



7. VILLAGE OF CATTARAUGUS

This jurisdictional annex to the Cattaraugus County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Village of Cattaraugus with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of Cattaraugus, describes who participated in the planning process, assesses Cattaraugus’s risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

7.1 HAZARD MITIGATION PLANNING TEAM

The Village of Cattaraugus identified primary and alternate HMP points of contact and developed this plan over the course of several months, with input from many Village departments. The Public Works Superintendent represented the community on the Cattaraugus County HMP Planning Partnership and supported the local planning process 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.

Table 7-1 summarizes Village officials who participated in the development of the annex and in what capacity. Additional documentation of the Village’s planning activities through Planning Partnership meetings is included in Volume I.

Table 7-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Jonathon Wolfe, Public Works Superintendent Address: 14 Main Street, Cattaraugus, NY 14719 Phone Number: (716) 257-5114 Email: cattdpw@gmail.com	Name/Title: Anthony Nagel, Mayor Address: 14 Main Street, Cattaraugus, NY 14719 Phone Number: (716) 257-3661 Email: mayor@villagecattaraugus.com
National Flood Insurance Program Floodplain Administrator	
Name/Title: Kyle Harris, Code Enforcement Officer Address: 14 Main Street, Cattaraugus, NY 14719 Phone Number: Unavailable Email: Unavailable	

7.2 COMMUNITY PROFILE

The Village of Cattaraugus lies in the northwest part of Cattaraugus County in western New York State and has a total area of 1.12 square miles. The village is bordered to the north by Town of Otto and the Town of Persia, to the east is the Town of Ellicottville, to the south is the Town of New Albion, and to the west is the Town of Leon.

Research has shown that some populations are at greater risk from hazard events because of decreased resources or physical abilities. These populations can be more susceptible to hazard events based on a number of factors including their physical and financial ability to react or respond during a hazard, and the location and construction quality of their housing. Data from the 2022 5-Year American Community Survey indicates that 5.1 percent of the population is 5 years of age or younger, 17.4 percent is 65 years of age or older, 3.2 percent is non-English speaking, 18.9 percent is below the poverty threshold, and 19.6 percent is considered disabled.



7.3 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

Cattaraugus performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume I describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

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

7.3.1 Planning and Regulatory Capability and Integration

Table 7-2 summarizes the planning and regulatory tools that are available to Cattaraugus.

Table 7-2. Planning 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)	Responsible Person, Department or Agency
CODES, ORDINANCES, & REGULATIONS				
Building Code	Yes	Local Law 5, 2006:	State and Local	CEO
How has or will this be integrated with the HMP and how does this reduce risk? This local law provides for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (the Uniform Code), the State Energy Construction Code (the Energy Code), and the Zoning Law in the Village of Cattaraugus. This local law is adopted pursuant to section 10 of the Municipal Home Rule Law. Except as otherwise provided in the Uniform Code, other state law, or other sections of this local law, all buildings, structures, and premises, regardless of use or occupancy, are subject to the provisions of this local law				
Zoning/Land Use Code	Yes	Zoning Law 2002	Local	CEO
How has or will this be integrated with the HMP and how does this reduce risk? For the purpose of promoting the public health, safety, comfort and general welfare; conserving and protecting property and property values; securing the most appropriate use of land; lessening or avoiding congestion in the public streets and highways; minimizing flood losses in areas subject to periodic inundation; and facilitating adequate but economical provision of public improvements, all in accordance with a comprehensive plan, the Village Board finds it necessary and advisable to regulate the location, size and use of buildings and other structures; percentages of lot area which may be occupied; setback building lines; sizes of yards, courts and other open spaces and the use of land for trade, industry,				



	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)	Responsible Person, Department or Agency
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residences, recreation or other purposes, and for such purpose divides the incorporated area of the Village into districts or zones.

Subdivision Code	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Site Plan Code	Yes	Zoning Law 2002, Article 10: Site Plan Review	Local	Planning Board
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How has or will this be integrated with the HMP and how does this reduce risk?
 The purpose of this article is to ensure that any new development, substantial redevelopment, or change of use in the Village of Cattaraugus is in harmony with the character of the village. Another purpose is to minimize conflicts between future development and neighboring existing uses and natural features of the site; this will minimize any potential adverse effects to the health, safety, and general welfare of the residents of the Village of Cattaraugus.

Stormwater Management Code	Yes	Zoning Law 2002, Section 9.15 Stormwater Management and Erosion Control	Local	CEO
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How has or will this be integrated with the HMP and how does this reduce risk?
 The intent and purpose of this section is to protect, maintain and enhance both the immediate and long-term health, safety and welfare of the residents of the Village of Cattaraugus. In order to achieve these goals, this section has the following objectives: (1) to prevent increases in the magnitude and frequency of stormwater runoff, so as to prevent an increase in flood flows and in the hazards and costs associated with flooding; (2) to maintain the integrity of stream geometry so as to sustain the hydrologic functions of streams; and (3) to control erosion and sedimentation so as to prevent its deposition in streams and other receiving bodies.

Post-Disaster Recovery/ Reconstruction Code	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

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

Environmental Protection Ordinance(s)	Yes	Zoning Law 2002, Section 9.21: Stripping of Topsoil	State and Local	CEO and Planning Board
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How has or will this be integrated with the HMP and how does this reduce risk?
 Where permitted in Article 7 of this law by special use permit, all stripping of topsoil for sale or use off site shall conform to the following requirements. Excavation or grading that is incidental to the construction or alteration of a building, structure or parking area for which a permit has been obtained is exempt from these regulations.
 (A) Applicant shall submit to the Planning Board a plan of operation. The Planning Board may make modifications to this plan, including hours of operation.
 (B) No topsoil stripping activity shall be operated in such a way as to cause excessive dust, noise, traffic or other conditions inappropriate for the neighborhood in which it is located, or so as to endanger the stability of adjacent land or structures.



	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)	Responsible Person, Department or Agency
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(C) The Planning Board may require a site restoration plan to be presented prior to the grant of special use permit. The Board may also require that a bond be posted with the Village in an amount adequate to complete the restoration plan.
 (D) A stormwater management and erosion control plan shall be required.

Flood Damage Prevention Ordinance	Yes	Zoning Law 2002, Section 9.7 Areas of Special Flood Hazard (SFHA)	State and Local	CEO
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How has or will this be integrated with the HMP and how does this reduce risk?
 The purposes of this section are:

- (1) to protect human life and health;
- (2) to minimize expenditure of public money for costly flood control projects;
- (3) to minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- (4) to minimize prolonged business interruption;
- (5) to minimize damage to public facilities and utilities such as water and gas mains, electric, telephone, sewer lines, and streets and bridges that are located in areas of special flood hazard; and
- (6) To help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas.

Wellhead Protection	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Emergency Management Ordinance	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Climate Change Ordinance	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

Other	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

PLANNING DOCUMENTS

General/Comprehensive Plan	No	-	-	-
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How has or will this be integrated with the HMP and how does this reduce risk?

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?



	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)	Responsible Person, Department or Agency
Stormwater Management Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Open Space Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Urban Water Management Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Habitat Conservation Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Economic Development Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Community Wildfire Protection Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Community Forest Management Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Transportation Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Agriculture Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Climate Action/ Resilience/Sustainability Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Tourism Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Business/ Downtown Development Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Other How has or will this be integrated with the HMP and how does this reduce risk?	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)	Responsible Person, Department or Agency
RESPONSE/RECOVERY PLANNING				
Comprehensive Emergency Management Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Continuity of Operations Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Substantial Damage Response Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Threat and Hazard Identification and Risk Assessment How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Post-Disaster Recovery Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Public Health Plan How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-
Other How has or will this be integrated with the HMP and how does this reduce risk?	No	-	-	-

7.3.2 Development and Permitting Capability

Table 7-3 summarizes the capabilities of Cattaraugus to oversee and track development.

Table 7-3. Development and Permitting Capability

	Yes/No	Comment
Do you issue development permits? <ul style="list-style-type: none"> If you issue development permits, what department is responsible? If you do not issue development permits, what is your process for tracking new development? 	Yes	CEO and Zoning Board
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain
Do you have a buildable land inventory? <ul style="list-style-type: none"> If you have a buildable land inventory, please describe 	No	-



	Yes/No	Comment
Describe the level of buildout in your jurisdiction.	N/A	Portions of the Village are eligible for future development.

7.3.3 Administrative and Technical Capability

Table 7-4 summarizes potential staff and personnel resources available to Cattaraugus and their current responsibilities that contribute to hazard mitigation.

Table 7-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comment (available staff, responsibilities, support of hazard mitigation)
ADMINISTRATIVE CAPABILITY		
Planning Board	Yes	Joint planning board with the Town of New Albion.
Zoning Board of Adjustment	Yes	With due consideration for the purpose and intent of this Zoning Law, the Zoning Board of Appeals shall have the power and authority to: (1) Hear and determine appeals from and review any order, requirement, decision or determination made by the Zoning Inspector charged with the enforcement of this local law. (2) Hear and decide all matters referred to it, or upon which it is required to pass under this local law. (3) Hold public hearings and approve or disapprove each application for a use or area variance, as defined in this local law. (4) Revoke any decision to grant a variance, after a public hearing, if the owner/applicant fail to comply with any conditions of approval of the original application Prior to a public hearing on this issue, the zoning inspector shall pursue abatement of the failure to comply as a violation in accordance with Article 14 of this local law.
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	Superintendent of Public Works
Construction/Building/Code Enforcement Department	Yes	Code Enforcement Officer
Emergency Management/Public Safety Department	Yes	Police
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	No	-



Resources	Available? (Yes/No)	Comment (available staff, responsibilities, support of hazard mitigation)
or implementing mitigation projects or other efforts to reduce natural hazard risk?		
Other	No	-
TECHNICAL/STAFFING CAPABILITY		
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 Hazus applications	No	-
Staff that work with socially vulnerable populations or underserved communities	No	-
Environmental scientists familiar with natural hazards	No	-
Surveyors	No	-
Emergency manager	No	-
Grant writers	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

7.3.4 Fiscal Capability

Table 7-5 summarizes financial resources available to Cattaraugus.

Table 7-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvement 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	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	No
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

7.3.5 Education and Outreach Capability

Table 7-6 summarizes the education and outreach resources available to Cattaraugus.

Table 7-6. 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	Siren
Natural disaster/safety programs in place for schools	No	-
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	No	-

7.3.6 Community Classifications

Table 7-7 summarizes classifications for community programs available to Cattaraugus.

Table 7-7. Community Classifications

Program	Participating? (Yes/No)	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
National Weather Service StormReady Certification	No	-	-
Firewise Communities classification	No	-	-
New York State Climate Smart Communities	No	-	-



Program	Participating? (Yes/No)	Classification	Date Classified
Other: Organizations with mitigation focus (advocacy group, non-government)	No	-	-

N/A = Not applicable
 — = Unavailable

7.3.7 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 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 7-8 summarizes the adaptive capacity for each identified hazard of concern and the Village’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 7-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Dam and Levee Failure	Moderate
Flood	Moderate
Landslide	Moderate
Pandemic	Moderate
Severe Storm	Moderate
Severe Winter Storm	Moderate
Utility Interruption	Moderate
Wildfire	Moderate

7.4 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in Table 7-1 is responsible for maintaining this information.

7.4.1 NFIP Statistics

Table 7-9 summarizes the NFIP policy and claim statistics for Cattaraugus.

Table 7-9. Cattaraugus NFIP Summary of Policy and Claim Statistics

# Policies	0
# Claims (Losses)	21
Total Loss Payments	\$31,836.50



# Repetitive Loss Properties (NFIP definition)	1
# Repetitive Loss Properties (FMA definition)	0
# Severe Repetitive Loss Properties	0

NFIP Definition of Repetitive Loss: The NFIP defines a repetitive loss property as any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP within any rolling 10-year period since 1978.

FMA Definition of Repetitive Loss: FEMA’s Flood Mitigation Assistance (FMA) program defines a repetitive loss property as any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

Definition of Severe Repetitive Loss: A residential property covered under an NFIP flood insurance policy and: (a) That has at least four NFIP claim payments over \$5,000 each, and the cumulative amount of such claims payments exceeds \$20,000; or (b) For which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. At least two of the claims must have occurred within any 10-year period, more than 10 days apart.

Source: FEMA 2024

7.4.2 Flood Vulnerability Summary

Table 7-10 provides a summary of the NFIP program in Cattaraugus.

Table 7-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	Creek Areas
Do you maintain a list of properties that have been damaged by flooding?	Yes
Do you maintain a list of property owners interested in flood mitigation?	No
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	None
Are any RiskMAP projects currently underway in your jurisdiction? If so, state what projects are underway.	No
How do you make Substantial Damage determinations?	Inspections
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? If there are mitigation properties, how were the projects funded?	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? If not, state why.	Will adequately address after FEMA approves an updated version
NFIP Compliance	
What local department is responsible for floodplain management?	Code Enforcement
Are any certified floodplain managers on staff in your jurisdiction?	No



NFIP Topic	Comments
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes, County GIS
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?	More localized (or on site) training to Cattaraugus County so training is more feasible to do with limited staffing.
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?	Inspections
What are the barriers to running an effective NFIP program in the community, if any?	Limited staffing and financial resources
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)?	CAC: April 16, 2018 CAV: Not applicable
What is the local law number or municipal code of your flood damage prevention ordinance?	Zoning Law 2002, Section 9.7 Areas of Special Flood Hazard (SFHA)
What is the date that your flood damage prevention ordinance was last amended?	June 25, 2006
Does your floodplain management program meet or exceed minimum requirements? If exceeds, in what ways?	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, Flood risk is considered
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No

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. Recent and expected future development trends, including major residential/commercial development and major infrastructure development, are summarized in Table 7-11 through Table 7-13.

Table 7-11. Number of Building Permits for New Construction Issued Since the Previous HMP

	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
2019				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2020				



	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2021				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2022				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2023				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2024				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0

SFHA = Special Flood Hazard Area (1% flood event)

Table 7-12. Recent Major Development and Infrastructure from 2019 to Present

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
The Village did not indicate any recent major development or infrastructure occurred between 2019 to present.					

* Only location-specific hazard zones or vulnerabilities identified.

Table 7-13. Known or Anticipated Major Development and Infrastructure in the Next Five Years

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
The Village did not indicate any known or anticipated major development or infrastructure in the next five years.					

7.6 JURISDICTIONAL RISK ASSESSMENT

The hazard profiles in Volume I provide detailed information regarding each planning partner’s vulnerability to the identified hazards, including summaries of Cattaraugus’s risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

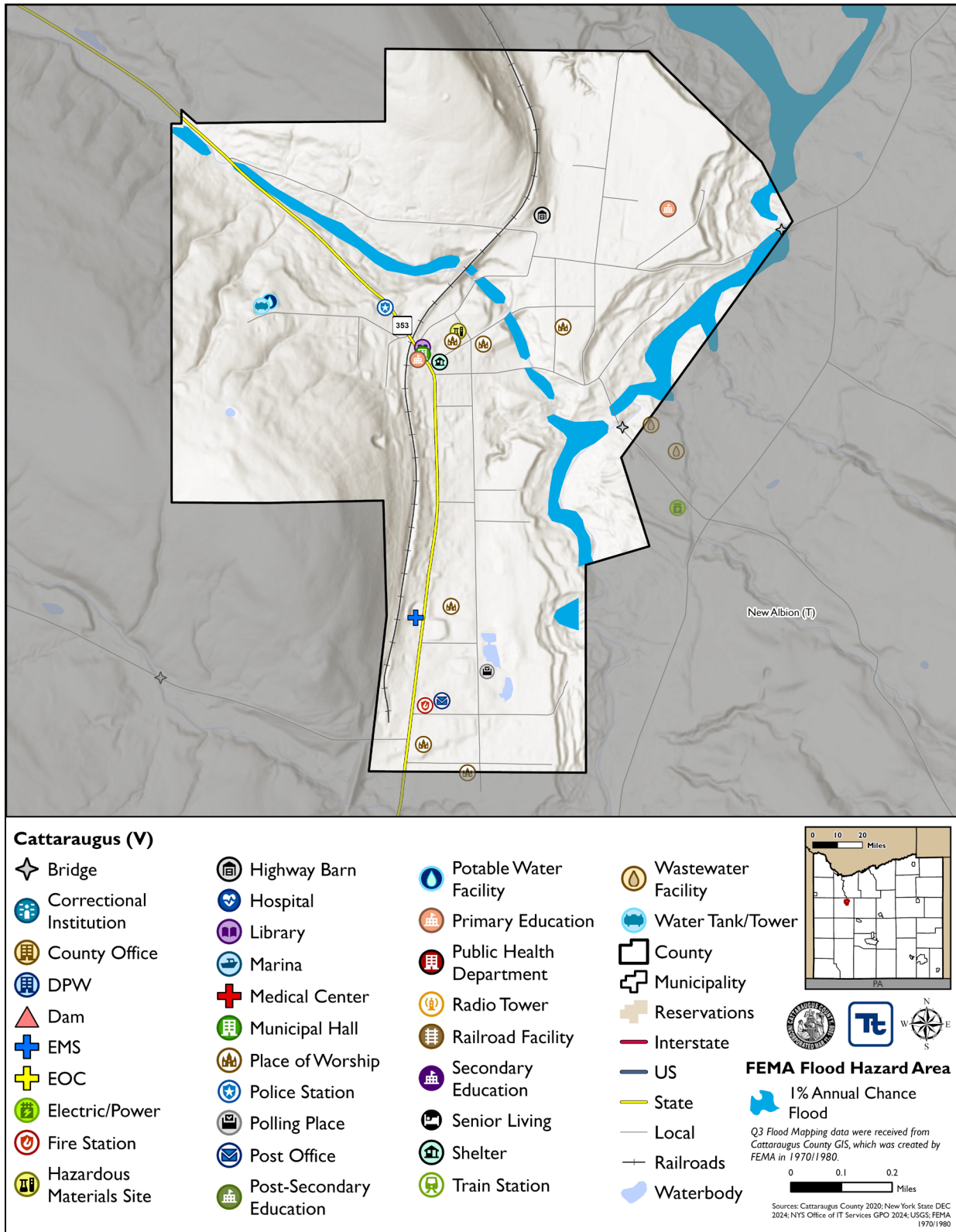


7.6.1 Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the Village are shown in Figure 7-1 through Figure 7-2. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Cattaraugus has significant exposure. The maps show the location of potential new development, where available.



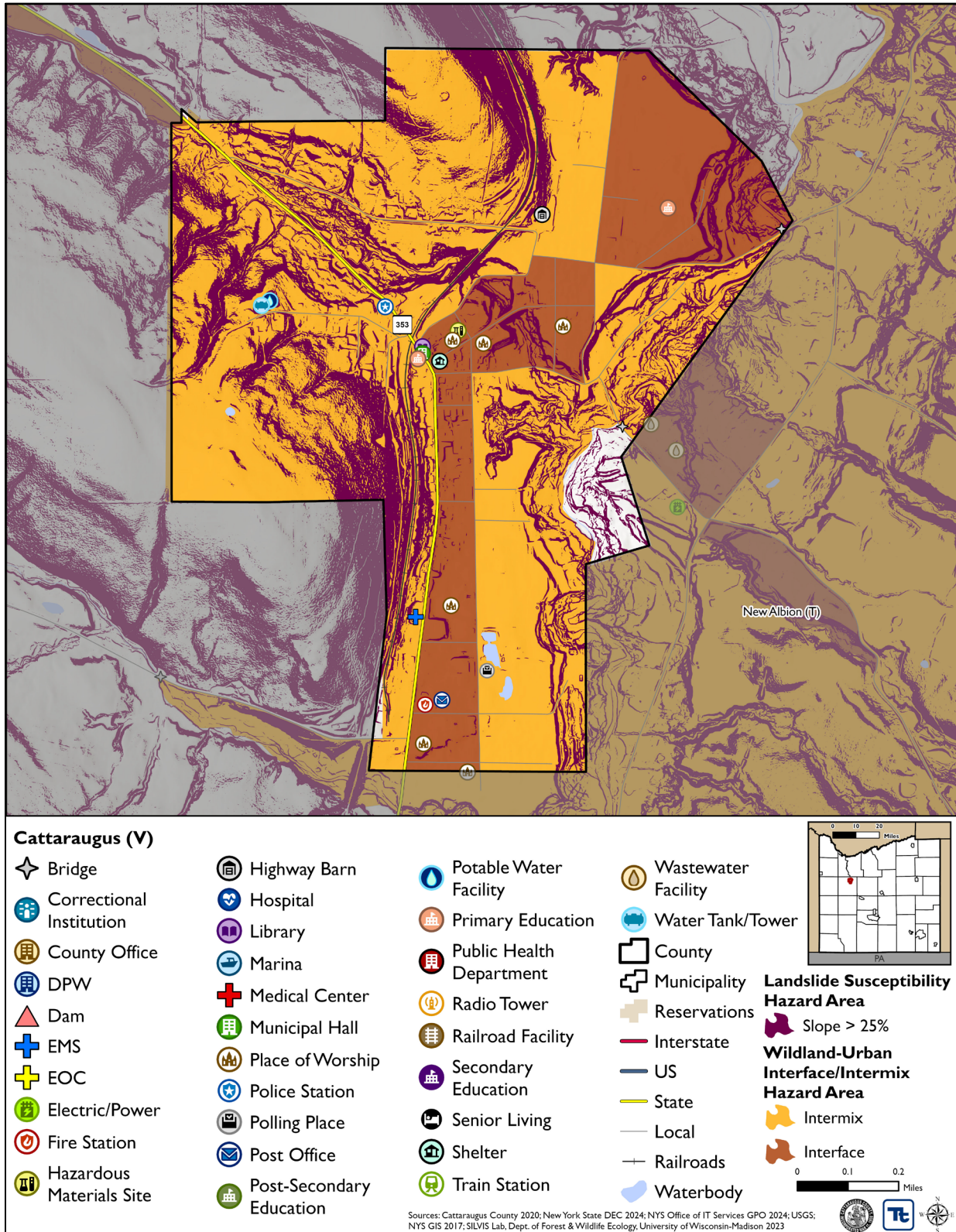
Figure 7-1. Cattaraugus Flood Hazard Area Extent and Location Map



Note: The shown flood hazard area is limited to the FEMA-defined flood hazard areas. Areas of localized flooding are not reflected in the above Figure.



Figure 7-2. Cattaraugus Landslide and Wildfire Hazard Area Extent and Location Map





7.6.2 Hazard Event History

The history of natural and non-natural hazard events in Cattaraugus is detailed in Volume I, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 7-14 provides details on loss and damage in Cattaraugus during hazard events since the last hazard mitigation plan update.

Table 7-14. Hazard Event History in Cattaraugus

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Cattaraugus
October 31- November 1, 2019	DR-4472	No	Severe Storms, Straight-Line Winds, and Flooding	The Village did not incur any documented damage or losses.
March 13, 2020	EM-3434 DR-4480	Yes	COVID-19 Pandemic	The Village did not incur any documented damage or losses.
January 12, 2020	High Wind	N/A	High wind	The Village did not incur any documented damage or losses.
July 16, 2020	Thunderstorm Wind	N/A	Trees and wires were reported down in Gowanda.	The Village did not incur any documented damage or losses.
July 19, 2020	Thunderstorm Wind	N/A	Multiple reports of trees down around Gowanda, Ashville Bay, Napoli and Portville.	The Village did not incur any documented damage or losses.
August 15, 2020	Flash Flood	N/A	Marble Road and Potter Road in Lime Lake were reported to be washed out by law enforcement.	The Village did not incur any documented damage or losses.
September 7, 2020	Thunderstorm Wind	N/A	Property damage in Olean.	The Village did not incur any documented damage or losses.
November 15, 2020	High Wind	N/A	Property damage throughout Cattaraugus County.	The Village did not incur any documented damage or losses.
July 13, 2021	Thunderstorm Wind	N/A	Several reports were received of trees down, trees on cars, trees on houses, and powerlines down in Salamanca, Olean, and Allegany.	The Village did not incur any documented damage or losses.
December 11, 2021	High Wind	N/A	Dozens of reports of trees and powerlines down were received.	The Village did not incur any documented damage or losses.
March 6, 2022	High Wind	N/A	High wind	The Village did not incur any documented damage or losses.
July 24, 2022	Thunderstorm Wind	N/A	Trees and powerlines reported down in East Otto, Randolph, and South Dayton.	The Village did not incur any documented damage or losses.



Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in Cattaraugus
November 20, 2022	EM-3589	Yes	Severe Winter Storm and Snowstorm	The Village did not incur any documented damage or losses.

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

7.6.3 Hazard Ranking and Vulnerabilities

The hazard profiles in Volume I have detailed information regarding each planning partner’s vulnerability to the identified hazards. The following presents key risk assessment results for Cattaraugus .

Hazard Ranking

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume I. 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; community capabilities to address the hazard; and changing future climate conditions. Cattaraugus reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Village noted the following:

- The Village decreased the Dam and Levee Failure hazard from ‘Low’ to ‘No Risk’ due to no nearby dams which pose significant risk to the jurisdiction.

Table 7-15 shows Cattaraugus’s final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 7-15. Hazard Ranking

Hazard	Rank
Dam and Levee Failure	No Risk
Flood	Medium
Landslide	Medium
Pandemic	Medium
Severe Storm	High
Severe Winter Storm	High
Utility Failure	Medium
Wildfire	Medium

Note: The scale is based on the hazard rankings established in Volume I, modified as appropriate based on review by the jurisdiction



Critical Facilities

Table 7-16 identifies critical facilities in the community located in the 1 percent and 0.2 percent annual chance floodplains.

Table 7-16. Critical Facilities Flood Vulnerability

Name	Type	Vulnerability		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
New Albion 29	Bridge	X	-	2025-CattaraugusV-12	-

Source: Cattaraugus County 2024

7.6.4 Identified Issues

After a review of Cattaraugus’s hazard event history, hazard rankings, hazard location, and current capabilities, Cattaraugus identified the following vulnerabilities within the community:

- Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The Village has one repetitive loss property, but other properties may be impacted by flooding as well.
- Landslide events are often driven by hazards such as heavy rain events, flooding, heavy snowmelt, and wildfires. Landslides can destroy the natural and built environments, causing detriment to the structures in its path. The Village does not have an inventory of roads which may be impacted by landslides.
- Floodplain managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later.
- The current flood damage prevention ordinance does not include the 2-foot mandated NYS freeboard requirements. While the existing ordinance may be compliant with NFIP requirements, State requirements which exceed NFIP requirements must be adhered to.
- The Village faces risk from wildfires but does not have a comprehensive education and outreach program to educate residents and businesses about hazard mitigation, preparation, response, and recovery utilizing a variety of outreach methods. The Village does not currently have hazard mitigation information and outreach on the Village website.
- The unnamed stream which traverses through the Village is experiencing stream bank erosion issues, threatening encroachment onto nearby roads. Stream banks become eroded due to heavy rains from severe storms, degradation from flood waters and compacted snow and ice from severe winter storms. Stabilization measures, such as including gabions, riprap, drainpipes and/or related improvements, should be considered to prevent flooding and potential landslide issues.
- The Village has an outdated Comprehensive Emergency Management Plan (CEMP). Hazard mitigation principles need to be integrated into the CEMP. A CEMP establishes the overall authority, roles, and functions performed during incidents. Incorporating hazard mitigation principles into a CEMP ensures hazard risk is identified.
- Critical facilities require backup power to ensure continuity of operations. The Village Hall and several sewer pumps do not have back up power, which could impact the continuity of operations at the facilities in the



event of a utility or power failure. High winds associated with severe storms and severe winter storms are known to cause utility failures, which would impact the continuity of operations at both critical facilities. Rising water levels from floods could impact these facilities; back-up generators would permit any influx of water to be removed from the facilities via pumping systems

- Undersized drainage often results in the flooding of roadways due to the inability to handle the influx of water. Debris build-up in these undersized pipes may also result in water back-flow, leading to further roadway flooding instances and impacting the integrity of the drainage system. Existing pipes within the Village's west side are undersized or have been damaged from instances of flooding and the debris caused by severe storms and severe winter winters.
- The Village faces risk from pandemic but does not have a comprehensive education and outreach program to educate residents and businesses about hazard mitigation, preparation, response, and recovery utilizing a variety of outreach methods. The Village does not currently have hazard mitigation information and outreach on the Village website.
- Scour on bridges can develop due to erosion. Erosion may occur due to waters impacting the bridge's structure during severe winter storms and severe storms when the precipitation causes the water movements to be more erratic. Rising waters may cause flooding conditions to further erode the structure of the bridge. The following bridges in the jurisdiction should be evaluated to determine useability and to identify potential solutions, as necessary:
 - New Albion 29

7.7 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses the status of mitigation actions from the previous HMP, describes proposed hazard mitigation actions, and prioritizes actions to address over the next five years.

7.7.1 Past Mitigation Action Status

Table 7-17 indicates progress on the Village's mitigation strategy identified in the 2020 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

7.7.2 Additional Mitigation Efforts

Cattaraugus did not identify any additional mitigation efforts completed since the last HMP.



Table 7-17. Status of Previous Mitigation Actions

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
2020-Village of Cattaraugus-001	Study landslide conditions	Landslide	Village of Cattaraugus Department Public Works and County Emergency Management	<p>Problem: The village lacks information to determine local vulnerabilities to landslides threatening property and roads.</p> <p>Solution: Work with county to conduct surveys to determine local vulnerabilities to landslides threatening property and roads, coordinate with municipalities to limit development in these areas and develop remedial measures for existing vulnerabilities.</p>	<p>1. No Progress</p> <p>2. Village prioritized other projects.</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>
2020-Village of Cattaraugus-002	Implement, encourage training for Code Enforcement Officers.	Flood	County DPW	<p>Problem: Floodplain managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later.</p> <p>Solution: Obtain/host specialist training and certification for floodplain managers.</p>	<p>1. No Progress</p> <p>2. Lack of training availability.</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>
2020-Village of Cattaraugus-003	Update the Flood Damage Prevention Ordinance to	Flood	Village Board, FPA	<p>Problem: The Flood Damage Prevention Ordinance does not include the 2' freeboard requirement mandated by NYS.</p>	<p>1. No Progress</p> <p>2. Village prioritized other projects.</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	include freeboard			Solution: The Flood Damage Prevention Ordinance will be updated to include the 2' freeboard requirement mandated by NYS.		
2020-Village of Cattaraugus-004	Wildfire Outreach	Wildfire	County Planning	<p>Problem: Public needs to be educated on what they can do to protect their structures from wildfires.</p> <p>Solution: Provide information to residents, business owners, and organizations about what they can do to protect their structures from wildfires. This will be done via pamphlets and website resources and include such information as: the dissemination of American Red Cross evacuation centers, supplies to have on hand, listing of emergency telephone numbers.</p>	<p>1. No Progress</p> <p>2. Village prioritized other projects.</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>
2020-Village of Cattaraugus-005	Landfill stream erosion	Flood	Village Department of Public Works	<p>Problem: Stream is cutting into landfill and causing erosion.</p> <p>Solution: Conduct a feasibility assessment to determine measures to reduce erosion at landfill and implement cost-effective actions.</p>	<p>1. No Progress</p> <p>2. Financial constraints.</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>
2020-Village of Cattaraugus-006	Identify locations for temporary housing	All Hazards	Village Department of Public Works, County EMO, Village Board	<p>Problem: The Village has not identified locations for temporary housing in the event of a disaster.</p> <p>Solution: Village staff will work with County EMO to identify and assess</p>	<p>1. Complete</p> <p>2. Public Works facility is utilized for temporary sheltering.</p>	<p>1. Discontinue</p> <p>2. Not applicable</p> <p>3. Public Works facility is utilized for temporary sheltering.</p>



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				viability of temporary housing locations to be used in the event of a disaster.		
2020-Village of Cattaraugus-007	Update Municipal Emergency Operation Plan	All Hazards	Village Board, County EMO	Problem: The local Emergency Response Plan requires an update. Solution: The village will update the municipal Emergency Plan.	1. No Progress 2. Village prioritized other projects.	1. Include 2. Not applicable 3. Not applicable
2020-Village of Cattaraugus-008	Tree Trimming Program	Flood	Village Department of Public Works	Problem: The village does not have a tree trimming program in place. Tree limbs can cause damage throughout the village. Solution: The village will develop a tree trimming maintenance program. The program will include conducting tree inventories to determine which ones pose a threat in the event of a storm. Once identified, the village will trim or remove trees that pose a threat.	1. No Progress 2. Village prioritized other projects.	1. Include 2. Not applicable 3. Not applicable
2020-Village of Cattaraugus-009	Backup generator for Village Hall	All	Village Department Public Works	Problem: Village Hall lacks backup power to keep this critical facility open during an emergency or when power fails. Solution: Install generator at Village Hall, minimum 50 kw.	1. No Progress 2. Financial constraints.	1. Include 2. Not applicable 3. Not applicable
2020-Village of Cattaraugus-010	Backup generator for Jefferson Street sewer pumps	All	Village Department Public Works	Problem: The sewer pumps lack backup power to keep this critical facility open during an emergency or when power fails.	1. No Progress 2. Financial constraints.	1. Include 2. Not applicable 3. Not applicable



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				Solution: Install generator at Jefferson Street, minimum 75 kw.		
2020-Village of Cattaraugus-011	Backup generator for Waverly Street sewer pumps	All	Village Department Public Works	Problem: The Waverly Street sewer pumps lack backup power to keep this critical facility open during an emergency or when power fails. Solution: Install generator at Waverly Street pumps, minimum 75 kw.	1. No Progress 2. Financial constraints.	1. Include 2. Not applicable 3. Not applicable
2020-Village of Cattaraugus-012	Improve drainage on west side of village	Flood	Village Department Public Works	Problem: Existing pipes within the village's west side are too small and run under an old building. Solution: Complete engineering study and install 48" new water pipe along railroad tracks to outfall to creek.	1. No Progress 2. Financial constraints.	1. Include 2. Not applicable 3. Not applicable
2020-Village of Cattaraugus-013	Identify locations for temporary housing	All hazards	Village Board and staff	Problem: The village has not yet identified locations to site temporary housing in the event of a disaster. Solution: Work with property owners to identify potential temporary housing locations.	1. No Progress 2. Financial constraints.	1. Discontinue 2. Not applicable 3. Duplicate action of 2020-Village of Cattaraugus-006



7.7.3 Proposed Hazard Mitigation Actions for the HMP Update

Cattaraugus participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013).

The action worksheets included at the end of this annex list the mitigation actions that Cattaraugus would like to pursue in the future to reduce the effects of hazards. The actions 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 Village priorities.

Table 7-18 indicates the range of proposed mitigation action categories. 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.

Volume I identifies 14 evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned (-1, 0, or 1) for each of the evaluation criteria. Table 7-19 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.



Table 7-18. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category									
	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam and Levee Failure										
Flood	X	X		X	X		X		X	X
Landslide	X				X					X
Pandemic	X			X			X			X
Severe Storm	X	X			X				X	X
Severe Winter Storm	X	X			X				X	X
Utility Failure	X	X								X
Wildfire	X			X			X			X

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 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

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



Table 7-19. Summary of Prioritization of Actions

Project Number	Project Name	Scores for Evaluation Criteria															High / Medium / Low
		Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Local Objectives	Total	
2025-CattaraugusV-01	Repetitive Loss Properties	1	1	1	1	1	0	1	1	1	0	1	1	0	1	11	High
2025-CattaraugusV-02	Landslide Prone Roads Inventory	1	1	1	1	1	1	1	1	1	0	1	1	0	0	11	High
2025-CattaraugusV-03	Floodplain Management Training	1	1	1	1	1	1	1	1	1	0	1	1	0	0	11	High
2025-CattaraugusV-04	Flood Damage Prevention Ordinance Update	1	1	1	1	1	1	1	1	1	1	1	1	0	0	12	High
2025-CattaraugusV-05	Wildfire Education and Outreach	1	1	1	1	1	1	0	1	1	0	1	1	0	1	11	High
2025-CattaraugusV-06	Streambank Erosion	1	1	1	1	0	0	1	1	1	1	1	1	0	1	11	High
2025-CattaraugusV-07	Comprehensive Emergency Management Plan Update	1	1	1	1	1	1	0	1	1	1	0	1	1	0	11	High
2025-CattaraugusV-08	Generators at Critical Facilities	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2025-CattaraugusV-09	Undersized Drainage	1	1	1	1	1	0	1	0	1	1	1	1	1	0	11	High
2025-CattaraugusV-10	Pandemic Education and Outreach	1	1	1	1	1	1	0	1	1	0	1	1	0	1	11	High
2025-CattaraugusV-11	Bridge Evaluations	1	1	1	1	0	0	1	1	1	1	1	1	1	0	11	High

Note: Volume I, Section 16 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-6), Medium (7-10), High (11-14).



Action 2025-CattaraugusV-01. Repetitive Loss Properties

Lead Agency:	Code Enforcement	
Supporting Agencies:	Village Board	
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire
Description of the Problem:	Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The Village has one repetitive loss property, but other properties may be impacted by flooding as well.	
Description of the Solution:	The Village will conduct outreach to the impacted properties and will provide information on mitigation alternatives. After preferred mitigation measures are identified, the Village will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating of the affected properties that experience frequent flooding. The parameters for this initiative would be funding, benefits versus cost, and willing participation of property owners.	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA FMA, FMA SWIFT, Village Budget, County Budget, Property Owners	
Implementation Timeline:	3 years	
Goals Met:	1	
Benefits:	This action would foster comprehensive floodplain management by removing at risk properties from the flood hazard area or elevating properties to reduce the flood risk.	
Impact on Socially Vulnerable Populations:	Collecting data regarding homeowners that reside within flood prone areas provides an opportunity to introduce location-specific opportunities for assistance. Socially vulnerable populations may be able to have houses elevated or acquired when it would otherwise be unaffordable.	
Impact on Future Development:	Increased outreach to homeowners within a flood prone area will limit construction in areas that are prone to hazard events. Homes may be acquired, which will remove those structures from the floodplain and prevent future development on those sites.	
Impact on Critical Facilities/Lifelines:	Removing structures from the floodplain decreases the demand on utilities and emergency services including health and medical, law enforcement, and search and rescue.	
Impact on Capabilities:	Outreach which promotes the removal of risk from the immediate floodplain via acquisition of properties will free up resources for search and rescue and other emergency operations as needed. This action will enhance the Village's current NFIP capabilities.	
Climate Change Considerations:	Climate change is likely to increase the frequency and severity of severe rainfall, flash flooding, riverine flooding, and coastal flooding from sea level rise and storm surge events. Removing structures from the floodplain will reduce the response and recovery costs as a result of these events and decrease the loss of human life as a result of these events. Elevating structures will reduce the recovery costs.	
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium
Alternatives:	Action	
	No Action	
	Levee around floodplain	
	Deployable flood barriers	
Evaluation		
Current problem exists		
Costly, not enough room.		
Requires deployment. Residents may not have adequate time to deploy, especially those who are elderly or disabled.		



Action 2025-CattaraugusV-02. Landslide Prone Roads Inventory

Lead Agency:	Engineering		
Supporting Agencies:	Public Works Department		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire	
Description of the Problem:	Landslide events are often driven by hazards such as heavy rain events, flooding, heavy snowmelt, and wildfires. Landslides can destroy the natural and built environments, causing detriment to the structures in its path. The Village does not have an inventory of roads which may be impacted by landslides.		
Description of the Solution:	The Village Engineer will complete an assessment to identify roads in Village which have slopes at grades greater than 20 percent. Once identified, The Engineer will work with the Public Works Department to prioritize roadways and identify possible mitigation measures.		
Estimated Cost:	Low		
Potential Funding Sources:	Village Budget		
Implementation Timeline:	3 years		
Goals Met:	1, 4, 6		
Benefits:	This action will identify locations with steep grades (above 20 percent) and provide Public Works and Engineer with future locations to implement mitigation measures to protect any nearby property and infrastructure.		
Impact on Socially Vulnerable Populations:	This action may identify socially vulnerable populations whose properties may be at risk to the landslide hazard. If identified, the Village may educate the populations on how to mitigate potential risks.		
Impact on Future Development:	The identification of at-risk roads may lead to restrictions for future development.		
Impact on Critical Facilities/Lifelines:	This action has the potential to identify measures to protect infrastructure in the transportation lifeline, which will lead to the assurance of clear roadways for evacuations, regular travel, and emergency responses.		
Impact on Capabilities:	This action may improve the Village's regulatory capabilities.		
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events. Saturated soils can lead to an increased possibility of landslide occurrences. Conversely, drier summer conditions may fuel wildfires, leading to unstable soils and resulting in landslide occurrences.		
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action		Evaluation
	No Action		Village will be unaware of any safety concerns for the dam or its condition
	Do not use inventory to inform steep slopes ordinance		Would not restrict future development, could increase at risk properties and structures
	Do not use inventory to inform future projects		Risk would not be reduced



Action 2025-CattaraugusV-03. Floodplain Management Training

Lead Agency:	Code Enforcement	
Supporting Agencies:	Village Board	
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire
Description of the Problem:	Floodplain managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later.	
Description of the Solution:	Where feasible, the Village will have Code staff attend trainings at FEMA's EMI in Emmitsburg Maryland for NFIP Basics and the Intermediate Floodplain management course (E0273). Where not feasible, officials will attend virtual trainings and review available resources from FEMA and ASFPM at the ASFPM (https://www.floods.org/) website. Encourage staff to become Certified Floodplain Managers via the Association of State Floodplain Manager's CFM Certification Program.	
Estimated Cost:	Low	
Potential Funding Sources:	Village Budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 3, 4	
Benefits:	Providing an opportunity for staff and officials to become further educated on floodplain management practices and standards can aid in the development of plans and procedures in a way that is conscious of the flood hazard.	
Impact on Socially Vulnerable Populations:	Officials that are up to date on flood risk are more likely to encourage development outside areas of high flood risk, which is where socially vulnerable populations have historically resided. Safer dwellings may be developed in a less vulnerable location.	
Impact on Future Development:	Officials that understand best practices in floodplain management will have the opportunity to influence future development and prevent unsafe building in flood hazard areas.	
Impact on Critical Facilities/Lifelines:	The opportunity will exist for leaders and operators of utilities and other essential services to attend training and provide direction on ways the prepare for, plan for, and prevent interruptions in service as a result of a flood.	
Impact on Capabilities:	Officials that attend trainings will have a more confident understanding of floodplain management principles and the basics of NFIP requirements and standards.	
Climate Change Considerations:	Climate change is likely to result in stronger and more frequent rainfall events that will contribute to increased flood risk	
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input checked="" type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium <input type="checkbox"/> Low
Alternatives:	Action	Evaluation
	No Action	Current problem exists
	Hire outside contractors for floodplain administration	Costly
	Establish shared service agreements for floodplain administration from neighboring municipalities	Neighboring municipalities are unlikely to have the staff capacity to take on this role



Action 2025-CattaraugusV-04. Flood Damage Prevention Ordinance Update

Lead Agency:	Code Enforcement		
Supporting Agencies:	Village Board		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire	
Description of the Problem:	The current flood damage prevention ordinance does not include the 2-foot mandated NYS freeboard requirements. While the existing ordinance may be compliant with NFIP requirements, State requirements which exceed NFIP requirements must be adhered to.		
Description of the Solution:	The Village will work with Cattaraugus County and NYSDEC to ensure its Flood Damage Prevention Ordinance is updated to adhere to NYS requirements. After obtaining the appropriate review and concurrence by the NFIP State Coordinator and the FEMA Regional Office, the Village will update and adopt the Flood Damage Prevention Ordinance.		
Estimated Cost:	Low		
Potential Funding Sources:	Village Budget		
Implementation Timeline:	Within 3 years		
Goals Met:	1, 2, 4		
Benefits:	The updated ordinance will improve floodplain management, meet NFIP and State requirements, and increase resilience of new and substantially improved structures in the floodplain.		
Impact on Socially Vulnerable Populations:	The action will result in better regulation of construction standards within the Special Flood Hazard Area where significant risk to socially vulnerable populations exists.		
Impact on Future Development:	The action will result in stronger regulation of construction standards for future development in the Special Flood Hazard Area.		
Impact on Critical Facilities/Lifelines:	Critical facilities and lifelines located in the Special Flood Hazard Area will be required to meet the requirements set forth in the ordinance.		
Impact on Capabilities:	This action will improve floodplain management capabilities through better outlining of responsibilities and administrative procedures.		
Climate Change Considerations:	The updated ordinance includes the State's higher standards that are in place to address heightened flood risk due to climate change such as those for floodway rise and mandatory freeboard.		
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action		Evaluation
	No Action		Current problem exists
	Update only freeboard requirements		Other areas of the ordinance which need to be updated would not be
	Leave NFIP		Residents lose flood insurance coverage



Action 2025-CattaraugusV-05. Wildfire Education and Outreach

Lead Agency:	Village Board		
Supporting Agencies:	Cattaraugus County		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input checked="" type="checkbox"/> Wildfire	
Description of the Problem:	The Village faces risk from wildfires but does not have a comprehensive education and outreach program to educate residents and businesses about hazard mitigation, preparation, response, and recovery utilizing a variety of outreach methods. The Village does not currently have hazard mitigation information and outreach on the Village website.		
Description of the Solution:	Create outreach materials, or utilize those from Cattaraugus County, on wildfire risks and methods of mitigation measures. Methods of distribution may include Village events, the Village newsletters, social media, the Village website, and having the materials on display for the public at Village libraries and offices. Outreach materials will be specified with education and information for the wildfire hazard.		
Estimated Cost:	Low		
Potential Funding Sources:	Village Budget		
Implementation Timeline:	1 year		
Goals Met:	1, 2, 3, 4		
Benefits:	This action will improve the public education and outreach capabilities in the Village by including discussions on disaster preparedness and hazard mitigation to residents and business owners, which will contribute to the resiliency of the Village.		
Impact on Socially Vulnerable Populations:	Socially vulnerable populations will learn how to prepare for and mitigate the wildfire hazard which may impact them in the Village.		
Impact on Future Development:	Not applicable		
Impact on Critical Facilities/Lifelines:	Businesses, which may be considered critical facilities or lifelines, would be more informed on how to prepare for emergency events and mitigate the risks of the wildfire hazard. With these businesses becoming more resilient, this action would contribute to their continuity of operations.		
Impact on Capabilities:	This action would build upon the County's public education and outreach capabilities and adapt it to the Village's needs.		
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will inform residents and business owners of how to reduce risk from the wildfire hazard and how climate change may exacerbate those risks.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input checked="" type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action	Evaluation	
	No Action	Current problem exists	
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in the Village	
	Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance	



Action 2025-CattaraugusV-06. Streambank Erosion

Lead Agency:	Engineering		
Supporting Agencies:	Public Works		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire	
Description of the Problem:	The unnamed stream which traverses through the Village is experiencing stream bank erosion issues, threatening encroachment onto nearby roads. Stream banks become eroded due to heavy rains from severe storms, degradation from flood waters and compacted snow and ice from severe winter storms. Stabilization measures, such as including gabions, riprap, drainpipes and/or related improvements, should be considered to prevent flooding and potential landslide issues.		
Description of the Solution:	The Village Engineer will assess the feasibility and cost-effectiveness of various stabilization measures, such as including gabions, riprap, drainpipes and/or related improvements to prevent future flooding surrounding the unnamed stream.		
Estimated Cost:	High		
Potential Funding Sources:	FEMA HMA, Village Budget, NYS DEC		
Implementation Timeline:	Within 5 years		
Goals Met:	1, 2		
Benefits:	Overall flooding will be reduced, which will result in less frequency of road closures and reduced damage to properties.		
Impact on Socially Vulnerable Populations:	Areas that were previously vulnerable to frequency or severe flooding events will be less likely to be impacted by flooding events.		
Impact on Future Development:	Future development surrounding the unnamed stream will have its risk of flood impacts reduced.		
Impact on Critical Facilities/Lifelines:	Not applicable		
Impact on Capabilities:	Not applicable		
Climate Change Considerations:	Climate change is likely to result in more frequent and severe rainfall events. These events can lead to an influx of water, resulting in flooding conditions.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action	Evaluation	
	No Action	Current problem exists	
	Elevate nearby roads	Cost prohibitive	
	Acquire all properties which flood	Cost prohibitive	



Action 2025-CattaraugusV-07. Comprehensive Emergency Management Plan Update

Lead Agency:	Village Board		
Supporting Agencies:	Cattaraugus Office of Emergency Services		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Pandemic	<input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Utility Failure <input checked="" type="checkbox"/> Wildfire	
Description of the Problem:	The Village has an outdated Comprehensive Emergency Management Plan (CEMP). Hazard mitigation principles need to be integrated into the CEMP. A CEMP establishes the overall authority, roles, and functions performed during incidents. Incorporating hazard mitigation principles into a CEMP ensures hazard risk is identified.		
Description of the Solution:	The Village will update the Comprehensive Emergency Management Plan (CEMP), with support from the Cattaraugus Office of Emergency Services. The CEMP will integrate hazard mitigation principles into its contents, including addresses capabilities related to reduce the risk to the identified hazards of concern identified with this Hazard Mitigation Plan. The Village will send the CEMP to the County for review, followed by a State review.		
Estimated Cost:	Low		
Potential Funding Sources:	Village Budget, EMPG		
Implementation Timeline:	3 years		
Goals Met:	1, 2, 4, 5		
Benefits:	The CEMP details what the Village will do during a disaster (incident command implementation, command center location and activities, specific plans by department, etc.). The creation of a CEMP will permit the Village to integrate new plans, policies, capabilities, and hazard assessments.		
Impact on Socially Vulnerable Populations:	The section overview portion of the CEMP covers a discussion of a variety of topics, including population distribution and locations, including any concentrated populations of individuals with disabilities, others with access and functional needs, or individuals with limited English proficiency.		
Impact on Future Development:	Future development will be protected by the actions which the Village performs following the CEMP.		
Impact on Critical Facilities/Lifelines:	The section overview portion of the CEMP covers a discussion of a variety of topics, including vulnerable critical facilities (e.g. nursing homes, schools, hospitals, infrastructure).		
Impact on Capabilities:	This action will update a planning and response capability for the Village.		
Climate Change Considerations:	Climate change may result in an increase in the frequency and severity of weather-related disaster events. As impacts from climate change are increasingly felt, the contents in a CEMP, including in the basic plan and any annexes, may need to be updated.		
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input checked="" type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action		Evaluation
	No Action		Current problem exists
	Integrate hazard mitigation principles in only hazard appendices		The plan will miss integration opportunities in the basic plan and annexes
	Ask County to integrate hazard mitigation into the County CEMP		Village CEMP will remain undeveloped



Action 2025-CattaraugusV-08. Generators at Critical Facilities

Lead Agency:	Engineering		
Supporting Agencies:	Village Board, Public Works		
Hazards of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire	
Description of the Problem:	Critical facilities require backup power to ensure continuity of operations. The Village Hall and several sewer pumps do not have back up power, which could impact the continuity of operations at the facilities in the event of a utility or power failure. High winds associated with severe storms and severe winter storms are known to cause utility failures, which would impact the continuity of operations at both critical facilities. Rising water levels from floods could impact these facilities; back-up generators would permit any influx of water to be removed from the facilities via pumping systems		
Description of the Solution:	The Village Engineer will conduct a study to determine the required generator capacity to support the critical facility. The Village will then purchase and install the generator and all necessary electrical hookup components. The installation of the back-up emergency generators will ensure continuity of operations for the critical facilities and their operations during each identified hazard of concern. With expectations to provide essential services during times of emergency and otherwise, having a back-up power source is crucial. Long-term risks are mitigated through an emergency generator by reducing the likelihood of impacts from power outages, allowing essential services to continue.		
Estimated Cost:	High		
Potential Funding Sources:	FEMA HMA, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget		
Implementation Timeline:	Within 5 years		
Goals Met:	1, 4, 5		
Benefits:	This action protects public health and safety and ensures continued operation of critical facilities and their essential functions during a power outage.		
Impact on Socially Vulnerable Populations:	Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.		
Impact on Future Development:	This action results in protection of critical facilities that could support future development.		
Impact on Critical Facilities/Lifelines:	This action protects public health and safety and ensures continued operation of critical facilities and their essential functions during a power outage.		
Impact on Capabilities:	This action ensures continuity of operations to maintain capabilities.		
Climate Change Considerations:	Climate change is likely to increase severe weather events such as flooding, wind, and extreme temperatures that result in power failures. This action accounts for a likely increase in power failure events.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input checked="" type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No Action		-
	Microgrid		Costly and difficult to implement.
	Solar panels and battery backup		Solar power is unlikely to be able to provide battery power for extended power failure events.



Action 2025-CattaraugusV-09. Undersized Drainage

Lead Agency:	Public Works	
Supporting Agencies:	Code Enforcement, Engineer	
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire
Description of the Problem:	Undersized drainage often result in the flooding of roadways due to the inability to handle the influx of water. Debris build-up in these undersized pipes may also result in water back-flow, leading to further roadway flooding instances and impacting the integrity of the drainage system. Existing pipes within the Village’s west side are undersized or have been damaged from instances of flooding and the debris caused by severe storms and severe winter winters.	
Description of the Solution:	The Village Engineer will complete an engineering survey of the culverts in Village that are undersized and contribute to flooding to determine the proper size necessary to provide stormwater capacity. The Village Public Works will complete the necessary upsizing for the culverts.	
Estimated Cost:	TBD after study is complete	
Potential Funding Sources:	FEMA HMA, CHIPS, Village Budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 4	
Benefits:	Overall flooding will be reduced, which will result in less frequency of road closures and reduced damage occurring to culverts and roadways during severe events. Businesses are likely to remain in place if they are able to remain open, or re-open sooner following a flood.	
Impact on Socially Vulnerable Populations:	Areas that were previously vulnerable to frequency or severe flooding events will be less likely to be impacted by flooding events.	
Impact on Future Development:	Future development in the impacted area will be less likely to be flooded.	
Impact on Critical Facilities/Lifelines:	Transportation routes are more likely to remain open. Evacuation routes will remain intact. Access to health and medical facilities will be maintained, both for healthcare workers and the population who requires treatment for injuries and illness.	
Impact on Capabilities:	Identifying drainage systems that are at greatest risk of damage or failure can allow for resource staging to take place where the need is greatest ahead of a flood event.	
Climate Change Considerations:	Climate change is likely to result in more frequent and severe rainfall events. This action upsizes drainage systems to meet changing stormwater needs as the result of climate change.	
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium
Alternatives:	Action	
	No Action	
	Remove roadway	
	Raingardens	
		Evaluation
		Current problem exists
		Roadway cannot be removed
		Raingardens are unlikely to be able to absorb enough stormwater to prevent flooding during severe rainfall events.



Action 2025-CattaraugusV-10. Pandemic Education and Outreach

Lead Agency:	Village Board		
Supporting Agencies:	Cattaraugus County		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire	
Description of the Problem:	The Village faces risk from pandemic but does not have a comprehensive education and outreach program to educate residents and businesses about hazard mitigation, preparation, response, and recovery utilizing a variety of outreach methods. The Village does not currently have hazard mitigation information and outreach on the Village website.		
Description of the Solution:	Create outreach materials, or utilize those from Cattaraugus County, on pandemic risks and methods of mitigation measures. Methods of distribution may include Village events, the Village newsletters, social media, the Village website, and having the materials on display for the public at Village libraries and offices. Outreach materials will be specified with education and information for the pandemic hazard.		
Estimated Cost:	Low		
Potential Funding Sources:	Village Budget		
Implementation Timeline:	1 year		
Goals Met:	1, 2, 3, 4		
Benefits:	This action will improve the public education and outreach capabilities in the Village by including discussions on disaster preparedness and hazard mitigation to residents and business owners, which will contribute to the resiliency of the Village.		
Impact on Socially Vulnerable Populations:	Socially vulnerable populations will learn how to prepare for and mitigate the pandemic hazard which may impact them in the Village.		
Impact on Future Development:	Not applicable		
Impact on Critical Facilities/Lifelines:	Businesses, which may be considered critical facilities or lifelines, would be more informed on how to prepare for emergency events and mitigate the risks of the pandemic hazard. With these businesses becoming more resilient, this action would contribute to their continuity of operations.		
Impact on Capabilities:	This action would build upon the County's public education and outreach capabilities and adapt it to the Village's needs.		
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will inform residents and business owners of how to reduce risk from the pandemic hazard and how climate change may exacerbate those risks.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input checked="" type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives:	Action		Evaluation
	No Action		Current problem exists
	Rely on state or federal resources		Resources may be generalized and not specific to the risks in the Village
	Use only a few methods for distribution		Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance



Action 2025-CattaraugusV-11. Bridge Evaluations

Lead Agency:	Public Works Department	
Supporting Agencies:	Cattaraugus County Engineering, Cattaraugus County Public Works, NYS DOT	
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Pandemic	<input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire
Description of the Problem:	<p>Scour on bridges can develop due to erosion. Erosion may occur due to waters impacting the bridge's structure during severe winter storms and severe storms when the precipitation causes the water movements to be more erratic. Rising waters may cause flooding conditions to further erode the structure of the bridge. The following bridges in the jurisdiction should be evaluated to determine useability and to identify potential solutions, as necessary:</p> <ul style="list-style-type: none"> New Albion 29 	
Description of the Solution:	<p>Public Works will work with Cattaraugus County Engineering and Public Works to evaluate each bridge to determine its current usability. The evaluation will indicate whether the County will need to replace or retrofit the identified bridges and causeways. This evaluation should be performed in partnership and/or with feedback from NYS DOT as necessary.</p>	
Estimated Cost:	Medium	
Potential Funding Sources:	FEMA HMA, County Budget, BRIDGENY	
Implementation Timeline:	Within 5 years	
Goals Met:	1	
Benefits:	This action will ensure the bridges in the jurisdiction are structurally sound to continue in operation.	
Impact on Socially Vulnerable Populations:	Not applicable	
Impact on Future Development:	Not applicable	
Impact on Critical Facilities/Lifelines:	This action will ensure transportation routes remain open and accessible to the public for daily use and evacuation needs; the bridges provide a point of access for first responders into communities that may have faced damage from a hazard event on either side of the bridges.	
Impact on Capabilities:	Not applicable	
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will work to ensure the structure of the bridges are impervious to erosion at their base due to rising water levels.	
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium
Alternatives:	Action	
	No Action	
	Remove bridges	
	Replace bridges	
Evaluation		
Current problem exists		
May cause significant traffic problems		
Cost prohibitive		