9.10 VILLAGE OF DELEVAN

This section presents the jurisdictional annex for the Village of Delevan. 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 Delevan'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.

9.10.1 Hazard Mitigation Planning Team

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

Table 9.10-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Chris Lexer, Code Enforcement Official Address: 12171 Electric Ln Yorkshire NY 14173 Phone Number: (716) 492-1424 Email: Yorkshirecode@yahoo.com	Name/Title: Daren Smith, Public Works Superintendent Address: 12171 Electric Ln Yorkshire NY 14173 Phone Number: 716-492-0281 Email: delevansupt@roadrunner.com
NFIP Floodplain Administrator	
Name/Title: Chris Lexer, Code Enforcement Official Address: 12171 Electric Ln Yorkshire NY 14173 Phone Number: (716) 492-1424 Email: Yorkshirecode@yahoo.com	

9.10.2 Municipal Profile

The Village of Delevan is located in the east-central part of the Town of Yorkshire in Cattaraugus County in western New York State. The Village of Delevan has a total area of 0.99 square miles. New York State Route 16 passes through the village.

The estimated 2018 population was 1,007, a 10 percent decrease in population from 2010 (1,119 persons). Data from the 2018 U.S. Census American Community Survey indicate that 2.7 percent of the village population is 5 years of age or younger and 12.5 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

History and Cultural Resources

The first lot for the village was cleared around 1821. The name of the area changed from Yorkshire Center to Delevan in 1892. The village was incorporated in 1915.

9.10.3 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 9.10-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

Figure 9.10-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development, where available.

Table 9.10-2. 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	0	0	0	0	0	0	1	0	0	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	0	0	0	0	0	0	1	0	0	0

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
Recent Major Development and Infrastructure from 2014 to Present					
N/A					
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
N/A					

SFHA Special Flood Hazard Area (1% flood event)

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

9.10.4 Capability Assessment

The Village of Delevan 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 9.10.4). The Village of Delevan 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 Delevan and where hazard mitigation has been integrated.

Table 9.10-3. 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?	
Codes, Ordinances, & Requirements							
Building Code	Yes	LL No. 1-2007	Village	Board of Trustees	Yes	No	2020-Delevan-012
Comment: None							
Zoning Code	Yes	LL No. 1-2002	Village	Zoning Officer	No	Yes	-
Comment: None							
Subdivisions	No	-	-	-	No	-	-
Comment: None							
Stormwater Management	No	-	-	-	Yes	N-	-
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	No	-	-	-	No	-	-
Comment: none							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Yes	Local Law No. 1-1987	Village	FPA	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Delevan-008
Comment: none							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: none							
Emergency Management	Yes	2019	Village	Emergency Services	Yes	No	2020-Delevan-011
Comment: none							
Climate Change	No	-	-	-	Yes	-	-
Comment: none							
Disaster Recovery Ordinance	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?
Comment: none							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
Planning Documents							
Comprehensive Plan	Yes	Vision 2025 Comprehensive Plan, 2015	County	Cattaraugus County Department of Economic Development, Planning & Tourism	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	-	-
Comment: None							
Stormwater Plan	No	-	-	-	No	-	-
Comment: None							
Open Space Plan	No	-	-	-	Yes	-	-
Comment: None							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment: None							
Habitat Conservation Plan	No	-	-	-	No	-	-
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	-	-
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?	
Agriculture Plan	Yes	Cattaraugus County Agricultural and Farmland Protection Plan, 2007	County	County	Yes	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	Yes	CEMP, 2019	County	Emergency Services	Yes	Yes	-
Comment: none							
Strategic Recovery Planning Report	No	-	-	-	-	No	-
Comment: none							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	No	-
Comment: none							
Post-Disaster Recovery Plan	No	-	-	-	No	No	-
Comment: none							
Continuity of Operations Plan	No	-	-	-	No	No	-
Comment: none							
Public Health Plan	Yes	Community Health Improvement Plan (CHIP), 2019	County	Health Department	No	Yes	-
Comment: none							
Other	No	-	-	-	No	-	-

Table 9.10-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes: Code Enforcement/Zoning
Permits are tracked by hazard area. For example, floodplain development permits.	Yes: Code Enforcement/Zoning
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No

Administrative and Technical Capability

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

Table 9.10-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	No	-
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	Yes	Fire Department
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/FPA
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 Delevan.

Table 9.10-6. 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	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	N/A
Withhold public expenditures in hazard-prone areas	N/A
Other federal or state Funding Programs	Yes

Financial Resources	Accessible or Eligible to Use (Yes/No)
Open Space Acquisition funding programs	Yes
Other	Yes

Education and Outreach Capability

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

Table 9.10-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Mayor
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.	No
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Yes
Other	No

Community Classifications

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

Table 9.10-8. 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)	Yes	Unknown	Unknown
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.

- The village does not currently have access to resources to determine the possible impacts of climate change upon the municipality and would rely on the county.

Table 9.10-9. Adaptive Capacity of Climate Change

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

Chris Lexer, Code Enforcement Officer.

National Flood Insurance Program (NFIP) Summary

The village has identified Strandburg, Viaduct, Dorito Streets as areas prone to flooding. The village does not maintain a list of property owners interested in flood mitigation. There are not any RiskMAP projects currently underway. The village does not make Substantial Damage determinations and no properties have been mitigated. The village's floodplain maps adequately address the flood risk within the village.

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

Table 9.10-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Delevan	2	0	$0	0

Source: *NYS DHES, 2020*
RL *Repetitive Loss; SRL Severe Repetitive Loss*

Resources

The village's Code Enforcement is responsible for floodplain management. There are not any certified floodplain managers on staff and the village does not have access to resources to determine possible future flooding conditions from climate change. The floodplain management staff needs training to support its floodplain management program. The NFIP administration service the village provides is permits. Code Enforcement determines if proposed development on an existing structure would qualify as a substantial improvement. the village identified a lack of raining as a barrier they have to running an effective NFIP program.

Compliance History

The Village of Delevan does not have any outstanding NFIP compliance violations and they have not had a recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC).

Regulatory

The local law number of the village's flood damage prevention ordinance is Local Law No. 1-1987. The floodplain management program does not meet the requirements because it is outdated and does not include the required freeboard.

Additional Areas of Existing Integration

Village Website: The Village of Delevan's website (http://www.yorkshireny.org/) hosts village information and announcements. The village shares a website with the Town of Yorkshire.

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 Delevan has identified Route 16 and Route 39 as designated evacuation routes during an emergency.

Sheltering

The village has identified Delevan Training Center located at 1006 N Main St as a designated shelter in the event of an emergency. It can hold 397 people, accommodates pets, is ADA compliant, has backup power, and provides a defibrillator.

Temporary Housing

The village has identified farmer's fields as designated sites to use as temporary housing. There are ten at various locations in the village.

Permanent Housing

The village did not identify any sites designated for permanent housing, but the county identified several locations, shown in Figure 9.10-1 and Figure 9.10-2.

9.10.5 Hazard Event History Specific to the Village of Delevan

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 Delevan's 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 9.10-11 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 9.10-11. Hazard Event History

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 to western and north central New York. Rainfall amounts of two to five inches were measured across the area with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph.	Although the county was impacted, the Village of Delevan did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	Heavy showers and embedded thunderstorms trained across the western Southern tier. Rainfall amounts of one to three inches in just a few hours resulted in flash flooding across the region. Roads and culverts were washed out. Numerous roads were water-covered and closed.	Although the county was impacted, the Village of Delevan did not report any damages.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Lake effect snow resulted in heavy snowfall across the region.	Although the county was impacted, the Village of Delevan did not report any damages.
July 14, 2015	Flash Flood	No	Numerous rounds of storms along a stationary cold front resulted in flash flooding. Damaging winds occurred in some areas of the County.	Although the county was impacted, the Village of Delevan did not report any damages.
March 8, 2017	High Wind	No	A strong low pressure system brought strong and damaging winds to the entire region.	Although the county was impacted, the Village of Delevan did not report any damages.

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

9.10.6 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 Village of Delevan'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 of Delevan. The Village of Delevan 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. During the review of the hazard/vulnerability risk ranking, the Village of Delevan agreed with the rankings in the table below.

Table 9.10-12. 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.

**The village changed the initial ranking of this hazard based on event history, experience, and feedback*

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 even, 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 9.10-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure 1% Event	Addressed by Proposed Action
Village of Delevan Municipal Hall	Municipal Hall	X	2020-Delevan-006

Source: Cattaraugus County, 2020

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Delevan Avenue continually floods.
- The Village of Delevan Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities need to be protected to the 0.2% annual chance flood event.
- Delevan Fire Department located at 1006 North Main Street has an undersized generator.
- The Municipal Building and Garage (Fire truck bays and municipal offices) lacks backup power and requires a portable generator.
- Machias Sewer currently does not have a form of backup power. During a power outage, the station cannot function properly. Lack of power prevents pumps from pumping properly, threat sewage overflow, and potential impacts to the health and safety of the community.
- Drainage on North Main and School Street floods on a regular basis.
- Drainage on Cobb Avenue floods on a regular basis.
- Landslides threaten Prospect Street.
- There is limited internet access for village residents and businesses.
- The village lacks an updated flood damage prevention ordinance.
- Floodplain Administration staff require additional training.
- Additional public education on wildfire risk is needed.
- Flooding occurs along Church St, First Ave, Owens, and Stevens.
- Generator at designated shelter on 1006 North Main Street is old and undersized.

9.10.7 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 9.10-14. 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.
B1.6	Village of Delevan, study under drain flooding on Delevan Ave.	Flood	Village	Flooding occurs frequently on Delevan Ave	No progress	Cost		Include in the 2020 HMP as Action 2020-Delevan-001
						Level of Protection		
						Damages Avoided; Evidence of Success		

Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Delevan 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:

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Delevan 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 9.10-15 summarizes the comprehensive range of specific mitigation initiatives the Village of Delevan 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 9.10-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.10-15. 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-Delevan-001	Repair present and install new stormwater drainage system on Delevan Ave	2	Flood, Severe Storm	**Problem:** Delevan Ave underpass continually floods, drainage is overwhelmed **Solution:** Install outlet pipe, replace or reconfigure to allow it to drain.	No	None	6 months	Village Board	$2,500	Stormwater system improved. Flood risk reduced	HMGP, Village Budget	High	SIP	SP
2020-Delevan-002	Protect the Village of Delevan Municipal Hall to the 0.2% annual chance flood event.	1	Flood	**Problem**: The Village of Delevan Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level. **Solution**: The village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Municipal Hall to protect it to the 0.2% annual chance level. Options include: •Elevation of facility •Floodproofing of facility •Mobile flood barriers Once the most cost-effective option is identified, the town will carry out the option.	Yes	None	Within 5 years	Engineer, facility operator	TBD by feasibility assessment	Facility can continue operations and emergency coordination is established	HMGP, BRIC, USDA Community Facilities Grant Program, EMPG, village budget	High	SIP	PP
2020-Delevan-003	Portable generators for the Municipal Building, and Garage (Fire Truck bays and municipal	2	All Hazards	**Problem:** The Municipal Building (85 South Main) and Garage (Fire Truck bays and municipal offices), emergency shelter located at 1006 N Main St, and Delevan Fire	Yes	None	Within 2 years	Village FD. Village	$15,000-20,000 per generator	Critical facilities have access to backup power	HMGP, BRIC, village budget	High	SIP	PP

Table 9.10-15. 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
	offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St			Department located at 1006 North Main St lack backup power **Solution:** Purchase and install portable generators for the Municipal Building and Garage (Fire Truck bays and municipal offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St										
2020-Delevan-004	Automatic backup power for Machias Sewer	2	All hazards	**Problem:** Machias Sewer currently does not have a form of backup power. During a power outage, the station cannot function properly. Lack of power prevents pumps from pumping properly, threat sewage overflow, and potential impacts to the health and safety of the community. **Solution:** Purchase and install backup generator for Machias sewer station. A generator would allow the station to pump properly during a power outage and prevent overflow and other issues associated with a power outage.	Yes	No	Within 5 years	Village of Public Works	$20,000	To protect the integrity of the sewer plants; continuity of operations	HMGP, BRIC, operating budget	High	SIP	PP
2020-Delevan-005	Cobb Street, Church St, First Ave, Owens, and Stevens St	2	Severe Storm, Flood	**Problem:** Cobb Street, Church St, First Ave, Owens, and Stevens St floods on a regular basis due to debris in creek. Dead trees and debris	No	None	Within 1 year	Village of Delevan, DEC	$75,000	Drainage for Cobb St, Church St, First Ave, Owens, and	HMGP, BRIC, operating budget	High	SIP	SP

Table 9.10-15. 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
	creek debris removal			need to be removed from area behind the school. But Army Corps and DEC said it was wetlands **Solution:** Work with DEC and remove debris and growth from creeks along roads.						Stevens St improved				
2020-Delevan-006	Prospect Street Landslide Study	1	Landslide	**Problem:** The village needs to determine local vulnerabilities to landslides threatening Prospect Street **Solution:** Work with county to conduct surveys to determine local vulnerabilities to landslides threatening Prospect Street, coordinate with municipalities to limit development in these areas and develop remedial measures for existing vulnerabilities.	No	None	Within 6 months	Village supervisor	Staff Time	Local vulnerabilities to landslides threatening property and roads determined	Village Budget	High	SIP	PR
2020-Delevan-007	Improve internet access for village businesses and residents	2	Utility Failure	**Problem:** There is limited internet access for Village residents and businesses. **Solution:** Improve internet access so businesses and residents can efficiently connect to the internet and get alerts on hazards	No	None	Within a year	Village	$10,000	Highspeed internet can provide economic benefits for the village	Operating Budget	Med.	SIP	PI
2020-Delevan-008	Update Flood Damage Prevention Ordinance	2	Flood	**Problem:** The village lacks an updated flood damage prevention ordinance **Solution:** The village will develop an updated flood	No	None	Within 6 months	Village Board	<$100	Meet NFIP requirement, buildings built to higher standard	Village Budget	High	LPR	PR

Table 9.10-15. 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
				damage prevention ordinance.										
2020-Delevan-009	The Floodplain Administrator should attend training on floodplain management.	2	Flood	**Problem:** Floodplain Managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. **Solution:** The floodplain administrator will attend trainings to help them prevent and mitigate flooding in their community.	No	Noe	Within 6 months	FPA	$3,000	Meet NFIP requirement	Village Budget	Med.	LPR	PR
2020-Delevan-010	Provide information to residents, business owners, and organizations about what they can do to protect their structures from wildfires	2	Wildfires	**Problem:** Additional public education on wildfire risk is needed. **Solution:** Provide wildfire information to community and what they can do to protect their structures from wildfires.	No	None	Within 6 months	Village Supervisor	Staff time	Facilities protected from wildfires	Village Budget	Med.	EAP	PI
2020-Delevan-011	Update the Emergency Operations Plan	2	All Hazards	**Problem:** outdated emergency operation plan **Solution:** Update the village's emergency operation plan	No	None	Within 1 year	County, Village	<$100	EOPs updated	Village budget	High	LPR	ES
2020-Delevan-012	Update Building Codes	2	All Hazards	**Problem:** outdated building codes **Solution:** Update the village's building codes	No	None	Within 1 year	County, Village	<$100	Building Codes to provide standards to protect buildings from hazards	Village Budget	High	LPR	PP

Table 9.10-15. 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-Delevan-021	North Main and School St drainage	2	Flood, Severe Storm	**Problem:** During heavy rain, deteriorating drains are unable to handle water. Flooding along the roadway and properties **Solution:** Under drainage needs replaced due to failure. Determine if village has easements or right of ways	No	None	Within 2 years	Village	$15,000	North Main and School St drainage improved	BRIC, HMGP, Village budget	High	SIP	SP

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*
Med.	*Medium*
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 also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities*

CRS Category:

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

Table 9.10-16. 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- Delevan-001	Repair present and install new stormwater drainage system on Delevan Ave.	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020- Delevan-002	Protect the Village of Delevan Municipal Hall to the 0.2% annual chance flood event.	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020- Delevan-003	Portable generators for the Municipal Building, and Garage (Fire Truck bays and municipal offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020- Delevan-004	Automatic backup power for Machias Sewer	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020- Delevan-005	Cobb Street, Church St, First Ave, Owens, and Stevens St creek debris removal	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020- Delevan-006	Prospect Street Landslide Study	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020- Delevan-007	Improve internet access for village businesses and residents	0	0	1	1	1	0	1	0	1	1	0	1	0	1	8	Medium
2020- Delevan-008	Update Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020- Delevan-009	The Floodplain Administrator should attend training on floodplain management.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High

Table 9.10-16. 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- Delevan-010	Provide information to residents, business owners, and organizations about what they can do to protect their structures from wildfires	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Delevan-011	Update the Emergency Operations Plan	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Delevan-012	Update Building Codes	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Delevan-021	North Main and School St drainage	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High

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

9.10.8 Proposed Mitigation Action Types

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

Table 9.10-17. Analysis of Mitigation Actions by Hazard and Category

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

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

9.10.9 Staff and Local Stakeholder Involvement in Annex Development

The Village of Delevan 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 Code Enforcement Officer and Public Works Superintendent. The Code Enforcement Officer 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 (Meetings).

9.10.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Delevan that illustrates the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan and is considered to be 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 Delevan has significant exposure. The maps are illustrated below.

Figure 9.10-1. Village of Delevan Hazard Area Extent and Location Map 1

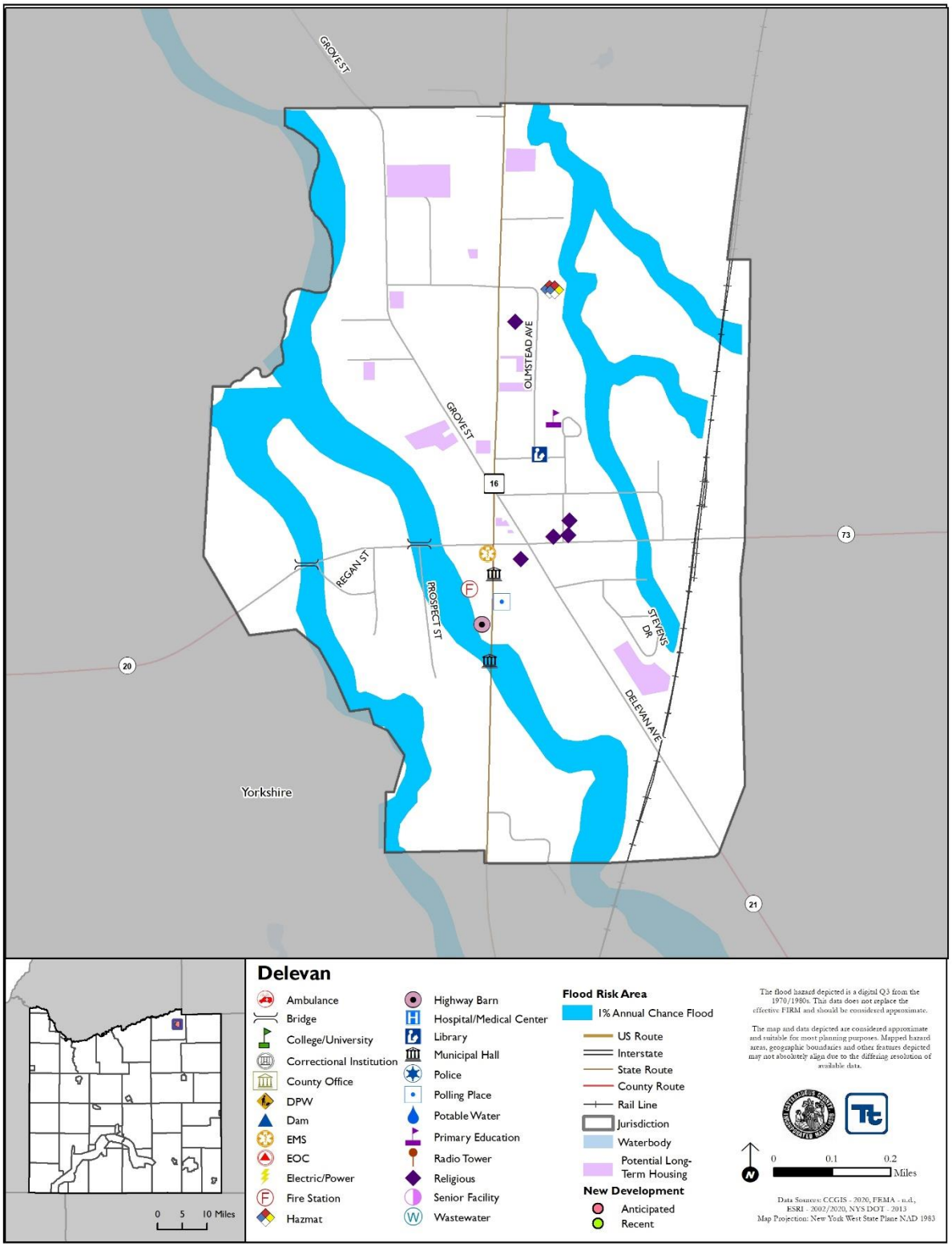
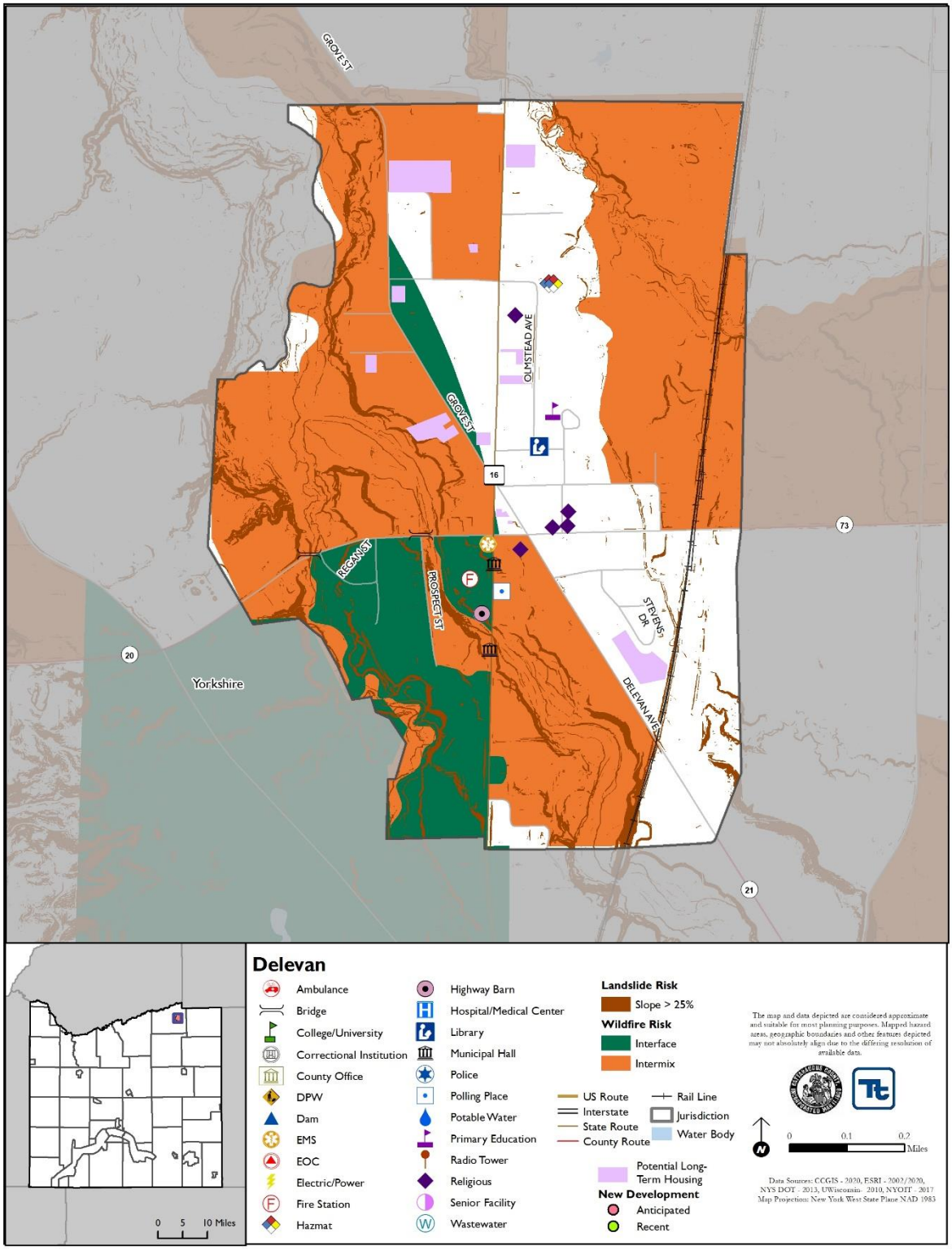


Figure 9.10-2. Village of Delevan Hazard Area Extent and Location Map 2



Village of Delevan Action Worksheet			
Project Name:	Repair present and install new stormwater drainage system on Delevan Ave.		
Project Number:	2020- Delevan-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Delevan Ave underpass continually floods, drainage is overwhelmed		
Action or Project Intended for Implementation			
Description of the Solution:	Install outlet pipe, replace or reconfigure to allow it to drain.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☐	No ☒	
(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):**	Stormwater system improved. Flood risk reduced
Useful Life:	30 years	**Goals Met:**	2
Estimated Cost:	$2,500	**Mitigation Action Type:**	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 2 years
Estimated Time Required for Project Implementation:	6 months	**Potential Funding Sources:**	HMGP, Village Budget
Responsible Organization:	Village Board	**Local Planning Mechanisms to be Used in Implementation if any:**	Hazard Mitigation

Three Alternatives Considered (including No Action)			
	Action	**Estimated Cost**	**Evaluation**
Alternatives:	No Action	$0	Problem continues.
	Relocate roads to other locations	N/A	Roadway will still need to cross streams and low-lying areas.
	Abandon road	N/A	Roadway needs to be maintained for access

Progress Report (for plan maintenance)	
Date of Status Report:	
Report of Progress:	
Update Evaluation of the Problem and/or Solution:	

Action Worksheet		
Project Name:	Repair present and install new stormwater drainage system on Delevan Ave	
Project Number:	2020- Delevan-001	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	
Property Protection	1	Road protected from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, severe storm
Timeline	0	
Agency Champion	1	Village Board
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Village of Delevan Action Worksheet			
Project Name:	Protect the Village of Delevan Municipal Hall to the 0.2% annual chance flood event.		
Project Number:	2020- Delevan-002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Village of Delevan Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Municipal Hall to protect it to the 0.2% annual chance level. Options include: •Elevation of facility •Floodproofing of facility •Mobile flood barriers Once the most cost-effective option is identified, the town will carry out the option.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☒	No ☐	
(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:	0.2% annual chance flood event	**Estimated Benefits (losses avoided):**	Facility can continue operations and emergency coordination is established
Useful Life:	TBD by feasibility study	**Goals Met:**	1
Estimated Cost:	TBD by feasibility study	**Mitigation Action Type:**	Structure and Infrastructure
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 (EMPG) Program, town budget
Responsible Organization:	Engineer, facility operator	**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	Problem continues.
	Relocate Municipal Hall	N/A	Not possible
	Build levee around facility	N/A	No space for full levee system
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	Protect the Village of Delevan Municipal Hall to the 0.2% annual chance flood event.	
Project Number:	2020- Delevan-002	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Municipal Hall
Property Protection	1	Project will protect Municipal Hall from flood damage.
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	Flood
Timeline	0	Within 5 years
Agency Champion	1	Engineer, Facility Manager
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	

Village of Delevan Action Worksheet			
Project Name:	Portable generators for the Municipal Building, and Garage (Fire Truck bays and municipal offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St		
Project Number:	2020- Delevan-003		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	The Municipal Building (85 South Main) and Garage (Fire Truck bays and municipal offices), emergency shelter located at 1006 N Main St, and Delevan Fire Department located at 1006 North Main St lack backup power		
Action or Project Intended for Implementation			
Description of the Solution:	Purchase and install portable generators for the Municipal Building and Garage (Fire Truck bays and municipal offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☒	No ☐	
(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:	No power loss	**Estimated Benefits (losses avoided):**	Critical facilities have access to backup power
Useful Life:	50 years	**Goals Met:**	2
Estimated Cost:	$15,000-20,000 per generator	**Mitigation Action Type:**	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 2 years
Estimated Time Required for Project Implementation:	6 months	**Potential Funding Sources:**	HMGP, BRIC, municipal budget
Responsible Organization:	Village FD,Village	**Local Planning Mechanisms to be Used in Implementation if any:**	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	**Action**	**Estimated Cost**	**Evaluation**
	No Action	$0	Problem continues.
	Install solar panels	$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	$100,000	Weather dependent; poses a threat to 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:	Portable generators for the Municipal Building, and Garage (Fire Truck bays and municipal offices), emergency shelter, and Delevan Fire Department located at 1006 North Main St	
Project Number:	2020- Delevan-003	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of facilities
Property Protection	1	Project will protect facilities from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The village has the legal authority to complete the project.
Fiscal	1	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	1 year
Agency Champion	0	Village
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	

Village of Delevan Action Worksheet			
Project Name:	Automatic backup power for Machias Sewer		
Project Number:	2020- Delevan-004		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	Machias Sewer currently does not have a form of backup power. During a power outage, the station cannot function properly. Lack of power prevents pumps from pumping properly, threat sewage overflow, and potential impacts to the health and safety of the community.		
Action or Project Intended for Implementation			
Description of the Solution:	Purchase and install backup generator for Machias sewer station. A generator would allow the station to pump properly during a power outage and prevent overflow and other issues associated with a power outage.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☐	No ☒	
(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):**	To protect the integrity of the sewer plants; continuity of operations
Useful Life:	50 years	**Goals Met:**	2
Estimated Cost:	$20,000	**Mitigation Action Type:**	Structure and Infrastructure project
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 5 years
Estimated Time Required for Project Implementation:	Within 5 years	**Potential Funding Sources:**	HMGP, BRIC, operating budget
Responsible Organization:	Village of Public Works	**Local Planning Mechanisms to be Used in Implementation if any:**	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	**Action**	**Estimated Cost**	**Evaluation**
	No Action	$0	Problem continues.
	Install solar panels	$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	$100,000	Weather dependent; poses a threat to 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:	Automatic backup power for Machias Sewer	
Project Number:	2020- Delevan-004	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Machias Sewer
Property Protection	1	Project will protect Machias Sewer from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The village has the legal authority to complete the project.
Fiscal	1	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	1 year
Agency Champion	0	Village
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	

Village of Delevan Action Worksheet			
Project Name:	Cobb Street, Church St, First Ave, Owens, and Stevens St creek debris removal		
Project Number:	2020- Delevan-005		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Cobb Street, Church St, First Ave, Owens, and Stevens St floods on a regular basis due to debris in creek. Dead trees and debris need to be removed from area behind the school. But Army Corps and DEC said it was wetlands		
Action or Project Intended for Implementation			
Description of the Solution:	Work with DEC and remove debris and growth from creeks along roads.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☐	No ☒	
(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):**	Drainage for Cobb St, Church St, First Ave, Owens, and Stevens St improved
Useful Life:	50 years	**Goals Met:**	2
Estimated Cost:	$75,000	**Mitigation Action Type:**	Structure and Infrastructure project
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 5 years
Estimated Time Required for Project Implementation:	1 year	**Potential Funding Sources:**	HMGP, BRIC, operating budget
Responsible Organization:	Village, DEC	**Local Planning Mechanisms to be Used in Implementation if any:**	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	**Action**	**Estimated Cost**	**Evaluation**
	No Action	$0	Problem continues.
	Install retention basin	N/A	Not enough room
	Install stormwater pipes	$200,000	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	Cobb Street, Church St, First Ave, Owens, and Stevens St creek debris removal	
Project Number:	2020- Delevan-005	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	
Property Protection	1	Project will protect roadway from flooding
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	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Village, DEC
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Village of Delevan Action Worksheet			
Project Name:	North Main and School St Drainage		
Project Number:	2020- Delevan-021		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	During heavy rain, deteriorating drains are unable to handle water. Flooding along the roadway and properties		
Action or Project Intended for Implementation			
Description of the Solution:	Under drainage needs replaced due to failure. Determine if village has easements or right-of-way		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes ☐	No ☒	
(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):**	North Main and School Street drainage improved
Useful Life:	50 years	**Goals Met:**	2
Estimated Cost:	$15,000	**Mitigation Action Type:**	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	Within 2 years
Estimated Time Required for Project Implementation:	Within 2 years	**Potential Funding Sources:**	HMGP, BRIC, village budget
Responsible Organization:	Village	**Local Planning Mechanisms to be Used in Implementation if any:**	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	**Action**	**Estimated Cost**	**Evaluation**
	No Action	$0	Problem continues.
	Install retention basin	N/A	Not enough room.
	Abandon road	N/A	Roadway needs to be maintained for access
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Action Worksheet		
Project Name:	North Main and School Street Drainage	
Project Number:	2020- Delevan-021	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	
Property Protection	1	Project will protect North Main and School Street from flooding
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	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Village
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	