9.25 VILLAGE OF LITTLE VALLEY

This section presents the jurisdictional annex for the Village of Little Valley. 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 Little Valley'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.

9.25.1 Hazard Mitigation Planning Team

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

Table 9.25-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Bob Young, Public Works Superintendent Address: 103 Rock City St, Little Valley, NY 14755 Phone Number: 716-498-1676 Email: volvsuperintendent@villageoflittlevalley.org	Name/Title: Kory Gross, Streets Superintendent Address: 103 Rock City St, Little Valley, NY 14755 Phone Number: 716-969-7765 Email: kgross663@gmail.com
NFIP Floodplain Administrator	
Name/Title: Jim Bowen, Mayor Address: 103 Rock City St, Little Valley, NY 14755 Phone Number: 716-244-1031 Email: mayor@villageoflittlevalley.org	

9.25.2 Municipal Profile

The Village of Little Valley lies in the central part of Cattaraugus County in western New York State. The Village of Little Valley has a total area of 1 square mile. The Little Valley Creek flows through the village. The village is surrounded by the Town of Little Valley on all sides and is bordered to the north by the Town of Mansfield.

Data from the 2018 U.S. Census American Community Survey indicate that village has a total population of 1,180, with 7.4 percent of the village population 5 years of age or younger and 14.2 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 Little Valley was incorporated in 1876. The primary industries of the village included logging, dairy, and the manufacture of cutlery. The Village of Little Valley is the County Seat of Cattaraugus County.

9.25.3 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 9.25-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.25-1 at the end of this

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

Table 9.25-2. 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	1	1
Total	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**0**	**1**	**1**
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										
None identified										
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
None anticipated										

SFHA Special Flood Hazard Area (1% flood event)

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

9.25.4 Capability Assessment

The Village of Little Valley 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 9.25.4). The Village of Little Valley 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 Little Valley and where hazard mitigation has been integrated.

Table 9.25-3. 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	LL 2-2006	Village	Code Enforcement	Yes	Yes	-
Comment: None							
Zoning Code	Yes	11/16/2016 LL 1-2016	Village	Code Enforcement	No	Yes	-
Comment: For the purpose of promoting the public, health,, safety, comfort and general welfare; conserving and protecting property and property .-values; securing the most appropriate use of land; lessening or avoiding congestion in the public; streets and highways; and facilitating adequate but economical provision of public improvements, all .in accordance with a comprehensive plan.							
Subdivisions	No	-	-	-	No	-	-
Comment: None							
Stormwater Management	No	-	-	-	Yes	-	-
Comment: None							
Post-Disaster Recovery	Yes	1/14/2020	Local	OEM	No	Yes	-
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	Article 10 of Zoning Law	Local	Code Enforcement	No	Yes	-
Comment: None							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Yes	Article 12 of Zoning Law	Local	FPA	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Village of Little Valley-009
Comment: None							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: None							
Emergency Management	Yes	1/14/2020	Village/County	OEM	Yes	Yes	-
Comment: None							
Climate Change	No	-	-	-	Yes	-	-

	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							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: None							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
Comment: None							
Planning Documents							
Comprehensive Plan	Yes	10/26/1999	Local	Village Board	No	Yes	-
Comment: None							
Capital Improvement Plan	Yes	In Development	Local	Administration	No	Yes	-
Comment: None							
Disaster Debris Management Plan	No	-	-	-	No	-	-
Comment: None							
Floodplain or Watershed Plan	Yes	LL 1-2016	Local	Code Enforcement	No	Yes	-
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	-	-

	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.)	Water Supply Emergency Plan	Lat updated 2/9/2017 by county – in process of updating/adoption by village	Local	Administration		Yes	-
Comment: None							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	1/14/2020	Village	OEM	Yes	Yes	-
Comment: None							
Strategic Recovery Planning Report	No	-	-	-	-	-	-
Comment: None							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment: None							
Post-Disaster Recovery Plan	Yes	1/14/2020	Local	OEM	No	Yes	-
Comment: None							
Continuity of Operations Plan	Yes	1/14/2020	Local	OEM	No	Yes	-
Comment: None							
Public Health Plan	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	No	-	-
Comment: None							

Table 9.25-4. 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
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 – approximately 75% buildout. aAbuildable 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 Little Valley.

Table 9.25-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Village Mayor and Trustees
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	Cattaraugus County, Town of Little Valley, and others
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	The village works with Cattaraugus County and Southern Tier West
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Mayor
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 Little Valley.

Table 9.25-6. 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	No – could develop
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
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 Little Valley.

Table 9.25-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes – Public Works Superintendent and Mayor
Personnel skilled or trained in website development?	Yes – Southern Tier West
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.	Yes – Village and Planning Board
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.	No
Other	No

Community Classifications

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

Table 9.25-8. 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 has worked to keep creeks clear of debris to allow for the greatest volume possible and has upsized culverts where possible, noting the need to prepare for future flooding conditions that may occur due to climate change.

Table 9.25-9. Adaptive Capacity

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

Jim Bowen, Mayor

National Flood Insurance Program (NFIP) Summary

The Village of Little Valley does maintain a list of properties that have been damaged by flooding, but it does not maintain a list of property owners interested in flood mitigation. There are no RiskMAP projects currently underway within the village. No properties have been mitigated within the village. Flood hazard maps adequately address the risk of flooding within the Village of Little Valley.

The following table summarizes the NFIP statistics for the Village of Little Valley.

Table 9.25-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Little Valley	2	1	$75	0

Source: *NYS DHSES 2020*
Notes:
RL *Repetitive Loss*

Resources

Code enforcement is responsible for floodplain management. There are no certified floodplain managers on staff within the village, and the village does not have access to resources to determine possible future flooding conditions from climate change. The village indicated that its floodplain management staff needs additional training to support its floodplain management program. The village provides permit review as an NFIP administration service. The Zoning Board and Code Enforcement determine if proposed development on an existing structure qualifies as a substantial improvement.

Compliance History

The Village of Little Valley does not have any outstanding NFIP compliance violations that need to be addressed.

Regulatory

Article 12 of Zoning Law is the local law or municipal code of the village's flood damage prevention ordinance. The village's floodplain management program meets the minimum requirements. The Zoning Board supports floodplain management and meeting the NFIP requirements.

Additional Areas of Existing Integration

Village Website: The village website (https://www.villageoflittlevalley.org/) includes information on the local government and community information.

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 Little Valley identified Route 353 North/South and Route 242 East/West as evacuation routes for the community.

Sheltering

Designated emergency shelters within the Village include the Fire Hall (located at 101 Third Street), the Village Hall (located at 103 Rock City Street), the County Building (located at 303 Court Street), and the former Little Valley School Building (located at 207 Rock City Street).

The Fire Hall has a capacity of 500, can accommodate pets, and is ADA compliant. It does not have access to backup power. The Village Hall has a capacity of 50, can accommodate pets, is ADA compliant, and has manual and temporary backup power. The capacity of the County building is unknown. It cannot accommodate pets, but it is ADA compliant and has backup power. The former Little Valley School Building has a capacity of 500, can accommodate pets, and is ADA compliant. It does not have backup power.

Temporary Housing

The Village of Little Valley identified five areas suitable for placing temporary housing units: the Fairgrounds (200 site capacity fairground), the 9th Street area (50 site capacity storage area), the First Street Pool (25 site capacity park), the Winship Field (15 site capacity open field), and the Wastewater Treatment Plant (75 site capacity open field). The Fairgrounds, First Street Pool, Winship Field, and Wastewater Treatment Plant provide all infrastructure and utilities, and the 9th Street area provides water and electric.

Permanent Housing

The Village of Little Valley identified the Winship Field (4 site capacity) and the area next to the Wastewater Treatment Plant (25 site capacity) as areas suitable for relocating homes outside of the floodplain. Both sites provide all infrastructure and utilities, and both are classified as open field.

9.25.5 Hazard Event History Specific to the Village of Little Valley

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 Little Valley'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 9.25-11 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 9.25-11. 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 Little Valley did not report 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 Little Valley did not report 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 Little Valley did not report 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 Little Valley did not report 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 Little Valley did not report damages.
July 4, 2019	Flooding	No	Storms developed along subtle boundaries in the mid-afternoon, but initially maintained enough movement to limit rainfall amounts. Then cells started to briefly back-build or organize into larger clusters late in the afternoon across southern Erie and Cattaraugus counties. Reports of 2 to 3 inches of rain were common in the flooding areas.	Flooding prompted the closure of Route 353 in Little Valley. Flooding resulted in numerous losses (on record with Cattaraugus County)

Notes:

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

9.25.6 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 Little Valley'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 Little Valley. The Village of Little Valley 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 indicated the following:

- The village changed the hazard ranking of flood from low to high, noting the impact flooding has had on the community.
- The village changed the hazard ranking of landslide from low to medium, noting there are some minor areas of concern that do exist within the Village that are monitored.
- The Village of Little Valley agreed with the remainder of the calculated hazard rankings.

Table 9.25-12. Hazard Ranking Input

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

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

**The municipality changed the initial ranking of this hazard based on event history, municipal 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 event, or worst damage scenario. For those that do not meet this criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent 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 9.25-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure 1% Event	Addressed by Proposed Action
Little Valley Fire Department	Fire Station	X	2020-Village of Little Valley-001

Source: Cattaraugus County 2020

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Flooding on Route 353
- Fire Hall – currently in process of upgrading backup power
- Village Hall – temporary generator only
- Wells need backup power
- The Village of Little Valley's flood damage prevention ordinance requires updating.
- Floodplain administration staff require additional training.
- Additional public education on wildfire risk is needed.
- There is a need to relocate the electric substation from creek bank of 3rd Street – the substation has no back-up (back-feed) if anything happens to it from flooding or another type of disaster.

9.25.7 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 9.25-14. 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.
B2.11	Replace repetitively damaged/undersized culvert and drainage system in Village of Little Valley on Fourth St.	Flood	Village		Ongoing	Cost		1. Include in 2020 HMP 2. The project will be included in the 2020 HMP because of ongoing flooding issues. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B2.12	Replace repetitively damaged/undersized culvert in Village of Little Valley on Winship Ave.	Flood	Village		Ongoing	Cost		1. Include in 2020 HMP 2. The project will be included in the 2020 HMP because of ongoing flooding issues. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B2.13	Replace repetitively damaged/undersized culvert in Village of Little Valley on Thompson Ave.	Flood	Village		Complete	Cost	$43,352.58	1. Discontinue 2. 3. Complete. Funding was received from DASNY, sponsored by Senator Young
						Level of Protection		
						Damages Avoided; Evidence of Success	Yes	

Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Little Valley 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:

- Cleaned the creek throughout the village
- The village installed a backup generator at the wastewater treatment plant.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Little Valley 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 9.25-15 summarizes the comprehensive range of specific mitigation initiatives the Village of Little Valley 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 9.25-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.25-15. 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 Little Valley-001	Little Valley Volunteer Fire Department	1	Flood	**Problem**: The Little Valley Volunteer Fire Department is located in the Special Flood Hazard Area. Critical facilities need to be protected to the 500-year flood level. **Solution**: The village will conduct a feasibility assessment to determine what floodproofing measures are needed at the Volunteer Fire Department to protect it to the 500-year flood level.	Yes	None	Within 5 years	Engineer, Fire Dept	TBD by feasibility assessment	Ensures continuity of operations	FEMA HMGP, BRIC, USDA Community Facilities Grant Program, EMPG, village Budget	High	SIP	PP
2020-Village of Little Valley-002	Fourth Street Culvert and Drainage System	1	Flood, Severe Storm	**Problem**: The culvert and drainage system on Fourth Street is undersized, leading to damages and increased flood risk. **Solution**: Replace and upsize the repetitively damaged/undersized culvert and drainage system in Village of Little Valley on Fourth Street.	No	None	Within 5 years	Public Works	$7,000	Reduction in culvert damages and flood risk	HMGP, BRIC, CHIPS, village budget	High	SIP	SP
2020-Village of Little Valley-003	Winship Avenue Culvert	1	Flood, Severe Storm	**Problem**: The culvert on Winship Avenue is undersized, leading to damages and increased flood risk. **Solution**: Replace and upsize the repetitively damaged/undersized culvert in Village of Little Valley on Winship Avenue.	No	None	Within 5 years	Public Works	$5,000	Reduction in culvert damages and flood risk	HMGP, BRIC, CHIPS, village budget	High	SIP	SP
2020-Village of Little Valley-004	Thompson Avenue Culvert	1	Flood, Severe Storm	**Problem**: The culvert on Thompson Avenue is undersized, leading to damages and increased flood risk. **Solution**: Replace and upsize the repetitively damaged/undersized culvert in Village of Little Valley on Thompson Ave.	No	None	Within 5 years	Public Works	$5,000	Reduction in culvert damages and flood risk	HMGP, BRIC, CHIPS, village budget	High	SIP	SP
2020-Village of Little	Route 353 Flood Study	1	Flood	**Problem**: Flooding regularly occurs on Route 353. **Solution**: The village will conduct a flood study to determine the specific	No	None	Within 5 years	Engineer	TBD by results of flood study	Flood risk and mitigation	HMGP, village budget	High	LPR	PR, PP, SP

Table 9.25-15. 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
Valley -005				causes of flooding and potential mitigation actions. Identified actions that are cost-effective will be implemented.						actions identified				
2020-Village of Little Valley -006	Village Hall and Fire Hall Backup Power	1	Utility Failure	**Problem**: Backup power sources are necessary to maintain critical services for critical facilities. The Village Hall and Little Valley Fire Hall lack permanent power sources. Both facilities have sheltering capabilities. **Solution**: The Village Engineer will research what size generator is necessary to supply backup power to the Village Hall (between 50-75kva) and Little Valley Fire Hall (between 50-75kva). The village will then install the backup power generators and necessary electrical components.	Yes	None	Within 5 years	Engineer, OEM, Fire Department	$50,000 per generator	Ensures continuity of operations of Village Hall and Fire Hall	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, village Budget	High	SIP	ES
2020-Village of Little Valley -007	Backup Power for Wells	1	Utility Failure	**Problem**: Backup power sources are necessary to maintain critical services for critical facilities. Wells in the village require backup power. **Solution**: The Village Engineer will research what size generator is necessary to supply backup power to each well. The village will then install a backup power generator at each well and necessary electrical components.	Yes	None	Within 5 years	Engineer	Roughly $20,000 per generator	Ensures continuity of service of wells	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Municipal Budget	High	SIP	ES
2020-Village of Little Valley -008	Little Valley Creek Stream Bank Protections	2	Flood, Severe Storm	**Problem:** Little Valley Creek requires stream bank protections as banks have become degraded. **Solution:** The village will secure necessary permits to conduct stream bank restoration and installation of flood walls in areas that are most degraded. The village will then conduct the identified actions.	No	Yes, permitting required	Within 5 years	Engineer, Highway Department	Medium	Reduction in stream bank failure and flooding	HMGP, village budget	High	NSP, SIP	NR, SP

Table 9.25-15. 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 Little Valley-009	Flood Damage Prevention Ordinance	1, 2	Flood	**Problem**: The Village of Little Valley's flood damage prevention ordinance requires update. **Solution**: The village will adopt an updated flood damage prevention ordinance to maintain NFIP compliance.	No	None	Within 6 months	FPA	Staff time	NFIP compliance	Village budget	High	LPR	PR
2020-Village of Little Valley-010	FPA Training	3	Flood	**Problem**: Floodplain administration staff require additional training. **Solution**: The Village FPA and staff who assist with floodplain administration will attend trainings and workshops offered by FEMA and NYS to develop additional floodplain administration skills.	No	None	1 year	Administration	Staff time, potential attendance fees	Increased quality of floodplain administration	Village budget	High	LPR	PR
2020-Village of Little Valley-011	Wildfire Outreach	3	Wildfire	**Problem**: Additional public education on wildfire risk is needed. **Solution**: The village will conduct outreach to residents, business owners, and organizations about what they can do to protect their structures from wildfires.	No	None	1 year	Administration	$1,000	Increased wildfire awareness and personal actions taken to mitigate risk	Village budget	High	EAP	PI
2020-Village of Little Valley-012	Municipal Hall Flood Protection	1	Flood, Severe Storm	**Problem:** The Municipal Hall is not located in the special flood hazard area but has experienced flooding in the past. **Solution:** The Village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Municipal Hall to protect to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the village will carry out the option.	Yes	None	Within 5 years	Engineer	TBD by feasibility assessment	Ensures continuity of operations of Municipal Hall	FEMA HMGP, BRIC, USDA Community Facilities Grant Program, EMPG, village budget	High	SIP	PP
2020-Villag	Third Street	1		**Problem:** The Third Street Substation is not located in the	Yes	None	Within 5 years	Engineer		Ensures continuity of	FEMA HMGP,	High	SIP	PP

Table 9.25-15. 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
e of Little Valley -013	Substation Flood Protection		Flood, Severe Storm	special flood hazard area but has experienced flooding in the past. **Solution:** The village will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Third Street Substation to protect to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the village will carry out the option.					TBD by feasibility assessment	operations of Third Street Substation	BRIC, USDA Community Facilities Grant Program, EMPG, village budget			
2020-Village of Little Valley -014	Potable Water Supply Landslide Protections	1	Landslide, Utility Interruption	**Problem:** The village potable water supply is at risk for landslide. Landslide could interrupt the water supply. **Solution:** The Village Engineer will conduct an engineering study to determine the extent of the landslide risk and potential mitigation actions. The village will then implement cost effective mitigation actions identified by the study.	Yes	No	Within 5 years	Engineer	TBD by engineering study	Potable water supply protected	FEMA HMGP, village budget	High	LPR, SIP	PP
2020-Village of Little Valley -015	Residential Property Flood Mitigation	1	Flood, Severe Storm	**Problem:** Frequent flooding events have resulted in damages to residential properties, mainly in the 4th street area. **Solution:** Conduct outreach to 10 flood-prone property owners to provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevati	No	No	3 years	NFIP Floodplain Administrator, supported by homeowners	$1 million	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	FEMA HMGP and FMA, local cost share by residents	High	SIP	PP

Table 9.25-15. 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
				ng residential homes in the flood prone areas that experience frequent flooding (high risk areas).										

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 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 9.25-16. 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 Little Valley-001	Little Valley Volunteer Fire Department	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Village of Little Valley-002	Fourth Street Culvert and Drainage System	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Village of Little Valley-003	Winship Avenue Culvert	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Village of Little Valley-004	Thompson Avenue Culvert	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Village of Little Valley-005	Route 353 Flood Study	1	1	1	1	1	1	1	1	1	1	0	0	1	1	12	High
2020-Village of Little Valley-006	Village Hall and Fire Hall Backup Power	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Village of Little Valley-007	Backup Power for Wells	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Village of Little Valley-008	Little Valley Creek Stream Bank Protections	0	1	1	1	1	0	0	1	1	1	1	0	1	1	10	High
2020-Village of Little Valley-009	Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Village of Little Valley-010	FPA Training	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Little Valley-011	Wildfire Outreach	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Village of Little Valley-012	Municipal Hall Flood Protection	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Village of Little Valley-013	3rd Street High Voltage Substation Flood Protection	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Village of Little Valley-014	Potable Water Supply Landslide Protections	1	1	1	0	1	1	0	1	1	1	1	0	1	1	11	High
2020-Village of Little Valley-015	Residential Property Flood Mitigation	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).

9.25.8 Proposed Mitigation Action Types

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

Table 9.25-17. 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										
Severe Storm		X	X			X		X	X	
Severe Winter Storm										
Utility Interruption		X								X
Wildfire				X			X			

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

9.25.9 Staff and Local Stakeholder Involvement in Annex Development

The Village of Little Valley 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: Public Works Superintendent, Streets Superintendent, and Mayor. The Public Works 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).

9.25.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Little Valley that illustrate 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 are 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 Little Valley has significant exposure. These maps are illustrated below.

Figure 9.25-1. Village of Little Valley Hazard Area Extent and Location Map 1

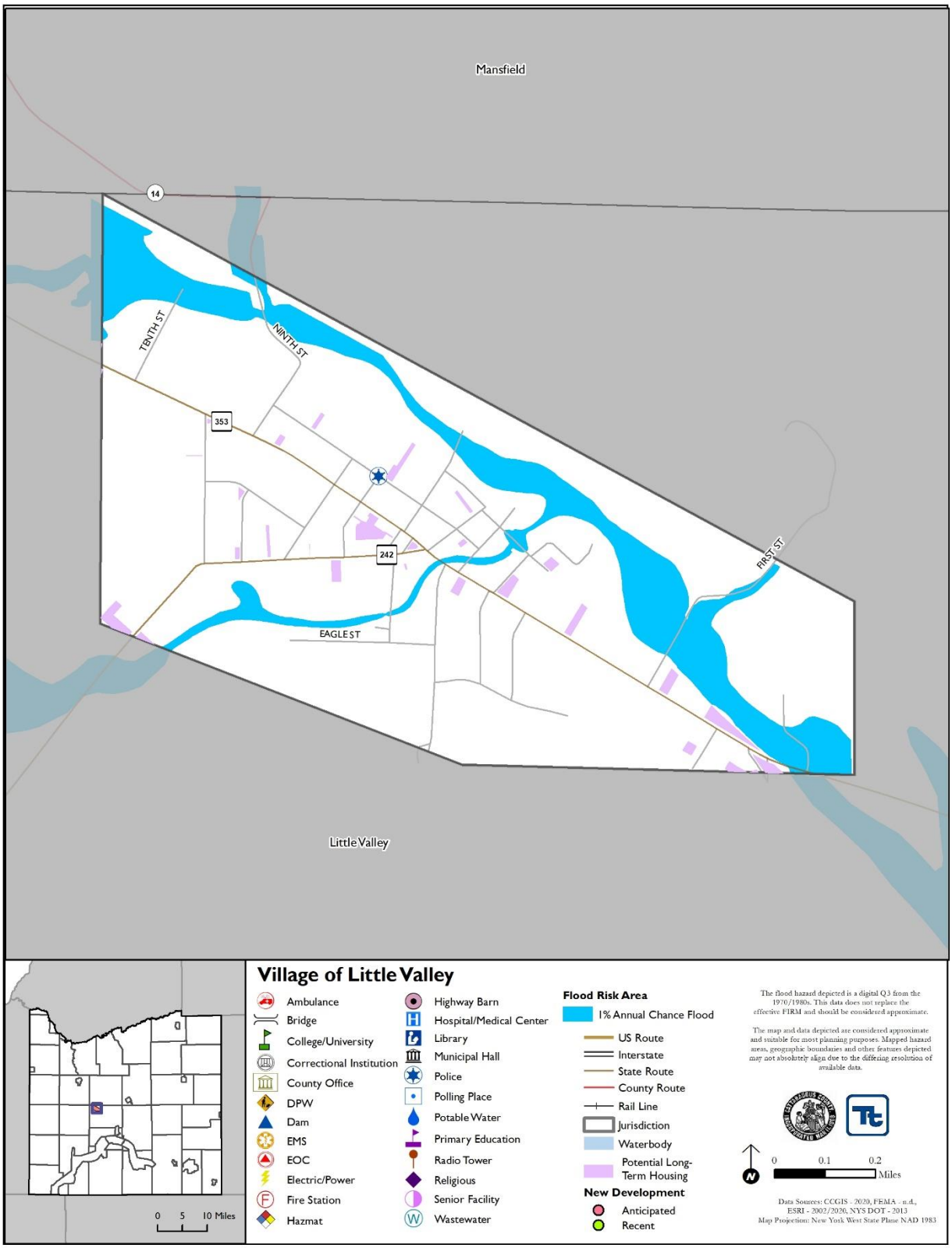
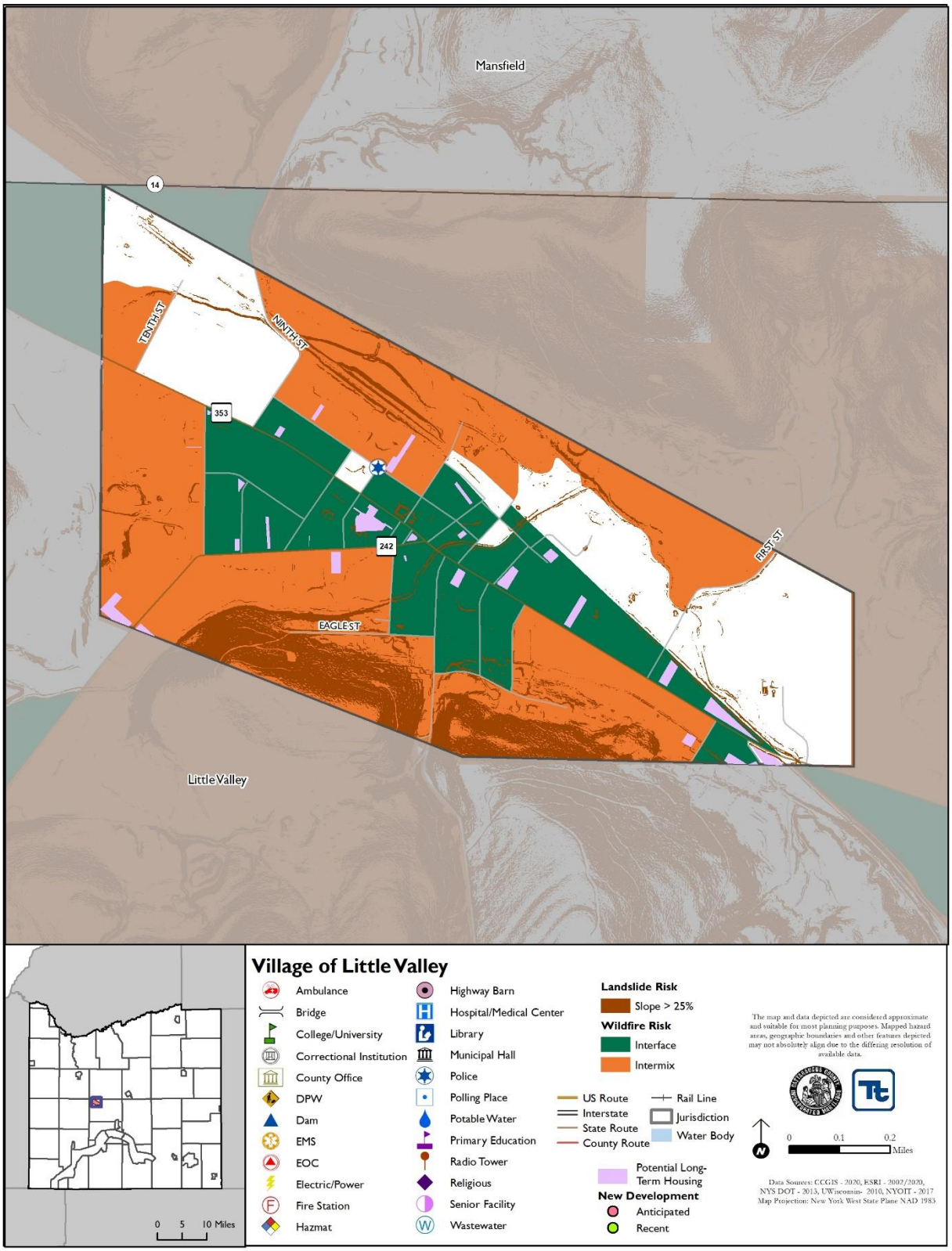


Figure 9.25-2. Village of Little Valley Hazard Area Extent and Location Map 2



Action Worksheet			
Project Name:	Little Valley Volunteer Fire Department		
Project Number:	2020-Village of Little Valley-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Little Valley Volunteer Fire Department is located in the Special Flood Hazard Area. Critical facilities need to be protected to the 500-year flood level.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will conduct a feasibility assessment to determine what floodproofing measures are needed at the Volunteer Fire Department to protect it to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the village 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 Special Flood Hazard Area?	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:	500-year flood level	**Estimated Benefits (losses avoided):**	Ensures continuity of operations
Useful Life:	TBD by feasibility assessment	**Goals Met:**	1
Estimated Cost:	TBD by feasibility assessment	**Mitigation Action Type:**	Structure and Infrastructure Projects (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, village budget
Responsible Organization:	Engineer, Fire Department	**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 Little Valley Volunteer Fire Department	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:	Little Valley Volunteer Fire Department	
Project Number:	2020-Village of Little Valley-001	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Little Valley Volunteer Fire Department
Property Protection	1	Project will protect Little Valley Volunteer Fire Department 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, Fire Department
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Fourth Street Culvert and Drainage System		
Project Number:	2020-Village of Little Valley-002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The culvert and drainage system on Fourth Street is undersized, leading to damages and increased flood risk.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will replace and upsize the repetitively damaged/undersized culvert and drainage system in the Village of Little Valley on Fourth Street.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	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:	At least a 5-year event; will be determined once project is complete	**Estimated Benefits (losses avoided):**	Reduction in culvert damages and flood risk
Useful Life:	30 years	**Goals Met:**	1
Estimated Cost:	$7,000	**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, CHIPS, village budget
Responsible Organization:	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	Current problem continues
	Remove road	$20,000	Roadway cannot be removed
	Relocate road to another location	$50,000	Roadway will still need to cross stream, 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:	Fourth Street Culvert and Drainage System	
Project Number:	2020-Village of Little Valley-002	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	0	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Winship Avenue Culvert		
Project Number:	2020-Village of Little Valley-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The culvert on Winship Avenue is undersized, leading to damages and increased flood risk.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will replace and upsize the repetitively damaged/undersized culvert in Village of Little Valley on Winship Avenue.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	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:	At least a 5-year event; will be determined once project is complete	**Estimated Benefits (losses avoided):**	Reduction in culvert damages and flood risk
Useful Life:	30 years	**Goals Met:**	1
Estimated Cost:	$5,000	**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, CHIPS, village budget
Responsible Organization:	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	Current problem continues
	Remove road	$20,000	Roadway cannot be removed
	Relocate road to another location	$50,000	Roadway will still need to cross stream, 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:	Winship Avenue Culvert	
Project Number:	2020-Village of Little Valley-003	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	0	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Thompson Avenue Culvert		
Project Number:	2020-Village of Little Valley-004		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The culvert on Thompson Avenue is undersized, leading to damages and increased flood risk.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will replace and upsize the repetitively damaged/undersized culvert in Village of Little Valley on Thompson Avenue.		
Is this project related to a Critical Facility?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	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:	At least a 5-year event; will be determined once project is complete	**Estimated Benefits (losses avoided):**	Reduction in culvert damages and flood risk
Useful Life:	30 years	**Goals Met:**	1
Estimated Cost:	$5,000	**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, CHIPS, village budget
Responsible Organization:	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	Current problem continues
	Remove road	$20,000	Roadway cannot be removed
	Relocate road to another location	$50,000	Roadway will still need to cross stream, 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:	Thompson Avenue Culvert	
Project Number:	2020-Village of Little Valley-004	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	0	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Village Hall and Fire Hall Backup Power		
Project Number:	2020-Village of Little Valley-006		
Risk / Vulnerability			
Hazard(s) of Concern:	Utility Failure		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. The Village Hall and Little Valley Fire Hall lack permanent power sources. Both facilities have sheltering capabilities.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village Engineer will research what size generator is necessary to supply backup power to the Village Hall (between 50-75kva) and Little Valley Fire Hall (between 50-75kva). The village will then install the backup power generators and necessary electrical components.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	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):**	Ensures continuity of operations of Village Hall and Little Valley Fire Hall
Useful Life:	20 years	**Goals Met:**	1
Estimated Cost:	$50,000	**Mitigation Action Type:**	Structure and Infrastructure Projects (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 USDA Community Facilities Grant Program, EMPG, Municipal Budget
Responsible Organization:	Engineer, OEM, Fire Department	**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.
	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:	Village Hall and Fire Hall Backup Power	
Project Number:	2020-Village of Little Valley-006	
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 from power loss.
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	All hazards
Timeline	0	Within 5 years
Agency Champion	1	Village Board, Engineer, Fire Department
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Backup Power for Wells		
Project Number:	2020-Village of Little Valley-007		
Risk / Vulnerability			
Hazard(s) of Concern:	Utility Failure		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. Wells in the village require backup power.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village Engineer will research what size generator is necessary to supply backup power to each well. The village will then install a backup power generator at each well and necessary electrical components.		
Is this project related to a Critical Facility?	Yes ☒	No ☐	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	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):**	Ensures continuity of service of wells
Useful Life:	20 years	**Goals Met:**	1
Estimated Cost:	$20,000 per generator	**Mitigation Action Type:**	Structure and Infrastructure Projects (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 USDA Community Facilities Grant Program, Municipal Budget
Responsible Organization:	Engineer	**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.
	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:	Backup Power for Wells	
Project Number:	2020-Village of Little Valley-007	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of Village wells
Property Protection	1	Project will protect Village wells from power loss.
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	All hazards
Timeline	0	Within 5 years
Agency Champion	1	Engineer
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Little Valley Creek Stream Bank Protections		
Project Number:	2020-Village of Little Valley-008		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Little Valley Creek requires stream bank protections as banks have become degraded.		
Action or Project Intended for Implementation			
Description of the Solution:	The village will secure necessary permits to conduct stream bank restoration and installation of flood walls in areas that are most degraded. The village will then conduct the identified actions.		
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):**	Reduction in stream bank failure and flooding
Useful Life:	1 year	**Goals Met:**	1
Estimated Cost:	Medium	**Mitigation Action Type:**	Natural Systems Protection, 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, village budget
Responsible Organization:	Engineer, Highway Department	**Local Planning Mechanisms to be Used in Implementation if any:**	None
Three Alternatives Considered (including No Action)			
Alternatives:	**Action**	**Estimated Cost**	**Evaluation**
	No Action	$0	Problem continues.
	Retreat from areas near stream	High	Costly, unpopular
	Levees along stream	High	Not feasible/environmentally damaging, 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:	Little Valley Creek Stream Bank Protections	
Project Number:	2020-Village of Little Valley-008	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	0	
Property Protection	1	Project will protect properties from falling tree damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	Permitting likely required
Fiscal	0	Project requires funding support
Environmental	1	Restores stream banks
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	Engineer, Highway Department
Other Community Objectives	1	Restore natural floodplain function
Total	10	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Municipal Hall Flood Protection		
Project Number:	2020-Village of Little Valley-012		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The Municipal Hall is not located in the special flood hazard area but has experienced flooding in the past.		
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 to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the Village 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 Special Flood Hazard Area?	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:	500-year flood level	**Estimated Benefits (losses avoided):**	Ensures continuity of operations of Municipal Hall
Useful Life:	TBD by feasibility assessment	**Goals Met:**	1
Estimated Cost:	TBD by feasibility assessment	**Mitigation Action Type:**	Structure and Infrastructure Projects (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, village budget
Responsible Organization:	Engineer	**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 facilities	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:	Municipal Hall Flood Protection	
Project Number:	2020-Village of Little Valley-012	
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	1	Flood, Severe Storm
Timeline	0	Within 5 years
Agency Champion	1	Engineer
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	3rd Street High Voltage Substation Flood Protection		
Project Number:	2020-Village of Little Valley-013		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm, Utility Interruption		
Description of the Problem:	The 3rd Street High Voltage Substation is at risk for flooding and has flooded in the past. This could cause damages and utility interruptions.		
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 3rd Street High Voltage Substation to protect to the 500-year flood level. Options include: • Elevation of facility • Floodproofing of facility • Mobile flood barriers Once the most cost-effective option is identified, the village 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 Special Flood Hazard Area?	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:	500-year flood level	**Estimated Benefits (losses avoided):**	Ensures continuity of operations of 3rd Street High Voltage Substation
Useful Life:	TBD by feasibility assessment	**Goals Met:**	1
Estimated Cost:	TBD by feasibility assessment	**Mitigation Action Type:**	Structure and Infrastructure Projects (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, Village Budget
Responsible Organization:	Engineer	**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 facilities	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:	3rd Street High Voltage Substation Flood Protection	
Project Number:	2020-Village of Little Valley-013	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Project will protect critical services of 3rd Street High Voltage Substation
Property Protection	1	Project will protect 3rd Street High Voltage Substation 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	1	Flood, Severe Storm, Utility Interruption
Timeline	0	Within 5 years
Agency Champion	1	Engineer
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Residential Property Flood Mitigation		
Project Number:	2020-Village of Little Valley-015		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Frequent flooding events have resulted in damages to residential properties, mainly in the 4th Street area.		
Action or Project Intended for Implementation			
Description of the Solution:	Conduct outreach to 10 flood-prone property owners to provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
Is this project related to a Critical Facility or Lifeline?	Yes ☐	No ☒	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes ☐	No ☒	
Level of Protection:	1% annual chance flood event + freeboard *(in accordance with flood ordinance)*	**Estimated Benefits (losses avoided):**	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.
Useful Life:	Acquisition: Lifetime Elevation: 30 years (residential)	**Goals Met:**	1, 2
Estimated Cost:	$1 Million	**Mitigation Action Type:**	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	**Desired Timeframe for Implementation:**	6-12 months
Estimated Time Required for Project Implementation:	Three years	**Potential Funding Sources:**	FEMA HMGP and FMA, local cost share by residents
Responsible Organization:	NFIP Floodplain Administrator, supported by homeowners	**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	Current problem continues
	Elevate homes	$500,000	When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads
	Elevate roads	$500,000	Elevated roadways would not protect the homes from flood damages

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

Action Worksheet		
Project Name:	Residential Property Flood Mitigation	
Project Number:	2020-Village of Little Valley-015	
Criteria	**Numeric Rank (-1, 0, 1)**	**Provide brief rationale for numeric rank when appropriate**
Life Safety	1	Families moved out of high-risk flood areas.
Property Protection	1	Properties removed from high-risk flood areas.
Cost-Effectiveness	1	Cost-effective project
Technical	1	Technically feasible project
Political	1	
Legal	1	The village has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	0	Project would remove families from the flood prone areas of the village.
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	