



9.6 VILLAGE OF CATTARAUGUS

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

9.6.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Cattaraugus’s hazard mitigation plan primary and alternate points of contact.

Table 9.6-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Jonathon Wolfe, DPW Supervisor Address: 14 Main Street Cattaraugus, NY 14719 Phone Number: (716) 257-0151 Email: cattdpw@gmail.com	Name/Title: Tom Patterson, Deputy DPW Supervisor Address: 14 Main Street Cattaraugus, NY 14719 Phone Number: (716) 713-0166 Email: voc.waterdepartment@gmail.com
NFIP Floodplain Administrator	
Name/Title: Frank Watson, Code Enforcement Officer Address: 14 Main Street Cattaraugus, NY 14719 Phone Number: (716) 410-0349	

9.6.2 Municipal 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.

Data from the 2018 American Community Survey indicates that the village has a total population of 959, with 3 percent of the village population 5 years of age or younger and 22 percent of the village population 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

History and Cultural Resources

The Village of Cattaraugus was formed in 1830 from part of the Town of Little Valley. With the addition of the railroad rapid development followed. Forestry was the primary industry in the village following its formation, leading to the creation of several sawmills, blacksmith shops, wagon shops, local stores and taverns.

9.6.3 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 understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.6-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. **Error! Reference source not found.** and Figure 9.6-2 at





the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

Table 9.6-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	14	0	0	0	0	0	12	0	14	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Total	14	0	0	0	0	0	12	0	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2014 to Present										
Jenny Lee	Restaurant	1		17 Main Street 35.031-5-3		Wildfire Interface		Modified into a restaurant		
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
None anticipated										

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.6.4 Capability Assessment

The Village of Cattaraugus performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 6.4 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.6.4). The Village of Cattaraugus identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. Appendix H provides the results of the planning/policy document review.



Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Cattaraugus and where hazard mitigation has been integrated.

Table 9.6-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action? If yes, add Mitigation Action #.	
Codes, Ordinances, & Requirements							
Building Code	Yes	Zoning Law 2002	Local / State	CEO	Yes	Yes	-
Comment: None							
Zoning Code	Yes	Zoning Law 2002	Local	CEO	No	Yes	-
Comment: None							
Subdivisions	No	-	-	-	No	-	-
Comment: None							
Stormwater Management	Yes	Zoning Law 2002	Local	CEO	No	Yes	-
Comment: None							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment: None							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	Yes	-
Comment: None							
Growth Management	No	-	-	-	No	-	-
Comment: None							
Site Plan Review	Yes	Zoning Law 2002	Local	Planning Board	No	Yes	-
Comment: None							
Environmental Protection	Yes	Zoning Law 2002	Local / State	CEO + Planning Board	Yes	Yes	-
Comment: None							
Flood Damage Prevention	Yes	Zoning Law 2002	Local / State	CEO	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Village of Cattaraugus-003
Comment: None							
Municipal Separate Storm Sewer System (MS4)	Yes	Water + Sewer Law	Local	DPW	No	Yes	-
Comment: None							
Emergency Management	No	-	-	-	Yes	-	-
Comment: None							



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action? If yes, add Mitigation Action #.	
Climate Change	No	-	-	-	Yes	-	-
Comment: None							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: None							
Disaster Reconstruction Ordinance	Yes	Zoning Law 2002	Local	CEO	No	Yes	-
Comment: None							
Other	No	-	-	-	No	-	-
Comment:							
Planning Documents							
Comprehensive Plan	Yes	Town/Village Comprehensive Plan 2007	Local / County	Village Board	No	Yes	-
Comment: None							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment: None							
Disaster Debris Management Plan	No	-	-	-	No	-	-
Comment: None							
Floodplain or Watershed Plan	No	-	-	-	No	Yes	-
Comment: None							
Stormwater Plan	Yes	Zoning Law 2002	Local	CEO	No	Yes	-
Comment: None							
Open Space Plan	No	-	-	-	No	-	-
Comment: None							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment: None							
Habitat Conservation Plan	Yes	Zoning Law 2002	Local	CEO + Zoning Board	No	Yes	-
Comment: None							
Economic Development Plan	No	-	-	-	No	-	-
Comment: None							
Shoreline Management Plan	No	-	-	-	Yes	-	-
Comment: None							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment: None							
Forest Management Plan	No	-	-	-	No	-	-
Comment: None							
Transportation Plan	No	-	-	-	No	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action? If yes, add Mitigation Action #.	
Comment: None							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment: None							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	-	-	-
Comment: None							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	No	-	-	-	Yes	-	-
Comment: None							
Strategic Recovery Planning Report	No	-	-	-	No	-	-
Comment: None							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment: None							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment: None							
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment: None							
Public Health Plan	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	No	-	-
Comment: None							

Table 9.6-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes, CEO/ Zoning Board
Permits are tracked by hazard area. For example, floodplain development permits.	Yes
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No, a buildable land analysis is noted in Section 4 (County Profile)

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Cattaraugus.





Table 9.6-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board Chair
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	No	-
Maintenance programs to reduce risk	No	-
Mutual aid agreements	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 Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Code Enforcement Officer
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other	No	-

Fiscal Capability

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

Table 9.6-6. Fiscal Capabilities

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



Education and Outreach Capability

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

Table 9.6-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	No
Personnel skilled or trained in website development?	No
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No
Warning systems for hazard events; if yes, briefly describe.	Siren
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No
Other	No

Community Classifications

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

Table 9.6-8. Community Classifications

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

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.



Table 9.6-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Flood	Medium
Landslide	Medium
Severe Storm	High
Severe Winter Storm	High
Utility Interruption	Medium
Wildfire	Medium

*High Capacity exists and is in use
 Medium Capacity may exist; but is not used or could use some improvement
 Low Capacity does not exist or could use substantial improvement
 Unsure Not enough information is known to assign a rating

National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.

NFIP Floodplain Administrator (FPA)

Frank Watson, Code Enforcement Officer

National Flood Insurance Program (NFIP) Summary

The Village of Cattaraugus does not maintain a list of property owners interested in flood mitigation and has no homeowners or businesses that are interested in mitigation. There are no current RiskMAP projects currently underway within the village. The village has made Substantial Damage Determinations / inspections for the 2014 flood events. No properties have been mitigated within the village. Flood hazard maps for the Village of Cattaraugus adequately address the flood risk within the village.

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

Table 9.6-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Cattaraugus	0	23	\$33,394	0

Source: NYS DHSES 2020
 Notes: Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2
 RL Repetitive Loss

Resources

The Village of Cattaraugus Code Enforcement Officer is responsible for floodplain management but is not a Certified Floodplain Manager (CFM). The village does not have access to resources to determine possible future flooding conditions from climate change. Floodplain management staff within the village need assistance or training to support its floodplain management program. The village requires NFIP administration services for permits, GIS and inspections and did not identify any barriers within the community to running an effective NFIP program. The village qualifies proposed development on an existing structure as a substantial improvement based on if there has been any modifications or upgrades to the structure.

Compliance History

The Village of Cattaraugus does not have any outstanding NFIP compliance violations that need to be addressed. The most recent CAC occurred on April 16, 2018.





Regulatory

The Village of Cattaraugus's flood damage prevention ordinance is Village of Cattaraugus Zoning Law of 2002. The ordinance was last updated on June 10, 2002. It should be updated to current standards, including incorporating freeboard. There are no other local ordinances, plans, or programs that support floodplain management and meeting the NFIP requirements.

Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

The Village of Cattaraugus has identified Route 353, Jefferson Street, and Rumsy Street as evacuation routes.

Sheltering

The Village of Cattaraugus has identified the following emergency shelter solutions. Both have infrastructure and utilities available, and no actions are required to ensure conformance with the NYS Uniform Fire Prevention and Building Code.

- Village of Cattaraugus Fire Department, 24 Memorial Drive, Cattaraugus, NY 14719
 - Two sites on this property, one of their capacities is 100 people, the other 30 people.
- Village of Cattaraugus Ambulance Building, 211 Main Street, Cattaraugus, NY 14719
 - Capacity 30 people

Temporary Housing

The Village of Cattaraugus has no officially designated locations for temporary housing. Action 2020-Village of Cattaraugus-013 is included to address this required planning.

Permanent Housing

In the Village of Cattaraugus, 80 percent of the land lies outside the floodplain and is available for housing relocation. Buildable land is shown in Section 2 (County Profile) and the maps at the end of this annex.

9.6.5 Hazard Event History Specific to the Village of Cattaraugus

Cattaraugus County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The Village of Cattaraugus' history of federally declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Cattaraugus County. Table 9.6-11 provides details regarding municipal-specific loss and damages the village experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.



Table 9.6-11. Hazard Event History for the Village of Cattaraugus

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
October 27- November 8, 2012	Hurricane Sandy (FEMA-EM-3351)	Yes	Remnants of Hurricane Sandy brought strong winds and heavy rains downing trees and powerlines.	Although the county was impacted, the Village of Cattaraugus did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	The torrential rains produced flash flooding and washed out roads inundated with flowing water	Bridge and road flooding occurred within the village.
July 8, 2014	Thunderstorm Wind	No	A heavy thunderstorm brought down trees and powerlines.	Law enforcement reported trees and wires down in the Village of Cattaraugus.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Winter storm brought record rainfall heavy snow resulting in travel and school disruptions.	Although the county was impacted, the Village of Cattaraugus did not report any damages.
June 12, 2015	Thunderstorm Wind	No	A heavy thunderstorm brought down trees and powerlines	Law Enforcement reported trees and wires downed by thunderstorm winds in the Village of Cattaraugus with \$10K in property damages.
July 14, 2015	Flash Flood	No	Showers and thunderstorms brought heavy rainfall resulting in flash flooding and washed out roads.	Although the county was impacted, the Village of Cattaraugus did not report any damages.
March 8, 2017	High Wind	No	High winds brought down powerlines and trees and damaged several buildings.	Although the county was impacted, the Village of Cattaraugus did not report any damages.
August 22, 2017	Thunderstorm Wind	No	A heavy thunderstorm brought down trees and powerlines	Law Enforcement reported trees and wires downed by thunderstorm winds in the Village of Cattaraugus with \$10K in property damages.

Notes:

EM *Emergency Declaration (FEMA)*

FEMA *Federal Emergency Management Agency*

DR *Major Disaster Declaration (FEMA)*

N/A *Not applicable*

9.6.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Cattaraugus’s risk assessment results and data used to determine the hazard ranking.



A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Cattaraugus as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the village. The Village of Cattaraugus has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community. The Village of Cattaraugus was in agreement with the hazard rankings below.

Table 9.6-12. Hazard Ranking Input

Flood	Landslide	Severe Storm	Severe Winter Storm	Utility Failure	Wildfire
Low	Low	Low	Low	High	Low

Note: The scale is based on the following hazard rankings as established in Section 5.3.

Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 500-year flood event, or worst damage scenario. For those that do not meet this criterion, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.



Table 9.6-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure 1% Event	Addressed by Proposed Action
None			

Source: Cattaraugus County 2020

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- The village needs to determine local vulnerabilities to landslides threatening property and roads.
- 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 Flood Damage Prevention Ordinance does not include the 2’ freeboard requirement mandated by NYS.
- Public needs to be educated on what they can do to protect their structures from wildfires.

9.6.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2014 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.6-14. Status of Previous Mitigation Actions

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
G1.7	Study slide conditions in the Village of Cattaraugus.	Landslide	Village of Cattaraugus	Threats to property and infrastructure	No Progress			1. Include in 2020 HMP 2. 3.
						Damages Avoided; Evidence of Success		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Cattaraugus has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 Plan:

- Village of Cattaraugus Landfill- stream erosion project
- Leavenworth Street road repair
- Tannery Street road repair
- South Franklin Street road repair
- Waverly Street water and sewer repair
- Jefferson Street water and sewer repair
- South Branch Tributary to Cattaraugus Creek underwent culvert crossing inlet debris / gravel cleaning
- Water and sewer repair for four residential homes sliding on North Main Street
- Mud Creek underwent waterline repairs

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Cattaraugus participated in a mitigation action workshop in September 2020 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.6-15 summarizes the comprehensive range of specific mitigation initiatives the Village of Cattaraugus would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.6-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Village of Cattaraugus-001	Study landslide conditions	2	Landslide	<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>	No	None	Within 6 months	Village of Cattaraugus Department Public Works and County Emergency Management	Staff time	Local vulnerabilities to landslides threatening property and roads determined	Municipal budget	High	LPR	PR
2020-Village of Cattaraugus-002	Implement/Encourage training for Code Enforcement Officers.	3	Flood	<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</p>	No	None	Within 5 years	County DPW	\$3,000	Certified floodplain managers trained. Floodplain management improved.	County/village budget	High	EAP/PI	PR





Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later. Solution: Obtain/host specialist training and certification for floodplain managers.										
2020-Village of Cattaraugus-003	Update the Flood Damage Prevention Ordinance to include freeboard	2	Flood	Problem: The Flood Damage Prevention Ordinance does not include the 2' freeboard requirement mandated by NYS. Solution: The Flood Damage Prevention Ordinance will be updated to include the 2' freeboard requirement mandated by NYS.	No	None	Within 6 months	Village Board, FPA	<\$100	Construction meets state standards	Village budget	High	LPR	PR



Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Village of Cattaraugus-004	Wildfire Outreach	3	Wildfire	<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>	No	None	Within 5 years	County Planning	\$2,000	Public educated	County / village budget	High	EAP	PI
2020-Village of Cattaraugus-005	Landfill stream erosion	1	Flood	<p>Problem: Stream is cutting into landfill and causing erosion.</p> <p>Solution: Conduct a</p>	No	None	Within 1 year	Village Department of Public Works	TBD by feasibility assessment	Retain landfill proper function	HMGP, BRIC, village budget	Medium	SIP, NSP	PR, NR





Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				feasibility assessment to determine measures to reduce erosion at landfill and implement cost-effective actions.										
2020-Village of Cattaraugus-006	Identify locations for temporary housing	1	All Hazards	<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 viability of temporary housing locations to be used in the event of a disaster.</p>	No	None	Within 1 year	Village Department of Public Works, County EMO, Village Board	\$0	Provide temporary housing to displaced people after a disaster strikes.	Municipal budget	High	LPR	PR
2020-Village of Cattaraugus-007	Update Municipal Emergency Operation Plan	2,3	All Hazards	<p>Problem: The local Emergency Response Plan requires an update.</p> <p>Solution: The village will update the municipal Emergency Plan.</p>	No	None	Within 1 year	Village Board, County EMO	TBD	Improve Village response preparing for and responding to emergencies.	HMGP, BRIC	High	LPR	PR





Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2020-Village of Cattaraugus-008	Tree Trimming Program	2	Flood	<p>Problem: The village does not have a tree trimming program in place. Trees limbs can cause damage throughout the village.</p> <p>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.</p>	No	None	Within 1 year	Village Department of Public Works	\$5,000	Protect power distribution	HMGP, BRIC, village budget	Medium	NSP	PR
2020-Village of Cattaraugus-009	Backup generator for Village Hall	1	All	<p>Problem: Village Hall lacks backup power to keep this critical facility open during an emergency or when power fails.</p>	Yes	None	Within 1 year	Village Department Public Works	\$20,000	Will support the provision of essential services during hazard events. Power at critical facility will be available.	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, EMPG,	High	SIP	PP





Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Solution: Install generator at Village Hall, minimum 50 kw.							Municipal Budget			
2020-Village of Cattaraugus-010	Backup generator for Jefferson Street sewer pumps	1	All	<p>Problem: The sewer pumps lack backup power to keep this critical facility open during an emergency or when power fails.</p> <p>Solution: Install generator at Jefferson Street, minimum 75 kw.</p>	Yes	None	Within 1 year	Village Department Public Works	\$20,000	Sewer pumps will remain functioning during an emergency or when power fails.	FEMA, HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget	High	SIP	PP
2020-Village of Cattaraugus-011	Backup generator for Waverly Street sewer pumps	1	All	<p>Problem: The Waverly Street sewer pumps lack backup power to keep this critical facility open during an emergency or when power fails.</p> <p>Solution: Install generator at Waverly Street pumps, minimum 75 kw.</p>	Yes	None	Within 1 year	Village Department Public Works	\$20,000	Sewer pumps will remain functioning during an emergency or when power fails.	FEMA, HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget	High	SIP	PP
2020-Village of Cattaraugus-012	Improve drainage on west side of village	1	Flood	Problem: Existing pipes within the village's west side are too small	No	None	Within 2 years	Village Department Public Works	\$20,000	Reduce flooding hazards.	Municipal budget	Medium	SIP	PP





Table 9.6-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				and run under an old building. Solution: Complete engineering study and install 48” new water pipe along railroad tracks to outfall to creek.										
2020-Village of Cattaraugus-013	Identify locations for temporary housing	1	All hazards	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.	No	No	Within 1 year	Village Board and staff	\$0	In the event of a disaster sites will be identified in advance to hold temporary housing	Municipal budget	High	LPR	PR



Notes:

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

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

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

Timeline:

The time required for completion of the project upon implementation


Cost:

The estimated cost for implementation.

Benefits:

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

Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

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

CRS Category:

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





Table 9.6-16. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2020-Village of Cattaraugus-001	Study landslide conditions	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Village of Cattaraugus-002	Implement/Encourage training for Code Enforcement Officers.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Cattaraugus-003	Update the Flood Damage Prevention Ordinance to include freeboard	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Cattaraugus-004	Wildfire Outreach	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Cattaraugus-005	Landfill stream erosion	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Village of Cattaraugus-006	Identify locations for temporary housing	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Cattaraugus-007	Update Municipal Emergency Operation Plan	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Village of Cattaraugus-008	Tree Trimming Program	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High
2020-Village of Cattaraugus-009	Backup generator for Village Hall	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2020-Village of Cattaraugus-010	Backup generator for Jefferson Street sewer pumps	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2020-Village of Cattaraugus-011	Backup generator for Waverly Street sewer pumps	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2020-Village of Cattaraugus-012	Improve drainage on west side of village	1	1	1	0	0	0	1	1	1	1	0	1	1	0	9	High
2020-Village of Cattaraugus-013	Identify locations for temporary housing	1	1	1	1	1	1	0	1	0	0	1	0	1	1	10	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).





9.6.8 Proposed Mitigation Action Types

The table below indicates the range of proposed mitigation action categories.

Table 9.6-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Flood	X	X	X	X	X	X	X	X	X	
Landslide	X	X			X	X				
Severe Storm	X	X			X	X				
Severe Winter Storm	X	X			X	X				
Utility Interruption	X	X			X	X				
Wildfire	X	X		X	X	X	X			

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

9.6.9 Staff and Local Stakeholder Involvement in Annex Development

The Village of Cattaraugus followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Village departments, including the Highway Department. The Highway Superintendent represented the community on the Cattaraugus County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

9.6.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Cattaraugus that illustrate the probable areas impacted within the municipality. The maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Cattaraugus has significant exposure. The maps are illustrated below.



Figure 9.6-1. Village of Cattaraugus Hazard Area Extent and Location Map 1

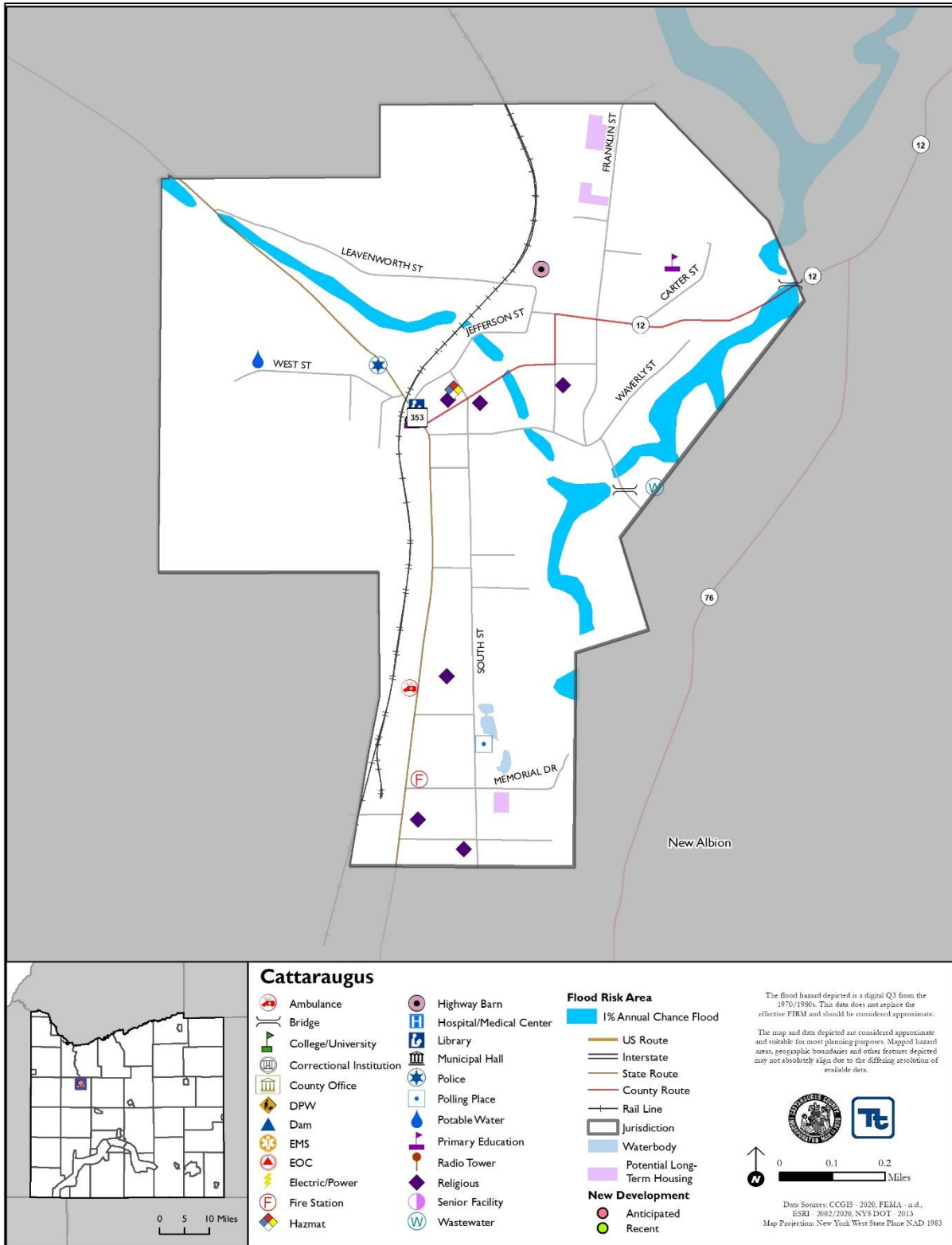
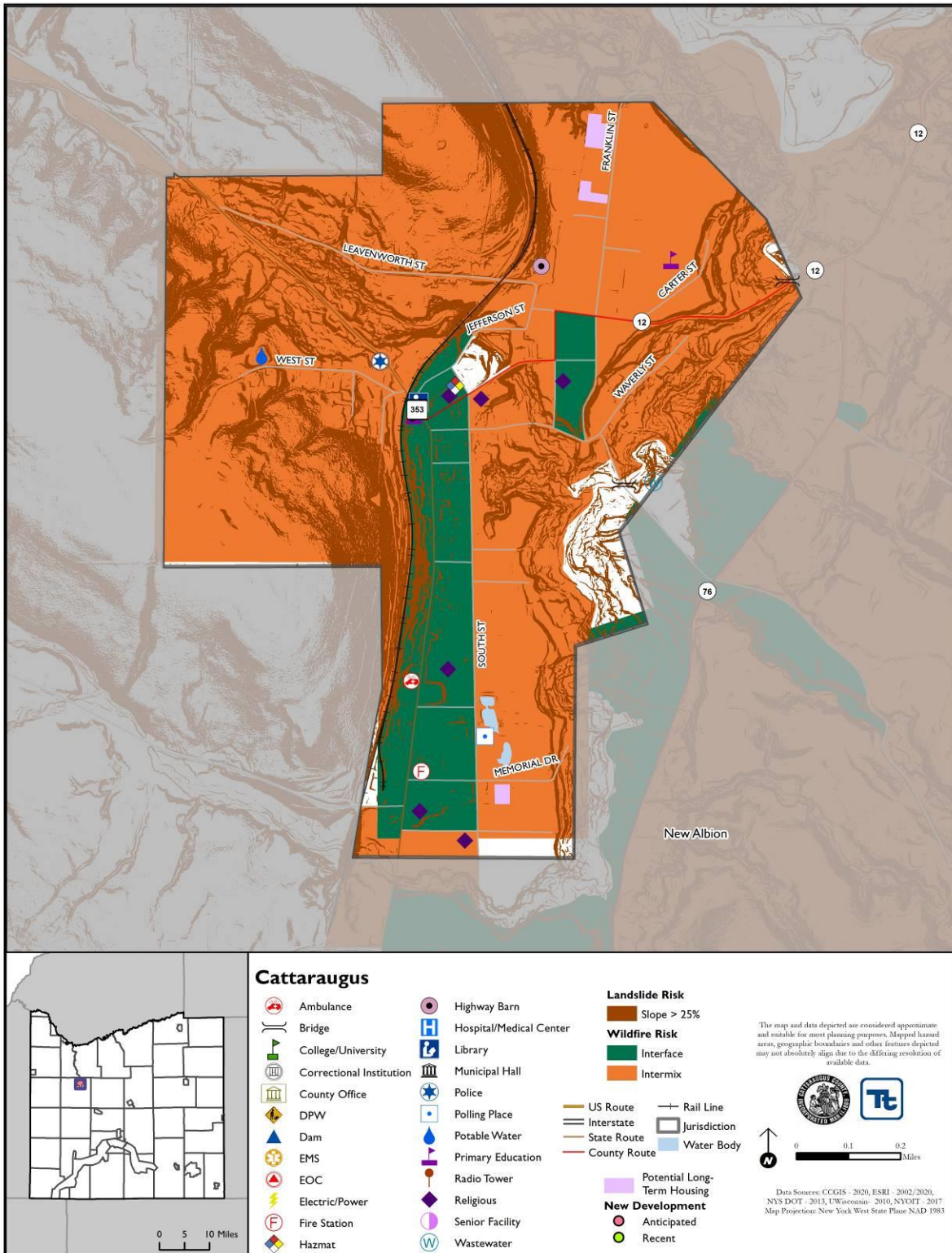




Figure 9.6-2. Village of Cattaraugus Hazard Area Extent and Location Map 2





Action Worksheet			
Project Name:	Backup generator for Village Hall		
Project Number:	2020-Village of Cattaraugus-009		
Risk / Vulnerability			
Hazard(s) of Concern:	All		
Description of the Problem:	Backup power sources are necessary to maintain services at critical facilities. Village Hall requires permanent backup power in order to continue providing these services.		
Action or Project Intended for Implementation			
Description of the Solution:	A feasibility analysis will be conducted, and an appropriate backup power source of needed size will be installed by the Village Department of Public Works. It is likely that a minimum 50 kW backup power generator will be appropriate.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations of Village Hall
Useful Life:	20 years	Goals Met:	1
Estimated Cost:	\$20,000	Mitigation Action Type:	Structure and Infrastructure Project (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA, HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants, Program Municipal Budget
Responsible Organization:	Village Department of Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Install solar panels	\$100,000	Weather dependent, need large amount of space for installation, expensive if repairs needed
	Install wind turbines	\$100,000	Weather dependent may pose a threat to some wildlife, expensive repairs if needed.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Backup generator for Village Hall	
Project Number:	2020-Village of Cattaraugus-009	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Village Hall
Property Protection	1	Project will protect Village Hall
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the Project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Utility failure
Timeline	1	1 year
Agency Champion	1	Engineer, OEM, Highway
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup generator for Jefferson Street sewer pumps		
Project Number:	2020-Village of Cattaraugus-010		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	Backup power sources are necessary to maintain services for critical facilities. The sewer pumps are essential to move waste to the treatment facility.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will explore feasible options to provide backup power for the Jefferson Street sewer pumps. After a feasibility analysis, a minimum 50 kw backup power generator will be purchased and installed by the Village Public Works Department.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations of Village Highway Garage
Useful Life:	20 years	Goals Met:	1
Estimated Cost:	\$20,000	Mitigation Action Type:	Structure and Infrastructure Project (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA, HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants, Program Municipal Budget
Responsible Organization:	Village Department of Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Install solar panels	\$100,000	Weather dependent, need large amount of space for installation, expensive if repairs needed
	Install wind turbines	\$100,000	Weather dependent may pose a threat to some wildlife, expensive repairs if needed.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Backup generator for Jefferson Street sewer pumps	
Project Number:	2020-Village of Cattaraugus-010	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Jefferson Street sewer pumps
Property Protection	1	Project will protect critical facility from power failure.
Cost-Effectiveness	1	High value for the investment.
Technical	1	
Political	1	
Legal	1	The village has the legal authority to complete the Project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Utility failure
Timeline	1	5 years
Agency Champion	1	Engineer, OEM, Highway
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup generator for Waverly Street sewer pumps		
Project Number:	2020-Village of Cattaraugus-011		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	Backup power sources are necessary to maintain services for critical facilities. The sewer pumps are essential to move waste to the treatment facility.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will explore feasible options to provide backup power for the Waverly Street sewer pumps. After a feasibility analysis, a minimum 75 kW backup power generator will be purchased and installed by the Village Public Works Department.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations of Village Highway Garage
Useful Life:	20 years	Goals Met:	1
Estimated Cost:	\$20,000	Mitigation Action Type:	Structure and Infrastructure Project (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA, HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget
Responsible Organization:	Village Department of Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Install solar panels	\$100,000	Weather dependent, need large amount of space for installation, expensive if repairs needed
	Install wind turbines	\$100,000	Weather dependent may pose a threat to some wildlife, expensive repairs if needed.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Backup generator for Waverly Street sewer pumps	
Project Number:	2020-Village of Cattaraugus-011	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Jefferson Street sewer pumps
Property Protection	1	Project will protect critical facility from power failure.
Cost-Effectiveness	1	High value for the investment.
Technical	1	
Political	1	
Legal	1	The village has the legal authority to complete the Project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Utility failure
Timeline	1	5 years
Agency Champion	1	Engineer, OEM, Highway
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Improve drainage on west side of village		
Project Number:	2020-Village of Cattaraugus-012		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	Existing drainage pipes are too small and run under buildings in some places. During rain events, these pipes are inadequate to handle the large amount of stormwater flow.		
Action or Project Intended for Implementation			
Description of the Solution:	Improve drainage on the west side of the village by increasing pipe sizes for stormwater drainage. This will allow for greater flow through put of stormwater to drainage.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Reduce flooding
Useful Life:	10 years	Goals Met:	1, 2
Estimated Cost:	\$20,000	Mitigation Action Type:	Structure and Infrastructure Project (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	3 yr
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, Municipal Budget
Responsible Organization:	Village Public Works and Village Board	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Operations
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Abandon roadways	High	Not feasible
	Construct levee to divert water from development	High	Not feasible
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Improve drainage on west side of village	
Project Number:	2020-Village of Cattaraugus-012	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Flooding
Property Protection	1	Water runs down roadway
Cost-Effectiveness	1	The project would provide a lot of benefit for a reasonable investment
Technical	0	The project is technically feasible
Political	0	The project has strong political support.
Legal	0	The village has the legal authority to complete the Project.
Fiscal	1	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Utility failure
Timeline	1	1 year
Agency Champion	1	Engineer, OEM, Highway
Other Community Objectives	0	
Total	9	
Priority (High/Med/Low)	High	