisor Address: 478 Flint Ave, Little Falls, NY 13365 Phone Number: 3158231202 office; 3155274903 cell Email: <a href="mailto:tlittlefalls@gmail.com">tlittlefalls@gmail.com</a>	Name/Title: Donald Cotton – Highway Superintendent Address: 478 Flint Ave, Little Falls, NY 13365 Phone Number: 315-868-6585 Email: N/A
<b>NFIP Floodplain Administrator</b>	
Name/Title: Daniel Casler – Town Supervisor Address: 478 Flint Ave, Little Falls, NY 13365 Phone Number: 3158231202 office; 3155274903 cell Email: <a href="mailto:tlittlefalls@gmail.com">tlittlefalls@gmail.com</a>	



## 9.15.2 Municipal Profile

The Town of Little Falls encompasses a total area of 22.6 square miles, of which 22.4 square miles is land and 0.2 square miles is water. The Town is accessible via NYS Route 169 and NYS Route 170 to the North and South, NYS Route 5 to the East and West and Route 5S to the East and West.

According to the U.S. Census, the 2020 population for the Town of Little Falls was 1,544, a 6.0 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 4.9 percent of the population is 5 years of age or younger and 17.3 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Little Falls has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 10.24% of the population does not have a high school diploma
- 20.00% of the population has a disability
- 12.10% of households do not have a vehicle
- 30.80% of the population is living below the poverty level
- 10.69% of the population is unemployed

## 9.15.3 Jurisdictional Capability Assessment and Integration

The Town of Little Falls performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Little Falls to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.



## Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Little Falls. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.15-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Little Falls has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Subdivision Ordinance	Yes	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Subdivision Ordinance provides guidance in how growth can be handled prudently to ensure safety of current future residents.				
Site Plan Review	Yes	- 3/10/2015	Local	Codes Officer, Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town enforced a site review process to ensure that development and redevelopment occurs within appropriate guidelines.				
Stormwater Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
				State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	Flood Damage Prevention Law	Local Laws: #2-1988 Adopted 2/10/1988 #4-1991 Amendment Made & Adopted 12/30/1991	Codes Officer
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>Codes Officer reviews Review all development permits applications to determine if the proposed development adversely affects the area of special flood hazard. A hydraulic engineering study may be required of the applicant for this purpose. If there is no adverse effect, then the permit shall be granted consistent with the provisions of this local law. If there is an adverse effect, then flood damage mitigation measures shall be made a condition of the permit.</p>				
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Other	-	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	-	-	-	-

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Herkimer County Emergency Management Plan	Local, County	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Little Falls to oversee and track development.

**Table 9.15-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Code Officer
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	The town has potential for development.



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Little Falls and their current responsibilities that contribute to hazard mitigation.

**Table 9.15-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board is responsible for all review and approval of all business and commercial projects
Zoning Board of Adjustment	Yes	The Zoning Board of Appeals has final decision-making authority.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Town Highway Dept is responsible for maintaining of 14 of the 15 miles of town roads, and wintertime maintenance of 17 miles of County roads, as well as an additional 10 miles of State highways, all located within the boundaries of the Town of Little Falls.
Construction/Building/Code Enforcement Department	Yes	The Codes Officer enforces the codes and ordinances of the town, issues building, septic and demolition permits and performs building and fire code inspections.
Emergency Management/Public Safety Department	Yes	Herkimer County handles emergency management.
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	Town Highway Department has shared services with Herkimer County Highway Dept. and Town of Herkimer
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	Yes	The Fire Dept, Code Enforcement, and Highway Department include professional staff with an understanding of natural and manmade hazards.
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	The Fire Chief, who serves at the mitigation specialist is skilled in assessing local vulnerability
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Little Fall’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Little Falls.



**Table 9.15-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes-CHIPS
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

**Education and Outreach Capability**

The table below summarizes the education and outreach resources available to the Town of Little Falls.

**Table 9.15-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Police and Fire Departments, are well positioned to integrate hazard mitigation points into their core outreach programs on environmental protection and emergency preparedness.
Personnel skilled or trained in website development	Yes	Outside Contracted
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-



## Community Classifications

The table below summarizes classifications for community programs available to the Town of Little Falls.

**Table 9.15-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	4a	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable

- Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.15-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate



## 9.15.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Little Falls.

**Table 9.15-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Little Falls	0	0	0	0	0	0	Not available

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Little Falls.

**Table 9.15-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Flint Avenue Extension No
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No None aware of
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Visual Inspection None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction?	None None



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No, maps are outdated.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Highway
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No floodplain management staff
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Codes Officer and Planning Board Review
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Codes Officer Review
What are the barriers to running an effective NFIP program in the community, if any?	None
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	None
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law No. 1988-2  Local Law No. 1991-4
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Yes-It meets requirements.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No



## 9.15.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.15-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.15-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA										
Single Family	5	0	3	0	4	0	3	0	4	0	3	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	19	0	19	0	16	0	15	0	15	0	17	0
<b>Total New Construction Permits Issued</b>	<b>24</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>20</b>	<b>0</b>

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
<b>Recent Major Development and Infrastructure from 2017 to Present</b>					
None identified.					
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
None anticipated.					

SFHA Special Flood Hazard Area (1% flood event)

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

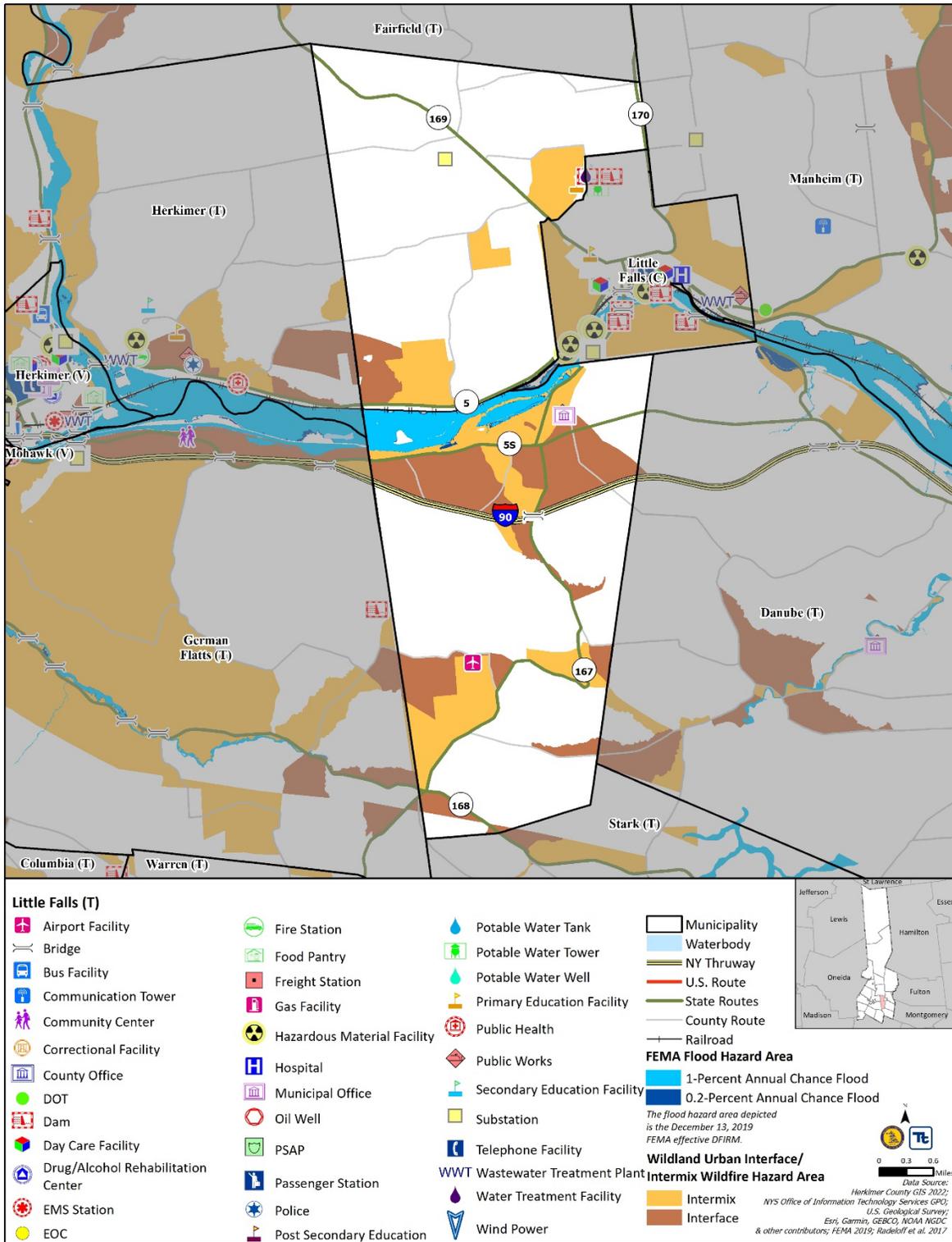
## 9.15.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Little Falls’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Little Falls has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.15-1. Town of Little Falls Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Little Falls’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.15-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.15-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	None
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	None
January 2020 – ongoing	Covid-19 Pandemic	Yes	Loss of two week’s time for Highway Employees	Lack of manpower to complete and start projects
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers	None



			were without power at the height of the storm.	
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Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Little Falls’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Little Falls. The Town of Little Falls reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

**Table 9.15-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low
Disease Outbreak	Low

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.15-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
None Identified.					

Source: Herkimer County 2023

### Identified Issues

After review of the Town of Little Falls’ hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Little Falls did not identify additional vulnerabilities within their community.

### 9.15.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



**Table 9.15-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
TLF-001	Emergency Generator – Town Offices and Garage		Town Supervisor and Highway Superintendent	No backup for power outage. Need to purchase and install a new generator	No progress	Cost	-	Project to be included in the 2023 HMP
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	
TLF-002	Ensuring concurrency between town planning documents and 2018 FEMA maps		Town Supervisor and Highway Superintendent	Mitigation Plan needs updating	Ongoing	Cost	-	Project to be included in the 2023 HMP
						Level of Protection	-	
						Damages Avoided; Evidence of Success	-	



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.15-15, the Town of Little Falls identified the following mitigation efforts completed since the last HMP:

- None identified.

Since the adoption of the County’s first HMP, the Town of Little Falls has made significant mitigation progress in the following areas:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Little had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Town’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.15-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature				X			X			
Drought				X			X			
Flood	X	X		X	X	X	X			X
Severe Storm	X	X		X		X	X			
Severe Winter Storm	X	X		X	X		X			
Wildfire				X			X			
Infestation				X			X			
Dam Failure				X			X			
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.15-17).

The table below summarizes the specific mitigation initiatives the Town of Little Falls would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.15-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Little Falls-001	Emergency Generator	1	Flood, , Severe Wildfire, Severe Winter Sorm	<p><b>Problem:</b> The Town Offices and Garage do not have backup generators .</p> <p><b>Solution:</b> The Town will purchase and install back up power generators at the Town Offices and Garage.</p>	Yes	No	1 to 2 years	Town of Little Falls Department of Public Works	Low	Medium	HGMP, FMA, BRIC, Local Budget	High	SIP	PP
2023-Town of Little Falls-002	Flood Map updates	1, 3, 4	Flood	<p><b>Problem:</b> Flood mapping may not adequately address flood risk in the town.</p>	No	No	Within 5 years	Town of Little Falls	Low	High	Local Budget	High	EAP	ES, PI



Section 9.15. Town of Little Falls

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The Town will work with FEMA to update flood maps throughout the Town.</p>										
2023-Town of Little Falls - 003	Develop Substantial Damage Response Plan	1	Flood, Severe Storm, Wildfire, Severe Winter Storm	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> The Town of Little Falls will develop a Substantial Damage Response Plan.</p>	No	No	Within 2 years	Town of Little Falls	Low	Medium	HMGP, CDBG, Local Budget	High	LP R	P R
				<b>Problem:</b>										



Section 9.15. Town of Little Falls

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Little Falls - 004	Increase NFIP Capabilities	1,2	Flood	<p>Repetitive loss residences are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of property damage by flooding and of property owners who are interested in flood mitigation.</p>	No	Yes	2 to 3 years	Town Board, Town Clerk, Codes Enforcement	High	High	FMA	High	SIP	PP
2023-Town of Little Falls - 005	Outreach/education for all hazards	1, 2, 3	Dam Failure, Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Residents are not fully aware of all hazards which may impact them and how to respond or prepare.</p>	No	No	1 year	Town Administration	Low	High	BRIC, HMGP	Medium	EAP	PI



Section 9.15. Town of Little Falls

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> The Town will work with the County of Herkimer and the City of Little Falls to develop and distribute educational materials regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide education</p>										



Section 9.15. Town of Little Falls

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>al materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts</p>										



Section 9.15. Town of Little Falls

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:



## Section 9.15. Town of Little Falls

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

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.15-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Town of Little Falls-001	Emergency Generator	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-Town of Little Falls-002	Flood Map Updates	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2023-Town of Little Falls-003	Develop Substantial Damage Response Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-Town of Little Falls-004	Increase NFIP Capabilities	1	1	1	1	0	0	1	0	0	1	0	1	0	0	7	Medium
2023-Town of Little Falls-005	Outreach/education for all hazards	1	1	1	1	0	0	0	0	1	1	0	1	0	1	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.16 TOWN OF MANHEIM

This section presents the jurisdictional annex for the Town of Manheim that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Manheim’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.16.1 Hazard Mitigation Planning Team

The Town of Manheim identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the supervisor’s office and town clerk. The supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.16-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>John Haughton – Town Supervisor</b> Address: Phone Number: <b>(315) 429-9631</b> Email: <a href="mailto:jhaughton@townofmanheim.org">jhaughton@townofmanheim.org</a>	Name/Title: <b>Carrie Rockwell – Town Clerk</b> Address: Phone Number: <b>(315) 429-9631</b> Email: <a href="mailto:mantowncler@cnymail.com">mantowncler@cnymail.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>David Kuehnle – Code Officer</b> Address: Phone Number: <b>(315)866-6313</b> Email: <a href="mailto:davidfd@twcny.rr.com">davidfd@twcny.rr.com</a>	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	



Primary Point of Contact	Alternate Point of Contact
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	

### 9.16.2 Municipal Profile

The Town of Manheim includes the Village of Dolgeville, which makes up 1.83 of the Town’s 29.7 square miles. The Mohawk River borders the Town to the south and the East Canada Creek, East Canada Lake, and Kyser Lake comprise the eastern border. Crum Creek, a Mohawk River tributary, drains the southern part of the town. Ransom Creek originates at Kyser Lake and stretches across northern Manheim. NYS Route 5 spans the town and parallels the Mohawk River and Erie Canal. County Road 167 and NYS Route 29 facilitate travel between the river and the Adirondack Mountains, the foothills of which sit a short 30-minute drive from the town.

According to the U.S. Census, the 2020 population for the Town of Manheim was 1040, an 8.5 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 5.4 percent of the population is 5 years of age or younger and 19.5percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the Town of Manheim has the following vulnerability characteristics (FEMA Resilience Analysis and Planning Tool):

- 10.56% of the population does not have a high school diploma
- 16.96% of the population has a disability
- 7.29% of households do not have a vehicle
- 13.74% of the population is living below the poverty level
- 3.56% of the population is unemployed

### 9.16.3 Jurisdictional Capability Assessment and Integration

The Town of Manheim performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.



- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Manheim to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Manheim. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.16-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	Local	Code Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Manheim has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Zoning Ordinance of the Town of Manheim	Local	Code Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Purpose of this Ordinance are to provide orderly growth in accordance with the comprehensive plan, to lessen congestion in the streets, to secure safety from fire, flood and other dangers, and to promote the health, safety and general welfare of the public.				
Zoning ordinances contain natural hazard overlay zones, discourage development within natural hazard areas; and prohibit development within, or the filling in of, wetlands and floodplains.				
Subdivision Ordinance	Yes	Town of Manheim Subdivision Regulations	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
It is declared to be the policy of the Planning Board to consider land subdivision plats as part of a plan for the orderly, efficient, and economical development of the Town. This means, among other things that land to be				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	--	---	--

subdivided shall be of such character that it can be used safely for building purposes without danger to health, or peril from fire, flood or other menace. That proper provision shall be made for drainage, water supply, sewerage and other needed improvements. That all proposed lots shall be so laid out and of such size as to be in harmony with the development pattern of the neighboring properties. That the proposed streets shall compose a convenient system conforming to the Official Map, if such exists and shall be properly related to the proposals shown on the Master Plan, if such exists, and shall be of such width, grade and location as to accommodate the prospective traffic, to facilitate fire protection and to provide access of fire-fighting equipment to buildings; and that proper provision shall be made for open spaces for parks and playgrounds.

Site Plan Ordinance	Yes	Site Plan Review Requirements	Local	Code Enforcement
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*How has or will this be integrated with the HMP and how does this reduce risk?*

This Article describes procedures for major subdivisions, minor subdivisions, one-lot subdivisions, lot-line adjustments and re-subdivisions. This Article also describes design and performance standards for all subdivisions within the Town.

Stormwater Management Ordinance	No	-	-	-
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Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
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Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
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*How has or will this be integrated with the HMP and how does this reduce risk?*

In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.

Growth Management	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	Zoning and Planning, 1997	Federal, State, county, Local	Codes Officer
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	-	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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Business/ Downtown Development Plan	No	-	-	-
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Other (for example NYRCR, etc.)	-	-	-	-
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**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Town Zoning	County/Town	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The Emergency Operations Plan guides departmental response and coordination in the event of a hazard or emergency.

Continuity of Operations Plan	Yes	Town Zoning	County/Town	- -
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Substantial Damage Response Plan	Yes	Town Zoning	County/Town	- -
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Threat & Hazard Identification & Risk Assessment (THIRA)	Yes	Town Zoning	County/Town	Highway Department
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Post-Disaster Recovery Plan	Yes	HMP	County/Town	-
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Public Health Plan	No	-	-	-
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Other	-	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Manheim to oversee and track development.

**Table 9.16-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	No permits issued in floodplain.
Do you have a buildable land inventory?	No	
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Manheim and their current responsibilities that contribute to hazard mitigation.

**Table 9.16-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Town Planning Board is responsible for reviewing all applications for re-zoning, site plan reviews, conditional use permits, and all subdivision requests.
Zoning Board of Adjustment	Yes	Town Zoning Board is responsible for maintaining all building codes and regulations and approving,



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		approve with conditions, or denying any special use permits
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Highway Department is responsible for maintaining Town roads, this includes plowing, vegetation management and salting/sanding the roads.
Construction/Building/Code Enforcement Department	Yes	The Town Code Department is responsible for the enforcement of all Town ordinances, zoning laws, and the NYS Fire Prevention. The department also issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	Yes	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	Reverse 911 call from school.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Highway department
Mutual aid agreements	Yes	Emergency staffing agreement with County.
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-

*Technical/Staffing Capability*



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planners or engineers with knowledge of land development and land management practices	Yes	-
Engineers or professionals trained in building or infrastructure construction practices	Yes	-
Planners or engineers with an understanding of natural hazards	Yes	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	Yes	-
Emergency Manager	Yes	Uses County 9-1-1 Emergency Manager
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-
<b>Administrative/technical capability self-assessment</b>		
<i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i>		

### Fiscal Capability

The table below summarizes financial resources available to the Town of Manheim.



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

**Table 9.16-5. Fiscal Capabilities**

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Manheim.

**Table 9.16-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	-
Personnel skilled or trained in website development	Yes	-
Hazard mitigation information available on your website	Yes	-
Social media for hazard mitigation education and outreach	Yes	-



Outreach Resources	Available? (Yes/No)	Comment:
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Town board
Warning systems for hazard events	Yes	Mass notification system for school
Natural disaster/safety programs in place for schools	Yes	The fire stations of Salisbury, Oppenheim, and Dolgeville hold annual open house activities, to which school groups are invited
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events?  If yes, please describe.	Yes	Town website.

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Manheim.

**Table 9.16-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	Yes		
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes		
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No		
Storm Ready Certification	No		
Firewise Communities classification	No		
Other	No	-	-

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes



the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.16-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.16.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Manheim.

**Table 9.16-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Manheim	3	8	\$143,842	0	1	0	Not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Manheim.



**Table 9.16-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Canal Yes
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No None
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	The town relies on state or federal resources to address post disaster substantial damage determinations. The town will look to develop a substantial damage response plan to address future needs.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None. None.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Yes
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	N/A
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Codes and zoning
What are the barriers to running an effective NFIP program in the community, if any?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	N/A



NFIP Topic	Comments
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Zoning and Planning, 1997
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	We do not issue permits
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes Yes
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No Yes

### 9.16.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.16–11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.16-11. Recent and Expected Future Development**

**NOTE; THE TOWN DOES NOT ISSUE PERMITS.**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Multi-Family	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other (commercial, mixed-use, etc.)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Total New Construction Permits Issued</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
N/A	N/A	N/A		N/A		N/A		N/A				



Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
N/A	N/A	N/A	N/A	N/A	N/A

SFHA Special Flood Hazard Area (1% flood event)

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

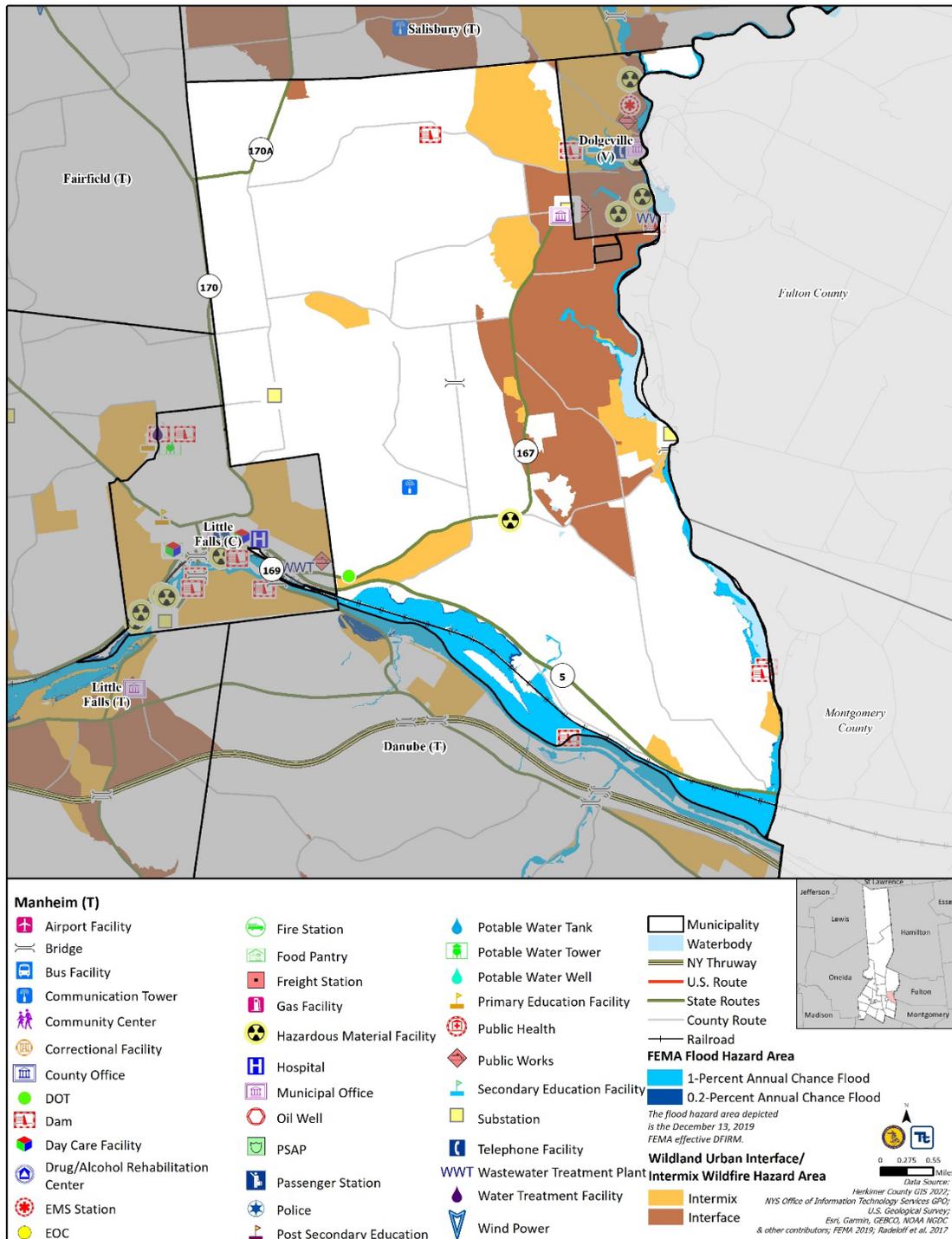
### 9.16.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Manheim’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Manheim has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.16-1. Town of Manheim Hazard Area Extent and Location Map 1





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Manheim’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.16-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.16-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Some minor road washouts.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Some minor road washouts.
January 2020 – ongoing	Covid-19 Pandemic	Yes		???
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Parts of town without power for 24-16 hours. Minor road washouts.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Manheim’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Manheim. The Town of Manheim reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.16-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Medium
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.16-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
None Identified					

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Manheim:

- Beaver Brook Site #1 Dam: Failure of the Beaver Brook Dam is owned by the Town of Manheim would impact the Village of Dolgeville heavily, loss of property and public infrastructure. Beaver Brook only retains water during periods of heavy rain and the impact would only be great if the reservoir is full. Per NYSDEC Dam inventory, no EAP is on file.

**Identified Issues**

After review of the Town of Manheim’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Manheim identified the following vulnerabilities within their community:

- The Town does not have a Comprehensive Plan that addresses and integrates the hazards of concern.
- The Town does not have a developed Substantial Damage Response Plan that addresses the hazards of concern.
- The Town Hall does not currently have backup power to perform continuity of operations.
- The Town does not officially notify residents of incoming hazard events to the same degree that they warn residents about Dam issues.
- The Town is not a Climate Smart Community.
- The Town does not have an official Debris Management Plan in place that addresses current hazards of concern.
- There is a section of the Old River Road along the Erie Canal that experiences increasing erosion and flood issues.



- The Town has one repetitive loss property. The structure was built without flood design standards. This property requires mitigation to prevent future losses and prevent loss of life and property damage. Progress has been made on elevating buildings and reconstructing new buildings that are more resistant to flooding.

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.16.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The following table indicates progress on the community’s mitigation strategy identified in the 2017 HMP. Actions that are in progress are carried forward and combined with new actions as part of this plan update and are included in the tables with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex.



Table 9.16-15. Status of Previous Mitigation Actions

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
MA-001	Saltsman Road Stabilization	Erosion, Flood	Highway Department		No progress	Cost		<ol style="list-style-type: none"> <li>Discontinue</li> <li>N/A</li> <li>Discontinuing because DEC stated that Town cannot work in East Canada Creek which is the cause for flooding. Part of the Road has been abandoned to avoid flood issues.</li> </ol>
						Level of Protection		
						Damages Avoided; Evidence of Success		
MA-002	Remove sediment from East Canada Creek	Erosion, Flood	Highway Department		No Progress	Cost		<ol style="list-style-type: none"> <li>Discontinue</li> <li>N/A</li> <li>DEC stated that Town cannot work in East Canada Creek</li> </ol>
						Level of Protection		
						Damages Avoided; Evidence of Success		
MA-003	Timmerman Road	Erosion, Flood	Highway Department		Completed	Cost		<ol style="list-style-type: none"> <li>Discontinue</li> <li>N/A</li> <li>Project has been completed</li> </ol>
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Level of Protection		
						Damages Avoided; Evidence of Success		



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.16-15, the Town of Manheim identified the following mitigation efforts completed since the last HMP:

- Always stays in good standing with DEC with the Beaver Brook Dam- communication and EAP available regarding approval and condition of the dam.
- Salt Shed for highway department completed.
- Four Solar farms installed in the Town.

Since the adoption of the County’s first HMP, the Town of Manheim has made significant mitigation progress in the following areas:

- Shared agreements with the County and State regarding mutual agreements

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Manheim had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Town’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.16-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X		X	X	X			X	X
Drought	X	X		X	X	X			X	X
Flood	X	X		X	X	X			X	X
Severe Storm	X	X		X	X	X			X	X
Severe Winter Storm	X	X		X	X	X			X	X
Wildfire	X	X		X	X	X			X	X
Infestation	X	X		X	X	X			X	X
Dam Failure	X	X			X	X			X	
Disease Outbreak	X	X		X	X	X			X	X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.16-17).

The table below summarizes the specific mitigation initiatives the Town of Manheim would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.16-17. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Manheim-001	Comprehensive Plan	1, 2	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The Town does not have a Comprehensive Plan that addresses and integrates the hazards of concern.</p> <p><b>Solution:</b> The Town will develop a Comprehensive Plan and will integrate the hazard mitigation plan into the Comprehensive plan so that all hazards of concern are addressed. and the Town will update the plan routinely. It is anticipated that the plan will address the natural</p>	No	No	Less than 3 years	Planning Board	Staff Time	The Town will be better prepared for development relating to the hazards of concern.	HMGP, Town Budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				hazards identified in the hazard mitigation plan including drought, extreme temperatures, flood, severe storm, severe winter storm, wildfire, and dam failure. Including these hazards in the comprehensive plan will enable proactive planning to reduce future impacts related to these hazards.										
2023-Town of Manheim-002	Substantial Damage Response Plan	1, 2	Extreme Temperature, Drought, Flood, Severe Storm,	<b>Problem:</b> The Town does not have a developed Substantial Damage Response Plan that addresses	No	No	Less than 3 years	Town Administration	Staff Time	The Town will be able to make substantial damage determination.	HMGP, Town Budget	High	LP R	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p>the hazards of concern.</p> <p><b>Solution:</b> The Town will develop a Substantial Damage Response Plan that indicates when something is substantially damaged.</p>										
2023-Town of Manheim-003	Backup Generator for Town Hall	1	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The Town Hall does not currently have backup power to perform continuity of operations.</p> <p><b>Solution:</b> The Town will use the information from the generator study conducted to apply for</p>	Yes	No	Less than 5 years	Town Administration	>\$100,000	The Town will be able to perform continuity of operations.	HMGP, BRIC, Town Budget	High	SIP	SP



Section 9.16. Town of Manheim

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Manheim-004	Include Hazard warnings for all hazards using same measures that are used for the Dam	1, 2	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Disease Outbreak	<p><b>Problem:</b> The Town does not officially notify residents of incoming hazard events to the same degree that they warn residents about Dam issues.</p> <p><b>Solution:</b> The Town will use the same measures used for dam notifications to notify residents of other hazard events and will provide information on mitigation.</p>	No	No	Less than 2 years	Town Administration	None	Town residents will be better prepared to respond to and mitigate the hazards of concern.	Town Budget	High	EAP	ES
2023-Town of	Climate Smart Pledge	1, 4	Extreme Temperature,	<b>Problem:</b> The Town is not a Climate	No	No	Less than 5 years	Town Administration	>\$20,000	The Town will be eligible for	Climate Smart, HMGP,	High	LP R	PR



Section 9.16. Town of Manheim

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Manheim-005			Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	Smart Community.  <b>Solution:</b> The Town will work towards completing and planning actions that will allow them to become a Climate Smart Community.						additional funding relating to Climate Change.	Town Budget			
2023-Town of Manheim-006	Develop Official Debris Management Plan	1, 2	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure,	<b>Problem:</b> The Town does not have an official Debris Management Plan in place that addresses current hazards of concern.  <b>Solution:</b> The Town will integrate policies and actions that are already done into an	No	No	Less than 2 years	Town Administration	Staff Time	The Town will be better prepared to address post hazard cleanup events.	HMGP, Town Budget	High	LP R	ES



Section 9.16. Town of Manheim

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				official debris management plan.										
2023-Town of Manheim-007	Old River Road	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> There is a section of the Old River Road along the Erie Canal that experiences increasing erosion and flood issues.</p> <p><b>Solution:</b> The Town will work with the Canal Corporation to develop a plan of action and will implement the most cost-effective solution.</p>	No	No	Less than 5 years	Canal Corporation, Highway Department	>\$200,000	The Town will experience less flooding issues along Old River Road.	HMGP, BRIC, FMA, Town Budget	High	SIP	SP
2023-Town of Manheim-008	Repetitive Loss Mitigation	1	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town has one repetitive loss property. The structure was built without flood design</p>	No	No	Less than 1 Years for Outreach	Floodplain Administrator, Public Works, Engineering, Property Owners	TBD after mitigation measure is identified	Eliminates flood damage to homes and residents, creates open space	HMGP and FMA, BRIC, local cost share by residents	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category	
				<p>standards. This property requires mitigation to prevent future losses and prevent loss of life and property damage. Progress has been made on elevating buildings and reconstructing new buildings that are more resistant to flooding.</p> <p><b>Solution:</b> The Town will conduct outreach to the RL/SRL property owner and provide information on mitigation alternatives. After preferred mitigation</p>							for the municipality increasing flood storage.				



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				measures are identified, collect required property-owner information, and develop a FEMA grant application and BCA to obtain funding to implement										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.



## Section 9.16. Town of Manheim

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

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.16-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Town of Manheim-001	Comprehensive Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-Town of Manheim-002	Substantial Damage Response Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2023-Town of Manheim-003	Backup Generator for Town Hall	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2023-Town of Manheim-004	Include Hazard warnings for all hazards using same measures that are used for the Dam	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2023-Town of Manheim-005	Climate Smart Pledge	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
2023-Town of Manheim-006	Develop Official Debris Management Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
2023-Town of Manheim-007	Old River Road	1	1	0	1	1	1	0	1	1	1	1	1	1	1	12	High
2023-Town of Manheim-008	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.17 VILLAGE OF MIDDLEVILLE

This section presents the jurisdictional annex for the Village of Middleville that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Middleville’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

***The Village of Middleville did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Village may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.17.1 Hazard Mitigation Planning Team

Table 9.17-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Keith G. Jeffers – Mayor</b> Address: Phone Number: <b>(315) 891-7645</b> Email: <a href="mailto:middlevillemayorjeffers@yahoo.com">middlevillemayorjeffers@yahoo.com</a>	Name/Title: <b>Glen Harris – Village Trustee</b> Address: Phone Number: <b>(315) 891-7645</b> Email: <a href="mailto:redrider630@gmail.com">redrider630@gmail.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>Keith G. Jeffers – Mayor</b> Address: Phone Number: <b>(315) 891-7645</b> Email: <a href="mailto:middlevillemayorjeffers@yahoo.com">middlevillemayorjeffers@yahoo.com</a>	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	

### 9.17.2 Municipal Profile

Middleville is a village in Herkimer County, New York, United States. Middleville sits on both sides of West Canada Creek, the boundary of the towns of Newport and Fairfield. The village is about 8.5 miles north of the village of Herkimer and is approximately 17 miles east of Utica.



According to the U.S. Census, the 2020 population for the Village of Middleville was 407, a 25.8 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 13.5 percent of the population is 5 years of age or younger and 26.8 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.17.3 Jurisdictional Capability Assessment and Integration

#### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Middleville. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.17-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>			State and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Zoning/Land Use Code</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>• Does it contain natural overlay zones that set conditions?</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> <li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
<b>Subdivision Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li> <li>• Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li> <li>• Do the regulations allow density transfers where hazard areas exist?</li> </ul>				
<b>Site Plan Ordinance</b>			Local and County	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>			Federal, State, County and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Wellhead Protection</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Change Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

**Planning Documents**



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Comprehensive Plan</b>				

*How has or will this be integrated with the HMP and how does this reduce risk?*

Consider the following:

- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?
- Does the future land use map clearly identify natural hazard areas?
- Do the land use policies discourage development or redevelopment with natural hazard areas?
- Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?

<b>Capital Improvement Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Disaster Debris Management Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Floodplain Management or Watershed Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Stormwater Management Plan</b>	Yes			
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Open Space Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Urban Water Management Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Habitat Conservation Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Economic Development Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Community Wildfire Protection Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Community Forest Management Plan</b>				
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*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Transportation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does the transportation plan limit access to hazard areas?</li> <li>• Is transportation policy used to guide growth to safe locations?</li> <li>• Are transportation systems designed to function under disaster conditions (e.g. evacuation)?</li> </ul>				
<b>Agriculture Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Action/ Resiliency/Sustainability Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Tourism Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other (for example NYRCR, etc.)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?</li> </ul>				
<b>Continuity of Operations Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Post-Disaster Recovery Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Middleville to oversee and track development.

**Table 9.17-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Middleville and their current responsibilities that contribute to hazard mitigation.

**Table 9.17-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board		
Zoning Board of Adjustment		
Planning Department		
Mitigation Planning Committee		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement Department		
Emergency Management/Public Safety Department		
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices		
Engineers or professionals trained in building or infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications		
Environmental scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		
Grant writer(s)		Consider the following: Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer		
Other (this could include stormwater engineer, environmental specialist, etc.)		
<b>Administrative/technical capability self-assessment</b>		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
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*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

## Fiscal Capability

The table below summarizes financial resources available to the Village of Middleville.

**Table 9.17-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Middleville.

**Table 9.17-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		
Hazard mitigation information available on your website		
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		



Outreach Resources	Available? (Yes/No)	Comment:
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Middleville.

**Table 9.17-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community			
Storm Ready Certification			
Firewise Communities classification			
Other			

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.17-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Information not available.
Drought	Information not available.



Hazard	Adaptive Capacity – Strong/Moderate/Weak
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

### 9.17.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Middleville.

Table 9.17-9. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Middleville	5	12	\$377,114	1	4	1	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/202

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Middleville.

Table 9.17-10. NFIP Summary

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	Information not available.



NFIP Topic	Comments
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Information not available.
Are any certified floodplain managers on staff in your jurisdiction?	Information not available.
Do you have access to resources to determine possible future flooding conditions from climate change?	Information not available.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Information not available.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Information not available.
What are the barriers to running an effective NFIP program in the community, if any?	Information not available.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Information not available.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board	Information not available.



NFIP Topic	Comments
consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.17.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.17-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.17-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA										
Single Family	Information not available.											
Multi-Family	Information not available.											
Other (commercial, mixed-use, etc.)	Information not available.											
<b>Total New Construction Permits Issued</b>	Information not available.											
<b>Property or Development</b>	Information not available.											



Development Name					
<b>Recent Major Development and Infrastructure from 2017 to Present</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.

SFHA Special Flood Hazard Area (1% flood event)

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

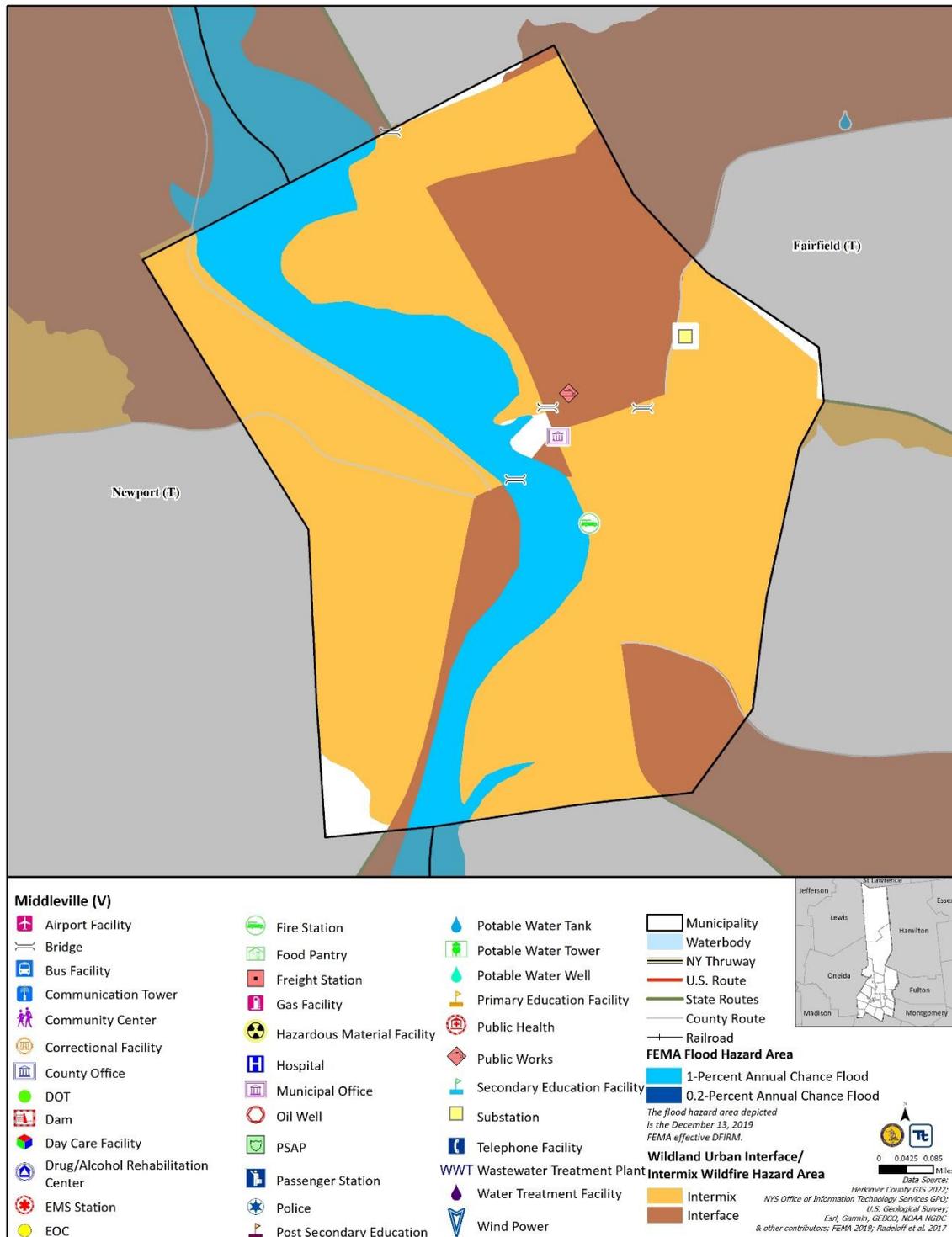
### 9.17.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Middleville’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Middleville has significant exposure are provided.



Figure 9.17-1. Village of Middleville Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Middleville’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.17-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.17-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM      Emergency Declaration (FEMA)
- FEMA    Federal Emergency Management Agency
- DR      Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Middleville’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Middleville. The Village of Middleville reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.17-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.17-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
NY Route 28 (aka Bridge Street) bridge over West Canada Creek	Bridge	X	X	-	-

Source: Herkimer County 2023

There are no high hazard dams are located in the Village of Middleville.

### Identified Issues

After review of the Village of Middleville’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Middleville identified the following vulnerabilities within their community:

- None Identified.

### 9.17.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Village of Middleville did not participate in the 2017 HMP.

#### Additional Mitigation Efforts

The Village of Middleville identified the following mitigation efforts completed since 2017:

- None identified.



## Proposed Hazard Mitigation Initiatives for the HMP Update

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.17-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.17-16).

The table below summarizes the specific mitigation initiatives the Village of Middleville would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



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Table 9.17-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR)—Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.



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**Property Protection (PP)**—These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.

- **Public Information (PI)**—Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- **Natural Resource Protection (NR)**—Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- **Structural Flood Control Projects (SP)**—Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- **Emergency Services (ES)**—Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.



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The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.17-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.																	

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.18 VILLAGE OF MOHAWK

This section presents the jurisdictional annex for the Village of Mohawk that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Mohawk’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.18.1 Hazard Mitigation Planning Team

*The Village of Mohawk did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Village may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.*

Table 9.18-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>James M. Baron – Mayor</b> Address: Phone Number: <b>(315) 725-7994</b> Email: <a href="mailto:mohawkmayor@gmail.com">mohawkmayor@gmail.com</a>	Name/Title: <b>Mike Shedd – Superintendent of Public Works</b> Address: Phone Number: <b>(315) 717-8497</b> Email: <a href="mailto:mohawkmuni@hotmail.com">mohawkmuni@hotmail.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>Robert Phillips – Code Enforcement Officer</b> Address: Phone Number: <b>(315) 985-0080</b> Email: <a href="mailto:rdp25655@gmail.com">rdp25655@gmail.com</a>	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	

### 9.18.2 Municipal Profile

Mohawk is located on the south shore of the Mohawk River and, likewise, the Erie Canal. Located within the Town of German Flatts, the Village of Ilion is its western border. Mohawk lies 13 miles east of Utica and 75 miles west of Albany. Its position on the river and the canal fostered early growth in



population, the economy, and outdoor activities. The location offers access to major transportation corridors such as Interstate 90 and New York State Routes 5S, 28 and 168. George Washington was a frequent visitor during his military travels between eastern New York and Rome, NY-based Fort Stanwix, which was burned in 1781.

According to the U.S. Census, the 2020 population for the Village of Mohawk was XXXX, a X.X percent increase from the 2010 Census. Data from the 2020 U.S. Census indicate that X.X percent of the population is 5 years of age or younger and X.X percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.18.3 Jurisdictional Capability Assessment and Integration

#### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Mohawk. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.18-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>			State and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Zoning/Land Use Code</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>• Does it contain natural overlay zones that set conditions?</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> <li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
<b>Subdivision Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li> <li>• Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li> <li>• Do the regulations allow density transfers where hazard areas exist?</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Site Plan Ordinance</b>			Local and County	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>			Federal, State, County and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Wellhead Protection</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Change Ordinance</b>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Consider the following:				
<ul style="list-style-type: none"> <li>Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?</li> <li>Does the future land use map clearly identify natural hazard areas?</li> <li>Do the land use policies discourage development or redevelopment with natural hazard areas?</li> <li>Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?</li> </ul>				
<b>Capital Improvement Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Disaster Debris Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Floodplain Management or Watershed Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Open Space Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Urban Water Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Habitat Conservation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Economic Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Wildfire Protection Plan</b>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
--	---------------------------------	--	---	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Community Forest Management Plan</b>				
---	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Transportation Plan</b>				
----------------------------	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

Consider the following:

- Does the transportation plan limit access to hazard areas?
- Is transportation policy used to guide growth to safe locations?
- Are transportation systems designed to function under disaster conditions (e.g. evacuation)?

<b>Agriculture Plan</b>				
-------------------------	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Climate Action/ Resiliency/Sustainability Plan</b>				
---	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Tourism Plan</b>				
---------------------	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Business/ Downtown Development Plan</b>				
--	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Other (for example NYRCR, etc.)</b>				
--	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

**Response/Recovery Planning**

<b>Comprehensive Emergency Management Plan</b>				
--	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

Consider the following:

- Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?

<b>Continuity of Operations Plan</b>				
--------------------------------------	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Substantial Damage Response Plan</b>				
---	--	--	--	--

*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Mohawk to oversee and track development.

**Table 9.18-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Mohawk and their current responsibilities that contribute to hazard mitigation.



**Table 9.18-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board		
Zoning Board of Adjustment		
Planning Department		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement Department		
Emergency Management/Public Safety Department		
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices		
Engineers or professionals trained in building or infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi- Hazards (MH) applications		
Environmental scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Grant writer(s)		<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer		
Other (this could include stormwater engineer, environmental specialist, etc.)		

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

### Fiscal Capability

The table below summarizes financial resources available to the Village of Mohawk.

**Table 9.18-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Mohawk.

**Table 9.18-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		



Outreach Resources	Available? (Yes/No)	Comment:
Hazard mitigation information available on your website		
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Mohawk.

**Table 9.18-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community			
Storm Ready Certification			
Firewise Communities classification			
Other			

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.



- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.18-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

### 9.18.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Mohawk.

**Table 9.18-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Mohawk	11	34	\$865,284	1	5	1	Data Not available

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Mohawk.

**Table 9.18-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction.	Information not available.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	
<p>Do you maintain a list of property owners interested in flood mitigation?</p> <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	Information not available.
<p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
<p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
<p>What local department is responsible for floodplain management?</p>	Information not available.
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	Information not available.
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	Information not available.
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
<p>Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)</p>	Information not available.
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	Information not available.
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	Information not available.
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
<p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p>	Information not available.
<p>What is the local law number or municipal code of your flood damage prevention ordinance?</p> <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.



NFIP Topic	Comments
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Information not available.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.18.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.18-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.18-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Multi-Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				

SFHA Special Flood Hazard Area (1% flood event)

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



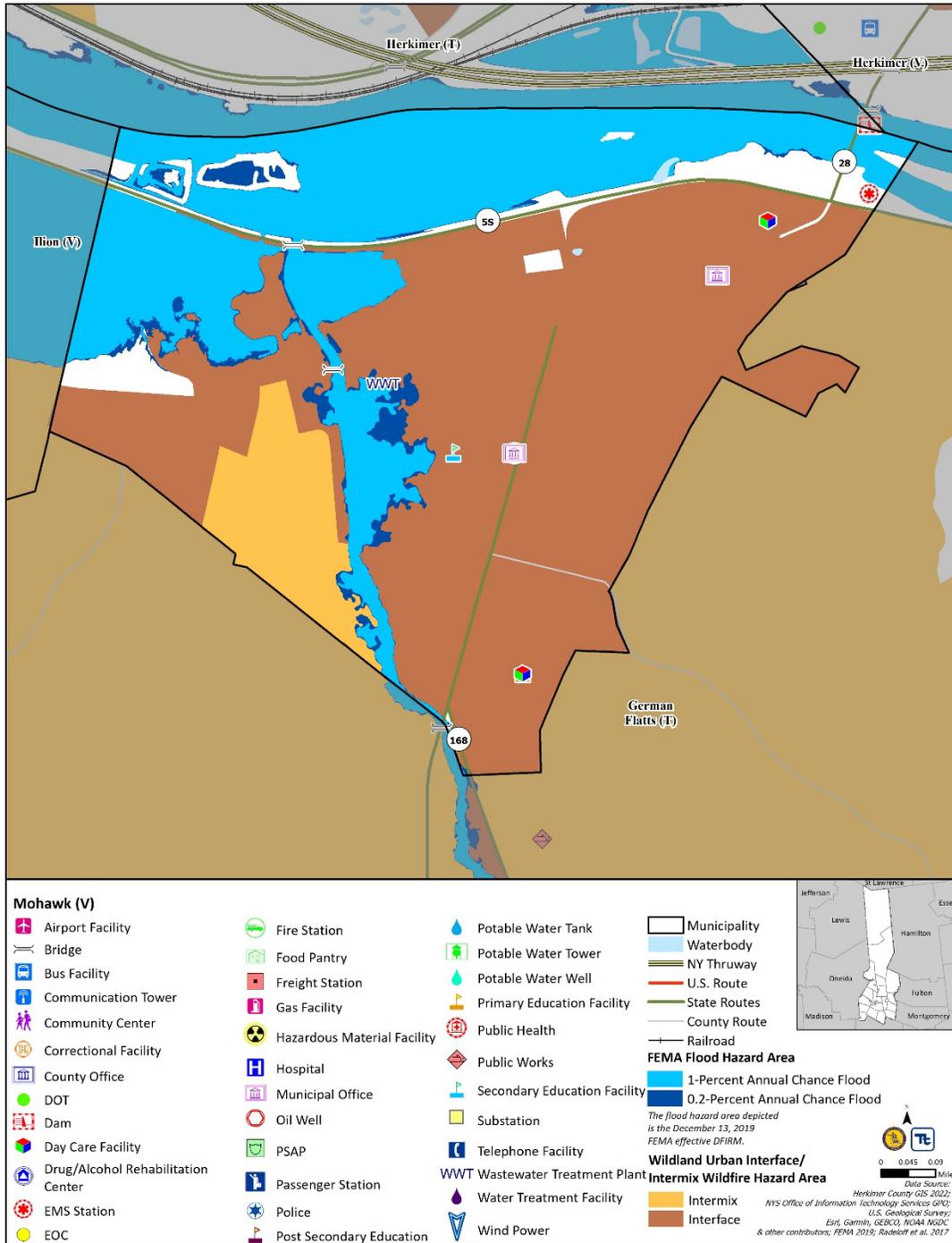
### 9.18.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Mohawk's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Mohawk has significant exposure are provided.



Figure 9.18-1. Village of Mohawk Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Mohawk’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.18-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.18-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Mohawk’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Mohawk. The Village of Mohawk reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.18-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.18-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
HERKIMER CO SD WWTF	Wastewater Treatment Plant	X	X	-	-
NY Route 28 bridge over Moyer Creek (just south of Mohawk)	Bridge	X	X	-	-
NY Route 5s bridge over Fulmer Creek	Bridge	X	X	-	-
West Main Street bridge over Fulmer Creek	Bridge	X	X	-	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Village of Mohawk:

- none

### Identified Issues

After review of the Village of Mohawk’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Mohawk identified the following vulnerabilities within their community:

- None identified.

## 9.18.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

Information regarding progress on the community’s mitigation strategy identified in the 2017 HMP is not available. The table below is provided for future use.



**Table 9.18-15. Status of Previous Mitigation Actions**

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost		
MO-001	Bridges (Route 28, W Main and Route 5s)					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
MO-002	Brookside Floodplain Bench					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
MO-003	Minnow Brook Restoration					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
MO-004	Minnow Brook Culvert Replacement					Cost		
						Level of Protection		
						Damages Avoided; Evidence of Success		
MO-005	Storm Sewer Systems Upgrade					Cost		
						Level of Protection		
						Damages Avoided;		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
MO-006	Storm Sewer System GIS Enhancement					Evidence of Success		
						Cost		
						Level of Protection		
MO-007	7 Floodproof Street Department Building					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-008	Assessment of Tree Trimming Needs for Electric Utility					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-009	Susceptibility Analysis – Roads, Streams and Drainage					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-010	Floodproof Electric Sub-Station					Damages Avoided;		
						Cost		
						Level of Protection		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Damages Avoided; Evidence of Success	
MO-011	Electric Switching Enhancements					Evidence of Success		
						Cost		
						Level of Protection		
MO-012	Susceptibility Analysis and Implementation - Utility Poles and Distribution System					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-013	LED Street Lighting					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-014	Brookside Waterline Crossing					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		
MO-015	Waterline Reinforcements					Damages Avoided;		
						Cost		
						Level of Protection		



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in the 2023 HMP or Discontinue 2. If including action in the 2023 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Evidence of Success	Cost	
MO-016	Sewer System Bypass					Evidence of Success		
						Cost		
						Level of Protection		
MO-017	Sewer System - Flooding Retrofits					Damages Avoided; Evidence of Success		
						Cost		
						Level of Protection		



### Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.18-15, the Village of Mohawk identified the following mitigation efforts completed since the last HMP:

- None identified.

Since the adoption of the County’s first HMP, the Village of Mohawk has made significant mitigation progress in the following areas:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.18-16. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not									



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
	available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.18-17).

The table below summarizes the specific mitigation initiatives the Village of Mohawk would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



**Table 9.18-17. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

**Acronyms and Abbreviations:**

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

**Potential FEMA HMA Funding Sources:**

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

**Timeline:**

The time required for completion of the project upon implementation.

**Cost:**

The estimated cost for implementation.

**Benefits:**

A description of the estimated benefits, either quantitative and/or qualitative.

**Critical Facility:**

Yes Critical Facility located in 1% floodplain

**Mitigation Category:**

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



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### CRS Category:

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



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The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.18-18. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.	Information not available.	Information not available	Information not available.	Information not available	Information not available	Information not available	Information not available.	Information not available.	Information not available	Information not available	Information not available	Information not available.					

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.19 TOWN OF NEWPORT

This section presents the jurisdictional annex for the Town of Newport that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Newport’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Newport did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.19.1 Hazard Mitigation Planning Team

Should the Town of Newport choose to participate in the plan, they will identify the hazard mitigation plan (HMP) primary and alternate points of contact and will develop the plan over the course of several months with input from many Town departments, including the Town Supervisor’s office and the highway department. All departments should contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table will summarize municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.19-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Address: Phone Number: Email:	Name/Title: Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	



## 9.19.2 Municipal Profile

The Town of Newport is located 13 miles north of Herkimer and 95 miles northwest of Albany, bounded to the north by the Towns of Russia, to the east by Fairfield and Norway, to the South by Herkimer and Schuyler, and to the west by Oneida County. The Township was settled in 1791 by Christopher Hawkins of Rhode Island on land purchased in July 1786 by Daniel Campbell of New York City and William, Ephraim and Benjamin Bowen in 1788 and 1789. It was formed on April 7, 1806, from parts of Herkimer, Fairfield, Norway, and Schuyler. At the first Town meeting, held on March 3, 1807, Christopher Hawkins was elected Supervisor.

According to the U.S. Census, the 2020 population for the Town of Newport was 1,321, which is less than a 2 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 15.7 percent of the population is 5 years of age or younger and 2.2 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

## 9.19.3 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Newport. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.19-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York State Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer

*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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The Town of Newport has adopted the New York State Uniform Fire Prevention and Building Codes. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.

<b>Zoning/Land Use Code</b>			Local	Code Enforcement Officer
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Specifies the allowable uses of land within each district, the regulations pertaining to the development and use of the land, and buildings are uniform for each class or kind of building.  
 Zoning keeps inappropriate development away from hazard-prone areas and designates areas for conservation, public use, or agriculture. Communities can designate areas as "open space" to reduce the effect of flooding by allowing spaces for water to flow unimpeded.

Consider the following:

- Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use? No, but structures are not permitted to be built in the floodplain.
- Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains? Yes.
- Does it contain natural overlay zones that set conditions? No.
- Does the ordinance require developers to take additional actions to mitigate natural hazard risk? Yes.
- Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use? No.

<b>Subdivision Ordinance</b>			Local	
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*How has or will this be integrated with the HMP and how does this reduce risk?*  
 Manage growth and development in accordance with plans, policies, and resolutions of the Town. Provide for the preservation of natural resources, sensitive natural areas, and natural features. Provide safety from fire, flood, and other danger. Subdivision ordinances set construction and location standards for subdivision layout and infrastructure and contain standards for such things as stormwater management, erosion control, and subdivision size. Localized flooding is often a result of building residential or commercial developments without adequate stormwater drainage. These regulations have the potential to reduce the impact of localized flooding on a community.

Consider the following:

- Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas? Yes
- Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources? Yes.
- Do the regulations allow density transfers where hazard areas exist? No, has not been discussed.

<b>Site Plan Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Stormwater Management Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>	Yes		Federal, State, County and Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Regulations designed to promote the public health, safety, and general welfare and to minimize public and private loss due to flooding.				
<b>Wellhead Protection</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Climate Change Ordinance</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Other</b>	-	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	Yes		Local	

Consider the following:

- Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards? Yes.
- Does the future land use map clearly identify natural hazard areas? No.
- Do the land use policies discourage development or redevelopment with natural hazard areas? Yes.
- Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas? Yes.

<b>Capital Improvement Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Capital improvement plans identify where major public expenditures will be made over the next five to ten years. They can secure hazard-prone areas for low-risk uses; strengthen, replace, or realign roads and utilities; and prescribe standards for the design and construction of new facilities. In addition, they can reduce the level of public funding spent on construction in hazard-prone areas.

<b>Disaster Debris Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Stormwater Management Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

<b>Open Space Plan</b>	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Urban Water Management Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Habitat Conservation Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Economic Development Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Wildfire Protection Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Forest Management Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Transportation Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Agriculture Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Action/ Resiliency/Sustainability Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Tourism Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other (for example NYRCR, etc.)</b>	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Continuity of Operations Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Newport to oversee and track development.

**Table 9.19-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		



Indicate if your jurisdiction implements the following	Yes/No	Comment:
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>		
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>		
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>		
Describe the level of build-out in your jurisdiction.		

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Newport and their current responsibilities that contribute to hazard mitigation.

**Table 9.19-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planning Board	Yes	
Zoning Board of Adjustment	Yes	
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	
Construction/Building/Code Enforcement Department	Yes	
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	
Mutual aid agreements	Yes	
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	Consider the following: Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Newport’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Newport.

**Table 9.19-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	-
Capital improvements project funding	-
Authority to levy taxes for specific purposes	-
User fees for water, sewer, gas, or electric service	-
Impact fees for homebuyers or developers of new development/homes	-
Stormwater utility fee	-



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Incur debt through general obligation bonds	-
Incur debt through special tax bonds	-
Incur debt through private activity bonds	-
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Newport.

**Table 9.19-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Newport.

**Table 9.19-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:  
 N/A Not applicable  
 - Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.19-8. Adaptive Capacity**

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Extreme Temperature	-
Drought	-
Flood	-
Severe Storm	-
Severe Winter Storm	-
Wildfire	-
Infestation	-
Dam Failure	-
Disease Outbreak	-

The Town of Newport indicated that the adaptive capacity for the Flood hazard should be ‘Moderate’ instead of ‘Strong’. While there are good portions of the Town which are in the SFHA, there have not been many events which needed a response. The resources available would assist in a response, but external assistance may be needed.

The Town of Newport indicated that the adaptive capacity for the Severe Winter Storm hazard should be ‘Strong’ instead of ‘Moderate’. The Highway Department is well equipped, familiar with the hazard, and can identify where the most assistance will be needed.



The Town of Newport indicated that the adaptive capacity for the Wildfire hazard should be ‘Moderate’ instead of ‘Strong’. While there are forested areas of the Town, these areas are State forest and would warrant a State response, not Town. Additionally, the Town, although it has its own fire department, may rely on external assistance for several fire-related occurrences.

### 9.19.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Newport.

**Table 9.19-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Newport	2	2	\$10,372	Data not available	Data not available	Data not available	Data not available

Source: FEMA, accessed 4/21/23

Notes:

Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Newport.

**Table 9.19-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	-
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	-
Are any RiskMAP projects currently underway in your jurisdiction?	-



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	-
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	-
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	-
What local department is responsible for floodplain management?	-
Are any certified floodplain managers on staff in your jurisdiction?	-
Do you have access to resources to determine possible future flooding conditions from climate change?	-
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	-
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	-
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	-
What are the barriers to running an effective NFIP program in the community, if any?	-
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	-
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	-
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	-
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	-
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board	-



NFIP Topic	Comments
consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	-

### 9.19.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.19-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.19-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total New Construction Permits Issued</b>	-	-	-	-	-	-	-	-	-	-	-	-
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None identified.												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.19.6 Jurisdictional Risk Assessment

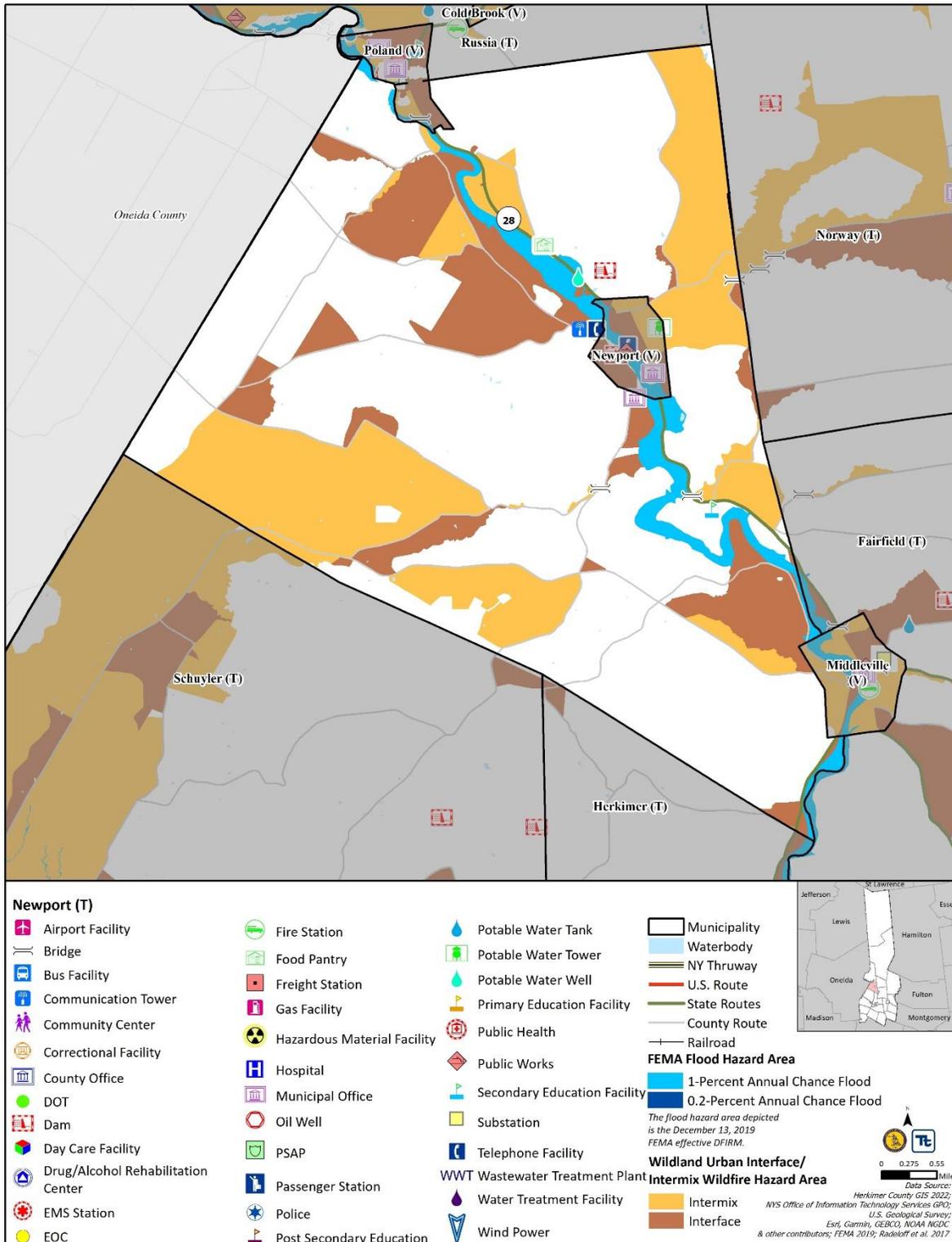
The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Newport’s risk assessment results and data used to determine the hazard ranking discussed later in this section.



Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Newport has significant exposure are provided.



Figure 9.19-1. Town of Newport Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Newport’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.19-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.19-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	-
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	-
Winter 2019–2020	Numerous Ice Events	No	Almost weekly ice events throughout the winter	-
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	-
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	-

Notes:



- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Newport’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Newport. The Town of Newport reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- None identified.

**Table 9.19-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	-
Drought	-
Flood	-
Severe Storm	-
Severe Winter Storm	-
Wildfire	-
Infestation	-
Dam Failure	-
Disease Outbreak	-

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.19-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		

Source: Herkimer County, 2023

### Identified Issues

After review of the Town of Newport’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Newport identified the following vulnerabilities within their community:

- None identified.

### 9.19.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Town of Newport did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.



### Additional Mitigation Efforts

The Town of Newport identified the following mitigation efforts completed since 2017:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Newport participated in a mitigation action workshop in April 2023 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.19-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	-	-	-	-	-	-	-	-	-	-
Drought	-	-	-	-	-	-	-	-	-	-
Flood	-	-	-	-	-	-	-	-	-	-
Severe Storm	-	-	-	-	-	-	-	-	-	-
Severe Winter Storm	-	-	-	-	-	-	-	-	-	-
Wildfire	-	-	-	-	-	-	-	-	-	-
Infestation	-	-	-	-	-	-	-	-	-	-
Dam Failure	-	-	-	-	-	-	-	-	-	-
Disease Outbreak	-	-	-	-	-	-	-	-	-	-

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.19-16).

The table below summarizes the specific mitigation initiatives the Town of Newport would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.19-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program
- EMPG Emergency Management Performance Grant

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes  Critical Facility located in 1% floodplain



*Mitigation Category:*

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

*CRS Category:*

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.19-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14)



# SECTION 9.

## 9.20 VILLAGE OF NEWPORT

This section presents the jurisdictional annex for the Village of Newport that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Newport’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.20.1 Hazard Mitigation Planning Team

The Village of Newport identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including the Village Board. The Mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process), and Appendix C (Meeting Documentation).

**Table 9.20-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Marc Butler – Mayor Address: PO Box 534, Newport, NY 13416 Phone Number: 315-845-6224 Email: Mayor_butler@villageofnewport.org	Name/Title: Thomas Roberts – Trustee Address: PO Box 534, Newport, NY 13416 Phone Number: 315-845-8543 Email: trustee_roberts@villageofnewportny.org
<b>NFIP Floodplain Administrator</b>	
Name/Title: George Farley Address: PO Box 534, Newport, NY 13416 Phone Number: 315-736-0987 Email: codes_zoning@villageofnewportny.org	



## 9.20.2 Municipal Profile

The Village of Newport straddles the West Canada Creek, which outlets Hinckley Reservoir to the north and empties into the Mohawk River. Incorporated in 1857, Village of Newport offers a variety of public and private attractions. The village rest on the foothills of the Adirondacks and the beautiful shore of the West Canada Creek. It is located between the Village of Poland and the Village of Middleville approximately 12 miles from Herkimer on Rt.28 and 16 miles from Utica.

The historic downtown is home to numerous shops, restaurants, pizza, fresh produce and eggs, bank, post office, various other business and golf can be enjoyed just a mile away.

According to the U.S. Census, the 2020 population for the Village of Newport was 543, a 17.9 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 4.8 percent of the population is 5 years of age or younger and 24.3 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 9.08% of the population does not have a high school diploma
- 11.74% of the population has a disability
- 8.09% of households do not have a vehicle
- 11.29% of the population is living below the poverty level
- 5.55% of the population is unemployed

## 9.20.3 Jurisdictional Capability Assessment and Integration

The Village of Newport performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.



For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Newport to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Newport. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.20-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Village of Newport has adopted the New York State Uniform Fire Prevention and Building Codes. The Village code enforcement officer Issues building permits, periodic inspections on job site and furnishes the prescribed certificates of occupancy or certificate of compliance upon completion. Explains the requirements of the local building code, local zoning ordinances and the New York State Uniform Fire Prevention and Building Code law and other applicable laws to building contractors and to the general public; Provides for removal of illegal or unsafe conditions and secures the necessary safeguards during construction; Orders unsafe conditions in existing structures to be removed and arranges for condemnation notices to owners and builders of improper or hazardous structures; Inspects existing buildings and structures to insure their conformity with safety standards and elimination of fire hazards				
Zoning/Land Use Code	Yes	2016 - Local Law 1 - Updated Zoning Ordinance	Local	Zoning Enforcement Officer
The Village has a zoning enforcement officer. Duties include (1) Day to day administrator of zoning law (2) Initial contact person for all actions (3) Inspects projects to ensure that all zoning provisions are being complied with (4) Issues the following permits and notices:(1) zoning permit (2) certificate of zoning compliance (3) notice to remedy violation.				
Subdivision Ordinance	No	-	-	-
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	1991-Local Law #1- A local law for flood damage prevention	Local	Zoning Enforcement Officer
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	-	-	-	-
<i>does this reduce risk?</i>				
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Newport to oversee and track development.

**Table 9.20-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	-
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	-	Zoning Enforcement Officer
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Newport and their current responsibilities that contribute to hazard mitigation.

**Table 9.20-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Planning Board is responsible for reviewing all applications for re-zoning, site plan reviews, conditional use permits, and all subdivision requests. 5 members sit on the Board.



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Zoning Board of Adjustment	Yes	The zoning board of appeals has final decision-making authority, the legislative body may not review the grant or denial of variances, special use permits, or any other decisions; the statutes provide for review of ZBA decisions by state courts in Article 78 proceedings.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	1 Part-time DPW employee
Construction/Building/Code Enforcement Department	Yes	Code Enforcement Officer Issues building permits, periodic inspections on job site and furnishes the prescribed certificates of occupancy or certificate of compliance upon completion. Explains the requirements of the local building code, local zoning ordinances and the New York State Uniform Fire Prevention and Building Code law and other applicable laws to building contractors and to the general public.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	Sirens from the Fire Department
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-
<b>Administrative/technical capability self-assessment</b>		
<p><i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i></p> <p>The Village of Newport’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.</p>		



## Fiscal Capability

The table below summarizes financial resources available to the Village of Newport.

**Table 9.20-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Newport.

**Table 9.20-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	Fire Department sirens
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-



## Community Classifications

The table below summarizes classifications for community programs available to the Village of Newport.

**Table 9.20-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	-	-	-

Note:

N/A Not applicable  
 - Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.20-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate



## 9.20.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Newport.

**Table 9.20-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of Newport	6	11	\$126,599	2	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes:

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Newport.

**Table 9.20-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Areas along West Canada Creek, streets running West to East.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	None
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Engineers and consultants
How many properties have been mitigated (elevation or acquisition) in your jurisdiction?	None



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Department
Are any certified floodplain managers on staff in your jurisdiction?	Codes Enforcement Officer is the Floodplain Manager
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Substantial Damage Determination training.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Professional experience.
What are the barriers to running an effective NFIP program in the community, if any?	Staffing resources, additional training.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Unknown.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	4/23/2021
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	1991-Local Law #1- A local law for flood damage prevention
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meet
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	2016 - Local Law 1 - Updated Zoning Ordinance
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No



## 9.20.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.20-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.20-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total New Construction Permits Issued</b>	-	-	-	-	-	-	-	-	-	-	-	-
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None at this time.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None at this time.												

SFHA Special Flood Hazard Area (1% flood event)

\* Only location-specific hazard zones or vulnerabilities identified. Permit information not available.

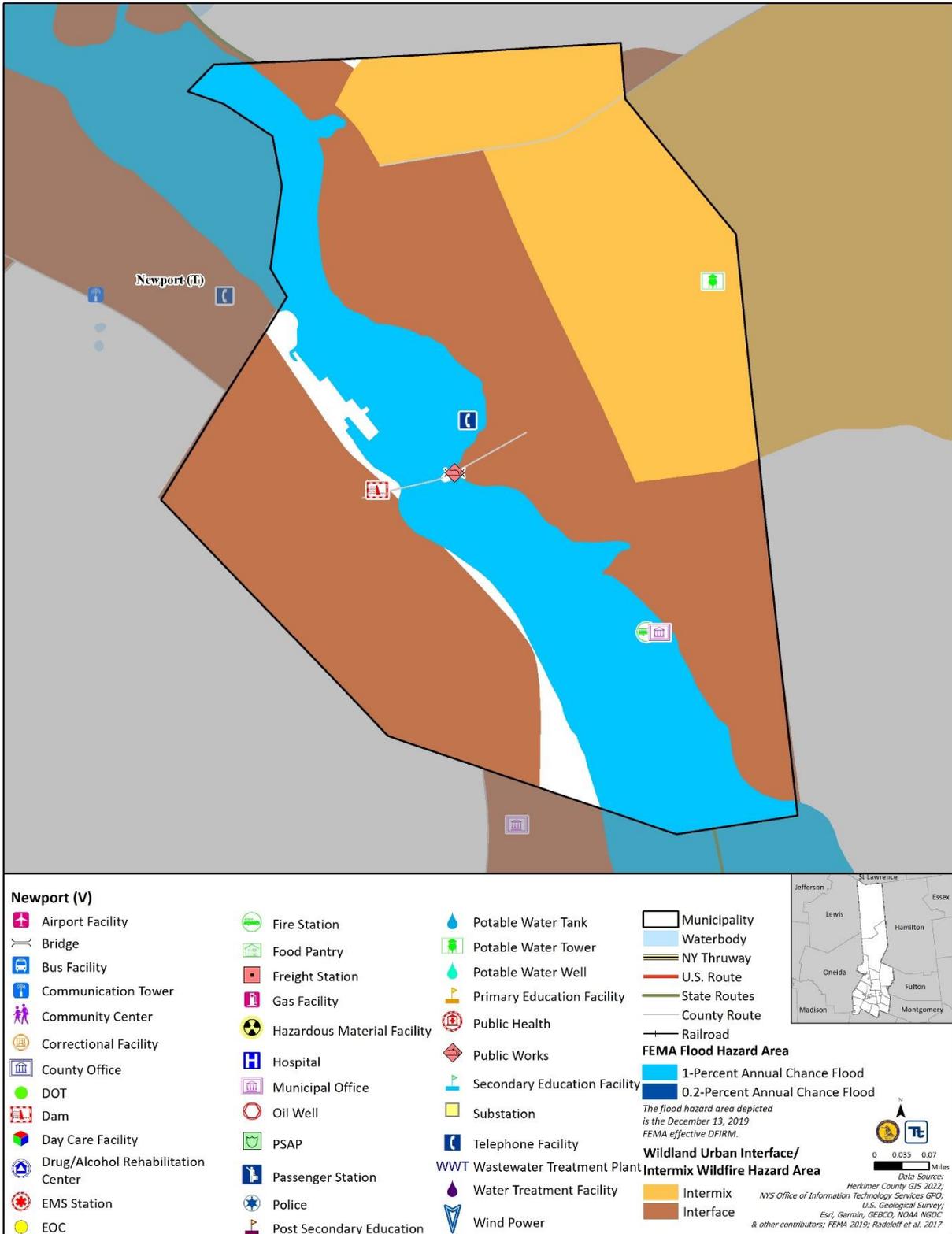
## 9.20.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Newport’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Newport has significant exposure are provided.



Figure 9.20-1. Village of Newport Hazard Area Extent and Location Map





### Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Newport’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.20-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.20-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	No local damages documented.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Flooding occurred across the Village. The West Canada Creek is flood prone.
January 2020 – ongoing	Covid-19 Pandemic	Yes		No local damages documented.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	No local damages documented.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Newport’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Newport. The Village of Newport reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- The Village agreed that the calculated rankings accurately reflected the risk posed to the community.

**Table 9.20-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Low

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.20-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Newport Fire Department Fire Station	Fire Station	Y	Y	2023-Newport V-004	Unknown
Newport Telephone Company Facility	Telephone Facility	Y	Y	2023-Newport V-004	Unknown

Source: Herkimer County 2023

### Identified Issues

After review of the Village of Newport’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Newport identified the following vulnerabilities within their community:

- Flooding occurs across the Village.
- The West Canada Creek is flood prone.

### 9.20.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Village of Newport did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability



Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Additional Mitigation Efforts

The Village of Newport did not identify the following mitigation efforts completed since the last HMP. However, the Village provides inspection and preventative services as needed.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Newport had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Village’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.20-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature				X			X			
Drought				X			X			
Flood	X	X			X	X	X			
Severe Storm	X				X					
Severe Winter Storm	X				X					
Wildfire	X				X					
Infestation				X			X			
Dam Failure	X				X					
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.20-16).

The table below summarizes the specific mitigation initiatives the Village of Newport would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.20-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-NewPort V-001	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	No	No	1 year	Floodplain Administrator, Highway Department	Low	Medium	HMGP, FMA	Medium	LPR	PI, PP
2023-Newport V-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division</p>	No	No	5 years	Floodplain Administrator, Highway Department	Medium	Medium	HMGP	Medium	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				to write Substantial Damage Response Plan.										
2023–Newport V–003	Repetitive Loss Property Outreach	1,2	Flood	<p><b>Problem:</b> The Village has two repetitive loss properties. The properties may need mitigation to prevent future losses and prevent loss of life and property damage. Progress has been made on elevating buildings and reconstructing new buildings that are more resistant to flooding.</p> <p><b>Solution:</b> The Village will conduct outreach to the RL/SRL property owner and provide</p>	No	No	Less than 1 Years for Outreach	Floodplain Administrator, Public Works, Engineering, Property Owners	TBD after mitigation measure is identified	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	HMGP and FMA, BRIC, local cost share by residents	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				information on mitigation alternatives. After preferred mitigation measures are identified, collect required <b>property-owner</b> information, and develop a FEMA grant application and BCA to obtain funding to implement.										
2023-Newport V-004	Critical Facility Inventory and Outreach	1,2	Flood	<b>Problem:</b> The Newport Fire Department Fire Station and the Newport Telephone Company Facility are located within the regulatory floodplain. It is undetermined if these facilities are designed to the 0.2%	Yes ●	No	Short	Dept of Emergency Services with support from Department of Public Works	Low	Increased critical facility resilience, reduction of interruption of services	Operating Budget	High	LPR	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				chance flood event. <b>Solution:</b> Develop an outreach letter to explain the potential risks of flooding and to advise how to determine if the facility is designed at or above the 0.2% flood elevation.										
2023-Newport V-005	Public Hazards Outreach and Education		Infestation, Extreme Temperature, Drought, Disease Outbreak	<b>Problem:</b> Residents may not be aware how to respond, prepare, and protect themselves and their property from hazards. <b>Solution:</b> The Village will utilize social media, newsletters, and brochures to inform the public of hazards within	No	No	3 years	Village Council, Herkimer County OEM, NYOEM	Low	High	BRIC, Local Funds	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				the Village how to prepare for, respond to, and mitigate damages to their properties. The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Village will provide educational materials on the town website on hazard risk reduction for										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:



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

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.20-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-NewPortV-001	Increase NFIP Capabilities	1	1	1	1	0	0	0	0	1	1	0	1	0	0	7	Medium
2023-NewportV-002	Develop Substantial Damage Response Plan	1	1	1	1	0	0	0	0	1	1	1	1	0	0	8	Medium
2023-NewportV-003	Repetitive Loss Property Outreach	1	1	1	1	0	0	0	0	1	1	0	1	1	1	9	High
2023-NewportV-004	Critical Facility Inventory and Outreach	1	1	1	1	0	0	0	0	1	1	0	1	1	1	9	High
2023-NewportV-005	Public Hazards Outreach and Education	1	1	1	1	0	0	0	0	1	1	1	1	0	0	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.21

## 9.21 TOWN OF NORWAY

This section presents the jurisdictional annex for the Town of Norway that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Norway’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.21.1 Hazard Mitigation Planning Team

The Town of Norway identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Town Council. Councilman Snyder represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.21-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Gary Snyder – Town Councilman Address: 3013 Military Rd, Newport, NY 13416 Phone Number: 315-868-9515 Email: gsnyde019@aol.com	Name/Title: Judith Gokey – Town Supervisor Address: 436 Hurricane Rd, Cold Brook, NY 13324 Phone Number: 315-826-7549 Email: judygokey@ntcnet.com
<b>NFIP Floodplain Administrator</b>	
Name/Title: Howard Eaton - Highway Superintendent Address: Elm Tree Road Newport, NY 13416 Phone Number: 315-717-7775 Email: Norwayhighway@ntcnet.com	



## 9.21.2 Municipal Profile

The town was permanently settled around 1787 after an abandoned effort in 1786. Norway was formed in 1792 immediately after the creation of Herkimer County. Norway was originally a very large town, and it was subsequently broken up, directly or indirectly, into about thirty-six new towns in several counties. In Herkimer County, the Towns of Fairfield (1796), Russia (1806), Ohio (1823), Wilmurt (now defunct), and Webb (1836) were made by dividing Norway. Part of Newport was taken from Norway in 1806. The creation of Oneida County, Lewis County, Clinton County, Hamilton County, and St. Lawrence County from Herkimer County accounts for the remaining towns derived from Norway.

The Town of Norway has various brooks flowing through the jurisdiction, including the Factory, Big Bill, and Hurricane Brooks, which are all tributaries of the West Canada Creek.

According to the U.S. Census, the 2020 population for the Town of Norway was 740 a 3.0 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 2.7 percent of the population is 5 years of age or younger and 14.6 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 9.08% of the population does not have a high school diploma
- 11.74% of the population has a disability
- 8.09% of households do not have a vehicle
- 11.29% of the population is living below the poverty level
- 5.55% of the population is unemployed

## 9.21.3 Jurisdictional Capability Assessment and Integration

The Town of Norway performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.



- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Norway to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Norway. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.21-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Norway has adopted the New York State Uniform Fire Prevention and Building Codes.				
<b>Zoning/Land Use Code</b>	Yes	-	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town Comprehensive Plan discusses the Town zoning and land use codes.				
<b>Subdivision Ordinance</b>	No	-	-	-
<b>Site Plan Ordinance</b>	No	-	-	-
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	The ordinance has been requested from the NYDEC.	local	-
<b>Wellhead Protection</b>	No	-	-	-
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	No	-	-	-
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	Yes	Comprehensive Plan – 2018	Local	Town Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town Comprehensive Plan is intended to summarize and record the natural and historic assets of the Town of Norway and document its essentially rural residential and agricultural character; provide guidelines for the preservation of the Town’s assets in a manner compatible with orderly economic growth; and provide a basis for creating a detailed Land Use Ordinance to guide the future development of the town.				
<b>Capital Improvement Plan</b>	No	-	-	-
<b>Disaster Debris Management Plan</b>	No	-	-	-
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
<b>Stormwater Management Plan</b>	No	-	-	-
	No	-	-	-
<b>Urban Water Management Plan</b>	No	-	-	-
<b>Habitat Conservation Plan</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	Yes	Community Service Plan/Community Health Improvement Plan, 2022	Herkimer County Public Health	Herkimer County Public Health



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Other	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Norway to oversee and track development.

**Table 9.21-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	The Codes Enforcement Office issues permits.
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	The Codes Enforcement Office issues permits.
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	Yes	Approximately 80% of land is undeveloped but subdivisions must be approved by the planning board.

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Norway and their current responsibilities that contribute to hazard mitigation.

**Table 9.21-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Joint Planning and Zoning Board. There are 4-5 members that serve on the board.
Zoning Board of Adjustment	Yes	Joint Planning and Zoning Board. There are 4-5 members that serve on the board.
Planning Department	No	Some planning efforts falls onto the Highway Department.
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	Highway superintendent and 4 individuals who work beneath him.
Construction/Building/Code Enforcement Department	Yes	One part time worker. Issues permit and conducts inspections.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	National Grid will conduct as-needed maintenance around utility poles. Highway department maintains roadways and will conduct tree-trimmings.
Mutual aid agreements	Yes	Part of fire and ems mutual aid
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	Yes	Planning and Zoning Board members have knowledge of this.
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	Yes	No one is specifically trained, but with members of the community being in the area for a long time, the hazards and their impacts are understood.
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	Yes	The highway department
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	Yes	The Town contracts for this
Emergency Manager	No	Rely on the County
Grant writer(s)	Yes	The Town Supervisor will write grants on behalf of the Town.  <i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications? Unknown.
Resilience Officer	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Norway’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.



## Fiscal Capability

The table below summarizes financial resources available to the Town of Norway.

**Table 9.21-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Norway.

**Table 9.21-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Town Supervisor
Personnel skilled or trained in website development	No	There is a Town website, but not maintained by the Town.
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-



## Community Classifications

The table below summarizes classifications for community programs available to the Town of Norway.

**Table 9.21-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

N/A Not applicable

- Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.21-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate



The Town of Norway indicated that the adaptive capacity for the Severe Winter Storm hazard should be ‘Strong’ instead of ‘Moderate’. The Highway Department is well equipped, familiar with the hazard, and can identify where the most assistance will be needed.

### 9.21.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Norway.

**Table 9.21-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Norway	1	1	0	0	0	0	0

Source: FEMA, accessed 4/21/23

Notes:

Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Norway.

**Table 9.21-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	None
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No  None
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No



NFIP Topic	Comments
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Due to minimal flood exposure, this has not been necessary in the past.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Enforcement
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Training is not necessary due to the limited floodplain in the Town.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	N/A
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Has not had to happen
What are the barriers to running an effective NFIP program in the community, if any?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	The floodplain damage prevention ordinance has been requested from the NYDEC.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Yes. The town does not have development in the floodplain.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No



NFIP Topic	Comments
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

### 9.21.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.21-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.21-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	1	0	0	0	0	0	4	0	0	0	1	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None identified.												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.21.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Norway’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

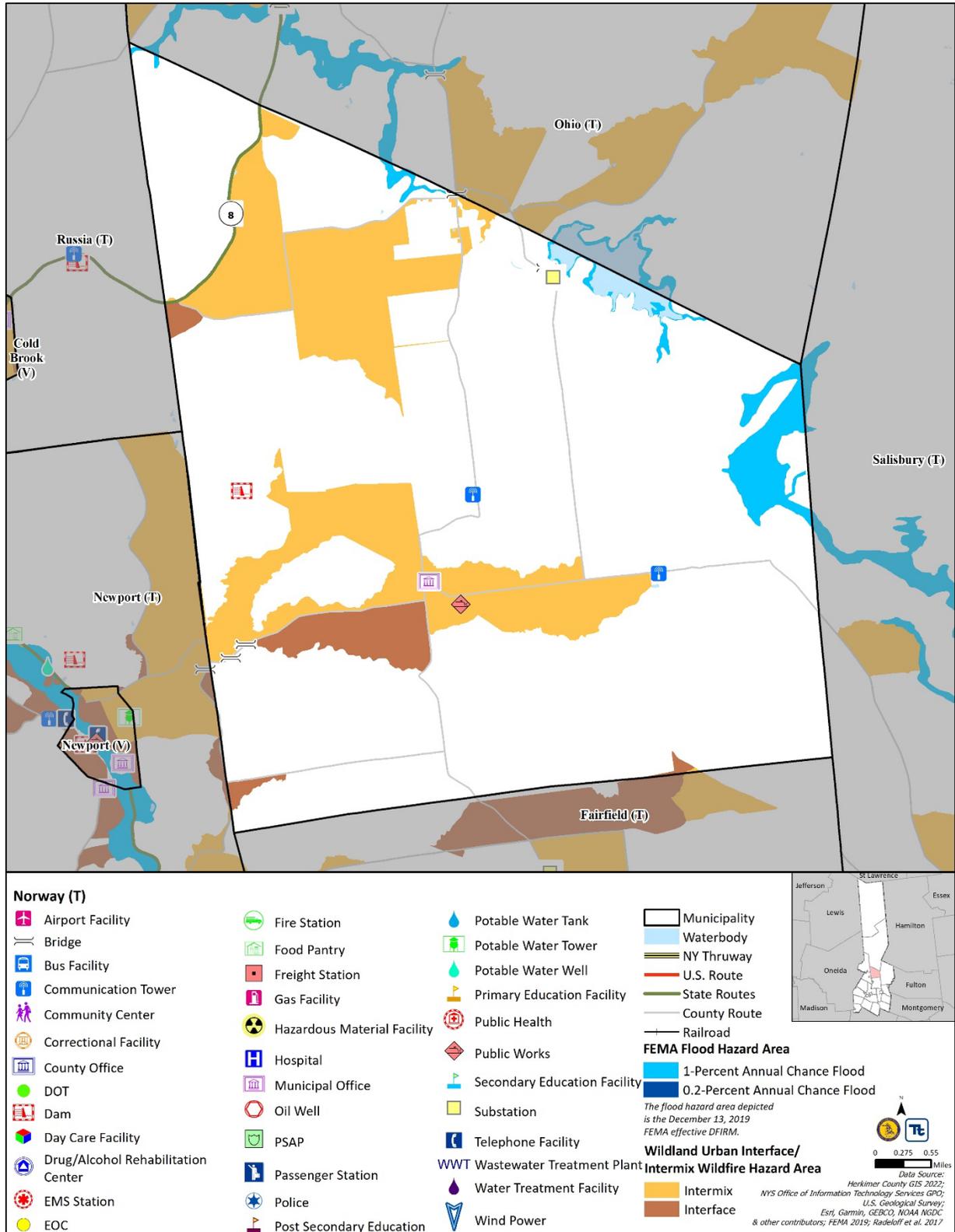
Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are



adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Norway has significant exposure are provided.



Figure 9.21-1. Town of Norway Hazard Area Extent and Location Map





### Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Norway’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.21-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.21-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	The Town of Norway did not report any damages or losses.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Gage Road \$19,617 Military Rd. West \$69,538 Military Rd. East \$46,070 Military Rd. West Pipe \$127,883 Gould Rd. and Military Rd. Paving \$103,717 Gage Rd. (pending) Approx. \$450,000
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	The Town of Norway did not report any damages or losses.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	The Town of Norway did not report any damages or losses.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
April 2022	Spring Snowstorm	N/A	Power Outages	The Town experienced over two feet of snow from this storm, which also caused a power outage for 29-hours.

Notes:

- EM      *Emergency Declaration (FEMA)*
- FEMA   *Federal Emergency Management Agency*
- DR      *Major Disaster Declaration (FEMA)*
- N/A     *Not applicable*

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Norway’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Norway. The Town of Norway reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town agreed that the calculated rankings accurately reflected the risk posed to the community.



**Table 9.21-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.21-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
There are no critical facilities in the community identified as being in the 1-percent and 0.2-percent floodplain.					

**Identified Issues**

After review of the Town of Norway’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Norway identified the following vulnerabilities within their community:



- Critical facilities within the Town, including the Town Hall and Highway Garage, do not have back-up power.
- Roadways have been greatly impacted by Severe Storms, Straight-Line Winds, and Flooding, with one 2019 storm having caused over an estimated \$816,000 in damages.
- Residents have noted the need for an alert system with notifications regarding hazards would be helpful.\*
- Road maintenance is not performed on a regular basis.\*
- Power loss occurs often from hazards and poor infrastructure.\*
- They are historical issues involving drought on the farmlands in Town.
- The Town government does not have a continuity of operations/continuity of government plan.
- Many residents are unfamiliar with the invasive poison hemlock plant.

\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.

### 9.21.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The Town of Norway did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

#### Additional Mitigation Efforts

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The Town of Norway identified the following mitigation efforts completed since 2017:

- Culverts sizes were increased when replaced in October of 2019.

Since the adoption of the County's first HMP, the Town of Norway has made significant mitigation progress in the following areas:

- Culvert repairs to progress flood mitigation efforts.

#### Proposed Hazard Mitigation Initiatives for the HMP Update

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The Town of participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning



website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.21-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X	X	X	X	X	X	X		X
Drought	X	X	X	X	X	X	X	X		X
Flood	X	X		X	X	X	X			X
Severe Storm	X	X	X	X	X	X	X	X		X
Severe Winter Storm	X	X	X	X	X	X	X	X		X
Wildfire	X	X	X	X	X	X	X	X		X
Infestation				X			X			
Dam Failure	X	X		X	X	X	X			X
Disease Outbreak	X	X		X			X			X

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.21-16).

The table below summarizes the specific mitigation initiatives the Town of Norway would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.21-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Norway-001	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	No	No	1 year	Floodplain Administrator, Highway Department	Low	Medium	HMGP, FMA	Low	LPR	PI, PP
2023-Norway-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	5 years	Floodplain Administrator, Highway Department	Medium	Medium	HMGP	Low	LPR	PR
2023-Norway-003	All-Hazards Education Campaign	2, 3	Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Infestation, Severe Storm,	<p><b>Problem:</b> Residents may not be aware how to respond, prepare, and protect themselves and their property from hazards.</p> <p><b>Solution:</b> The Town will work with the County of Herkimer to develop and distribute educational materials</p>	No	No	3 years	Town Council, Herkimer County OEM, NYOEM	Low	High	BRIC, Local Funds	High	EAP	PI



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Severe Winter Storm, Wildfire	regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website. Utilize social media, newsletters, and brochures to inform the public of hazards within the Town how to prepare for, respond to, and mitigate damages to their properties.										



Section 9.21. Town of Norway

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Norway-004	Emergency Generators for Critical Facilities	1	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> Generators are needed for critical facilities, including the Town Hall (the emergency sheltering location) and Highway Garage.</p> <p><b>Solution:</b> Identify and install the correct size generator for the Town Hall and the Highway Garage.</p>	Yes	No	2 to 3 years	Town Supervisor, Highway Department	High	High	BRIC, HMGP	Medium	SIP	PP, ES
2023-Norway-005	Continuity Planning	1, 3	Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The Town government has no written plans on the continuation of governmental operations in the event of an emergency.</p> <p><b>Solution:</b> Write a continuity of government plan for each governmental department within the Town to identify how the department will continue operations during an emergency event.</p>	No	No	5 years	Town Council	Low	High	Local Funds, EMGP	Medium	LPR	PR, ES
	Emergency Notification	1, 2, 3	Dam Failure,	<b>Problem:</b> Although there are notification	No	No	2 years	Town Council, Herkimer	Low	High		High	EA	ES



Section 9.21. Town of Norway

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Norway-006	System Outreach		Disease Outbreak, Drought, Extreme Temperature, Flood, Infestation, Severe Storm, Severe Winter Storm, Wildfire	<p>methods in place, residents in the Town may not be informed of the NY-Alert text alerts for hazards.</p> <p><b>Solution:</b> Along with Herkimer County and the State of New York, assist with the promotion of the text alert system so residents can stay informed and aware of any impending hazards.</p>				County OEM, NYOEM			HMGP, Local Funds			
2023-Norway-007	Road Maintenance Program	1	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> Residents have noted that the roadways in the Town are not continually maintained.</p> <p><b>Solution:</b> Develop a regular road maintenance schedule where department workers will assess the integrity of roadways in the Town.</p>	No	No	1 to 2 years	Highway Department	Low	Medium	Local Funds	Medium	SIP	PR
2023-Norway-008	Tree Maintenance Program	1, 3, 4	Severe Storm, Severe Winter Storm, Wildfire	<b>Problem:</b> Power outages from storms can be attributed to fallen debris, including tree limbs and branches.	No	No	2 to 3 years	Highway Department	Medium	Medium	Local Funds, Urban and Community Forestry Grant	High	NSP	NR



Section 9.21. Town of Norway

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> Increase the maintenance of trees in Town from as-need to regularly scheduled and research the feasibility of submitting an application for the Urban and Community Forestry Grant to assist with tree maintenance.</p>										
2023-Norway-009	Drought Contingency Plan	1, 3	Drought, Extreme Temperature	<p><b>Problem:</b> The Town has historically experienced periods of drought, which results in depleted water supply for crops, soils, and residents drinking water.</p> <p><b>Solution:</b> The Town will develop a Drought Contingency Plan to address the different degrees of drought and water shortage problems.</p>	No	No	3 years	Town Council, Herkimer County OEM, Herkimer County Public Health	Low	Medium	Local and County Funds	Low	LPR, NSP, EAP	PR, NR

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.



### Section 9.21. Town of Norway

FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

EMPG Emergency Management Performance Grant

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes 💧 Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.21-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Norway-001	Increase NFIP Capabilities	0	1	1	1	0	0	1	0	0	0	0	1	-1	0	4	Low
2023-Norway-002	Develop Substantial Damage Response Plan	0	0	1	1	-1	0	1	1	0	0	1	1	-1	0	4	Low
2023-Norway-003	All-Hazards Education Campaign	1	1	1	1	1	1	0	0	0	1	1	1	0	1	10	High
2023-Norway-004	Emergency Generators for Critical Facilities	1	1	1	1	1	1	0	-1	0	0	1	1	1	1	9	High
2023-Norway-005	Continuity Planning	0	1	1	1	0	0	1	0	0	1	1	1	0	0	7	Medium
2023-Norway-006	Emergency Notification System Outreach	1	0	1	1	1	1	1	0	1	0	1	1	0	0	9	High
2023-Norway-007	Road Maintenance Program	1	1	1	1	0	0	1	0	1	0	1	1	0	0	8	Medium
2023-Norway-008	Tree Maintenance Program	0	1	1	1	1	1	0	1	0	0	1	1	0	1	9	High
2023-Norway-009	Drought Contingency Plan	0	0	1	1	0	1	0	1	0	-1	1	1	-1	0	4	Low

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.22 TOWN OF OHIO

This section presents the jurisdictional annex for the Town of Ohio that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Ohio’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Ohio did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.22.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.22-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Karen Mowers – Town Supervisor</b> Address: <b>234 Nellis Rd, Cold Brook, NY 13324</b> Phone Number: <b>(315) 826-7912</b> Email:	Name/Title: B. Scott Sperry, Highway Superintendent Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	



## 9.22.2 Municipal Profile

The Town of Ohio was established as the town of West Brunswick in 1823 from part of the Town of Norway. The name was changed to Ohio in 1836. Ohio was increased by some of the now-defunct Town of Wilmurt, which itself had been partly formed with territory from Ohio and the Town of Russia in 1836. Wilmurt was once the largest town in New York. The Town of Ohio is part of the Adirondack Park.

According to the U.S. Census, the 2020 population for the Town of Ohio was 962, a 4.2 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 4.2 percent of the population is 5 years of age or younger and 29.9 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

## 9.22.3 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Ohio. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.22-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>			State and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Zoning/Land Use Code</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>• Does it contain natural overlay zones that set conditions?</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> <li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
<b>Subdivision Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li> <li>Do the regulations allow density transfers where hazard areas exist?</li> </ul>				
<b>Site Plan Ordinance</b>			Local and County	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Ordinance</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Environmental Protection Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>			Federal, State, County and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Wellhead Protection</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Climate Change Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?</li> <li>• Does the future land use map clearly identify natural hazard areas?</li> <li>• Do the land use policies discourage development or redevelopment with natural hazard areas?</li> <li>• Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?</li> </ul>				
<b>Capital Improvement Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Disaster Debris Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Floodplain Management or Watershed Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Open Space Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Urban Water Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Habitat Conservation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Economic Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Community Wildfire Protection Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Forest Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Transportation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does the transportation plan limit access to hazard areas?</li> <li>• Is transportation policy used to guide growth to safe locations?</li> <li>• Are transportation systems designed to function under disaster conditions (e.g. evacuation)?</li> </ul>				
<b>Agriculture Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Action/ Resiliency/Sustainability Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Tourism Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other (for example NYRCR, etc.)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?</li> </ul>				
<b>Continuity of Operations Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Substantial Damage Response Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Ohio to oversee and track development.

**Table 9.22-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Ohio and their current responsibilities that contribute to hazard mitigation.



**Table 9.22-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board		
Zoning Board of Adjustment		
Planning Department		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement Department		
Emergency Management/Public Safety Department		
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices		
Engineers or professionals trained in building or infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi- Hazards (MH) applications		
Environmental scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Grant writer(s)		<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer		
Other (this could include stormwater engineer, environmental specialist, etc.)		

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

### Fiscal Capability

The table below summarizes financial resources available to the Town of Ohio.

**Table 9.22-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Ohio.

**Table 9.22-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		
Hazard mitigation information available on your website		



Outreach Resources	Available? (Yes/No)	Comment:
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Ohio.

**Table 9.22-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community			
Storm Ready Certification			
Firewise Communities classification			
Other			

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.



**Table 9.22-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

### 9.22.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Ohio.

**Table 9.22-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Ohio	1	1	\$29,449	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Ohio.

**Table 9.22-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.



NFIP Topic	Comments
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	Information not available.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Information not available.
Are any certified floodplain managers on staff in your jurisdiction?	Information not available.
Do you have access to resources to determine possible future flooding conditions from climate change?	Information not available.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Information not available.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Information not available.
What are the barriers to running an effective NFIP program in the community, if any?	Information not available.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Information not available.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.



NFIP Topic	Comments
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	

### 9.22.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.22-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.22-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Multi-Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				

SFHA Special Flood Hazard Area (1% flood event)

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



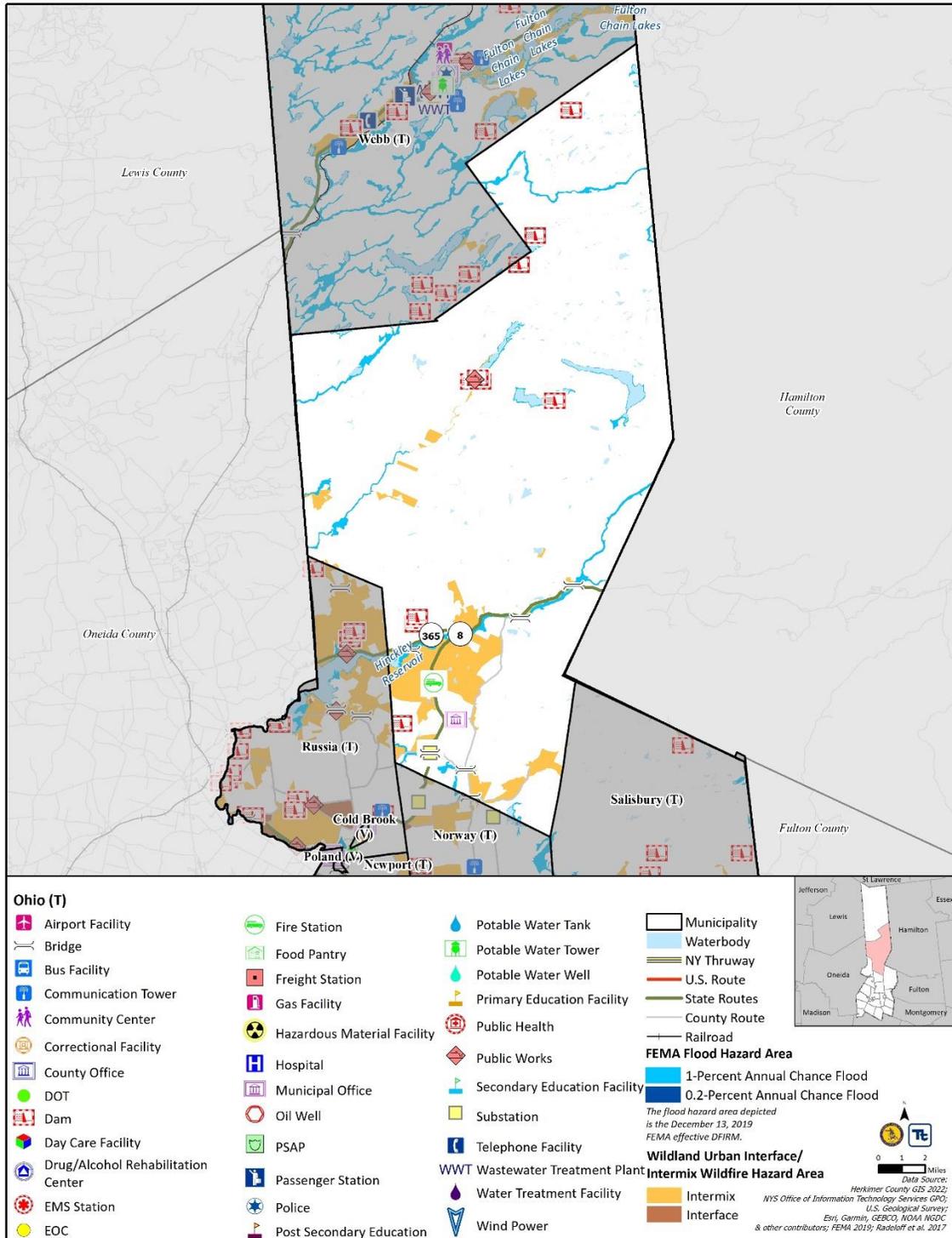
## 9.22.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Ohio's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Ohio has significant exposure are provided.



Figure 9.22-1. Town of Ohio Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Ohio’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.22-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.22-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Ohio’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Ohio. The Town of Ohio reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.22-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.22-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Canachagala Inlet Dam	Dam	X	X	-	-
Gray Wilmurt Rd bridge over Black Creek	Bridge	X	X	-	-
Gray Wilmurt Rd bridge over West Canda Creek	Bridge	X	X	-	-
Harvey Bridge Rd bridge over West Canada Creek	Bridge	X	X	-	-
NY Route 8 bridge over Black Creek	Bridge	X	X	-	-
NY Route 8 bridge over West Canada Creek ""Bussey Bridge""	Bridge	X	X	-	-
NY Route 8 bridge over West Canada Creek ""Nobleboro Bridge""	Bridge	X	X	-	-
Ohio Town Highway Substation	Public Works	X	X	-	-
South Lake Dam	Dam	X	X	-	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Ohio:

- South Lake Dam

### Identified Issues

After review of the Town of Ohio’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Ohio identified the following vulnerabilities within their community:

- None available.



## 9.22.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

The Town of Ohio did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Additional Mitigation Efforts

The Town of Ohio identified the following mitigation efforts completed since 2017:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.22-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.22-16).

The table below summarizes the specific mitigation initiatives the Town of Ohio would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



**Table 9.22-16. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

**Acronyms and Abbreviations:**

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

**Potential FEMA HMA Funding Sources:**

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

**Timeline:**

The time required for completion of the project upon implementation.

**Cost:**

The estimated cost for implementation.

**Benefits:**

A description of the estimated benefits, either quantitative and/or qualitative.

**Critical Facility:**

Yes Critical Facility located in 1% floodplain

**Mitigation Category:**

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



## Section 9.22. Town of Ohio

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.22-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.	Information not available.	Information not available	Information not available.	Information not available	Information not available	Information not available	Information not available.	Information not available.	Information not available	Information not available	Information not available	Information not available.					

*Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).*



# SECTION 9.

## 9.23 VILLAGE OF POLAND

This section presents the jurisdictional annex for the Village of Poland that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of Poland’s risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

### 9.23.1 Hazard Mitigation Planning Team

The Village of Poland identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Village departments, including Code Enforcement, Water Department, and the Village Office. The Mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.23-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Brian Dutcher – Mayor Address: 9 Case Street, Poland, NY 13431 Phone Number: (315) 826-3141 Email: <a href="mailto:mayordutcher@villageofpolandny.org">mayordutcher@villageofpolandny.org</a>	Name/Title: Brianne Miller – Village Clerk Address: 9 Case Street, Poland, NY 13431 Phone Number: (315) 826-3141 Email: <a href="mailto:vpoland@ntcnet.com">vpoland@ntcnet.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Scott Burritt – Water Superintendent Address: 9 Case Street, Poland, NY 13431 Phone Number: (315) 826-3141 Email: <a href="mailto:chiefburritt@roadrunner.com">chiefburritt@roadrunner.com</a>	
<b>Additional Contributors</b>	
Name/Title: Philip Green – Code Enforcer Method of Participation: Completed building permit worksheet for growth/development trends	



## 9.23.2 Municipal Profile

Poland was briefly called Maple Valley & Russia Flats when it was first settled around 1800 on land owned by Samuel Wright. The first post office, established in 1838 in the hotel at the corner of Main & Case Streets, was known as Danielsville, after Nahum Daniels who owned a large amount of land in the village. The first Postmaster, Joseph Benchley soon changed the name because of the confusion with Dansville in western N.Y. The simplest explanation for the name Poland is that is located adjacent to & southwest of Russia, just like Poland in Europe.

According to the U.S. Census, the 2020 population for the Village of Poland was 464, a 9.5 percent decrease from the 2010 Census; 2021 population estimates from the 2021 American Community Survey (ACS) place the population at 545. Data from the 2020 U.S. Census indicate that 14.7 percent of the population is 5 years of age or younger and 12.3 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 7.71% of the population does not have a high school diploma
- 13.95% of the population has a disability
- 3.57% of households do not have a vehicle
- 9.84% of the population is living below the poverty level
- 2.23% of the population is unemployed

## 9.23.3 Jurisdictional Capability Assessment and Integration

The Village of Poland performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis,



planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of Poland to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of Poland. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.23-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York State Uniform Fire Prevention and Building Code	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Village of Poland has adopted the New York State Uniform Fire Prevention and Building Codes				
Zoning/Land Use Code	Yes	Village of Poland Comprehensive Plan – Zoning Local Law	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town Comprehensive Plan discusses the Town zoning and land use codes.				
Subdivision Ordinance	Yes	Land Subdivision Law 01-93	Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> These regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>To provide for the future growth and development of the village</li> <li>To afford facilities for housing, transportation, distribution, comfort, convenience, safety, health, and welfare</li> <li>To show a park or parks suitably located for playground or other recreational purposes</li> <li>To require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire -fighting equipment to buildings</li> <li>To assure that the subdivision streets and highways shall be coordinated to compose a convenient system conforming to the Official Map and properly related to the Comprehensive Plan and Zoning Local Law</li> <li>To find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
Site Plan Ordinance	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	Flood Damage Prevention Ordinance	Local	Code Enforcement
Wellhead Protection	Yes	1995-1997	Local	Water Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The goal of Wellhead Protection is to protect the ground water sources and wellhead areas that supply public drinking water systems from contamination. The approach to wellhead protection recognizes and includes the existing federal, state, and county programs that protect groundwater and complements these programs through a combination of activities and efforts using existing public and private agencies and organizations at all levels.				
Emergency Management Ordinance	Unknown	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Climate Change Ordinance	No	-	-	-
Other	-	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	Yes	Village of Poland Comprehensive Plan - 2018	Local	Town Planning Board
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	Yes	Emergency Operations Plan - 2016	County	Herkimer County Office of Emergency Management
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*How has or will this be integrated with the HMP and how does this reduce risk?*

The plan outlines departmental command structure, logistics, and response capabilities and how local emergency responders will coordinate with countywide and statewide responders. It was created to prepare departments to respond to all-hazards events and to improve service delivery during and following an emergency.



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Continuity of Operations Plan	Yes	Continuity of Operations Plan – 2016	County	Herkimer County Office of Emergency Management
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Continuity of Operations Plan guides departmental response and coordination in the event of a hazard of emergency				
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	-	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of Poland to oversee and track development.

**Table 9.23-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Code Enforcement
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Code Enforcement



Indicate if your jurisdiction implements the following	Yes/No	Comment:
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	Permits are not tracked by hazard.
Do you have a buildable land inventory?	No	There is not much space to continue buildout, so it is not tracked.
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	The Village is about as built-out as it can be; there is very little space to build any new development on unless a structure on a parcel is demolished.

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Poland and their current responsibilities that contribute to hazard mitigation.

**Table 9.23-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	No	-
Zoning Board of Adjustment	Yes	The Zoning Board of Appeals is appointed by the Village Board to review all village zoning applications that have been denied by the Zoning Enforcement Officer. The board may grant variances for use or set-back requirements based on individual cases.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	Village Board
Construction/Building/Code Enforcement Department	Yes	Codes Enforcement
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-
<b>Administrative/technical capability self-assessment</b>		
<b>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</b>		
The Village of Poland’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.		

## Fiscal Capability

The table below summarizes financial resources available to the Village of Poland.

**Table 9.23-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes (water only)



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	WIIA Grant
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Poland.

**Table 9.23-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of Poland.

**Table 9.23-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Unknown	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)*	Yes	4b	2021



Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other			

Note:

N/A Not applicable

- Unavailable

\* The 2023 rating for this program is unknown; however, in 2021 the Poland Joint Fire District was given a rating of 4b.

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.23-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Moderate
Severe Winter Storm	High
Wildfire	Moderate
Infestation	Moderate
Dam Failure	Weak
Disease Outbreak	Weak

### 9.23.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Poland.



**Table 9.23-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Village of Poland	1	2	\$63,905	0	0	0

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of Poland.

**Table 9.23-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Well Site Yes
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No N/A
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Water Project – from 2019 flood
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	N/A
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Code Enforcement
Are any certified floodplain managers on staff in your jurisdiction?	Yes
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes



NFIP Topic	Comments
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Inspections
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	N/A
What are the barriers to running an effective NFIP program in the community, if any?	Staffing, low budget
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	N/A
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Unknown due to filing system Written in the early 1990s.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	N/A
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

### 9.23.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.23-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.23-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	1	0	1	0	0	0	0	0	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	1	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
Water Plant	Infrastructure	1		No address assigned.		None		Upgraded potable water system by investing 1.4 million into the development of a new water plant.				
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None anticipated.												

SFHA Special Flood Hazard Area (1% flood event)

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

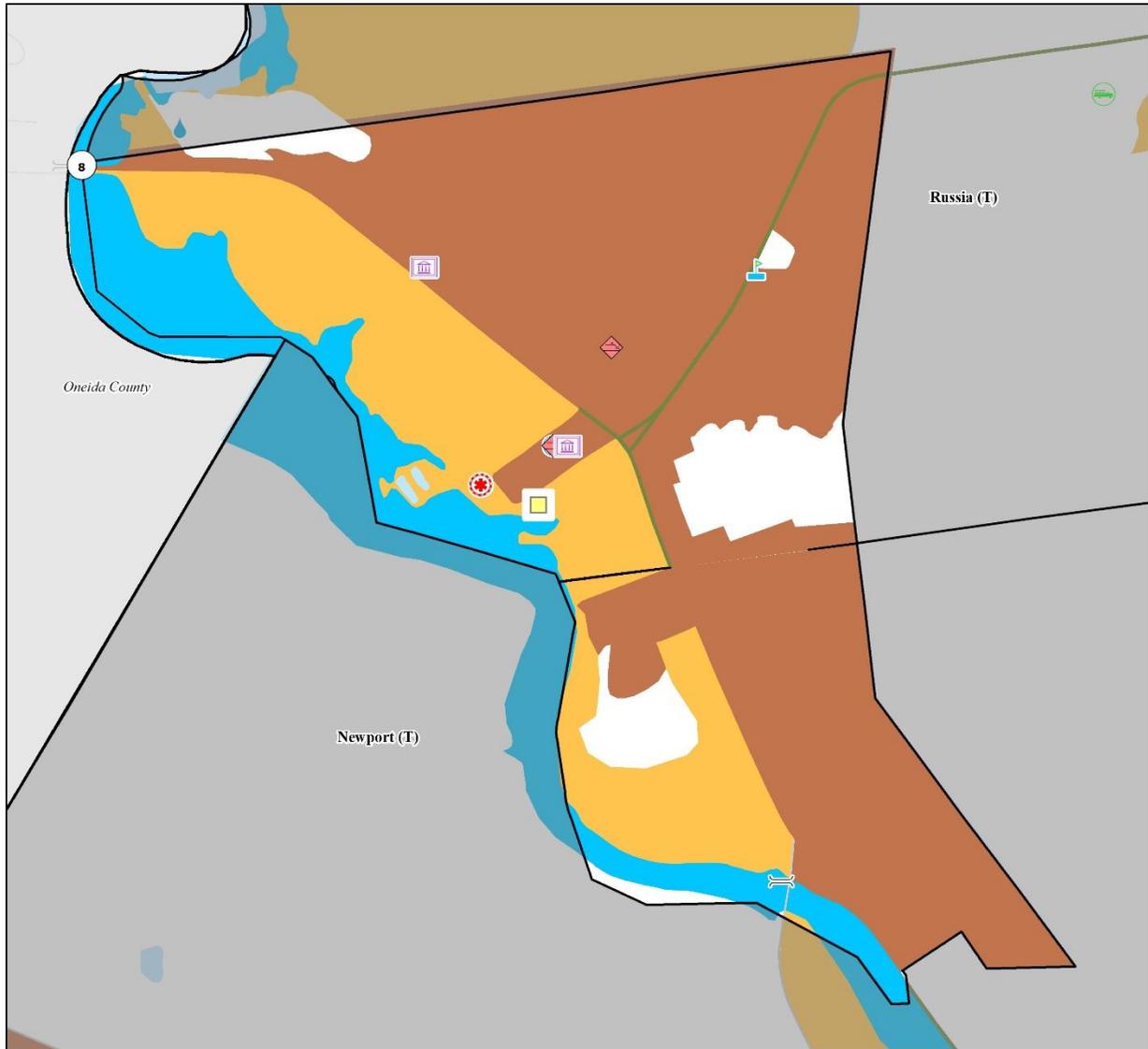
### 9.23.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of Poland’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of Poland has significant exposure are provided.



Figure 9.23-1. Village of Poland Hazard Area Extent and Location Map



<b>Poland (V)</b>				
Airport Facility	Fire Station	Potable Water Tank	Municipality	<p>The flood hazard area depicted is the December 13, 2019 FEMA effective DFIRM.</p> <p><b>Wildland Urban Interface/ Intermix Wildfire Hazard Area</b></p> <ul style="list-style-type: none"> <li> Intermix</li> <li> Interface</li> </ul> <p><small>Data Source: Herkimer County GIS 2022; NYS Office of Information Technology Services GPO; U.S. Geological Survey; Esri, Garmin, GEBCO, NOAA NED/C, &amp; other contributors; FEMA 2019; Radeloff et al. 2017</small></p>
Bridge	Food Pantry	Potable Water Tower	Waterbody	
Bus Facility	Freight Station	Potable Water Well	NY Thruway	
Communication Tower	Gas Facility	Primary Education Facility	U.S. Route	
Community Center	Hazardous Material Facility	Public Health	State Routes	
Correctional Facility	Hospital	Public Works	County Route	
County Office	Municipal Office	Secondary Education Facility	Railroad	
DOT	Oil Well	Substation	<b>FEMA Flood Hazard Area</b>	
Dam	PSAP	Telephone Facility	1-Percent Annual Chance Flood	
Day Care Facility	Passenger Station	WWT Wastewater Treatment Plant	0.2-Percent Annual Chance Flood	
Drug/Alcohol Rehabilitation Center	Police	Water Treatment Facility		
EMS Station	Post Secondary Education	Wind Power		
EOC				



## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of Poland’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.23-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.23-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	The Village incurred no damages or losses from this event
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	The Village incurred no damages or losses from this event
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	The Village incurred no damages or losses from this event. The Village had limited meetings due to the pandemic.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	The Village incurred no damages or losses from this event

Notes:



- EM      *Emergency Declaration (FEMA)*
- FEMA   *Federal Emergency Management Agency*
- DR      *Major Disaster Declaration (FEMA)*
- N/A     *Not applicable*

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Poland’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Poland. The Village of Poland reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- The original ‘Low’ ranking for the Extreme Temperature hazard was not appropriate. There have been multiple instances where the Village has experienced temperatures of -20°F. The ranking was increased to ‘Medium’.
- The original ‘Low’ ranking for the Flood hazard was not appropriate. There have been occurrences of floods completely isolating the Village from surrounding areas. The ranking was increased to ‘Medium’.

**Table 9.23-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Medium
Drought	Low
Flood	Medium
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low



Hazard	Rank
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction.

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.23-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Old State Rd bridge over West Canada Creek	Bridge	Y	Y	2023-Poland-004	-

Source: Herkimer County 2023

### Identified Issues

After review of the Village of Poland’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Village of Poland identified the following vulnerabilities within their community:

- Poland Central School does not have back-up power.
- West Canada Creek floods after significant rainfall.

### 9.23.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.



### Past Mitigation Initiative Status

The Village of Poland did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Additional Mitigation Efforts

The Village of Poland identified the following mitigation efforts completed since the last HMP:

- The State of New York made repairs to the Route 28/Route 8 bridge in 2016. This bridge connects the Village of Poland to the Town of Deerfield in Oneida County.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Poland had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Villages' s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.23-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X		X	X		X			X
Drought	X	X		X	X		X			X
Flood	X	X		X	X		X			X
Severe Storm	X	X		X	X		X			X
Severe Winter Storm	X	X		X	X		X			X
Wildfire	X	X		X	X		X			X
Infestation				X			X			
Dam Failure	X	X		X	X		X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.23-16).

The table below summarizes the specific mitigation initiatives the Village of Poland would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.23-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Poland-001	Increase NFIP Capabilities	1, 2, 3	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>	No	No	1 year	Village NFIP Administrator	Low	Medium	Local Funds	Medium	EAP	PR
2023-Poland-002	Develop Substantial Damage Response Plan	1, 3	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm,	<p><b>Problem:</b> The Village does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership</p>	No	No	2 to 3 years	Village NFIP Administrator	Low	Medium	BRIC, HMGP, EMPG	Medium	LPR	PR



			Wildfire	with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.										
2023-Poland-003	Water Main Improvement	1	Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> Potable water pipes, which carries water for residents and fire supply, in the Village only flow in one direction, which makes it difficult to repair.</p> <p><b>Solution:</b> Improve the water system by linking pipes to create loops, which would ensure that if a repair needs to be performed the water supply for the Village is not disrupted.</p>	Yes	Yes	5 years	Village Water Department	High	High	BRIC, HMGP	High	SIP	PR
2023-Poland-004	Old State Road Bridge Maintenance	1, 3	Dam Failure, Drought,	<b>Problem:</b> Per the NY State Highway Bridge Data,	Yes	No	1 to 2 years	Village Board, Herkimer County	Low	High	County Funds	Medium	SIP	PR



			<p>Extreme Temperature Flood, Severe Storm, Severe Winter Storm, Wildfire</p>	<p>the Old State Road Bridge was last inspected by the County in 2021.</p> <p><b>Solution:</b> Work with Herkimer County to maintain a list which identifies any potential weaknesses of the bridge, particularly in relation to being located in the floodplain.</p>				Highway Department						
2023-Poland-005	Back-up Power for Critical Facility	1	<p>Dam Failure, Drought, Extreme Temperature Flood, Severe Storm, Severe Winter Storm, Wildfire</p>	<p><b>Problem:</b> The Poland Central School, a critical facility, does not have a source for back-up power.</p> <p><b>Solution:</b> Identify and install the correct size generator for the Poland Central School.</p>	Yes	Yes	2 to 3 years	Village Board	Medium	High	BRIC, HMGP	Medium	SIP	ES



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2023-Poland-006	Hazard Education	2, 3	<p>Dam Failure, Disease Outbreak, Drought, Extreme Temperature</p> <p>Flood, Infestation, Severe Storm, Severe Winter Storm, Wildfire</p>	<p><b>Problem:</b> The public may not be informed of hazard risks and high-hazard areas within the Village.</p> <p><b>Solution:</b> The Village will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Village will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The</p>	No	No	3 years	Village Board	Low	High	BRIC, Local Funds	High	EAP	R1
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			Village will provide educational materials on the village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website. It will utilize social media, newsletters, and brochures to inform the public of hazards within the Town how to prepare for, respond to, and mitigate damages to their properties.									
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Notes:

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

Acronyms and Abbreviations:

Potential FEMA HMA Funding Sources:

Timeline:



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CAV	Community Assistance Visit	FMA	Flood Mitigation Assistance Grant Program	<p>The time required for completion of the project upon implementation.</p> <p>Cost: The estimated cost for implementation.</p> <p>Benefits: A description of the estimated benefits, either quantitative and/or qualitative.</p>
CRS	Community Rating System	HMGP	Hazard Mitigation Grant Program	
DPW	Department of Public Works	BRIC	Building Resilient Infrastructure and Communities Program	
EHP	Environmental Planning and Historic Preservation	EMPG	Emergency Management Performance Grant	
FEMA	Federal Emergency Management Agency			
FPA	Floodplain Administrator			
HMA	Hazard Mitigation Assistance			
N/A	Not applicable			
NFIP	National Flood Insurance Program			
OEM	Office of Emergency Management			

### Critical Facility:

Yes  *Critical Facility located in 1% floodplain*

### Mitigation Category:

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

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.23-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Poland-001	Increase NFIP Capabilities	0	1	1	1	0	1	1	0	0	1	0	1	0	0	7	Medium
2023-Poland-002	Develop Substantial Damage Response Plan	0	1	1	1	0	1	1	1	0	0	1	1	0	0	8	Medium
2021-Poland-003	Water Main Improvement	0	1	1	1	1	1	0	0	0	1	1	1	1	0	9	High
2021-Poland-004	Old State Road Bridge Maintenance	1	0	1	1	0	0	1	0	0	0	1	1	0	0	5	Medium
2021-Poland-005	Back-up Power for Critical Facility	1	1	1	1	1	1	0	-1	0	0	1	1	0	0	7	Medium
2021-Poland-006	Hazard Education	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.24 TOWN OF RUSSIA

This section presents the jurisdictional annex for the Town of Russia that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Russia did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.24.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.24-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Frances Donley, Town Supervisor Address: Box 126, 8126 N. Main St, Poland, NY 13431 Phone Number: 315-826-3432 Ext 2 Email: <a href="mailto:supervisor@ntcnet.com">supervisor@ntcnet.com</a>	Name/Title: Amy Clemons, Town Clerk Address: Box 126, 8126 N. Main St, Poland, NY 13431 Phone Number: 315-826-3432 Ext 1 Email: <a href="mailto:clemonsa@ntcnet.com">clemonsa@ntcnet.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Herb Belfiore, Codes Officer Address: Box 126, 8126 N. Main St, Poland, NY 13431 Phone Number: 315-826-3845 Email: <a href="mailto:hbelfiore@yahoo.com">hbelfiore@yahoo.com</a>	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title:	



Primary Point of Contact	Alternate Point of Contact
Method of Participation:	

## 9.24.2 Municipal Profile

Insert brief community description.

According to the U.S. Census, the 2020 population for the Town of Russia was XXXX, a X.X percent increase from the 2010 Census. Data from the 2020 U.S. Census indicate that X.X percent of the population is 5 years of age or younger and X.X percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 6.03% of the population does not have a high school diploma
- 22.39% of the population has a disability
- 4.88% of households do not have a vehicle
- 5.85% of the population is living below the poverty level
- 2.08% of the population is unemployed

## 9.24.3 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.24-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>			State and Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Zoning/Land Use Code</b>			Local	
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> <li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>• Does it contain natural overlay zones that set conditions?</li> <li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
<b>Subdivision Ordinance</b>			Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>Consider the following:</p> <ul style="list-style-type: none"> <li>Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li> <li>Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li> <li>Do the regulations allow density transfers where hazard areas exist?</li> </ul>				
<b>Site Plan Ordinance</b>			Local and County	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
<b>Stormwater Management Ordinance</b>			Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>			Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
<b>Environmental Protection Ordinance</b>				
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>Consider the following:</p> <ul style="list-style-type: none"> <li>Are environmental systems that protect development from hazards identified and mapped?</li> <li>Do environmental policies maintain and restore protective ecosystems?</li> <li>Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?</li> <li>Do environmental policies provide incentives to development that is located outside protective ecosystems?</li> </ul>				
<b>Flood Damage Prevention Ordinance</b>			Federal, State, County and Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Wellhead Protection</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Emergency Management Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Change Ordinance</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?</li> <li>Does the future land use map clearly identify natural hazard areas?</li> <li>Do the land use policies discourage development or redevelopment with natural hazard areas?</li> <li>Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?</li> </ul>				
<b>Capital Improvement Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Disaster Debris Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Floodplain Management or Watershed Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Stormwater Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Open Space Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Urban Water Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Habitat Conservation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Economic Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Wildfire Protection Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Community Forest Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Transportation Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>• Does the transportation plan limit access to hazard areas?</li> <li>• Is transportation policy used to guide growth to safe locations?</li> <li>• Are transportation systems designed to function under disaster conditions (e.g. evacuation)?</li> </ul>				
<b>Agriculture Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Climate Action/ Resiliency/Sustainability Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Tourism Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Business/ Downtown Development Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other (for example NYRCR, etc.)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
<b>Comprehensive Emergency Management Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?</li> </ul>				
<b>Continuity of Operations Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Substantial Damage Response Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Post-Disaster Recovery Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Public Health Plan</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Other</b>				
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Russia to oversee and track development.

**Table 9.24-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	



Indicate if your jurisdiction implements the following	Yes/No	Comment:
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Russia and their current responsibilities that contribute to hazard mitigation.

**Table 9.24-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board		
Zoning Board of Adjustment		
Planning Department		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Public Works/Highway Department		
Construction/Building/Code Enforcement Department		
Emergency Management/Public Safety Department		
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)		
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)		
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices		
Engineers or professionals trained in building or infrastructure construction practices		
Planners or engineers with an understanding of natural hazards		
Staff with expertise or training in benefit/cost analysis		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Professionals trained in conducting damage assessments		
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications		
Environmental scientist familiar with natural hazards		
Surveyor(s)		
Emergency Manager		
Grant writer(s)		<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer		
Other (this could include stormwater engineer, environmental specialist, etc.)		

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

**Fiscal Capability**

The table below summarizes financial resources available to the Town.

**Table 9.24-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

**Education and Outreach Capability**

The table below summarizes the education and outreach resources available to the Town.



**Table 9.24-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		
Hazard mitigation information available on your website		
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		

### Community Classifications

The table below summarizes classifications for community programs available to the Town.

**Table 9.24-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community			
Storm Ready Certification			
Firewise Communities classification			
Other			

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes



the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.24-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

### 9.24.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Russia.

**Table 9.24-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Russia	4	8	\$670,086	0	2	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes:

Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.



### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Russia.

**Table 9.24-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	Information not available.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Information not available.
Are any certified floodplain managers on staff in your jurisdiction?	Information not available.
Do you have access to resources to determine possible future flooding conditions from climate change?	Information not available.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Information not available.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Information not available.
What are the barriers to running an effective NFIP program in the community, if any?	Information not available.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.



NFIP Topic	Comments
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Information not available.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Information not available.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.24.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.24-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.24-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Multi-Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				

SFHA Special Flood Hazard Area (1% flood event)

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



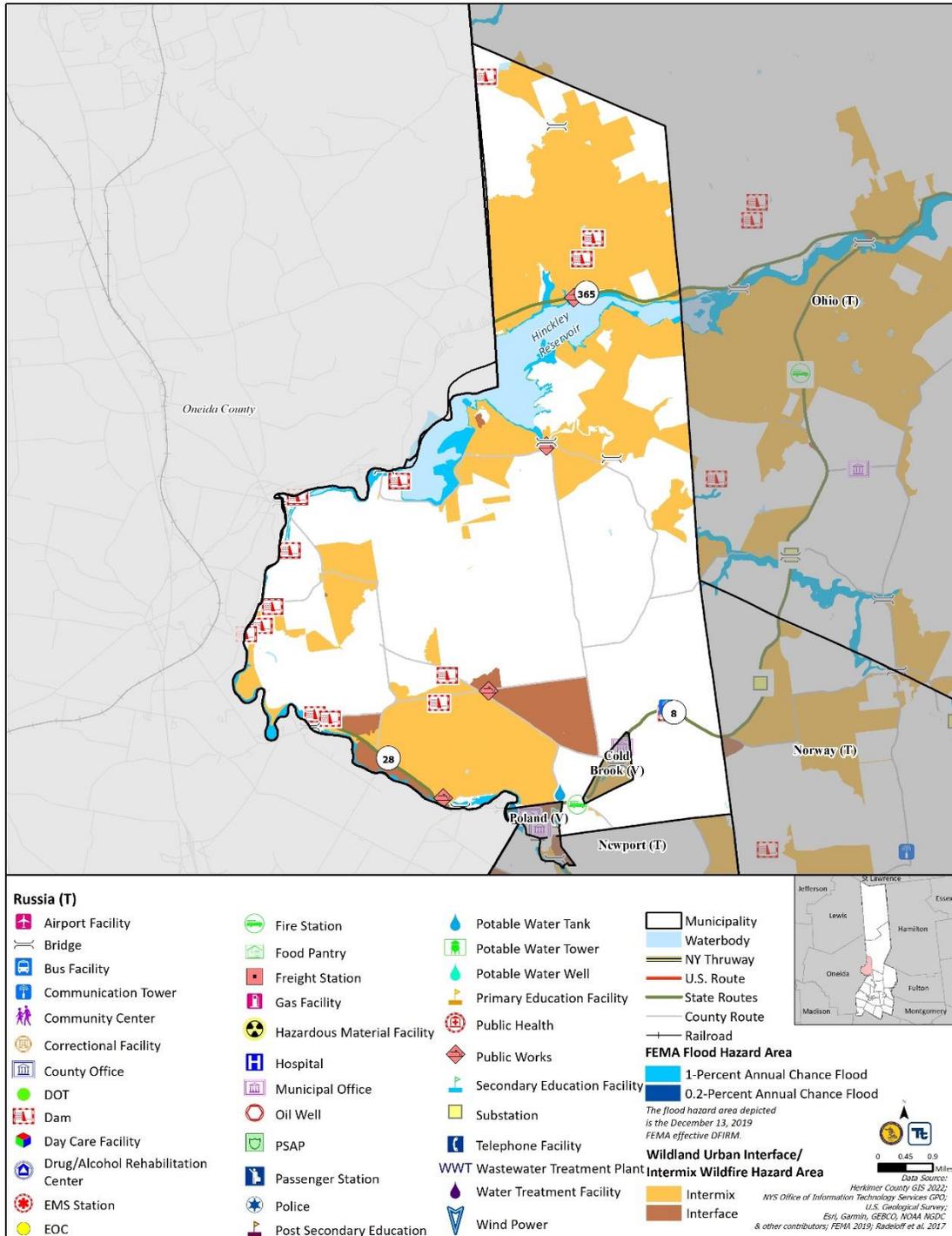
## 9.24.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Russia's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Russia has significant exposure are provided.



Figure 9.24-1. Town of Russia Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Russia’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.24-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.24-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Russia’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Russia. The Town of Russia reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- None identified.

**Table 9.24-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.24-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Hinckley Rd bridge over West Canada Creek	Bridge	X	X	-	-
Nine Mile Feeder Dam (aka Morgan Dam)	Dam	X	X	-	-
NY Route 28 bridge over West Canada Creek "Comstock Bridge"	Bridge	X	X	-	-
Prospect Dam	Dam	X	X	-	-
Stormy Hill Rd bridge over Black Creek	Bridge	X	X	-	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Russia:

- Hinckley Dam

### Identified Issues

After review of the Town of Russia’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Russia identified the following vulnerabilities within their community:

- None identified.



## 9.24.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

The Town of Russia did not participate in the 2017 HMP.

### Additional Mitigation Efforts

The Town of Russia identified the following mitigation efforts completed since 2017:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Russia participated in a mitigation action workshop in MONTH AND YEAR and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.24-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS						
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES	
Extreme Temperature	Information not available										
Drought	Information not available										
Flood	Information not available										
Severe Storm	Information not available										



Hazard	FEMA				CRS					ES	
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP		
Severe Winter Storm	Information not available										
Wildfire	Information not available										
Infestation	Information not available										
Dam Failure	Information not available										
Disease Outbreak	Information not available										

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.24-16).

The table below summarizes the specific mitigation initiatives the Town of Russia would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.24-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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



CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.24-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.	Information not available.	Information not available	Information not available.	Information not available	Information not available	Information not available	Information not available.	Information not available.	Information not available	Information not available	Information not available	Information not available.					

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.25 TOWN OF SALISBURY

This section presents the jurisdictional annex for the Town of Salisbury that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Salisbury’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.25.1 Hazard Mitigation Planning Team

The Town of Salisbury identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including Code Enforcement. The Supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.25-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>John R. Mowers – Supervisor</b> Address: Phone Number: <b>(315) 868-3758</b> Email: <a href="mailto:townsalsclerk@cnyemail.com">townsalsclerk@cnyemail.com</a>	Name/Title: <b>Lyle Jenkins – Superintendent of Highways</b> Address: Phone Number: <b>(315) 429-3223</b> Email: <a href="mailto:salisburyhighwaydepartment@gmail.com">salisburyhighwaydepartment@gmail.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>Barry A. Vickers – Code Enforcement Officer, Floodplain Administrator</b> Address: Phone Number: <b>(315) 717-3891</b> Email: <a href="mailto:oneshotvic@gmail.com">oneshotvic@gmail.com</a>	
<b>Additional Contributors</b>	
Name/Title: Barry A. Vickers – Code Enforcement Officer, Floodplain Administrator	

**Primary Point of Contact****Alternate Point of Contact**

Method of Participation: Provided key input in the planning process

## 9.25.2 Municipal Profile

Herkimer County Town of Salisbury was part of Montgomery County (as a town taken from Palatine) until as recently as 1817. The area of present-day Salisbury is of great interest to researchers having Loyalist ancestry, as many pre-Revolutionary inhabitants were grantees of Sir William Johnson, and forfeited their land and left for Canada. Several later waves of immigrants came from Salisbury and other CT towns, and other New England states.

According to the U.S. Census, the 2020 population for the Town of Salisbury was 1,830 a 7.0-percent increase from the 2010 Census. Data from the 2020 U.S. Census indicate that 3.1-percent of the population is 5 years of age or younger and 15.9-percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 10.56% of the population does not have a high school diploma
- 16.96% of the population has a disability
- 7.29% of households do not have a vehicle
- 13.74% of the population is living below the poverty level
- 3.56% of the population is unemployed

## 9.25.3 Jurisdictional Capability Assessment and Integration

The Town of Salisbury performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis,



planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Salisbury to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Salisbury. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.25-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	1985	State and Local	Code Enforcement Officer, Floodplain Administrator
<b>Zoning/Land Use Code</b>	Yes	1996	Local	Code Enforcement Officer, Floodplain Administrator
<b>Subdivision Ordinance</b>	Yes	1996	Local	Planning/Zoning Board of Appeals
<b>Site Plan Ordinance</b>	No	-	-	-
<b>Stormwater Management Ordinance</b>	No	-	Local	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent

*How has or will this be integrated with the HMP and how does this reduce risk?*

In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
<b>Growth Management</b>	No	-	Local	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	Flood Prevention Law	Federal, State, County and Local	
<b>Wellhead Protection</b>	No	-	-	-
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	No	-	-	-
<b>Planning Documents</b>				
<b>Comprehensive Plan</b>	Yes	-	-	-
<b>Capital Improvement Plan</b>	No		-	-
<b>Disaster Debris Management Plan</b>	No	-	-	-
<b>Floodplain Management or Watershed Plan</b>	No	-	-	-
<b>Stormwater Management Plan</b>	No	-	-	-
<b>Open Space Plan</b>	No	-	-	-
<b>Urban Water Management Plan</b>	No	-	-	-
<b>Habitat Conservation Plan</b>	No	-	-	-
<b>Economic Development Plan</b>	No	-	County	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	Yes	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-



## Development and Permitting Capability

The table below summarizes the capabilities of the Town of Salisbury to oversee and track development.

**Table 9.25-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Code Enforcement
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain development permits
Do you have a buildable land inventory?	No	
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Salisbury and their current responsibilities that contribute to hazard mitigation.

**Table 9.25-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	
Zoning Board of Adjustment	Yes	
Planning Department	No	
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Public Works/Highway Department	Yes	
Construction/Building/Code Enforcement Department	Yes	
Emergency Management/Public Safety Department	No	
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	Yes	Radio



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Contracted out
Mutual aid agreements	Yes	Fulton County
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	
Other	No	
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	
Engineers or professionals trained in building or infrastructure construction practices	Yes	Architects and engineers
Planners or engineers with an understanding of natural hazards	No	
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	
Environmental scientist familiar with natural hazards	No	
Surveyor(s)	No	
Emergency Manager	Yes	Fire Chief
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	
Other (this could include stormwater engineer, environmental specialist, etc.)	No	

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Salisbury.



**Table 9.25-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Salisbury.

**Table 9.25-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	
Personnel skilled or trained in website development	No	
Hazard mitigation information available on your website	No	No website.
Social media for hazard mitigation education and outreach	No	
Citizen boards or commissions that address issues related to hazard mitigation	No	
Warning systems for hazard events	Yes	
Natural disaster/safety programs in place for schools	No	
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Salisbury.



**Table 9.25-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	-		
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No		
Storm Ready Certification	No		
Firewise Communities classification	No		
Other			

Note:

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.25-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.25.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.



## National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Salisbury.

**Table 9.25-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Salisbury	7	4	\$349,450	0	0	0	Not Available

Source: FEMA, 4/21/23

Notes: Claims and policy data accessed from HUDEX accessed 2.2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

## Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Salisbury.

**Table 9.25-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Yes, permitting is recorded
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Done through Highway Superintendent 4 million in roads
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Yes
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes Department



NFIP Topic	Comments
Are any certified floodplain managers on staff in your jurisdiction?	Yes
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	No
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review; outsourced to engineering firm
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Engineering reviews
What are the barriers to running an effective NFIP program in the community, if any?	None
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	6/9/2022
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	1985
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Yes, meets requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

### 9.25.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.25–11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.25-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	4	0	5	0	5	0	11	0	6	0	11	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total New Construction Permits Issued</b>	<b>4</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>11</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
None Identified												
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
None Identified												

SFHA Special Flood Hazard Area (1% flood event)

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

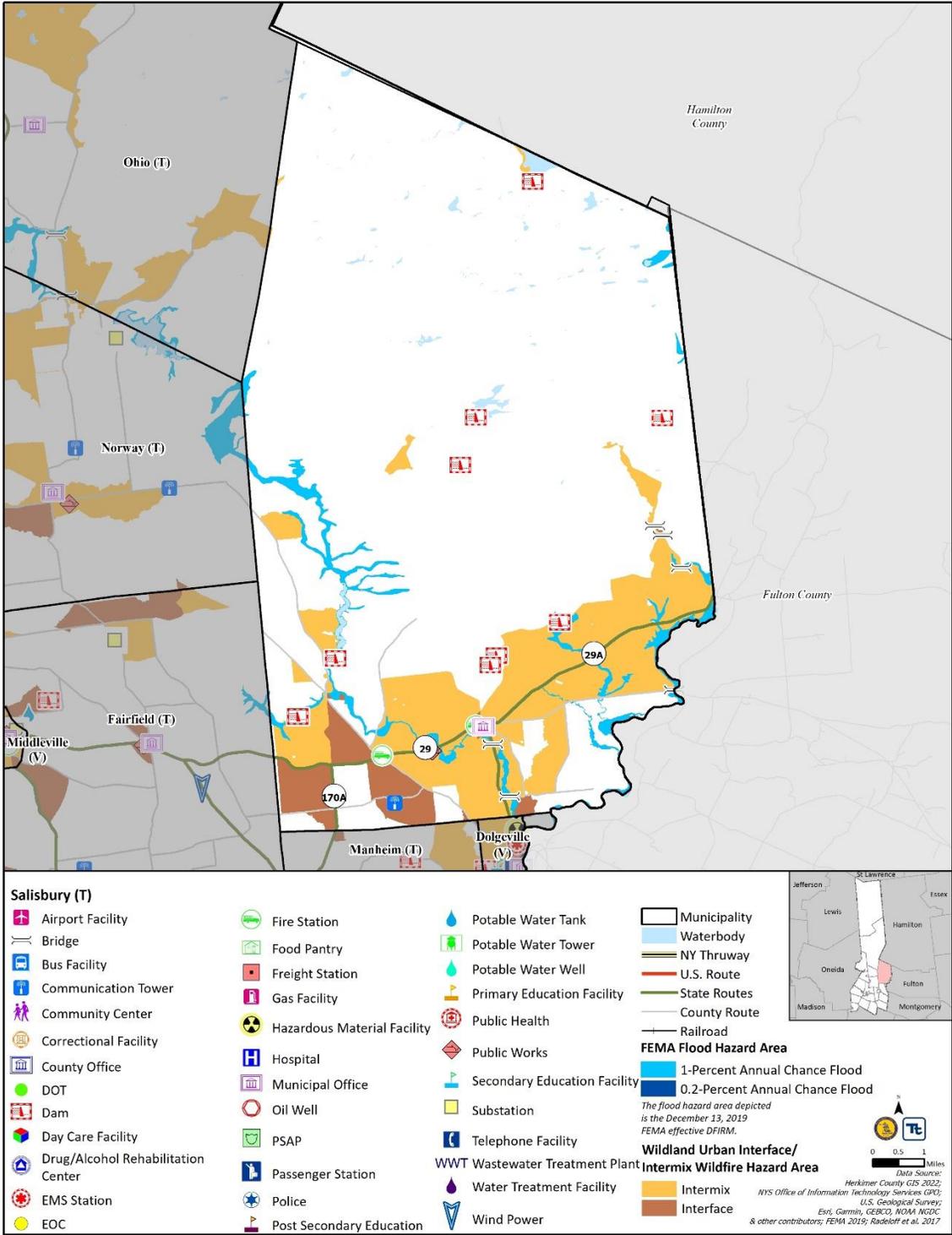
### 9.25.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Salisbury’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Salisbury has significant exposure are provided.



Figure 9.25-1. Town of Salisbury Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Salisbury’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.25-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.25-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	
January 2020 – ongoing	Covid-19 Pandemic	Yes		
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Salisbury’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Salisbury. The Town of Salisbury reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- Changed Flood ranking from medium to high because of the Spruce Lake Dam.
- Changed Wildfire from medium to low due to no current issues with wildfire.
- Changed Infestation from low to medium due to the ash borer and purple wasp impacts.

**Table 9.25-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Medium
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Medium
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.25-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Beaver Creek Dam	Dam	X	X	Not Applicable – see bullet below	Unknown
Bingham Mills Rd bridge over Trammel Creek	Bridge	X	X	2023-Town of Salisbury-010	Unknown
Emmonsburg Rd bridge over East Canada Creek	Bridge	X	X	2023-Town of Salisbury-010	Unknown
Hopson Rd bridge over Spruce Creek	Bridge	X	X	2023-Town of Salisbury-010	Unknown
NY Route 29 bridge over Spruce Creek	Bridge	X	X	2023-Town of Salisbury-010	Unknown

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Salisbury:

- Beaver Creek Dam is a low hazard dam owned by the City of Little Falls and is located in Dolgeville.
- Spruce Lake Dam is an intermediate hazard dam and is located in and owned by the City of Little Falls. It has the potential to impact the campground in the Town of Salisbury.

### Identified Issues

After review of the Town of Salisbury’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Salisbury identified the following vulnerabilities within their community:



- Many minor washouts and minor flooding from recent rain storms.
- Biggest issue is dam on Spruce lake which is the property of the City of Little Falls. Residents at lake and camp ground are concerned.
- All town culverts are under code. All need re-design for increased capacity. There is a culvert inventory. And they will establish a priority list.
- Trammel Creek (2019 flood and bridge wash out–fema did a hydraulic study and it has been re-built) and East Canada Creek–Cemetery Rd. major flood-induced landslide and will close the road. It will be a dead-end road. Spruce Creek–Kingsley Bridge applied for county and state grant to be replaced, Stony Brook–in Adirondack Park–huge culvert which was washed out in the 2019 flood. The capacity needs to be increased to 21-foot capacity. Currently there is an issue as trees are washed out and plug the culvert.
- Need salt shed working with FEMA to fund.
- Diamond hill road this is a county road, work with county to protect the road from creek.\*

*\*This issue was identified as a specific area of concern based on resident response to the Herkimer County Hazard Mitigation Citizen survey.*

## 9.25.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

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The Town of Salisbury did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Additional Mitigation Efforts

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The Town of Salisbury identified the following mitigation efforts completed since 2017:

- Currently the Town is implementing a \$1.9M project to mitigate a major washout on Cemetery Road which is town owned. Due to the washout, residents need to detour. The goal is to create a dead end at both ends of road and create turnarounds to enable egress to Marion Rd and Rt 29 A. The Town is awaiting funding from FEMA.

### Proposed Hazard Mitigation Initiatives for the HMP Update

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The Town of Salisbury had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer



County Office of Emergency Services as well as the contract consultant provided individualized support to develop the Town’s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.25-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature		X		X			X		X	
Drought	X	X		X			X		X	
Flood	X	X	X	X	X		X	X	X	
Severe Storm	X	X	X	X	X		X	X	X	
Severe Winter Storm	X	X	X	X	X		X	X	X	X
Wildfire	X	X		X	X		X		X	
Infestation	X	X		X	X		X		X	
Dam Failure	X	X		X	X		X		X	
Disease Outbreak		X		X			X		X	

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.25-16).

The table below summarizes the specific mitigation initiatives the Town of Salisbury would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.25-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Town of Salisbury-001	Cemetery Road Washout	1	Flood	<p><b>Problem:</b> There was a major washout on Cemetery Road and residents need to detour.</p> <p><b>Solution:</b> There is an in-progress project - \$1.9M to mitigate the washout. The goal is to create a dead end at both ends of road and create turnarounds to enable egress to Marion Rd and Rt 29 A-awating funding from FEMA.</p>	No	No	Less than 5 Years	Highway Department, Town Administration	\$1.9 Million	The Town will not have flood issues with that part of Cemetery Road.	FMA, BRIC, HMGP, Town Budget	High	SIP	SP
2023-Town of	Spruce Lake Dam	1, 5	Flood, Dam Failure	<p><b>Problem:</b> The Spruce</p>	Yes	No		City of Little Falls,	Staff Time	The Town will be	FMA, HMGP,	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Salisbury-002	Coordination			<p>Lake Dam is located in the City of Little Falls and would greatly impact the Town if the dam were to fail.</p> <p><b>Solution:</b> The Town will work with the City and County to develop increased communication regarding the status of the dam and will develop an emergency action plan to protect their residents.</p>			Less than 2 Years	County, Town of Salisbury Administration with support of USACE.		better informed and prepared regarding the Spruce Lake Dam.	City/Town Budget			
2023-Town of Salisbury-003	Culvert Study and Upgrade	1	Flood, Severe Storm, Severe Winter Storm	<b>Problem:</b> There is a new Culvert sizing regulation that has	No	No	5 Years	FPA, Town Administration	TBD after Study	The Town will experience reduced flooding.	FMA, BRIC, HMGP, Town Budget	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>been implemented and none of the Town's culverts are large enough to meet the regulation.</p> <p><b>Solution:</b> The Town will conduct a study to evaluate structure and status of all of their culverts and will upsize them in the most cost-effective manner.</p>										
2023-Town of Salisbury-004	Shelter Outreach	1, 2	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure,	<b>Problem:</b> The Town residents are unaware of the shelter capabilities that the Town	Yes	No	Less than 1 year	Town Administration	Staff Time	The Town residents will be more knowledgeable of their options in	Town Budget	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Disease Outbreak	<p>possesses. This puts residents that need certain sheltering capabilities at risk.</p> <p><b>Solution:</b> The Town will create brochures and update a webpage to include sheltering information, including those with backup power, medical supplies, disease outbreak supplies, water supplies and heating/cooling capabilities.</p>						terms of shelters.				
2023-Town of	Town Hall and	1, 3	Extreme Temperature,	<b>Problem:</b> The Town	Yes	No		Town Administrati	>\$100,000 per	The Town will be able	BRIC, HMGF,	High	SIP	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Salisbury-005	Highway Garage Generators		Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p>Hall and Highway Garage do not have permanent generators to allow continuity of operations during extreme hazard events.</p> <p><b>Solution:</b> The Town will conduct a generator study and will implement the correct sized generators. The Town will also conduct routine maintenance on the generators.</p>			Less than 5 years	Town, Highway Department, Engineer	generator	to perform continuity of operations during hazard events.	Town Budget			
2023-Town of	Debris Management Plan	1, 3	Flood, Severe Storm,	<b>Problem:</b> The Town does not	No	No	1 Year	Town Administration	Staff Time	The Town will be better	Town Budget	High	LP R	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Salisbury-006			Severe Winter Storm, Wildfire, Infestation, Dam Failure	<p>have a developed Debris Management Plan that addresses the hazards of concern.</p> <p><b>Solution:</b> The Town will develop a Debris Management Plan and will integrate the current HMP.</p>						prepared on how to deal with debris as it relates to hazards.				
2023-Town of Salisbury-007	Salt Shed	1	Severe Winter Storm	<p><b>Problem:</b> The Town does not have a salt shed which makes responding to incoming winter storms difficult and more time consuming.</p> <p><b>Solution:</b> The Town will construct a salt shed</p>	No	No	Less than 5 Years	Highway Department	>\$100,000	The Town will be able to respond to winter storms more quickly and efficiently.	HMGP, BRIC, Town Budget	High	SIP	ES



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				near the highway department for easy and quick access to be able to respond to winter storms in a timely fashion.										
2023-Town of Salisbury-008	Spruce Creek Bank Stabilization	1, 4	Flood, Severe Winter Storm, Severe Storm	<p><b>Problem:</b> The Town experiences flooding and erosion along the Spruce Creek bank.</p> <p><b>Solution:</b> The Town will work with the County and engineers to stabilize the creek bank to reduce flooding after a study is conducted.</p>	No	No	Less than 5 Years	Engineer, County	TBD after engineer study	The Creek bank will not flood as much.	HMGP, BRIC, FMA, Town Budget	High	NSP	NR
2023-Town of		1, 4	Drought	<p><b>Problem:</b> The Town</p>	No	No	1 Year 1		Staff Time	The Town will be	Town Budget	High	LP R	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Salisbury-009	Drought Management Plan			<p>does not have a developed Drought Management Plan.</p> <p><b>Solution:</b> The Town will develop a Drought Management Plan.</p>				Town Administration		better prepared on how to deal with drought.				
2023-Town of Salisbury-010	Bridge Survey and Replacement	1	Flood, Severe Storm	<p><b>Problem:</b> Bridges in the Town are anticipated to be at or near end of useful life.</p> <p><b>Solution:</b> The Town will complete an engineering study to determine the status of Town owned bridges and develop a strategy and schedule</p>	Yes 💧	None	Within 5 years	Engineer	High	Flood risk for critical facilities reduced, critical services protected	HMGP, BRIC, PDM, BridgeNY, Town budget	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				for replacement and improvement Replaced bridges will be built to the 500-year standard.										
2023-Town of Salisbury-011	Infestation Education	2	Infestation	<p><b>Problem:</b> The Town does not currently have an education or outreach regarding infestation and invasive species that impact the Town.</p> <p><b>Solution:</b> The Town will produce brochures and create educational outreach for property owners to reduce infestation.</p>	No	No	1 Year	Town Administration	Staff Time	The Town will be better educated and prepared to handle infestation events.	Town Budget	High	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Town of Salisbury-012	Trammel Creek Flood Mitigation	1,4	Flood	<p><b>Problem:</b> There is persistent flooding in the vicinity of Bingham Mills Rd at Trammel Creek.</p> <p><b>Solution:</b> The Town will conduct a study to determine the preferred alternative to reduce flooding at Bingham Rd. at Trammel Creek. The Town will look to leverage pre-disaster mitigation funding to support implementation of the project.</p>	No	No	Within 5 years	Town Highway Dept. and Town Administration	Medium	Flood impacts to Bingham Rd. will be reduced or eliminated.	FMA, BRIC, HMGP, Town Budget	High	SI P	SP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Town of Salisbury-013	Community Outreach	1, 2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> The town would like to improve community outreach or warning systems in place.</p> <p><b>Solution:</b> The Town will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide</p>	No	No	1-2 years	Public Safety	Low	High	Town Operating Budget	Medium	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the Town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information</p>										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				on infestation hazards will also be provided on the website.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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



CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.25-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Town of Salisbury-001	Cemetery Road Washout	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2023-Town of Salisbury-002	Spruce Lake Dam Coordination	1	1	1	1	1	1	1	1	1	1	1	1	1	0	13	High
2023-Town of Salisbury-003	Culvert Study and Upgrade	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2023-Town of Salisbury-004	Shelter Outreach	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2023-Town of Salisbury-005	Town Hall and Highway Garage Generators	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2023-Town of Salisbury-006	Debris Management Plan	0	1	1	1	1	1	1	1	1	1	1	1	1	0	12	High
2021-Town of Salisbury-007	Salt Shed	1	1	1	1	1	1	0	0	1	1	1	1	1	1	12	High
2023-Town of Salisbury-008	Spruce Creek Bank Stabilization	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2023-Town of Salisbury-009	Drought Management Plan	1	1	1	1	1	1	1	1	1	1	0	1	1	0	12	High
2023-Town of Salisbury-010	Bridge Survey and Replacement	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2023-Town of Salisbury-011	Infestation Education	1	1	1	1	1	0	0	1	1	1	0	0	0	1	9	High
2023-Town of Salisbury-012	Trammel Creek Flood Mitigation	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High



Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Town of Salisbury-013	Public Outreach	1	1	1	1	1	0	0	0	1	0	1	1	0	0	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.26 TOWN OF SCHUYLER

This section presents the jurisdictional annex for the Town of Schuyler that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Schuyler’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.26.1 Hazard Mitigation Planning Team

The Town of Schuyler identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including supervisor’s office. The town supervisor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.26-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Anthony J. Lucenti – Town Supervisor</b> Address: <b>2090 State Route 5, Utica, NY 13502</b> Phone Number: <b>(315) 733-7425</b> Email: <b>supervisor@townofschuyler.org</b>	Name/Title: <b>Ronald Beach – Deputy Town Supervisor</b> Address: <b>2090 State Route 5, Utica, NY 13502</b> Phone Number: <b>(315) 725-0578</b> Email: <b>rbeach@hanger.com</b>
<b>NFIP Floodplain Administrator</b>	
Name/Title: <b>Phillip Green, Codes and Zoning Enforcement Officer</b> Address: <b>2090 State Route 5, Utica, NY 13502</b> Phone Number: <b>(315) 534-2232</b> Email: <b>pgreen@cityoflittlefalls.net</b>	
<b>Additional Contributors</b>	
Name/Title: <b>Ron Beach, Deputy Supervisor</b> Method of Participation: <b>Contributed to the town capability assessment</b>	



## 9.26.2 Municipal Profile

The Town of Schuyler includes 3,420 persons and 1,590 households according to the 2010 Census. There are 1,259 owner occupied, 208 renter occupied, and 123 vacant housing units in the Town. These persons and housing units are spread over 40.2 square miles. Since 1960, the Town's housing population has increased by almost 80 percent. Almost 40 percent of the Town's population is low income and 46 percent of the housing units are mobile homes.

Commercial uses are concentrated along the State Route 5 corridor. This corridor includes a mix of restaurants, heavy and highway commercial operations, and lodging facilities. Intermixed among the commercial uses are agricultural operations and residences. The Schuyler Business Park is also located in the geographic center of the Route 5 corridor.

Agricultural and low-density residential uses comprise much of land uses in the Town outside of the Route 5 corridor.

According to the U.S. Census, the 2020 population for the Town of Schuyler was 3,296, a 3.8 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 3.3 percent of the population is 5 years of age or younger and 22.4 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 13.24% of the population does not have a high school diploma
- 14.80% of the population has a disability
- 11.99% of households do not have a vehicle
- 9.85% of the population is living below the poverty level
- 3.84% of the population is unemployed

## 9.26.3 Jurisdictional Capability Assessment and Integration

The Town of Schuyler performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.



- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Schuyler to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Schuyler. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.26-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Schuyler has adopted the New York State Uniform Fire Prevention and Building Codes. The adoption and enforcement of building codes relates the design and construction of structures to standards established for withstanding a variety of forces. All structures built after 2002 must comply with the IBC code, which includes provisions for building in the floodplain. NYS set a freeboard standard of two feet above base flood elevation.				
Zoning/Land Use Code	Yes	Town of Schuyler Zoning Ordinance	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Discusses the zoning of the Town, which structures are permitted to be constructed in each zone, flood management restrictions, and other regulations. Zoning keeps inappropriate development away from hazard-prone areas and designates areas for conservation, public use, or agriculture. Communities can designate areas as “open space” to reducing the effect of flooding by allowing spaces for water to flow unimpeded.				
Subdivision Ordinance	No	-	-	-
Site Plan Ordinance	Yes	Town of Schuyler Zoning Ordinance	Local	Code Enforcement Officer



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The site plan requirements provide a consistent and uniform method of review of proposed development plans, to ensure full compliance with the regulations and other applicable ordinances and state and Federal laws, to achieve efficient use of the land, to protect natural resources, and to prevent adverse impact on adjoining or nearby properties.				
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes	Local Law No. 1 of the year 2001	-	-
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<i>Planning Documents</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Comprehensive Plan	Yes	Town of Schuyler Comprehensive Plan - 2018	Local	Town Planning Board

*How has or will this be integrated with the HMP and how does this reduce risk?*

The Town Comprehensive Plan is intended to summarize and record the natural and historic assets of the Town of Schuyler and document its essentially rural residential and agricultural character; provide guidelines for the preservation of the Town's assets in a manner compatible with orderly economic growth; and provide a basis for creating a detailed Land Use Ordinance to guide the future development of the town.

Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Schuyler to oversee and track development.



**Table 9.26-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Codes Department
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Codes Department
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	Commercial uses are concentrated along the State Route 5 corridor. This corridor includes a mix of restaurants, heavy and highway commercial operations, and lodging facilities. Intermixed among the commercial uses are agricultural operations and residences. The Schuyler Business Park is also located in the geographic center of the Route 5 corridor. Agricultural and low-density residential uses comprise much of land uses in the Town outside the Route 5 corridor.

**Administrative and Technical Capability**

The table below summarizes potential staff and personnel resources available to the Town of Schuyler and their current responsibilities that contribute to hazard mitigation.

**Table 9.26-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The 7-member Planning Board and its secretary are appointed by the Town Board. Regular Meetings are held on the 1st Wednesday of each Month at 6 P.M. (6:15 P.M. during winter months).
Zoning Board of Adjustment	Yes	The 5-member Zoning Board of Appeals and its secretary are appointed by the Town Board. Zoning Board of Appeals hearings are usually scheduled for Thursday evenings at 6:00 or 6:30 P.M. Notices of all public hearings will be published in the Times Telegram 10 days in advance of hearing.
Planning Department	No	-
Mitigation Planning Committee	Yes	Public Safety Committee
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The elected office of Highway Superintendent in Schuyler is a 4-year term. The Highway Superintendent also serves as the Town's representative on the Oneida County Sewer Commission. The crew is responsible for maintaining all town roads, and the Town contracts with Herkimer County for plowing county roads located in the town each winter.
Construction/Building/Code Enforcement Department	Yes	The codes officer makes inspections on a regular basis and will be issuing summonses for violations of all infractions of NYS Codes and Town Zoning Enforcement Regulations, answerable in Schuyler Town Court. The Codes & Zoning Officer, appointed by the Town Board, enforces the codes and zoning ordinances of the Town, and performs building and fire codes inspections, and handles flood plain administration issues.
Emergency Management/Public Safety Department	Yes	Public Safety Committee
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Highway Department is responsible for maintaining all town roads, and the Town contracts with Herkimer County for plowing county roads located in the town each winter
Mutual aid agreements	Yes	Fire Companies and Highway Departments
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	Yes	Grant writer is contracted.  <i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications? Yes.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Schuyler’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Town. Together, the capabilities allow the Town to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Schuyler.

**Table 9.26-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes

**Education and Outreach Capability**

The table below summarizes the education and outreach resources available to the Town of Schuyler.



**Table 9.26-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Town Clerk
Personnel skilled or trained in website development	Yes	Clerk
Hazard mitigation information available on your website	Yes	The Emergency Management tab links users to the fire company and ambulance service webpage(s) and has information on Herkimer County’s emergency alert system; the Town website also has information on stormwater management.
Social media for hazard mitigation education and outreach	Yes	The Town and Schuyler Ambulance/Fire Company both have a Facebook pages which are used to share information on hazard mitigation and impending weather.
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Public Safety Committee
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? • If yes, please describe.	No	-

**Community Classifications**

The table below summarizes classifications for community programs available to the Town of Schuyler.

**Table 9.26-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	44Y	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note: At the time of this annex being written, the Town was unable to determine the date of classification for their participation in the Public Protection program.

N/A Not applicable

- Unavailable



## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

The Town increased its adaptive capacity for the Severe Winter Storm hazard from Moderate to Strong due to current maintenance programs, snow removal programs, and experience during severe winter storm events.

**Table 9.26-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.26.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Schuyler.

**Table 9.26-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Town of Schuyler	4	3	\$36,402	0	0	0

Source: FEMA, accessed 4/21/23  
 Notes: Policy data per HUDEX accessed 2/2023



RL Repetitive Loss  
 SRL Severe Repetitive Loss  
 RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.  
 RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Schuyler.

**Table 9.26-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Along Rt.5, thruway & canal corridor
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Yes
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	1 mobile property elevated about 5 years ago
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Flood map June 2001-not adequate
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Codes department
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	The floodplain management staff is open to all education opportunities.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Inspections



NFIP Topic	Comments
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Codes department
What are the barriers to running an effective NFIP program in the community, if any?	Funding and staff
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? • If so, state the violations.	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	11/1/2019
What is the local law number or municipal code of your flood damage prevention ordinance? • What is the date that your flood damage prevention ordinance was last amended?	Local Law No. 1 of the year 2001
Does your floodplain management program meet or exceed minimum requirements? • If exceeds, in what ways?	Meets the minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Planning review of SWPPP Town of Schuyler Zoning Ordinance delineates flood districts and uses.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

### 9.26.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.26-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.26-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	11	0	17	0	19	0	11	0	8	0	16	0
Multi-Family												
Other (commercial, mixed-use, etc.)	1	0	1	0	1	0	0	0	2	0	1	0
<b>Total New Construction Permits Issued</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>17</b>	<b>0</b>
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
Schuyler Business Park	Commercial	5		Rt.5		Flood		Parcel of land purchased to add 188 acres to the Schuyler Business Park. Land was developed into commercial property and an access road.				
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>												
There are no known or anticipated major development and infrastructure in the next five (5) years.												

SFHA Special Flood Hazard Area (1% flood event)

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

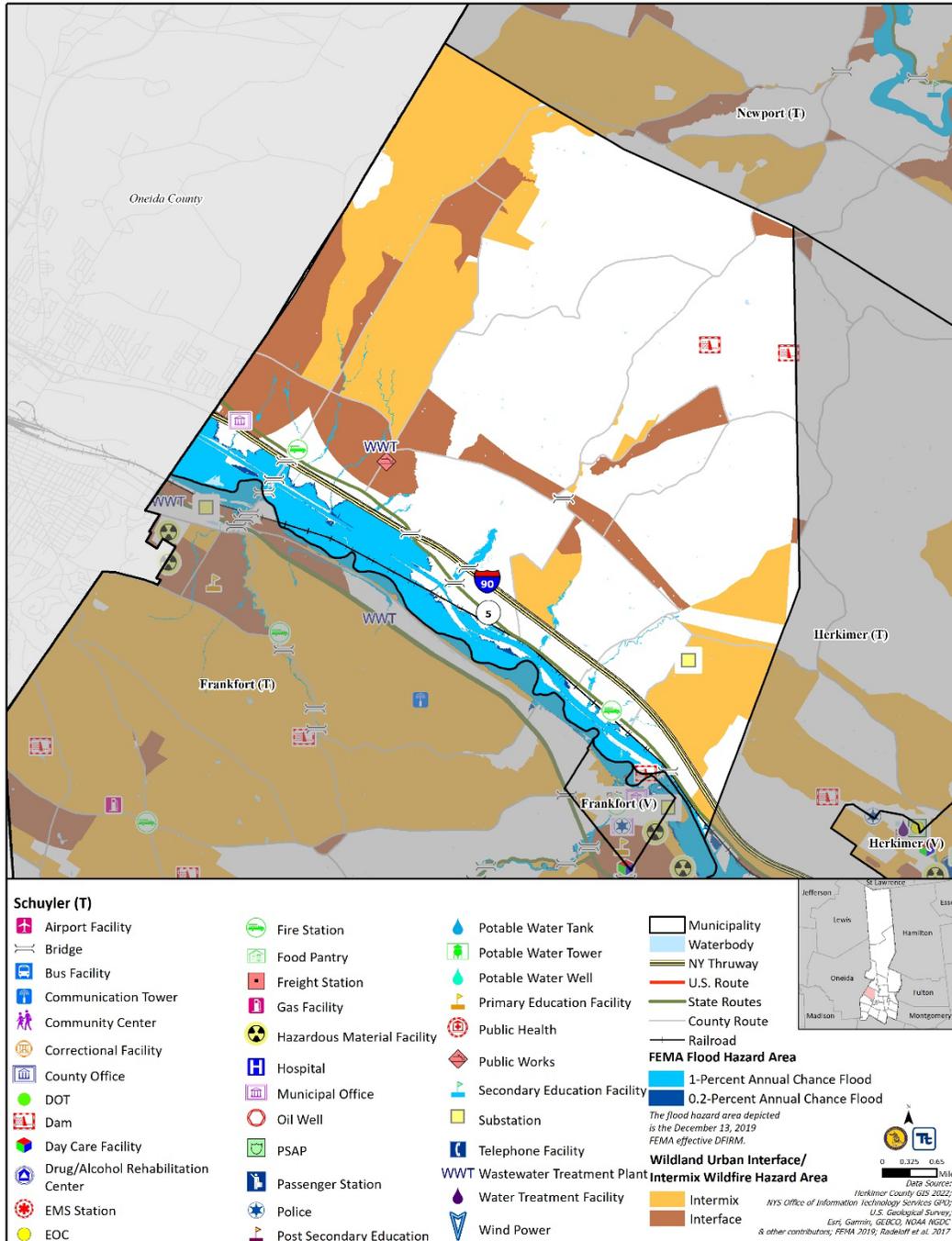
### 9.26.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Schuyler’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Schuyler has significant exposure are provided.



Figure 9.26-1. Town of Schuyler Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Schuyler’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.26-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.26-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	The Town did not incur any damages or losses.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Route 5S was closed near Mucky Run Road, between Windfall Road and Drive-In Road, between Newport Road and Millers Grove Road due to flooding. Water was flowing over the West Main Street bridge.
January 2020 – ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	Town dispersed PPE and pushed out education. Reported cases and deaths were not available for the Town of Schuyler.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	The Town did not incur any damages or losses.
July, 2023	Severe Storm, Flood	N/A	Slow moving storms produced over five inches of rain in just a	Several homes flooded in Sterling Creek in mobile



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			couple hours, causing impassable roads covered in debris. Countless basements were flooded throughout the region.	home area. Dutchtown Road bridge was flooded, the Creek was redirected; trailers and vehicles ended up in the water.

Source:

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

N/A Not applicable

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Schuyler’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Schuyler. The Town of Schuyler reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The hazard ranking for Flood should be increased from Low to High. The Town experiences flooding regularly from the Sterling and Bridenbecker Creek. Roads surrounding these creeks, and properties near the creeks, become impacted by floodwaters.
- The hazard ranking for Infestation should be lowered from Medium to Low. The Town has not experienced much, of any, damages or losses from invasive species and/or plants.



- The hazard ranking for Dam Failure should be increased from Low to Medium. Although the likelihood of a significant dam failure is low, due to the Town’s proximity to the Delta Lake Dam Dam in City of Rome, Oneida County, as well as and the Hinckley Dam in the Village of Hinckley, Oneida County, the Town opted to increase the hazard ranking.

**Table 9.26-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	High
Severe Storm	High
Severe Winter Storm	High
Wildfire	Low
Infestation	Low
Dam Failure	Medium
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

**Critical Facilities**

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.26-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action*	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Dyke Road bridge over Mohawk River	Bridge	X	X	2023-Schuyler-010	N/A



Name	Type	Exposure		Addressed by Proposed Action*	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Frankfort Recreational Dams #1 & #2	Safety & Security	X	X	2023-Schuyler-010	-
NY Route 5 bridge over Sterling Creek	Transportation	X	X	2023-Schuyler-010	N/A
NY Thruway bridge over Sterling Creek - Eastbound	Transportation	X	X	2023-Schuyler-010	N/A
NY Thruway bridge over Sterling Creek - Westbound	Transportation	X	X	2023-Schuyler-010	N/A

Source: Herkimer County 2023

\*The Town acknowledges the asset as a critical facility and will work with the identified owner to incorporate resiliency recommendations during scheduled infrastructure upgrades to reduce the impact and consequences of flooding, scour, and erosion.

There are two bridges which cross over the Mohawk River and the Erie Canal. The bridge crossing the Mohawk River on Dyke Road is owned, operated, and maintained by the New York State Thruway Authority, therefore no mitigation actions have been identified. The bridge crossing the Erie Canal on Dyke Road is owned, operated, and maintained by Herkimer County, therefore no mitigation actions have been identified.

The Frankfort Recreational Dams #1 & #2, both low-hazard dams, are owned, operated, and maintained by the New York State Canal Corporation, therefore no mitigation actions have been identified.

The New York Route 5 bridge over Sterling Creek is owned, operated, and maintained by the New York State Department of Transportation, therefore no mitigation actions have been identified.

New York Thruway bridge over Sterling Creek, east and westbound, are owned, operated, and maintained by the New York State Thruway Authority, therefore no mitigation actions have been identified.

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Schuyler:

- Delta Lake Dam in the City of Rome, Oneida County
- Hinckley Dam in the Village of Hinckley, Oneida County

### Identified Issues

After review of the Town of Schuyler’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Schuyler identified the following vulnerabilities within their community:



- Sterling Creek frequently floods, impacting a mobile home park, the creek bed, and roadways.
- Floods from Sterling Creek result in the creek becoming inundated with debris such as gravel, vehicles, farming equipment, and trash, etc.
- Culverts are undersized throughout Town and contribute to flooding.
- While the Town Hall has been identified as the sheltering location, sheltering supplies such as blankets and pillows, are not available.
- The Town lacks the equipment cache needed to block off multiple roadways at once.
- The center of Town floods the heaviest, separating the two sides of Town during flood events.
- Fire Station #2, a critical facility, does not have a back-up generator.

### 9.26.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The Town of Schuyler did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

#### Additional Mitigation Efforts

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The Town of Schuyler identified the following mitigation efforts completed since 2017:

- A back-up emergency generator has been installed at the fire house, Town Hall, and the highway department. Backup at fire house.
- Orbele Road, Osbourne Hill Road, and Caldwell Road have all had the size of culverts increased to mitigate flood impacts, as all three roads had experienced washouts.
- Town hall had been identified as the Town shelter, heating and cooling, and reception center location.
- The Town was able to purchase substantial personal protective equipment (PPE) for the COVID outbreak and implemented a work policy to mitigate the spread of the outbreak.
- The Town has implemented a strong maintenance program for locally managed roadways, vegetation, and infrastructure.

#### Proposed Hazard Mitigation Initiatives for the HMP Update

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The Town of Schuyler participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation



planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.26-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature		X		X			X			X
Drought				X			X			
Flood	X	X	X	X	X	X	X	X	X	X
Severe Storm	X	X	X	X	X		X	X	X	X
Severe Winter Storm	X	X	X	X	X		X	X		X
Wildfire	X	X		X	X		X			X
Infestation				X			X			
Dam Failure	X	X		X	X		X			X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.26-16).

The table below summarizes the specific mitigation initiatives the Town of Schuyler would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.26-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Schuyler-001	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p> <p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial Damage Response Plan.</p>	No	No	5 years	Zoning/Cod e Enforcement	Medium	Medium	HMGP	Medium	LPR	PR
2023-Schuyler-002	Increase NFIP Capabilities	1, 2	Flood	<p><b>Problem:</b> Repetitive loss residences and Critical Facilities are located in the Floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of</p>	No	No	1 year	Zoning/Cod e Enforcement	Low	Medium	HMGP, FMA, Local Funds	Medium	LPR	PI, PP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				property owners who are interested in flood mitigation.										
2023-Schuyler-003	CRS Program	1, 2, 3	Flood	<p><b>Problem:</b> Portions of the Town are in the floodplain.</p> <p><b>Solution:</b> Explore feasibility of joining the CRS program.</p>	No	No	1 year	Zoning/Cod e Enforcement	Low	High	Local Funds	Medium	EAP	PI
2023-Schuyler-004	Critical Facility Back-Up Generator	1	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> Fire Station #2, a critical facility, does not have a back-up generator.</p> <p><b>Solution:</b> Identify and install the correct size generator for Fire Station #2.</p>	Yes	Yes	2 to 3 years	Zoning/Cod e Enforcement, Town Board	Medium	High	BRIC, HMGP	Medium	SIP	ES
2023-Schuyler-005	Outreach/education for all hazards	1, 2, 3	Extreme Temperature, Drought, Flood,	<p><b>Problem:</b> Residents are not fully aware of all hazards which may impact them and how to</p>	No	No	1 year	Zoning/Cod e Enforcement, Town Board	Low	High	BRIC, HMGP, Local Funds	High	EAP	PI



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
			Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p>respond or prepare.</p> <p><b>Solution:</b> The Town will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational</p>										



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										
2023-Schuyler-006	Creek Clean-Out	3, 4	Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> Floods from Sterling Creek result in the creek becoming inundated with debris such as gravel, vehicles, farming equipment, and trash, etc.</p> <p><b>Solution:</b> Implement a Creek Clean-Up</p>	No	Yes	1 to 2 years	Town Board	Medium	High	Local Funds, BRIC, WQIP	High	NSP	NR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				for Sterling Creek.										
2023-Schuyler-007	Culvert Capacity Increase	1	Flood, Severe Storm	<p><b>Problem:</b> Culverts are undersized throughout Town and contribute to flooding.</p> <p><b>Solution:</b> Replace the undersized culverts with new culverts at least 20% above current capacity.</p>	No	Yes	5 years	Highway Department	High	High	BRIC, HMGP, BRIDGE NY	High	SIP	SP
2023-Schuyler-008	Strengthen Highway Mutual Aid	1, 3	Flood, Severe Storm	<p><b>Problem:</b> The Town lacks the equipment cache needed to block off multiple roadways at once.</p> <p><b>Solution:</b> Work with current mutual aid partners to determine how to strengthen the cache of</p>	No	No	1 year	Highway Department	Low	Medium	Local Funds	High	LPR	PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				roadway equipment.										
2023-Schuyler-009	Creek Flood Study	1, 4	Flood	<p><b>Problem:</b> Sterling Creek frequently floods, impacting a mobile home park, the creek bed, and roadways.</p> <p><b>Solution:</b> Conduct a study to identify the cause of the flooding at Sterling Creek and how to mitigate future flood events.</p>	No	No	4 to 5 years	Zoning/Cod e Enforcement, Town Board	High	High	HMGP, BRIC, WQIP	Medium	NSP	NR
2023-Schuyler-010	Critical Facility Owner Outreach	1,2	Flood	<p><b>Problem:</b> Three bridges and two dams located within the regulatory floodplain and proper level of protection to flood events must be determined.</p>	Yes	No	Short	Dept of Emergency Services with support from Department of Public Works	Low	Increased critical facility resilience, reduction of interruption of services	Operating Budget	Medium	LP R	PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> The Town will contact asset owners to discuss options to incorporate resiliency recommendations during scheduled infrastructure upgrades to reduce the impact and consequences of flooding, scour, and erosion.										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program
- WQIP Water Quality Improvement Project Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes 💧 Critical Facility located in 1% floodplain



## Section 9.26. Town of Schuyler

### Mitigation Category:

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

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.26-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Schuyler-001	Develop Substantial Damage Response Plan	0	1	1	1	0	1	0	1	0	0	1	1	0	0	7	Medium
2023-Schuyler-002	Increase NFIP Capabilities	0	1	1	1	0	1	1	0	0	1	0	1	0	0	7	Medium
2023-Schuyler-003	CRS program	0	1	1	1	0	1	1	0	1	1	0	1	0	0	8	Medium
2023-Schuyler-004	Critical Facility Back-Up Generator	1	1	1	1	1	1	0	-1	0	0	1	1	0	0	7	Medium
2023-Schuyler-005	Outreach/education for all hazards	1	1	1	1	0	1	1	0	1	0	1	1	0	0	9	High
2023-Schuyler-006	Creek Clean-Out	0	1	1	1	0	1	1	1	0	1	1	1	0	0	9	High
2023-Schuyler-007	Culvert Capacity Increase	0	1	1	1	1	1	0	1	0	1	0	1	1	1	10	High
2023-Schuyler-008	Strengthen Highway Mutual Aid	0	0	1	1	1	1	1	0	0	1	1	1	1	0	9	High
2023-Schuyler-009	Creek Flood Study	0	0	1	1	0	1	0	1	0	0	0	1	0	0	5	Medium
2023-Schuyler-010	Critical Facility Owner Outreach	1	1	1	1	0	1	0	1	0	0	1	1	0	0	8	Medium

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.27 TOWN OF STARK

This section presents the jurisdictional annex for the Town of Stark that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Stark’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

### 9.27.1 Hazard Mitigation Planning Team

The Town of Stark identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Fire Department, Town Superintendent’s Office, and the Highway Department. The Town Superintendent represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.27-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Richard Bronner – Supervisor Address: P.O. Box 45, Van Hornesville, NY 13475 Phone Number: (315) 858-2740 Email: rbronner@ntcnet.com	Name/Title: David Hajczewski – Highway Superintendent Address: Phone Number: (518) 369-4638 Email: boomer.1970@live.com
<b>NFIP Floodplain Administrator</b>	
Name/Title: Richard Bronner – Supervisor Address: P.O. Box 45, Van Hornesville, NY 13475 Phone Number: (315) 858-2740 Email: rbronner@ntcnet.com	



## 9.27.2 Municipal Profile

The Town of Stark was named in honor of General Stark, of the Revolution, and was formed from Danube, on March 18, 1828. It is located in the south-east corner of Herkimer County. Its geography is hilly and broken, with a mean elevation of 500 feet. The principal streams are Otsquago and Ohisa Creeks. Otsquago Creek flows through a narrow valley, bordered by steep banks from 150 to 200 feet high. The soil is generally a sandy loam in the valleys, and sandy and gravelly on the hills.

According to the U.S. Census, the 2020 population for the Town of Stark was 714, a 6.0 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 7.0 percent of the population is 5 years of age or younger and 13.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

Additionally, the following vulnerability characteristics extracted from the FEMA Resilience Analysis and Planning Tool may be used for planning purposes as the data is available on a census tract basis and may not align with the municipal boundaries.

- 6.77% of the population does not have a high school diploma
- 11.59% of the population has a disability
- 4.01% of households do not have a vehicle
- 8.07% of the population is living below the poverty level
- 2.90% of the population is unemployed

The Town of Stark is home to several historical and cultural assets. According to its Comprehensive Plan, the Town sits on the southern uplands of the Mohawk Valley. Its rolling hills offer panoramic views to the north and east overlooking the valley.

## 9.27.3 Jurisdictional Capability Assessment and Integration

The Town of Stark performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.



For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Town of Stark to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Stark. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.27-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Stark has adopted the New York State Uniform Fire Prevention and Building Codes.				
<b>Zoning/Land Use Code</b>	Yes	Town of Stark Design Guidelines Land Use Local Law #1 4/16/2004	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town Comprehensive Plan discusses the Town zoning and land use.				
<b>Subdivision Ordinance</b>	Yes	Land Subdivision Law 01-93	Local	Planning and Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> These regulations are enacted for the following purposes:				
<ul style="list-style-type: none"> <li>To provide for the future growth and development of the town</li> <li>To afford adequate facilities for housing, transportation, distribution, comfort, convenience, safety, health and welfare</li> <li>To show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> <li>To require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings</li> <li>To assure that the subdivision streets and highways shall be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance</li> <li>To find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire, or other menace.</li> </ul>				
<b>Site Plan Ordinance</b>	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Stormwater Management Ordinance</b>	No	-	-	-
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>	No	-	-	-
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<ul style="list-style-type: none"> <li>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</li> </ul>				
<b>Growth Management</b>	No	-	-	-
<b>Environmental Protection Ordinance</b>	No	-	-	-
<b>Flood Damage Prevention Ordinance</b>	Yes	Local Law #1-1992. Not amended since adoption.	-	-
<b>Wellhead Protection</b>	Yes		Local	Code Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The goal of Wellhead Protection is to protect the ground water sources and wellhead areas that supply public drinking water systems from contamination. The approach to wellhead protection recognizes and includes the existing federal, state, and county programs that protect groundwater and complements these programs through a combination of activities and efforts using existing public and private agencies and organizations at all levels.				
<b>Emergency Management Ordinance</b>	No	-	-	-
<b>Climate Change Ordinance</b>	No	-	-	-
<b>Other</b>	No	-	-	-
<b>Planning Documents</b>				
<b>Design Guidelines</b>	Yes	Town of Stark Land Use Regulations-2004	Local	Town Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	No	-	-	-
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	Yes	Herkimer County, NY: Agricultural and Farmland Protection Plan, July 2020	County	Herkimer County Agricultural and Farmland Protection Board

*How has or will this be integrated with the HMP and how does this reduce risk?*

This Plan establishes a forward-thinking vision for agriculture in The County that focuses on enhancing local farms and foods; retaining, diversifying, and expanding farms; and enhancing processing and distribution to make more local foods accessible in Herkimer County communities. This Plan’s goals seek to increase farm resiliency and viability, attract new



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
food processing businesses, improve awareness of local food and farm products in the County, enhance the promotion and marketing of farms and farm products, and increase value-added farm operations.				
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
Continuity of Operations Plan	No	-	-	-
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	No	-	-	-
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Stark to oversee and track development.

**Table 9.27-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	Yes	Town Board



Indicate if your jurisdiction implements the following	Yes/No	Comment:
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	Codes Office and Planning Board and Town Board
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	floodplain development permits
Do you have a buildable land inventory?	No	-
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Stark and their current responsibilities that contribute to hazard mitigation.

**Table 9.27-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	Planning Board acts as an advisory Board to Town Board
Zoning Board of Adjustment	Yes	Town Board
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	Town Board on a limited basis
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	Highway Superintendent and 4-man Crew
Construction/Building/Code Enforcement Department	Yes	Building /Codes Enforcement Officer
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Highway Department
Mutual aid agreements	Yes	Fire Department
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other		



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	Yes	Contractual Basis
Emergency Manager	No	-
Grant writer(s)	Yes	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications? No.
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Town of Stark uses the Town Board, Highway Department, Van Hornesville Fire Department, and any individual or citizen to communicate with HMP to reduce risk by identifying potential hazards.

## Fiscal Capability

The table below summarizes financial resources available to the Town of Stark.

**Table 9.27-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes



Financial Resources	Accessible or Eligible to Use? (Yes/No)
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Stark.

**Table 9.27-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	Yes	Supervisor and Town Board
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Stark.

**Table 9.27-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes*	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other			



Note:

\* While the Town does participate in the Public Protection (ISO Fire Protection Classes 1 to 10) Program, the ISO Classification and Date Classified were not able to be obtained in time for the HMP Approval Process.

N/A Not applicable

- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

Table 9.27-8. Adaptive Capacity

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Moderate
Severe Storm	Strong
Severe Winter Storm	Strong
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

The Town of Stark noted that the jurisdiction’s capability to address related actions to the severe winter storm hazard should be increased from ‘Moderate’ to ‘Strong’ due to the resources available and experience with responding to winter storm events.

### 9.27.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Stark.



**Table 9.27-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties
Town of Stark	9	11	\$126,638	0	2	0

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

**Flood Vulnerability Summary**

The following table provides a summary of the NFIP program in the Town of Stark.

**Table 9.27-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Otsquago Creek, no list.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	No
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Visual Assessment
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	1 reported. Individual received grant funding from agency. For flooding from June 2013
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	No. Doesn't provide elevation above flood. Town of Stark
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Town of Stark
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	Not aware of any



NFIP Topic	Comments
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Unaware of any
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review and permit inspections
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Size of improvement determined by Code Officer
What are the barriers to running an effective NFIP program in the community, if any?	None
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Oct, 2021
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Local Law #1-1992. Not amended since adoption.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Meets
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes. Height restrictions.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

### 9.27.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.27-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.27-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	10	0	8	0	6	1	7	0	10	0	10	0
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	2	0	3	0	2	0	1	0	2	0	2	0
<b>Total New Construction Permits Issued</b>	<b>12</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>0</b>

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
<b>Recent Major Development and Infrastructure from 2017 to Present</b>					
The Town of Stark has not had any recent major development or infrastructure from 2017 to present.					
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
The Town of Stark does not anticipate any major development and infrastructure in the next five (5) years.					

SFHA Special Flood Hazard Area (1% flood event)

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

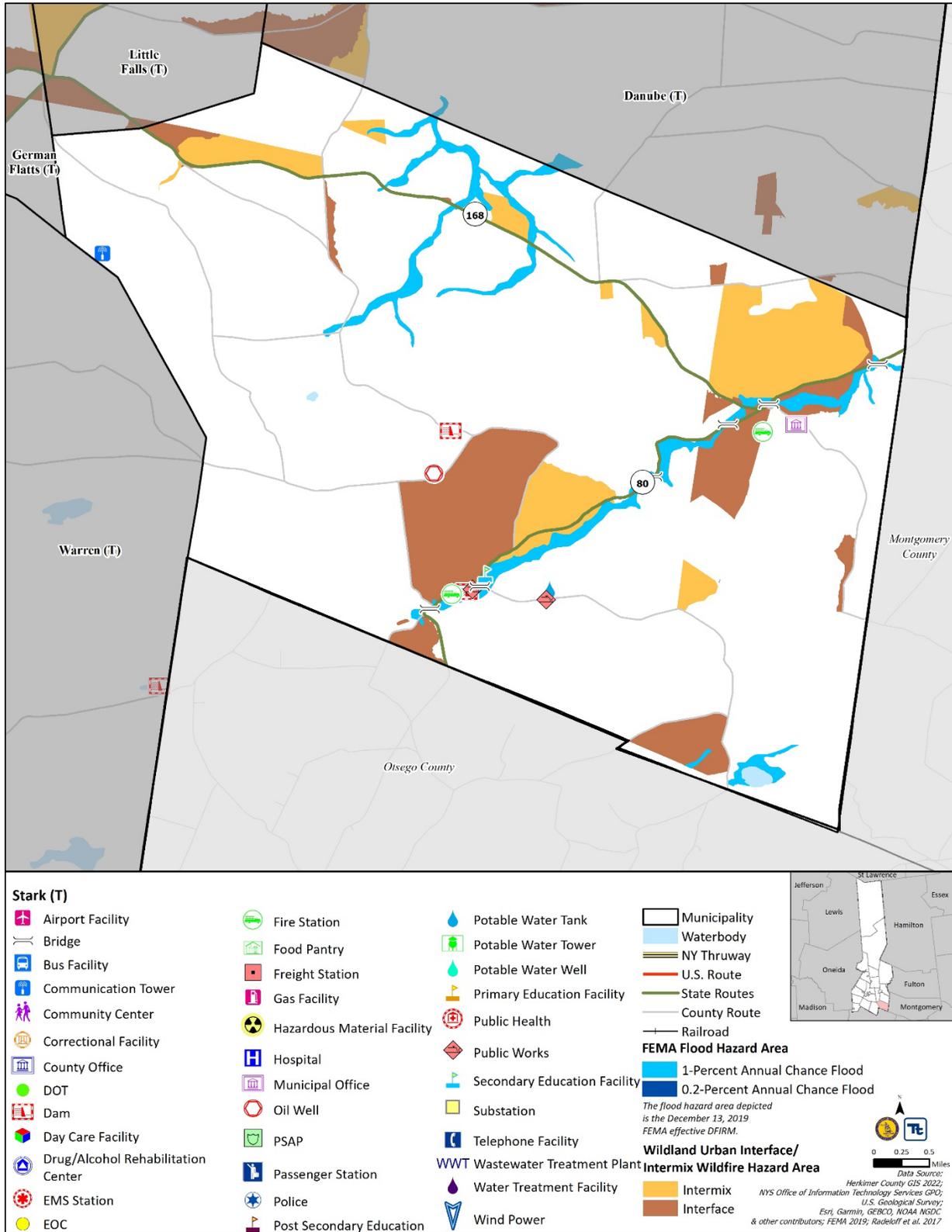
### 9.27.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Stark’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Stark has significant exposure are provided.



Figure 9.27-1. Town of Stark Hazard Area Extent and Location Map





### Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Stark’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.27-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.27-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
June 28, 2013*	DR-4129	Yes	Heavy rain between midnight and 8am, associated with a strong surface low passing from northwest Pennsylvania up through the Lake George Saratoga region, fell across especially the Mohawk valley resulting in severe flash flooding across southern Herkimer and western Montgomery counties. Widespread severe flooding was reported in the towns of Ilion, Mohawk, Herkimer, Fairfield, Little Falls, Middleville, and Schuyler Corners.	Four homes in Van Hornesville were impacted by the 2013 flood. Moyers Road Bridge was significantly damaged during a 2013 flood event; the bridge remains open but is in poor condition.
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	The Town of Stark did not incur any damages or losses from this event.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2–5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over	The Town of Stark did not incur any damages or losses from this event.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			\$300,000 in property damage.	
January 2020 - ongoing	Covid-19 Pandemic	Yes	As of May 07, 2023, the New York Department of Health has reported 17,740 reported cases and 214 reported deaths in Herkimer County.	The Town rotated personnel to lower the possibility of infection; individuals from the Highway Department maintained their own vehicles to mitigate the spread of COVID-19.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	The Town of Stark did not incur any damages or losses from this event.
July–August, 2022	Dry Season	No	A dry season in 2022 caused the Town’s 3 wells to become stressed; the Town had to rotate between the wells to maintain water supply.	A dry season in 2022 caused the Town’s 3 wells to become stressed; the Town had to rotate between the wells to maintain water supply.

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

N/A Not applicable

- This event did not occur during the performance period of the 2017 plan but is provided here to document local flooding.

## Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Stark’s risk assessment results and data used to determine the hazard ranking.

### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate



conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Stark. The Town of Stark reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Town indicated the following:

- The Town requested the ranking for the Drought hazard be increased from 'Low' to 'Medium' due to a drought event which occurred during late summer 2022.

**Table 9.27-13. Hazard Ranking Input**

Hazard	Rank
Extreme Temperature	Low
Drought	Medium
Flood	Medium
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2' above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.



**Table 9.27-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Moyer Rd bridge over Otsquago Creek	Bridge	Y	Y	2023-Stark-011	N/A
NY Route 80 bridge over Otsquago Creek*	Bridge	Y	Y	2023-Stark-012	N/A
NY Route 80 bridge over Otsquago Creek*	Bridge	Y	Y	2023-Stark-012	N/A
NY Route 80 bridge over Otsquago Creek*	Bridge	Y	Y	2023-Stark-012	N/A
NY Route 80 bridge over Otsquago Creek*	Bridge	Y	Y	2023-Stark-012	N/A
Van Hornesville Dam	Dam	Y	Y	2023-Stark-008	N/A
Van Hornesville Fire Department Station 1 Fire Station	Fire Station	Y	Y	2023-Stark-013	-
Van Hornesville Milk Producers Coop	Public Works	Y	Y	2023-Stark-013	-
Wiltse Hill Rd bridge over Otsquago Creek*	Bridge	Y	Y	2023-Stark-012	N/A

Source: Herkimer County 2023

\*The Town acknowledges the asset as a critical facility and will work with the identified owner to incorporate resiliency recommendations during scheduled infrastructure upgrades to reduce the impact and consequences of flooding, scour, and erosion.

There is no action identified for the Wiltse Hill Road Bridge, as the County of Herkimer has already awarded a bid for a project to widen the bridge to 32 feet to provide 2 feet of freeboard for a 50-year storm, pass the 100-year storm, and to better align the bridge with the creek.

There is no action identified for the Van Hornesville Milk Producers Coop, as it is a permanently closed facility.

There is no action identified for the Van Hornesville Fire Department Station 1 Fire Station, as it is no longer in operation after experiencing significant damages from a 2013 flood event.

### Identified Issues

After review of the Town of Stark’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Stark identified the following vulnerabilities within their community:

- Otsquago Creek overflowed in 2013 and caused massive flooding, closing down State Route 80 and causing homeowners to lose properties.
- During extremely heavy rains, such as microbursts, the Otsquago Creek has rerouted itself out of its creek bed.
- Four (4) homes in Van Hornesville had been impacted by the 2013 flooding event due to undersized culverts near the Wiltse Hill Rd bridge.



- There have been 11 documented NFIP flood claims with losses of \$126,638.
- The emergency sheltering location, Owen D. Young Central School, does not have an emergency generator for back-up power.
- A dry spell in 2022 caused the Town's 3 wells to become stressed; the Town had to rotate between the wells to maintain water supply.
- The Van Hornesville Dam is no longer in operation due to damages incurred, which has caused negative impacts to the area including:
  - Expansion of the Ostquago Creek into private property,
  - Limited the amount of maintenance able to be performed since the Creek expands onto private property, and
  - Diminished the fire department's back-up water supply, as the pond which the dam created has shrunk.
- State Route 80 will frequently flood during severe summer storms.
- Route 168 tends to flood in the winter from ice jams and snowmelt.
- Moyers Road Bridge was significantly damaged during a 2013 flood event; the bridge remains open but is in poor condition.

### 9.27.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

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The Town of Stark did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the 'Capability Assessment' earlier in this annex and documented mitigation actions to reduce hazard risk are included below

#### Additional Mitigation Efforts

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The Town of Stark identified the following mitigation efforts completed since 2017:

- Established a shared services agreement with the State of New York for winter road maintenance and as needed, summer road maintenance.
- Successfully managed the COVID-19 pandemic by rotating personnel and, encouraging safe habits, and mandating all personnel with assigned vehicles must maintain the vehicle themselves.
- The Fire Department has installed an emergency generator at Station 2.



## Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Stark participated in a mitigation action workshop in April 2023 which provided guidance on the development of effective mitigation strategies. The workshop presented a number FEMA resources to support their comprehensive review of activities and mitigation measures to address their hazards. Links to relevant FEMA publications were provided on the County mitigation planning website and the County contract consultant provided tailored guidance in identifying mitigation projects.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.27-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	X	X		X	X	X	X		X	X
Drought	X	X		X	X	X	X		X	X
Flood	X	X	X	X	X	X	X	X	X	X
Severe Storm	X	X	X	X	X	X	X	X	X	X
Severe Winter Storm	X	X		X	X	X	X		X	X
Wildfire		X		X		X	X		X	X
Infestation				X			X			
Dam Failure	X	X		X	X	X	X		X	X
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.27-16).

The table below summarizes the specific mitigation initiatives the Town of Stark would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.27-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Stark-001	Increase NFIP Capabilities	1, 2, 3, 4	Flood	<p><b>Problem:</b> Repetitive loss residences and critical facilities are located in the floodplain.</p>	No	No	1 year	Town Supervisor, Floodplain Administrator	Low	Medium	Local Funds	Medium	LPR	PR
				<p><b>Solution:</b> Begin maintaining lists of properties damaged by flooding and of property owners who are interested in flood mitigation.</p>										
2023-Stark-002	Develop Substantial Damage Response Plan	1, 3	Flood, Severe Storm, Severe Winter Storm, Wildfire, Dam Failure	<p><b>Problem:</b> The Town does not have a determination process for substantially damaged structures.</p>	No	No	2 to 3 years	Town Supervisor, Floodplain Administrator, Highway Department	Medium	Medium	BRIC, HMGP, EMPG	Medium	LPR	PR
				<p><b>Solution:</b> Work in partnership with CEDAR from NYS Codes Division to write Substantial</p>										



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Damage Response Plan.										
2023-Stark-003	New York State Shared Services Update	1, 3	Extreme Temperature, Flood, Severe Storm	<p><b>Problem:</b> The Town has a shared services agreement with the State to maintain road maintenance in the winter, but not the summer.</p> <p><b>Solution:</b> Update the shared agreement with the State to include summer road maintenance activities.</p>	No	No	1 year	Town Supervisor, Town Board, Highway Department	Low	Medium	Local Funds	High	LPR	PR
2023-Stark-004	Herkimer County Shared Services	1, 3	Extreme Temperature, Flood, Severe Storm, Severe Winter Storm	<p><b>Problem:</b> The Town does not have a shared services agreement with the County of Herkimer.</p> <p><b>Solution:</b> Establish a shared service agreement with the County of</p>	No	No	1 year	Town Supervisor, Town Board, Highway Department	Low	Medium	Local Funds	High	LPR	PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Herkimer for winter and summer road maintenance.										
2023-Stark-005	Public Education Campaign	2, 3	Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Residents may not be aware how to respond, prepare, and protect themselves and their property from hazards.</p> <p><b>Solution:</b> The Town will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Town will utilize and disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational</p>	No	No	3 years	Town Supervisor, Town Board	Low	High	BRIC, Local Funds	High	EAP	PI, PP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Town will provide educational materials on the town website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website. The Town will utilize social media, newsletters, meetings, and brochures to inform the public</p>										



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				of hazards within the Town how to prepare for, respond to, and mitigate damages to their properties.										
2023-Stark-006	Drought Management Plan	1, 3	Drought	<p><b>Problem:</b> A drought in 2022 caused the Town's 3 wells to become stressed; the Town had to rotate between the wells to maintain water supply.</p> <p><b>Solution:</b> Develop a drought management plan to identify how the Town's water supply would be maintained in time of drought.</p>	No	No	2 to 3 years	Town Supervisor, Town Board	Low	Medium	Local Funds	Medium	LPR	PR
2023-Stark-007	Property Acquisition and Elevation	1	Flood	<p><b>Problem:</b> There are two (2) NFIP repetitive loss properties in the Town.</p>	No	Yes	2 to 3 years	Town Supervisor, Floodplain Administrator	High	High	BRIC, FMA	Medium	SIP	PP



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<b>Solution:</b> Consult with the homeowners and inquire whether they would be interested in property acquisition or elevation.										
2023-Stark-008	Van Hornesville Dam Repair	1, 4, 5	Flood	<b>Problem:</b> The Van Hornesville Dam was damaged in a maintenance incident and is now inoperable. The inoperable of the dam has led to increased flooding as the dammed water spread into private property, and the fire department, which once used the small pond which the dam created as a back-up water source, now is unable to utilize the water source.	Yes	Yes	5 years	Town Supervisor, Town Board, Highway Department	High	High	BRIC	High	SIP, NSP	SP, NR, ES



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p><b>Solution:</b> Research funding streams to repair the dam to decrease flood risk and to provide a back-up water source for emergency operations, such as firefighting.</p>										
2023-Stark-009	Critical Facility Generator	1	Dam Failure, Drought, Extreme Temperature, Flood, Severe Storm, Severe Winter Storm, Wildfire	<p><b>Problem:</b> The emergency sheltering location, Owen D. Young Central School, does not have an emergency generator for back-up power.</p> <p><b>Solution:</b> Identify, purchase, and install the correctly sized emergency generator at the Owen D. Young Central School.</p>	Yes	Yes	2 to 3 years	Town Supervisor	Medium	High	BRIC, HMGP	High	SIP	ES, SP, PP
	Otsquago Creek Study	4	Flood, Severe Storm	<p><b>Problem:</b> In 2013, a severe flooding</p>	No	No	4 years		Medium	High	BRIC, HMGP	Low	LP, RE	NR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Stark-010				<p>event occurred due to severe weather. The heavy rainfall caused the Otsquago Creek to reroute itself outside of its regular streambed.</p> <p><b>Solution:</b> Conduct a study on Otsquago Creek to determine at what level the Creek will reroute itself. Once determined, implement flood mitigation initiatives.</p>				Town Supervisor, Town Board						
2023-Stark-011	Moyers Road Bridge Replacement	1, 4	Flood, Severe Storm	<p><b>Problem:</b> Moyers Road Bridge was severely damaged during a 2013 severe flooding event occurred due to severe weather. The bridge is undersized, lower than</p>	Yes	Yes	5 years	Highway Department	High	High	BRIDGE NY	Medium	SIP, NSP	SP, PP, NR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>the regional bankfull widths and is in poor condition.</p> <p><b>Solution:</b> Replace the Moyers Road Bridge with a larger structure that spans the full bankfull. Design criteria should be established relative to the target storm event such that the new structure does not act as hydraulic constrictions or cause flooding. A detailed hydraulic analysis should be undertaken as part of the detailed design process.</p>										
2023-Stark-012	Critical Facility Owner Outreach: Bridges	1,2	Flood	<b>Problem:</b> Five bridges located within the regulatory floodplain and proper level of	Yes ●	No	1 year	Highway Department	Low	Medium	Local Funds	High	LPR	PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>protection to flood events must be determined.</p> <p><b>Solution:</b> The Town will contact asset owners to discuss options to incorporate resiliency recommendations during scheduled infrastructure upgrades to reduce the impact and consequences of flooding, scour, and erosion.</p>										
2023-Stark-013	Critical Facility Inventory and Outreach	1,2	Flood	<p><b>Problem:</b> The Van Hornesville Fire Department Station 1 and Van Hornesville Milk Producers Coop are located within the regulatory floodplain. It is undetermined if these facilities are designed to the</p>	Yes ●	No	1 year	Highway Department	Low	Medium	Local Funds	High	LPR	PR



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Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>0.2% chance flood event.</p> <p><b>Solution:</b> The Town will Develop an outreach letter to explain the potential risks of flooding and to advise how to determine if the facility is designed at or above the 0.2% flood elevation.</p>										

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

- Local Plans and Regulations (LPR)—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.



## Section 9.27. Town of Stark

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

### CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.27-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Stark-001	Increase NFIP Capabilities	0	1	1	1	0	1	1	0	0	1	0	1	0	0	7	Medium
2023-Stark-002	Develop Substantial Damage Response Plan	0	0	1	1	0	1	0	0	0	0	1	1	0	0	5	Medium
2023-Stark-003	New York State Shared Services Update	0	0	1	1	1	1	1	0	0	1	1	1	1	0	9	High
2023-Stark-004	Herkimer County Shared Services	0	0	1	1	1	1	1	0	0	1	1	1	1	0	9	High
2023-Stark-005	Public Education Campaign	1	1	1	1	1	1	1	0	0	1	1	1	0	0	10	High
2023-Stark-006	Drought Management Plan	1	0	1	1	0	1	1	0	0	0	0	1	0	0	6	Medium
2023-Stark-007	Property Acquisition and Elevation	1	1	1	1	1	1	0	0	0	0	0	1	0	0	7	Medium
2023-Stark-008	Van Hornesville Dam Repair	0	1	1	1	1	1	0	1	0	0	1	1	1	0	9	High
2023-Stark-009	Critical Facility Generator	0	1	1	1	1	1	0	-1	0	0	1	1	1	0	9	High
2023-Stark-010	Otsquago Creek Study	0	0	1	1	0	1	0	0	0	0	0	1	0	0	4	Low
2023-Stark-011	Moyers Road Bridge Replacement	0	1	1	1	1	1	0	0	0	0	0	1	0	0	6	Medium
2023-Stark-012	Critical Facility Owner Outreach	1	1	1	0	1	0	1	0	0	1	1	1	0	1	9	High



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Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Stark-013	Critical Facility Inventory and Outreach	1	1	1	0	1	0	1	0	0	1	1	1	0	1	9	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.28 TOWN OF WARREN

This section presents the jurisdictional annex for the Town of Warren that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Warren’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Warren did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.28.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.28-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: John Armstrong – Town Councilman Address: Phone Number: 607-643-3871 Email: <a href="mailto:j.armstrongelectric@gmail.com">j.armstrongelectric@gmail.com</a>	Name/Title: Jeffery Crockett – Town Councilman Address: Phone Number: 315-985-8420 Email: <a href="mailto:J_crockett@yahoo.com">J_crockett@yahoo.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: Lisa VanWinkler, Town Supervisor Method of Participation:	

### 9.1.1 Municipal Profile

The Town of Warren is located in Southern Herkimer County, which is rich in history, agriculture and natural beauty. The town neighbors Columbia, German Flats, Richfield Springs, Springfield and Stark.



## 9.1.2 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Warren. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.28-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Warren has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Town of Warren Comprehensive Plan – Section 5.5 Land Use Regulations	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town Comprehensive Plan discusses land use regulations to enable and/or restrict land use development. Regulations can be enacted to permit uses in certain areas of all or part of the Town; and can be enacted to prohibit uses in the same or other areas.				
Subdivision Ordinance	Yes	Town Comprehensive Plan –	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Subdivision Ordinance reviews are the responsibility of the town planning board. All subdivision plats are reviewed to make sure they comply with town policy.				
Site Plan Ordinance	Yes	Town Comprehensive Plan	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Site Plan review and special use permits are used to encourage orderly and safe agriculture development, commercial development, and industrial developments.				
Stormwater Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Flood Damage Prevention Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Comprehensive Plan	Yes	Town of Warren Comprehensive Plan - 2015	Local	Town Planning Board

*How has or will this be integrated with the HMP and how does this reduce risk?*

The Town Comprehensive Plan is to maintain the Town character while protecting the natural features and current or potential land development.

Capital Improvement Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Disaster Debris Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Floodplain Management or Watershed Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Stormwater Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Open Space Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Urban Water Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Habitat Conservation Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Economic Development Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Community Wildfire Protection Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Community Forest Management Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Agriculture Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Tourism Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Business/ Downtown Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other (for example NYRCR, etc.)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	Yes	Herkimer County Emergency Management Plan	Local, County	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Substantial Damage Response Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Post-Disaster Recovery Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Public Health Plan	Yes	Public Health Emergency operations Plan for Town of Warren	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Public Health Plan was developed to include the identification of essential positions, facilitation of remote work for non-essential positions, provision of personal protection equipment, and protocol for supporting contact tracing				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Warren to oversee and track development.

**Table 9.28-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Warren and their current responsibilities that contribute to hazard mitigation.

**Table 9.28-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board is responsible for all review and approval of all business and commercial projects
Zoning Board of Adjustment	Yes	the zoning board of appeals has final decision-making authority, the legislative body may not review the grant or denial of variances, special use permits, or any other decisions.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The highway department maintains all town roads and is responsible for snow removal for town, county and state roads.
Construction/Building/Code Enforcement Department	Yes	The Codes Officer enforces the codes and ordinances of the town, issues building, septic and demolition permits and performs building and fire code inspections.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-
<b>Administrative/technical capability self-assessment</b>		



Resources	Available? (Yes/No)	Comments  (available staff, responsibilities, support of hazard mitigation)
Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.		

## Fiscal Capability

The table below summarizes financial resources available to the Town of Warren.

**Table 9.28-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Warren.

**Table 9.28-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-



Outreach Resources	Available? (Yes/No)	Comment:
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Warren.

**Table 9.28-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.28-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate



Hazard	Adaptive Capacity – Strong/Moderate/Weak
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.1.3 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Warren.

**Table 9.28-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Warren	None identified.	None identified.	None identified.	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Warren.

**Table 9.28-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.
Do you maintain a list of property owners interested in flood mitigation?	Information not available.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
<p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
<p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
<p>What local department is responsible for floodplain management?</p>	Information not available.
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	Information not available.
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	Information not available.
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
<p>Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)</p>	Information not available.
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	Information not available.
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	Information not available.
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
<p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p>	Information not available.
<p>What is the local law number or municipal code of your flood damage prevention ordinance?</p> <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
<p>Does your floodplain management program meet or exceed minimum requirements?</p> <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.
<p>Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain</p>	Information not available.



NFIP Topic	Comments
management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.1.4 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.28-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.28-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA										
Single Family	Information not available.	Information not available.										
Multi-Family	Information not available.	Information not available.										
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.										
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.										
<b>Property or</b>	<b>Information not available.</b>											



Development Name					
<b>Recent Major Development and Infrastructure from 2017 to Present</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.

SFHA Special Flood Hazard Area (1% flood event)

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

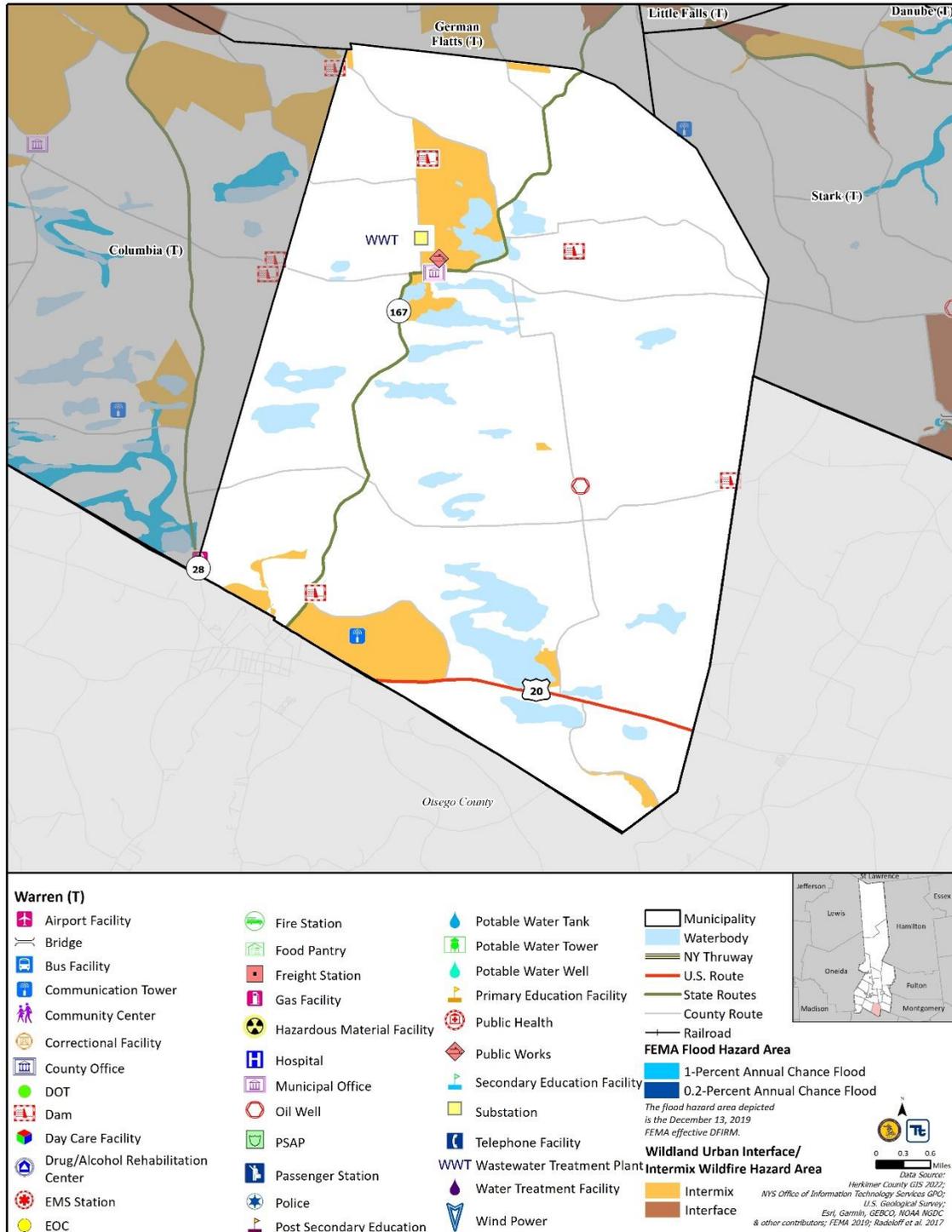
### 9.1.5 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Warren’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Warren has significant exposure are provided.



Figure 9.28-1. Town of Warren Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Warren’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.28-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.28-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Warren’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Warren. The Town of Warren reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.28-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus–MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.28-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
None Identified					

Source: Herkimer County 2023

### Identified Issues

After review of the Town of Warren’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Warren identified the following vulnerabilities within their community:

- None identified.

### 9.1.6 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Town of Warren did not participate in the 2017 HMP.

#### Additional Mitigation Efforts

The Town of Warren identified the following mitigation efforts completed since 2017:

- None identified.

#### Proposed Hazard Mitigation Initiatives for the HMP Update

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.



**Table 9.28-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.28-16).

The table below summarizes the specific mitigation initiatives the Town of Warren would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



**Table 9.28-16. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.28-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9. JURISDICTIONAL ANNEXES

## 9.28 TOWN OF WARREN

This section presents the jurisdictional annex for the Town of Warren that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Warren’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Warren did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.28.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.28-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: John Armstrong – Town Councilman Address: Phone Number: 607-643-3871 Email: <a href="mailto:j.armstrongelectric@gmail.com">j.armstrongelectric@gmail.com</a>	Name/Title: Jeffery Crockett – Town Councilman Address: Phone Number: 315-985-8420 Email: <a href="mailto:J_crockett@yahoo.com">J_crockett@yahoo.com</a>
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: Lisa VanWinkler, Town Supervisor Method of Participation:	

### 9.28.2 Municipal Profile

The Town of Warren is located in Southern Herkimer County, which is rich in history, agriculture and natural beauty. The town neighbors Columbia, German Flats, Richfield Springs, Springfield and Stark.



### 9.28.3 Jurisdictional Capability Assessment and Integration

#### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Warren. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.28-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Warren has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Town of Warren Comprehensive Plan – Section 5.5 Land Use Regulations	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town Comprehensive Plan discusses land use regulations to enable and/or restrict land use development. Regulations can be enacted to permit uses in certain areas of all or part of the Town; and can be enacted to prohibit uses in the same or other areas.				
Subdivision Ordinance	Yes	Town Comprehensive Plan –	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Subdivision Ordinance reviews are the responsibility of the town planning board. All subdivision plats are reviewed to make sure they comply with town policy.				
Site Plan Ordinance	Yes	Town Comprehensive Plan	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Site Plan review and special use permits are used to encourage orderly and safe agriculture development, commercial development, and industrial developments.				
Stormwater Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Flood Damage Prevention Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Comprehensive Plan	Yes	Town of Warren Comprehensive Plan - 2015	Local	Town Planning Board

*How has or will this be integrated with the HMP and how does this reduce risk?*

The Town Comprehensive Plan is to maintain the Town character while protecting the natural features and current or potential land development.

Capital Improvement Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Disaster Debris Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Floodplain Management or Watershed Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Stormwater Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Open Space Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Urban Water Management Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Habitat Conservation Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Economic Development Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Community Wildfire Protection Plan	No	-	-	-
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*How has or will this be integrated with the HMP and how does this reduce risk?*

Community Forest Management Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Agriculture Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Tourism Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Business/ Downtown Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other (for example NYRCR, etc.)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	Yes	Herkimer County Emergency Management Plan	Local, County	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Emergency Management Plan guides departmental response and coordination in the event of a hazard or emergency.				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Substantial Damage Response Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Post-Disaster Recovery Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Public Health Plan	Yes	Public Health Emergency operations Plan for Town of Warren	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Public Health Plan was developed to include the identification of essential positions, facilitation of remote work for non-essential positions, provision of personal protection equipment, and protocol for supporting contact tracing				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Warren to oversee and track development.

**Table 9.28-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	



## Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Warren and their current responsibilities that contribute to hazard mitigation.

**Table 9.28-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board is responsible for all review and approval of all business and commercial projects
Zoning Board of Adjustment	Yes	the zoning board of appeals has final decision-making authority, the legislative body may not review the grant or denial of variances, special use permits, or any other decisions.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The highway department maintains all town roads and is responsible for snow removal for town, county and state roads.
Construction/Building/Code Enforcement Department	Yes	The Codes Officer enforces the codes and ordinances of the town, issues building, septic and demolition permits and performs building and fire code inspections.
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	-	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	-	-
<b>Administrative/technical capability self-assessment</b>		



Resources	Available? (Yes/No)	Comments  (available staff, responsibilities, support of hazard mitigation)
Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.		

## Fiscal Capability

The table below summarizes financial resources available to the Town of Warren.

**Table 9.28-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Warren.

**Table 9.28-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-



Outreach Resources	Available? (Yes/No)	Comment:
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Warren.

**Table 9.28-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:  
 N/A Not applicable  
 - Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.28-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate



Hazard	Adaptive Capacity – Strong/Moderate/Weak
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.28.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Warren.

**Table 9.28-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Warren	None identified.	None identified.	None identified.	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Warren.

**Table 9.28-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.
Do you maintain a list of property owners interested in flood mitigation?	Information not available.



NFIP Topic	Comments
<ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	
<p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
<p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
<p>What local department is responsible for floodplain management?</p>	Information not available.
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	Information not available.
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	Information not available.
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
<p>Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)</p>	Information not available.
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	Information not available.
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	Information not available.
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
<p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p>	Information not available.
<p>What is the local law number or municipal code of your flood damage prevention ordinance?</p> <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
<p>Does your floodplain management program meet or exceed minimum requirements?</p> <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.
<p>Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain</p>	Information not available.



NFIP Topic	Comments
management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.28.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.28-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.28-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA										
Single Family	Information not available.	Information not available.										
Multi-Family	Information not available.	Information not available.										
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.										
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.										
<b>Property or</b>	<b>Information not available.</b>											



Development Name					
<b>Recent Major Development and Infrastructure from 2017 to Present</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>					
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.

SFHA Special Flood Hazard Area (1% flood event)

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

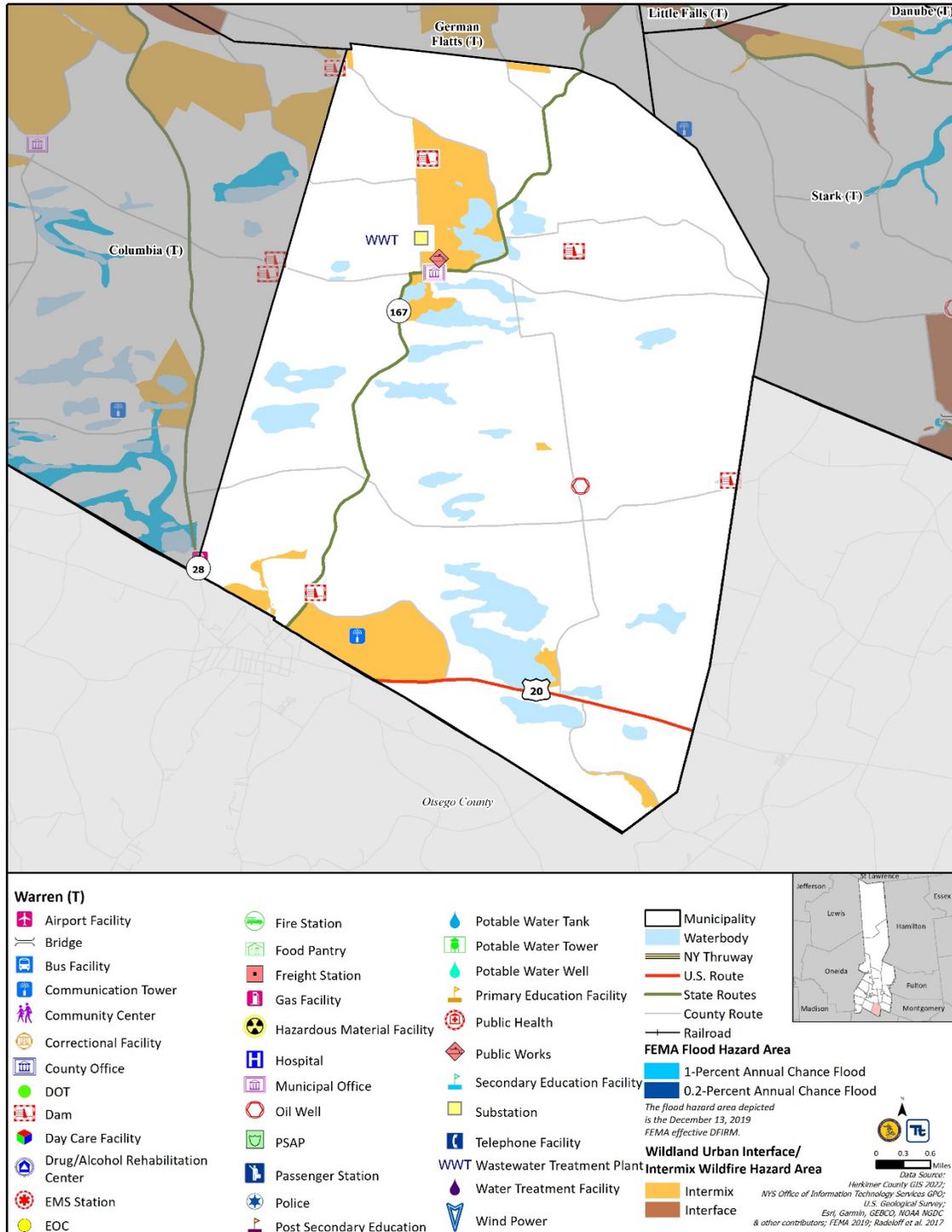
### 9.28.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Warren’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Warren has significant exposure are provided.



Figure 9.28-1. Town of Warren Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Warren’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.28-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.28-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Warren’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Warren. The Town of Warren reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.28-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Medium
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.28-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
None Identified					

Source: Herkimer County 2023

### Identified Issues

After review of the Town of Warren’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Warren identified the following vulnerabilities within their community:

- None identified.

### 9.28.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

#### Past Mitigation Initiative Status

The Town of Warren did not participate in the 2017 HMP.

#### Additional Mitigation Efforts

The Town of Warren identified the following mitigation efforts completed since 2017:

- None identified.

#### Proposed Hazard Mitigation Initiatives for the HMP Update

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.



**Table 9.28-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.28-16).

The table below summarizes the specific mitigation initiatives the Town of Warren would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



**Table 9.28-16. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

**Acronyms and Abbreviations:**

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

**Potential FEMA HMA Funding Sources:**

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

**Timeline:**

The time required for completion of the project upon implementation.

**Cost:**

The estimated cost for implementation.

**Benefits:**

A description of the estimated benefits, either quantitative and/or qualitative.

**Critical Facility:**

Yes Critical Facility located in 1% floodplain

**Mitigation Category:**

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

**CRS Category:**



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.28-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.

## 9.29 TOWN OF WEBB

This section presents the jurisdictional annex for the Town of Webb that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Webb’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Webb did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.29.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.29-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Bonnie Baker – Town Supervisor</b> Address: <b>Box 157, Old Forge, NY 13420</b> Phone Number: <b>(315) 369-3121</b> Email:	Name/Title: Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	



## 9.29.2 Municipal Profile

The Town of Webb has a total area of 484.3 square miles, of which 452.3 square miles are land and 32.0 square miles or 6.61%, are water. The Town of Webb has the most land area of any town in New York State, although Brookhaven covers a larger area when including water. The Town of Webb is in the Adirondack Park. New York State Route 28 crosses the southern part of the Town from west to east, passing through the communities of Old Forge and Thendara.

According to the U.S. Census, the 2020 population for the Town of Webb was 1,797, a 0.6 percent decrease from the 2010 Census. Data from the 2020 U.S. Census indicate that 1.3 percent of the population is 5 years of age or younger and 28.8 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

## 9.29.3 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Webb. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.29-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>Codes, Ordinances, &amp; Regulations</i>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Zoning and Code Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Town of Webb has adopted the New York State Uniform Fire Prevention and Building Codes				
Zoning/Land Use Code	Yes	Chapter 480 – Zoning	Local	Zoning and Code Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The purpose of this chapter is to promote the health, safety, morals and general welfare of the community and thus to lessen congestion in the streets; to secure safety from fire, flood, panic and other dangers; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; to facilitate the adequate provision of transportation, water, sewerage, schools, parks and other public services; to protect and preserve aesthetic values and natural resources; and to encourage the most appropriate use of land and to channel and direct growth throughout the Town, under and pursuant to the Town Law and the General Municipal Law of New York State, as amended, and in furtherance of the purposes of the Adirondack Park Agency Act of 1973, as amended.				
<i>Consider the following:</i>				
<ul style="list-style-type: none"> <li>Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li> </ul>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> <li>Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li> <li>Does it contain natural overlay zones that set conditions?</li> <li>Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li> <li>Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li> </ul>				
Subdivision Ordinance	Yes	Chapter 410 – Subdivision of Land	Local	Planning Board
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>The regulations are enacted for the following purposes:</p> <ul style="list-style-type: none"> <li>Provide for the future growth and development of the town.</li> <li>Afford adequate facilities for the housing, transportation, distribution, comfort, convenience, safety, health and welfare</li> <li>Show, in proper cases, a park or parks suitably located for playground or other recreational purposes</li> <li>Require that the streets and highways shall be of sufficient width and suitable grade and shall be suitably located to accommodate the prospective traffic, to afford adequate light and air, to facilitate fire protection and to provide access of fire-fighting equipment to buildings.</li> <li>Assure that the subdivision streets and highways shall be coordinated so as to compose a convenient system conforming to the Official Map and properly related to the Master Plan and Zoning Ordinance.</li> <li>Find that the land shown on such plats shall be of such character that it can be used safely for building purposes without danger to health or peril from flood, fire or other menace.</li> </ul> <p><i>Consider the following:</i></p> <p>Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</p> <p>Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</p> <p>Do the regulations allow density transfers where hazard areas exist?</p>				
Site Plan Ordinance	Yes	Site Plan Review Requirements	Local	Town Zoning Board
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>The Town of Webb Site Plan Review requirements describes procedures for major subdivisions, minor subdivisions, one-lot subdivisions, lot-line adjustments and re-subdivisions.</p>				
Stormwater Management Ordinance	No	-	-	-
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p>				
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer</p>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<i>Consider the following:</i>				
Are environmental systems that protect development from hazards identified and mapped?				
Do environmental policies maintain and restore protective ecosystems?				
Do the ordinances prohibit development within, of filling of, wetlands, floodways, and floodplains?				
Do environmental policies provide incentives to development that is located outside protective ecosystems?				
Flood Damage Prevention Ordinance	Yes	Chapter 257 – Flood Damage Prevention	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
It is the purpose of this chapter to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designated to:				
<ul style="list-style-type: none"> <li>Regulate uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities;</li> <li>Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;</li> <li>Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters;</li> <li>Control filling, grading, dredging and other development which may increase erosion or flood damages;</li> <li>Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands; and</li> <li>Qualify for and maintain participation in the National Flood Insurance Program</li> </ul>				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
Comprehensive Plan	Yes	Town of Webb Comprehensive Plan – 2019	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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The Town of Webb Comprehensive Plans provides a framework for local land use laws, such as subdivision, site plan review and, zoning. NYS Town Law 272-a establishes that all land use regulations shall be consistent with a comprehensive plan.

Consider the following:

Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?

Does the future land use map clearly identify natural hazard areas?

Do the land use policies discourage development or redevelopment with natural hazard areas?

Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?

Capital Improvement Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Disaster Debris Management Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Floodplain Management or Watershed Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Stormwater Management Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Open Space Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Urban Water Management Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Habitat Conservation Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Economic Development Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Community Wildfire Protection Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Community Forest Management Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Transportation Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
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Consider the following:

Does the transportation plan limit access to hazard areas?

Is transportation policy used to guide growth to safe locations?

Are transportation systems designed to function under disaster conditions (e.g. evacuation)?

Agriculture Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Tourism Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Business/ Downtown Development Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Other (for example NYRCR, etc.)	-	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

**Response/Recovery Planning**

Comprehensive Emergency Management Plan	-	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Consider the following:

Does your CEMP cover short-term response and long-term recovery to address communications, evacuation, and housing necessary for identified hazards?

Continuity of Operations Plan	-	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Substantial Damage Response Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Post-Disaster Recovery Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Public Health Plan	No	-	-	-
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	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	-	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Webb to oversee and track development.

**Table 9.29-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Webb and their current responsibilities that contribute to hazard mitigation.

**Table 9.29-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	The Planning Board meets on the first and third Tuesday of the month. Town Planning Board is responsible for reviewing all applications for re-zoning, site plan reviews, conditional use permits, and all subdivision requests.
Zoning Board of Adjustment	Yes	The Zoning Board of Appeals meets on the fourth Tuesday of each month. Town Zoning Board is responsible for maintaining all building codes and regulations and



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		approving, approve with conditions, or denying any special use permits.
Planning Department	No	
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Public Works/Highway Department	Yes	The Department of Public Works and Highway Department is responsible for maintaining Town roads
Construction/Building/Code Enforcement Department	Yes	Zoning and Code Enforcement is responsible for the enforcement of all Town ordinances, zoning laws, and the NYS Fire Prevention. The department also issues building permits, septic system permits, water and sewer permits, demolition permits, and monitors Flood Plain regulations.
Emergency Management/Public Safety Department	No	
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	
Mutual aid agreements		
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	
Other		
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	
Engineers or professionals trained in building or infrastructure construction practices	No	
Planners or engineers with an understanding of natural hazards	No	
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	
Environmental scientist familiar with natural hazards	No	
Surveyor(s)	No	



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Emergency Manager	No	
Grant writer(s)	No	<i>Consider the following:</i> Are data and maps from the HMP used to support documentation in grant applications?
Resilience Officer	No	
Other (this could include stormwater engineer, environmental specialist, etc.)		

**Administrative/technical capability self-assessment**

*Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.*

### Fiscal Capability

The table below summarizes financial resources available to the Town of Webb.

**Table 9.29-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital improvements project funding	
Authority to levy taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact fees for homebuyers or developers of new development/homes	
Stormwater utility fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other federal or state Funding Programs	
Open Space Acquisition funding programs	
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	

### Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Webb.

**Table 9.29-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office		
Personnel skilled or trained in website development		



Outreach Resources	Available? (Yes/No)	Comment:
Hazard mitigation information available on your website		
Social media for hazard mitigation education and outreach		
Citizen boards or commissions that address issues related to hazard mitigation		
Warning systems for hazard events		
Natural disaster/safety programs in place for schools		
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>		

### Community Classifications

The table below summarizes classifications for community programs available to the Town of Webb.

**Table 9.29-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No		
Storm Ready Certification	No		
Firewise Communities classification	No		
Other			

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.



**Table 9.29-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

### 9.29.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Webb.

**Table 9.29-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Webb	42	0	Not reported.	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

#### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Webb.

**Table 9.29-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	Information not available.



NFIP Topic	Comments
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	Information not available.
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	Information not available.
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	Information not available.
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	Information not available.
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	Information not available.
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Information not available.
Are any certified floodplain managers on staff in your jurisdiction?	Information not available.
Do you have access to resources to determine possible future flooding conditions from climate change?	Information not available.
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	Information not available.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Information not available.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Information not available.
What are the barriers to running an effective NFIP program in the community, if any?	Information not available.
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	Information not available.
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Information not available.
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	Information not available.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	Information not available.



NFIP Topic	Comments
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Information not available.

### 9.29.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.29-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.



**Table 9.29-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Multi-Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				

SFHA Special Flood Hazard Area (1% flood event)

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



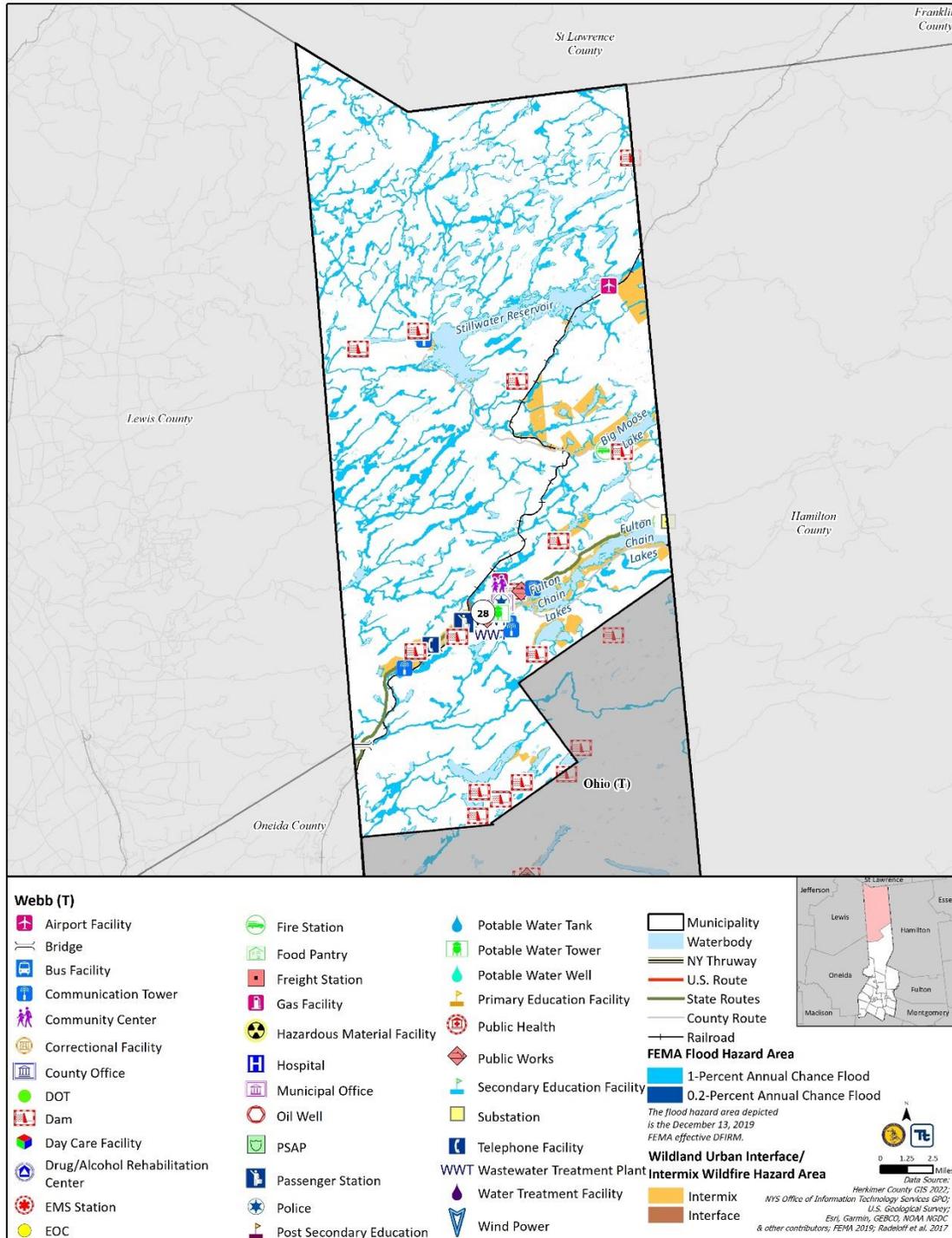
## 9.29.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant's vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Webb's risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Webb has significant exposure are provided.



Figure 9.29-1. Town of Webb Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Webb’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.29-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.29-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	Information not available.
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	Information not available.
January 2020 – ongoing	Covid-19 Pandemic	Yes		Information not available.
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	Information not available.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Webb’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Webb. The Town of Webb reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.29-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Information not available.
Drought	Information not available.
Flood	Information not available.
Severe Storm	Information not available.
Severe Winter Storm	Information not available.
Wildfire	Information not available.
Infestation	Information not available.
Dam Failure	Information not available.
Disease Outbreak	Information not available.

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.29-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Old Forge Reservoir Dam	Dam	X	X	-	-
Rondaxe Lake Dam	Dam	X	X	-	-
Sand Lake Dam	Dam	X	X	-	-
Second Bisby Lake Dam	Dam	X	X	-	-
Stillwater Reservoir Dam	Dam	X	X	-	-
Thendara Dam	Dam	X	X	-	-
Webb Town Police	Police	X	X	-	-
Webb Town Police Department Police Station Webb (T) 3139 State Route 28	Police	X	X	-	-

Source: Herkimer County 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Webb:

- Stillwater Reservoir Dam
- Woodhull Lake Dam

### Identified Issues

After review of the Town of Webb’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Webb identified the following vulnerabilities within their community:

- None identified.

## 9.29.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.



### Past Mitigation Initiative Status

The Town of Webb did not participate in the 2017 HMP

### Additional Mitigation Efforts

The Town of Webb identified the following mitigation efforts completed since 2017:

- None identified.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Webb participated in a mitigation action workshop in MONTH AND YEAR and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.29-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not available.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.29-16).

The table below summarizes the specific mitigation initiatives the Town of Webb would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



**Table 9.29-16. Proposed Hazard Mitigation Initiatives**

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

**Notes:**

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

**Acronyms and Abbreviations:**

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

**Potential FEMA HMA Funding Sources:**

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

**Timeline:**

The time required for completion of the project upon implementation.

**Cost:**

The estimated cost for implementation.

**Benefits:**

A description of the estimated benefits, either quantitative and/or qualitative.

**Critical Facility:**

Yes Critical Facility located in 1% floodplain

**Mitigation Category:**

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

**CRS Category:**



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.29-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.																	

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



## SECTION 9.

### 9.30 VILLAGE OF WEST WINFIELD

This section presents the jurisdictional annex for the Village of West Winfield that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Village participated in the planning process, an assessment of the Village of West Winfield's risk and vulnerability, the different capabilities used in the Village, and an action plan that will be implemented to achieve a more resilient community.

The Village of West Winfield identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many City departments, including the Mayor and City Engineer. The Village mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. Departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality's planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

#### 9.30.1 Hazard Mitigation Planning Team

The Village of West Winfield identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from Village departments. The mayor represented the community on the Herkimer County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality's planning process through



Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.30-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: <b>Andrew Bryce – Mayor</b> Address: <b>Box 308, West Winfield, NY 13491</b> Phone Number: <b>(315) 822-3051</b> Email: <a href="mailto:villageofwestwinfield@yahoo.com">villageofwestwinfield@yahoo.com</a>	Name/Title: Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	

### 9.30.2 Municipal Profile

The Village of West Winfield has a total area of 0.91 square miles, all of which is land. The Village is on U.S. Route 20 at the junction of New York State Route 51. US-20 leads east 11 miles to Richfield Springs and west three miles to Bridgewater. NY-51 leads south 12 miles to Burlington Flats.

According to the U.S. Census, the 2020 population for the Village of West Winfield was 733, a 4.4 percent increase from the 2010 Census. Data from the 2020 U.S. Census indicate that 23.7 percent of the population is 5 years of age or younger and 23.7 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

### 9.30.3 Jurisdictional Capability Assessment and Integration

The Village of West Winfield performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume 1, Section 6 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment includes the following analyses:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of the hazard mitigation analysis,



planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. The updated mitigation strategy provided an opportunity for the Village of West Winfield to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Village of West Winfield. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.30-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Columbia has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Town of Winfield	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town Comprehensive Plan discusses the Town zoning and land use codes –				
Subdivision Ordinance	No	-	-	-
Site Plan Ordinance	No	-	-	-
Stormwater Management Ordinance	No	-	-	-
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code – Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
Environmental Protection Ordinance	No	-	-	-
Flood Damage Prevention Ordinance	Yes.	The ordinance has been requested from the NYDEC.	Local	-
Wellhead Protection	No	-	-	-
Emergency Management Ordinance	No	-	-	-
Climate Change Ordinance	No	-	-	-
Other	No	-	-	-
<b>Planning Documents</b>				
Comprehensive Plan	Yes		Local	
<p><i>How has or will this be integrated with the HMP and how does this reduce risk?</i></p> <p>The Town Comprehensive Plan is intended to summarize and record the natural and historic assets of the Town of Columbia and document its essentially rural residential and agricultural character; provide guidelines for the preservation of the Town’s assets in a manner compatible with orderly economic growth; and provide a basis for creating a detailed Land Use Ordinance to guide the future development of the town.</p>				
Capital Improvement Plan	No	-	-	-
Disaster Debris Management Plan	No	-	-	-
Floodplain Management or Watershed Plan	No	-	-	-
Stormwater Management Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Open Space Plan	No	-	-	-
Urban Water Management Plan	No	-	-	-
Habitat Conservation Plan	No	-	-	-
Economic Development Plan	Yes		County	
Community Wildfire Protection Plan	No	-	-	-
Community Forest Management Plan	No	-	-	-
Transportation Plan	No	-	-	-
Agriculture Plan	No	-	-	-
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
Tourism Plan	No	-	-	-
Business/ Downtown Development Plan	No	-	-	-
Other (for example NYRCR, etc.)	No	-	-	-
<b>Response/Recovery Planning</b>				
	No	-	-	-
Continuity of Operations Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Substantial Damage Response Plan	No	-	-	-
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
Post-Disaster Recovery Plan	No	-	-	-
Public Health Plan	Yes		County	
Other	No	-	-	-

### Development and Permitting Capability

The table below summarizes the capabilities of the Village of West Winfield to oversee and track development.

**Table 9.30-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	N/A	-
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	-
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	-
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	-
Describe the level of build-out in your jurisdiction.	N/A	-

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of West Winfield and their current responsibilities that contribute to hazard mitigation.



**Table 9.30-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	
Zoning Board of Adjustment	Yes	
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	
Construction/Building/Code Enforcement Department	Yes	Codes Officer
Emergency Management/Public Safety Department	No	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

**Administrative/technical capability self-assessment**

**Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.**

The Village of West Winfield’s administrative and technical capabilities contribute to integration with the HMP and risk reduction through the review of permits, assessment and enforcement of zoning codes, and the maintenance of the Village. Together, the capabilities allow the Village to be prepared for the hazards which may impact its residents and visitors.

**Fiscal Capability**

The table below summarizes financial resources available to the Village of West Winfield.

**Table 9.30-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	-
Impact fees for homebuyers or developers of new development/homes	-
Stormwater utility fee	-
Incur debt through general obligation bonds	-
Incur debt through special tax bonds	-
Incur debt through private activity bonds	-
Withhold public expenditures in hazard-prone areas	-
Other federal or state Funding Programs	-
Open Space Acquisition funding programs	-
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	-

**Education and Outreach Capability**

The table below summarizes the education and outreach resources available to the Village of West Winfield.

**Table 9.30-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-



Outreach Resources	Available? (Yes/No)	Comment:
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	Yes	
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-

### Community Classifications

The table below summarizes classifications for community programs available to the Village of West Winfield.

**Table 9.30-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	6/6Y	2021
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

- N/A Not applicable
- Unavailable

### Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.



- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.30-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate

### 9.30.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

#### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of West Winfield.

**Table 9.30-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Village of West Winfield	0	1	\$6,567	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes: Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.



### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Village of West Winfield.

**Table 9.30-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> <li>Do you maintain a list of properties that have been damaged by flooding?</li> </ul>	The Town Park is in the flood plain, there are no buildings.
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> <li>How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li> </ul>	N/A
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> <li>If so, state what projects are underway.</li> </ul>	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> <li>How many were declared for recent flood events in your jurisdiction?</li> </ul>	N/A
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> <li>If there are mitigation properties, how were the projects funded?</li> </ul>	N/A
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> <li>If not, state why.</li> </ul>	N/A
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Town Board
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> <li>If so, what type of assistance/training is needed?</li> </ul>	N/A
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	N/A
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	N/A
What are the barriers to running an effective NFIP program in the community, if any?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> <li>If so, state the violations.</li> </ul>	N/A



NFIP Topic	Comments
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> <li>What is the date that your flood damage prevention ordinance was last amended?</li> </ul>	N/A
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> <li>If exceeds, in what ways?</li> </ul>	No
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Interested

### 9.30.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.30-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.30-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>												
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	-	-	-	-	-	-	-	-	-	-	-	-
Multi-Family	-	-	-	-	-	-	-	-	-	-	-	-
Other (commercial, mixed-use, etc.)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total New Construction Permits Issued</b>	-	-	-	-	-	-	-	-	-	-	-	-
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
<b>Recent Major Development and Infrastructure from 2017 to Present</b>												
-	-	-	-	-	-	-	-	-	-	-	-	-



Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
-	-	-	-	-	-

SFHA Special Flood Hazard Area (1% flood event)

\* Only location-specific hazard zones or vulnerabilities identified. Permitting information not available.

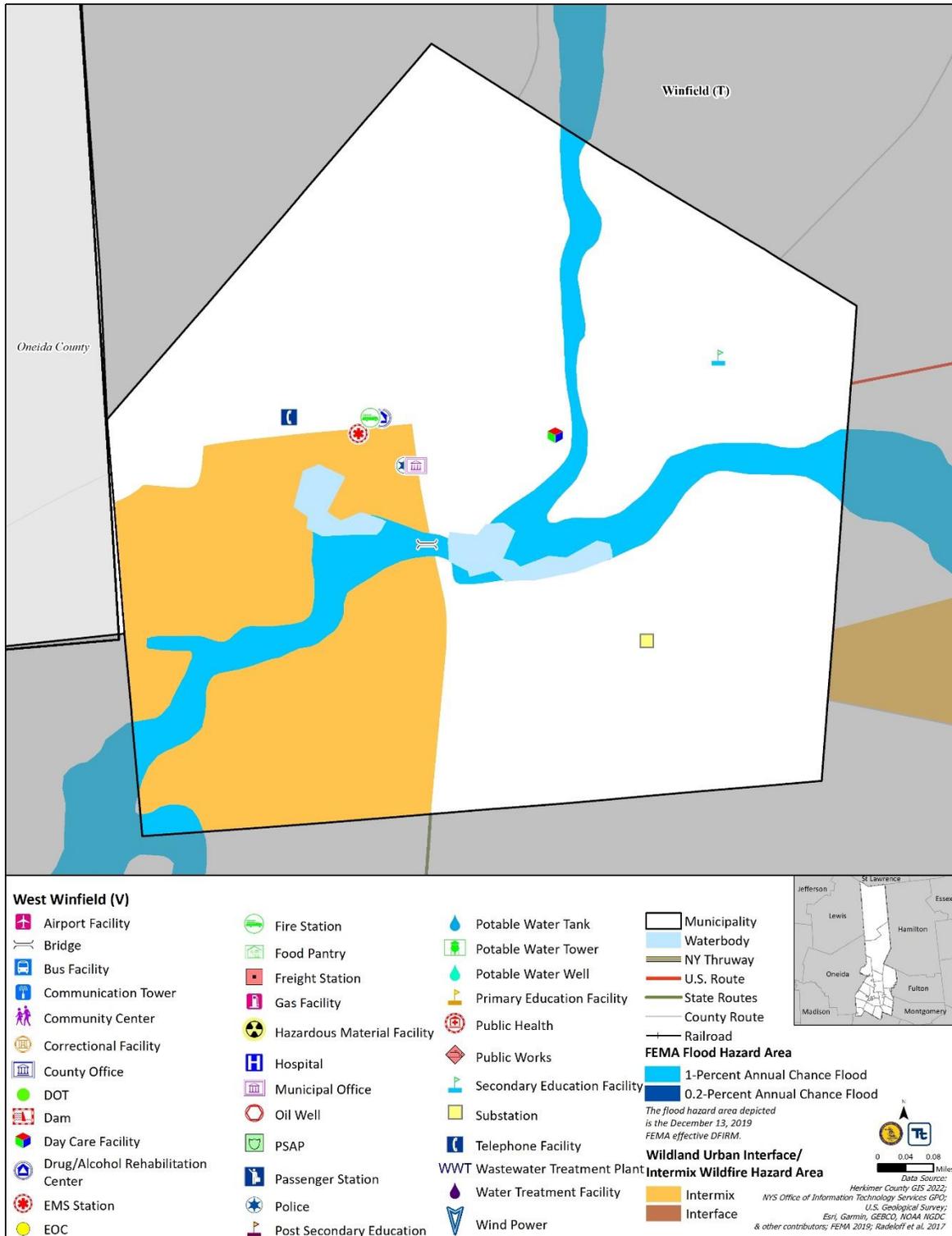
### 9.30.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Village of West Winfield’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Village of West Winfield has significant exposure are provided. The maps show the location of potential new development, where available.



Figure 9.30-1. Village of West Winfield Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Village of West Winfield’s history of federally-declared (as presented by FEMA) and significant hazard events [as presented in NOAA-National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.30-12 provides details regarding municipal-specific loss and damages the Village experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.30-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	None
October 31- November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	None
January 2020 – ongoing	Covid-19 Pandemic	Yes		
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	None

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of West Winfield’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of West Winfield. The Village of West Winfield reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village indicated the following:

- XXXX
- XXXX

Table 9.30-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction



### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.30-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
NY Route 51 bridge over Unadilla River	Bridge	X	X	2023-Village of West Winfield-001	-

Source: Herkimer County 2023

### Identified Issues

The Village of West Winfield’s provided available hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities.

### 9.30.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

The Town of West Winfield did not participate in the 2017 HMP. Previous actions that are now on-going programs and capabilities are indicated as such and previously presented in the ‘Capability Assessment’ earlier in this annex and documented mitigation actions to reduce hazard risk are included below.

### Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of West Winfield had access to a recording of the mitigation action workshop held in April 2023 as well as online FEMA publications posted on the county hazard mitigation website to



use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards. In addition, the Herkimer County Office of Emergency Services as well as the contract consultant provided individualized support to develop the [ ]' s mitigation strategies.

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

**Table 9.30-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature				X			X			
Drought				X			X			
Flood	X	X		X	X	X	X			X
Severe Storm	X	X		X	X	X	X			
Severe Winter Storm	X	X		X	X	X	X			
Wildfire	X	X		X		X	X			
Infestation				X			X			
Dam Failure	X			X	X		X			
Disease Outbreak				X			X			

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.30-16).

The table below summarizes the specific mitigation initiatives the Village of West Winfield would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.30-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Village of Winfield-001	Bridge Maintenance	1,3	Flood	<p><b>Problem:</b> The NY Route 51 bridge over Unadilla River is County-owned and is indicated as in poor condition in the NYS Highway Bridge inventory, 2023.</p> <p><b>Solution:</b> In partnership with the County of Herkimer, create a method to report needed bridge maintenance and any</p>	Yes	No	2 to 3 years	Department of Public Works	Low	High	Local Funds, BRIDGE NY	Medium	LP R	P R



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				deficiencies.										
2023-Village of Winfield -002	Flood Map updates	1, 3, 4	Flood	<p><b>Problem:</b> Flood mapping may not adequately address flood risk in the town</p> <p><b>Solution:</b> The Town will work with FEMA to update flood maps throughout the Town.</p>	No	No	Within 5 years	Village of Winfield	Low	High	Local Budget	High	EAP	ES, PI
2023-Village of Winfield -003	Develop Substantial Damage Response Plan	1	Dam Failure, Flood, Severe Storm, Wildfire, Severe Winter Storm	<p><b>Problem:</b> The Village does not have a determination process for substantially</p>	No	No	Within 2 years	Village of Winfield	Low	Medium	HMGP, CDBG, Local Budget	High	LP R	PR



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<p>damaged structures</p> <p><b>Solution:</b> The Village will develop a Substantial Damage Response Plan.</p>										
2023-Village of Winfield-004	Increase NFIP Capabilities	1,2	Flood	<p><b>Problem:</b> Repetitive loss residences are located in the floodplain.</p> <p><b>Solution:</b> Begin maintaining lists of property damage by flooding and of property owners who are interested in flood mitigation.</p>	No	Yes	2 to 3 years	Village Board, Village Clerk, Codes Enforcement	High	High	FMA	High	SIP	PP



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Village of Winfield-005	Outreach/education for all hazards	1, 2, 3	Dam Failure, Extreme Temperature, Drought, Flood, Severe Storm, Severe Winter Storm, Wildfire, Infestation, Dam Failure, Disease Outbreak	<p><b>Problem:</b> Residents are not fully aware of all hazards which may impact them and how to respond or prepare.</p> <p><b>Solution:</b> The Village will work with the County of Herkimer to develop and distribute educational materials regarding all hazards. The Village will utilize and</p>	No	No	1 year	Village Administration	Low	High	BRIC, HMGP	Medium	EAP	PI



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				disseminate the county materials noted in action number 2023-Herkimer County-022 to provide educational materials and information to residents with the intent of reducing their exposure and impacts to natural hazards. The Village will provide educational materials on the										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				village website on hazard risk reduction for extreme temperature and disease outbreak to reduce impacts on public health. Educational materials and public notice information on infestation hazards will also be provided on the website.										



Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2023-Village of Winfield-006	Emergency Generator	1	Flood, Severe storm, Wildfire, Severe Winter Storm	<p><b>Problem:</b> The Village Offices and Fire Station do not have backup generators.</p> <p><b>Solution:</b> The Village will purchase and install back up power generators at the Village Offices and Fire Station.</p>	Yes	No	1 to 2 years	Village of Winfield Department of Public Works	Low	Medium	HGMP, FMA, BRIC, Local Budget	High	SIP	PP

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program

Timeline:

The time required for completion of the project upon implementation.

Cost:



EHP Environmental Planning and Historic Preservation  
 FEMA Federal Emergency Management Agency  
 FPA Floodplain Administrator  
 HMA Hazard Mitigation Assistance  
 N/A Not applicable  
 NFIP National Flood Insurance Program  
 OEM Office of Emergency Management

BRIC Building Resilient Infrastructure and Communities Program

The estimated cost for implementation.  
 Benefits:  
 A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.30-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2023-Village of Winfield-001	Bridge Maintenance	0	1	1	1	0	0	1	0	0	0	1	1	0	0	6	Medium
2023-Village of Winfield -002	Flood Map updates	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	1
2023-Village of Winfield -003	Develop Substantial Damage Response Plan	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	1
2023-Village of Winfield -004	Increase NFIP Capabilities	1	1	1	1	0	0	1	0	0	1	0	1	0	0	7	1
2023-Village of Winfield -005	Outreach/education for all hazards	1	1	1	1	0	0	0	0	1	1	0	1	0	1	8	1
2023-Village of Winfield-006	Emergency Generator	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



# SECTION 9.30

## 9.31 TOWN OF WINFIELD

This section presents the jurisdictional annex for the Town of Winfield that provides resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions to reduce or eliminate damage to property and people that can be implemented prior to a disaster. Information presented includes a general overview of the municipality, who in the Town participated in the planning process, an assessment of the Town of Winfield’s risk and vulnerability, the different capabilities used in the Town, and an action plan that will be implemented to achieve a more resilient community.

***The Town of Winfield did not actively participate in the hazard mitigation planning process. This annex is provided to provide a foundation for future planning activities. The Town may opt to develop an annex to the plan in the future, and once approved by FEMA and adopted by the community will be eligible for FEMA pre-disaster mitigation funds.***

### 9.31.1 Hazard Mitigation Planning Team

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Volume 1, Section 3 (Planning Process) and Appendix C (Meeting Documentation).

**Table 9.31-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Al Moxhan – Fire Chief Address: Phone Number: 315-868-4932 Email:	Name/Title: Charles W. Osborn, Town Supervisor Address: Phone Number: Email:
<b>NFIP Floodplain Administrator</b>	
Name/Title: Address: Phone Number: Email:	
<b>Additional Contributors</b>	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	
Name/Title: Method of Participation:	



## 9.31.2 Municipal Profile

The Town of Winfield lies in the southwestern-most portion of Herkimer County. Founded in 1817, it's bordered by the Towns of Litchfield to the north and Columbia to the east (both in Herkimer County); with Bridgewater (Oneida County) to the west and Plainfield (Otsego County) to the south. The town is located approximately 15 miles south of Utica and nearly midway between Syracuse and Albany.

According to the U.S. Census, the 2020 population for the Town of Winfield was 1,164. Data from the 2020 U.S. Census indicate that 4.7 percent of the population is 5 years of age or younger and 17.4 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

## 9.31.3 Jurisdictional Capability Assessment and Integration

### Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the Town of Winfield. *The comment field provides information as to how the capability integrates hazard mitigation and risk reduction.*

**Table 9.31-2. Planning, Legal, and Regulatory Capability and Integration**

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
Building Code	Yes	New York Uniform Fire Prevention and Building Code	State and Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town of Columbia has adopted the New York State Uniform Fire Prevention and Building Codes.				
Zoning/Land Use Code	Yes	Town of Winfield	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Town Comprehensive Plan discusses the Town zoning and land use codes –				
Subdivision Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Site Plan Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Stormwater Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Post-Disaster Recovery/ Reconstruction Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<p>In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p>				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Environmental Protection Ordinance	Yes	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Flood Damage Prevention Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Planning Documents</b>				
Comprehensive Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Capital Improvement Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Disaster Debris Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Floodplain Management or Watershed Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Stormwater Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Open Space Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Urban Water Management Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Habitat Conservation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Economic Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Community Wildfire Protection Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Community Forest Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Agriculture Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Tourism Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Business/ Downtown Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other (for example NYRCR, etc.)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
<b>Response/Recovery Planning</b>				
Comprehensive Emergency Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Substantial Damage Response Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Post-Disaster Recovery Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Public Health Plan	No	-	-	-



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				

### Development and Permitting Capability

The table below summarizes the capabilities of the Town of Winfield to oversee and track development.

**Table 9.31-3. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?		
<ul style="list-style-type: none"> <li>If you issue development permits, what department is responsible?</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>If you do not issue development permits, what is your process for tracking new development?</li> </ul>	N/A	
Are permits tracked by hazard area? (For example, floodplain development permits.)		
Do you have a buildable land inventory?		
<ul style="list-style-type: none"> <li>If you have a buildable land inventory, please describe</li> </ul>	N/A	
Describe the level of build-out in your jurisdiction.	N/A	

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Winfield and their current responsibilities that contribute to hazard mitigation.

**Table 9.31-4. Administrative and Technical Capabilities**

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<b>Administrative Capability</b>		
Planning Board	Yes	
Zoning Board of Adjustment	Yes	
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	
Public Works/Highway Department	yes	



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Construction/Building/Code Enforcement Department	yes	Codes officer
Emergency Management/Public Safety Department	no	-
Warning Systems / Services (mass notification system, outdoor warning signals, etc.)	no	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	no	-
Mutual aid agreements	yes	
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	no	-
Other	no	-
<b>Technical/Staffing Capability</b>		
Planners or engineers with knowledge of land development and land management practices	no	-
Engineers or professionals trained in building or infrastructure construction practices	no	-
Planners or engineers with an understanding of natural hazards	no	-
Staff with expertise or training in benefit/cost analysis	no	-
Professionals trained in conducting damage assessments	no	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	no	-
Environmental scientist familiar with natural hazards	no	-
Surveyor(s)	no	-
Emergency Manager	no	-
Grant writer(s)	no	-
Resilience Officer	no	-
Other (this could include stormwater engineer, environmental specialist, etc.)	no	-
<b>Administrative/technical capability self-assessment</b>		
<i>Describe how your administrative/technical capabilities contribute to integration with the HMP and risk reduction in your community.</i>		



## Fiscal Capability

The table below summarizes financial resources available to the Town of Winfield.

**Table 9.31-5. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	N/A
Impact fees for homebuyers or developers of new development/homes	N/A
Stormwater utility fee	N/A
Incur debt through general obligation bonds	N/A
Incur debt through special tax bonds	N/A
Incur debt through private activity bonds	N/A
Withhold public expenditures in hazard-prone areas	N/A
Other federal or state Funding Programs	N/A
Open Space Acquisition funding programs	N/A
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	N/A

## Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Winfield.

**Table 9.31-6. Education and Outreach Capabilities**

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	No	-
Natural disaster/safety programs in place for schools	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? <ul style="list-style-type: none"> <li>If yes, please describe.</li> </ul>	No	-



## Community Classifications

The table below summarizes classifications for community programs available to the Town of Winfield.

**Table 9.31-7. Community Classifications**

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	6/6Y	2021
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

N/A Not applicable  
 - Unavailable

## Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each identified hazard of concern and the jurisdiction’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

**Table 9.31-8. Adaptive Capacity**

Hazard	Adaptive Capacity – Strong/Moderate/Weak
Extreme Temperature	Moderate
Drought	Moderate
Flood	Strong
Severe Storm	Strong
Severe Winter Storm	Moderate
Wildfire	Strong
Infestation	Weak
Dam Failure	Moderate
Disease Outbreak	Moderate



## 9.31.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP. The Floodplain Administrator is responsible for maintaining this information and is listed in the Hazard Mitigation Planning Team table at the beginning of this annex.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Winfield.

**Table 9.31-9. NFIP Summary**

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties (FMA definition)	# RL Properties (NFIP definition)	# SRL Properties	# Policies in the 1% Flood Boundary
Town of Winfield	1	1	60,692	0	0	0	Data not available.

Source: FEMA, accessed 4/21/23

Notes:

Policy data per HUDEX accessed 2/2023

RL Repetitive Loss

SRL Severe Repetitive Loss

RL FMA Definition Any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on the average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

RL NFIP Definition Any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978.

### Flood Vulnerability Summary

The following table provides a summary of the NFIP program in the Town of Winfield.

**Table 9.31-10. NFIP Summary**

NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction. Do you maintain a list of properties that have been damaged by flooding?	The town park is in the flood plan, there are no buildings.
Do you maintain a list of property owners interested in flood mitigation? How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	N/A
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	No
How do you make Substantial Damage determinations? How many were declared for recent flood events in your jurisdiction?	N/A
How many properties have been mitigated (elevation or acquisition) in your jurisdiction?	N/A



NFIP Topic	Comments
If there are mitigation properties, how were the projects funded?	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	N/A
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	Town Board
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? If so, what type of assistance/training is needed?	N/A
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	N/A
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	N/A
What are the barriers to running an effective NFIP program in the community, if any?	N/A
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? If so, state the violations.	None that I know of
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	Unknown
What is the local law number or municipal code of your flood damage prevention ordinance? What is the date that your flood damage prevention ordinance was last amended?	N/A
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	No
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	interested



### 9.31.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Table 9.31-11 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

**Table 9.31-11. Recent and Expected Future Development**

Type of Development	2017		2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Multi-Family	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Other (commercial, mixed-use, etc.)	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
<b>Total New Construction Permits Issued</b>	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development				
Recent Major Development and Infrastructure from 2017 to Present												
Information not available.	Information not available.	Information not available.		Information not available.		Information not available.		Information not available.				
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												



Type of Development	2017	2018	2019	2020	2021	2022
Information not available.						

SFHA Special Flood Hazard Area (1% flood event)

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

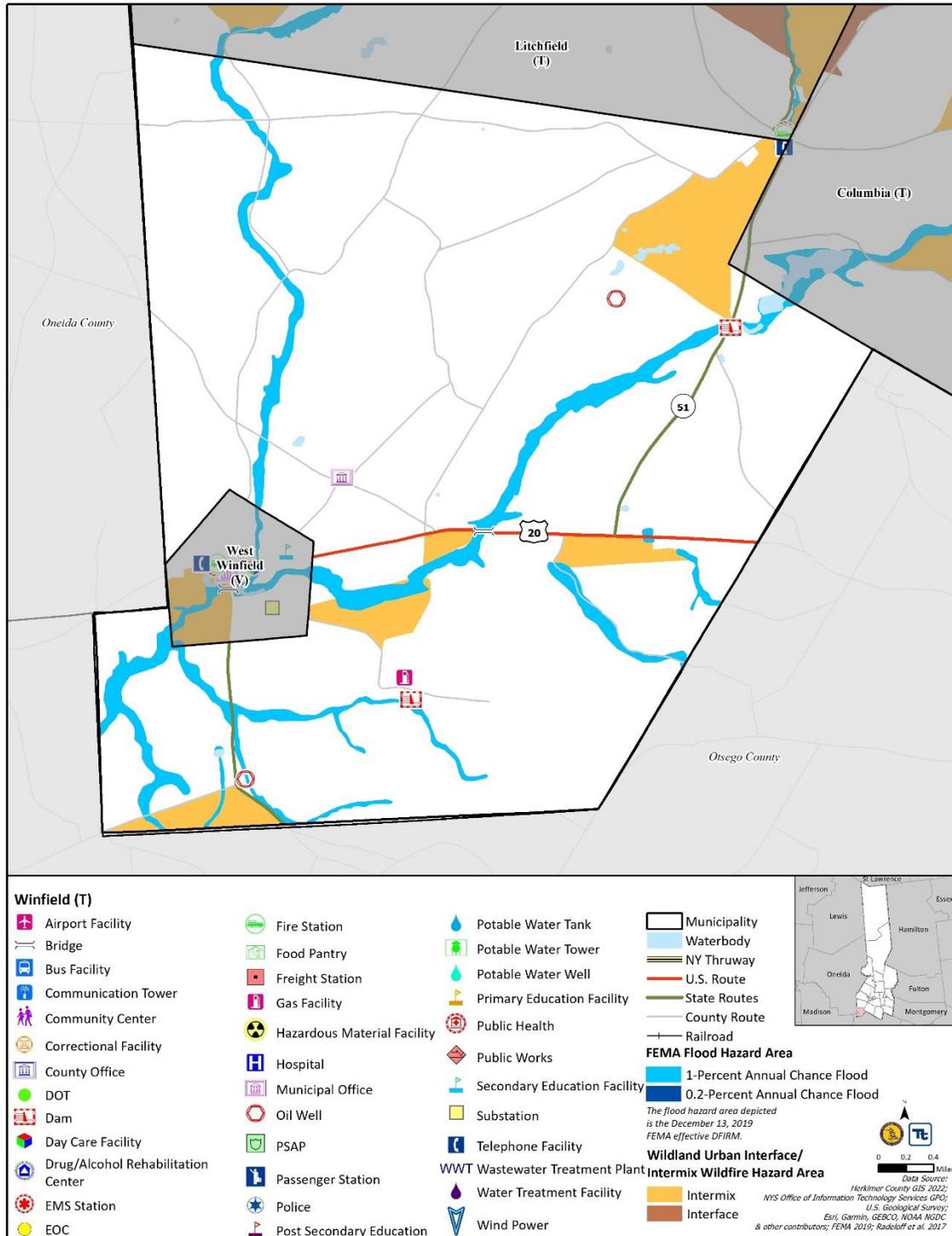
### 9.31.6 Jurisdictional Risk Assessment

The hazard profiles in Volume 1, Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) provide detailed summaries for the Town of Winfield’s risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps provided below illustrate the probable areas impacted within the jurisdiction based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Only maps for those hazards that can be identified clearly using mapping techniques and technologies and for which the Town of Winfield has significant exposure are provided.



Figure 9.31-1. Town of Winfield Hazard Area Extent and Location Map





## Hazard Event History

Herkimer County has a history of natural and non-natural hazard events, as detailed in Volume I, Section 5 (Risk Assessment). A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities.

The Town of Winfield’s history of federally declared (as presented by FEMA) and significant hazard events [as presented in NOAA–National Centers for Environmental Information (NCEI)] is consistent with that of the County. Table 9.31-12 provides details regarding municipal-specific loss and damages the Town experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources.

**Table 9.31-12. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
July 1, 2017	Heavy Rain and Flash Flood	N/A	Storms resulted in torrential rainfall and flash flooding in portions of Herkimer, Fulton, Warren, Washington, and Rensselaer Counties. The County had approximately \$1 million in property damage.	none
October 31–November 1, 2019	Severe Storms, Straight-Line Winds, and Flooding (DR-4472)	Yes	A large swath of rainfall totaling 2-5 inches, with isolated areas as high as 7 inches, occurred over the Mohawk Valley and southern Adirondacks, resulting in reports of flash flooding. Between 150 and 200 people were evacuated in Herkimer County. The County had over \$300,000 in property damage.	none
January 2020 – ongoing	Covid-19 Pandemic	Yes		
April 15, 2020	Thunderstorms	N/A	A series of strong thunderstorms impacted the Mohawk Valley in Herkimer County into Saratoga and Washington Counties, producing damaging winds. Around 71,000 customers were without power at the height of the storm.	none

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)



N/A Not applicable

### Hazard Ranking and Vulnerabilities

The hazard profiles in Volume 1, Section 5 (Risk Assessment) have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Winfield’s risk assessment results and data used to determine the hazard ranking.

#### Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Volume 1, Section 5 (Risk Assessment). The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; and community capabilities to address the hazard and changing future climate conditions. Mitigation action development uses the inputs from the evaluation to target those hazards with highest level of concern.

As discussed in Volume 1, Section 5.3 (Hazard Ranking), each participating jurisdiction has differing degrees of risk exposure and vulnerability compared with the County as a whole. Therefore, each jurisdiction ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Winfield. The Town of Winfield reviewed the County hazard risk/vulnerability risk ranking table and individual results to reflect the relative risk of the hazards of concern to the community.

Table 9.31-13. Hazard Ranking Input

Hazard	Rank
Extreme Temperature	Low
Drought	Low
Flood	Low
Severe Storm	High
Severe Winter Storm	Medium
Wildfire	Low
Infestation	Low
Dam Failure	Low
Disease Outbreak	Medium

Note: The scale is based on the hazard rankings established in Volume 1, Section 5.3 (Hazard Ranking) and modified as appropriate during review by the jurisdiction

#### Critical Facilities

NYSDEC Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a SFHA unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at



<http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, New York State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazus-MH estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

**Table 9.31-14. Potential Flood Losses to Critical Facilities**

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Cedarville Fire Department Fire Station	Fire Station	X	X	-	-
Columbia Litchfield Fire District	EMS Station	X	X	-	-
Columbia Litchfield Fire District Fire Station	Fire Station	X	X	-	-
Station 245 Dam	Dam	X	X	-	-
US Highway 20 bridge over Unadilla River	Bridge	X	X	-	-
WINDSTREAM TELEPHONE SWITCH	Telephone Facility	X	X	-	-

Source: Herkimer County, 2023

In addition to critical facilities that are exposed to flooding, the following high hazard dams are located in or could impact the Town of Winfield:

- None

### Identified Issues

After review of the Town of Winfield’s hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the Town of Winfield identified the following vulnerabilities within their community:

- None identified.

## 9.31.7 Mitigation Strategy and Prioritization

This section discusses proposed hazard mitigation initiatives and prioritizes actions to address over the next five years.

### Past Mitigation Initiative Status

The Town of Winfield did not participate in the 2017 HMP.



## Additional Mitigation Efforts

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The Town of Winfield identified the following mitigation efforts completed since 2017:

- None identified.



### Proposed Hazard Mitigation Initiatives for the HMP Update

The Town of Winfield participated in a mitigation action workshop in MONTH AND YEAR and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide-range of activities and mitigation measures selected.

**Table 9.31-15. Analysis of Mitigation Actions by Hazard and Category**

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Extreme Temperature	Information not available.									
Drought	Information not available.									
Flood	Information not available.									
Severe Storm	Information not available.									
Severe Winter Storm	Information not available.									
Wildfire	Information not available.									
Infestation	Information not available.									
Dam Failure	Information not available.									
Disease Outbreak	Information not									



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
	availabl e.									

Note: Mitigation categories are described below the Mitigation Initiatives Table (Table 9.31-16).

The table below summarizes the specific mitigation initiatives the Town of Winfield would like to pursue in the future to reduce the effects of hazards. The initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities.



Table 9.31-16. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard (s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.	Information not available.				

Notes:

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

Acronyms and Abbreviations:

- CAV Community Assistance Visit
- CRS Community Rating System
- DPW Department of Public Works
- EHP Environmental Planning and Historic Preservation
- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

- FMA Flood Mitigation Assistance Grant Program
- HMGP Hazard Mitigation Grant Program
- BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation.

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.

Critical Facility:

Yes Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:



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



The prioritization criteria provided in Volume 1 Section 6 (Mitigation Strategy) identify 14 evaluation/prioritization criteria to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as ‘High’, ‘Medium’, or ‘Low.’ The table below provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

**Table 9.31-17. Summary of Prioritization of Actions**

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Information not available.																	

Note: Volume 1, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).