



9.7 TOWN OF COLDSRING

This section presents the jurisdictional annex for the Town of Coldspring. 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 town participated in the planning process; an assessment of the Town of Coldspring’s risk and vulnerability; the different capabilities utilized in the town; and an action plan that will be implemented to achieve a more resilient community.

9.7.1 Hazard Mitigation Planning Team

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

Table 9.7-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Tina Hyde, Supervisor Address: 2604 Lebanon Rd, Steamburg, NY 14783 Phone Number: (716) 969-3567 Email: townofcoldspringsupervisor@outlook.com	Name/Title: Ronald Brooks, Highway Superintendent Address: 2604 Lebanon Rd, Steamburg, NY 14783 Phone Number: (716) 499-0342 Email: coldspringhwy@windstream.net
NFIP Floodplain Administrator	
Name/Title: Randall Brooks, CEO Address: 2604 Lebanon Rd, Steamburg, NY 14783 Phone Number: (716) 665-8924 Email: rjbrooks02@hotmail.com	

9.7.2 Municipal Profile

The Town of Coldspring lies in the southwestern part of Cattaraugus County in western New York State and has a total area of 52 square miles. The Allegheny River partially forms the southern town border. The town is bordered to the north by the Town of Napoli, to the east is the Towns of Salamanca and Red House, to the south is the State of Pennsylvania, and to the west is the Towns of South Valley and Randolph. The Town of Coldspring was formed in 1837 from part of the Town of Napoli.

Data from the 2018 U.S. Census American Community Survey indicate that the town has a total population of 672, with 5.5 percent of the town population 5 years of age or younger and 11.9 percent of the town 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.

9.7.3 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 9.7-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.7-1 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.





Table 9.7-2. 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	4	0	5	0	4	0	5	0	4	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	1	0	0	0	0	0
Total	4	0	5	0	5	0	5	0	4	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.

9.7.4 Capability Assessment

The Town of Coldspring 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 9.7.4). The Town of Coldspring 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 Town of Coldspring and where hazard mitigation has been integrated.



Table 9.7-3. 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	2011	Local	Code Enforcement/ Town Board	Yes	No	2020-Coldspring-006
Comment: None							
Zoning Code	No	-	-	-	No	-	-
Comment: None							
Subdivisions	No	-	-	-	No	-	-
Comment: None							
Stormwater Management	No	-	-	-	Yes	-	-
Comment: None							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment: None							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	Yes	-
Comment: None							
Growth Management	No	-	-	-	No	-	-
Comment: None							
Site Plan Review	No	-	-	-	No	-	-
Comment: None							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Yes	Local Law #2-1992	Local/State	CEO	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Coldspring-002
Comment: None							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: None							
Emergency Management	Yes	1994	County	Emergency Services	Yes	No	2020-Coldspring-005
Comment: None							
Climate Change	No	-	-	-	Yes	-	-
Comment: None							



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: None							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
Comment: None							
Planning Documents							
Comprehensive Plan	No	-	-	-	No	-	-
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	No	-	-	-	Yes	-	-
Comment: none							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	-	-	-
Comment: none							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	No	-	-	-	Yes	No	2020-Coldspring-005
Comment: none							
Strategic Recovery Planning Report	No	-	-	-	-	No	-
Comment: none							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment: none							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment: none							
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment: none							
Public Health Plan	No	-	-	-	No	-	-
Comment: none							
Other	No	-	-	-	No	-	-
Comment: none							

Table 9.7-4. 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 – 10-15%

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Coldspring.





Table 9.7-5. 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)	Yes	Fire Department
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
Surveyor(s)	Yes	Code Enforcement
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other	No	-

Fiscal Capability

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

Table 9.7-6. 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	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other	Yes



Education and Outreach Capability

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

Table 9.7-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes, Supervisor
Personnel skilled or trained in website development?	Yes, Southern Tier West
Hazard mitigation information available on your website; if yes, describe	Yes
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes – Town 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.	Yes – Fire Department
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Yes, fire and severe storm programs
Other	No

Community Classifications

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

Table 9.7-8. 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	5	2017
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 town 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 9.7-9. Adaptive Capacity

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)

Randall Brooks, Code Enforcement Officer.

National Flood Insurance Program (NFIP) Summary

The Town of Coldspring does not maintain a list of property owners interested in flood mitigation and has homeowners or businesses that are interested in mitigation. There are no current RiskMAP projects currently underway within the town. The town has made no Substantial Damage Determinations for recent flood events. No properties have been mitigated within the town. Flood hazard maps for the Town of Coldspring adequately address the flood risk within the town, however they need to be updated.

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

Table 9.7-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Coldspring	2	9	\$47,276	0

Source: NYS DHES 2020
 Notes: Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and current as of February 28, 2018. The total number of repetitive loss properties does not include severe repetitive loss properties
 RL Repetitive Loss; SRL Severe Repetitive Loss

Resources

The Town of Coldspring Code Enforcement is responsible for floodplain management, and the town does not have certified floodplain staff. The town does not have access to resources to determine possible future flooding conditions from climate change. Floodplain management staff within the town do request training to support its floodplain management program. The town does not require NFIP administration services and identifies training as a barrier within the community to running an effective NFIP program. The town qualifies proposed development on an existing structure as a substantial improvement if there is more than 50% damage to the structure.





Compliance History

The Town of Coldspring does not have any outstanding NFIP compliance violations that need to be addressed. The most recent Community Assistance Contact (CAC) took place on April 10, 1992.

Regulatory

The municipal code of the Town of Coldspring flood damage prevention ordinance is Local Law 2-1992. The ordinance was last updated in 1992. The town's floodplain management program does not meet the minimum requirements because it does not include the required freeboard. There are other local ordinances, plans, or programs that support floodplain management and meeting the NFIP requirements.

Additional Areas of Existing Integration

Town Website: The Town of Coldspring's website (<http://www.cold-springny.org/>) hosts town information and announcements.

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 Town of Coldspring has identified Interstate-86, Route 394, County Road 10 and Perimeter Road as evacuation routes.

Sheltering

The Town of Coldspring has identified the Fire Hall located at 2603 Route 394, Steamburg, NY and the Town Hall located at 2604 Lebanon Road, Steamburg, NY as designated emergency shelters in the town. Both location's capacities are 100 and 75 persons respectively, both accommodate pets, both are ADA compliant, and the Fire Hall has backup power and provides basic medical services.

Temporary Housing

The Town of Coldspring has identified the following temporary housing solutions within the campground and open fields at:

- Highbanks Campground, 1370 W. Perimeter Road, Steamburg, NY
- Fire Hall, 2603 Route 394, Steamburg, NY
- Town of Coldspring Highway Barn, Lebanon, NY

Permanent Housing

The open farmland within the Town of Coldspring is suitable for the placement of permanent housing – there is very little development within the town and much of the land use is agricultural.

9.7.5 Hazard Event History Specific to the Town of Coldspring

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 Town of Coldspring’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 9.7-11 provides details regarding municipal-specific loss and damages the town 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 9.7-11. 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 downing trees and powerlines.	Although the county was impacted, the Town of Coldspring did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	The torrential rains produced flash flooding and washed out roads inundated with flowing water	Bridge and road flooding.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Winter storm brought record rainfall heavy snow resulting in travel and school disruptions.	Although the county was impacted, the Town of Coldspring did not report any damages.
July 14, 2015	Flash Flood	No	Showers and thunderstorms brought heavy rainfall resulting in flash flooding and washed out roads.	Although the county was impacted, the Town of Coldspring did not report any damages.
March 8, 2017	High Wind	No	High winds brought down powerlines and trees and damaged several buildings.	Although the county was impacted, the Town of Coldspring did not report any damages.
March 8, 2018	Winter Storm	No	A NorEaster brought moderate snow across the county.	Approximately \$5,000 callout required for downed trees, work beyond normal snow removal

Notes:

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

9.7.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Town of Coldspring’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 Town of Coldspring. The Town of Coldspring 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 Town of Coldspring agreed with the hazard rankings in the table below.

Table 9.7-12. Hazard Ranking Input

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

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

Critical Facilities

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

The table below identifies critical facilities in the community located in the 1-percent and 0.2-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 9.7-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure	Addressed by Proposed Action
		1% Event	
Town of Coldspring Municipal Hall	Municipal Hall	X	2020-Coldspring-004

Source: Cattaraugus County 2020

Identified Issues

The town has identified the following vulnerabilities within their community:

- Rock work, ditches, and banks cut back is needed to facilitate snow removal during heavy snow events within the town.
- Floodplain managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later.
- The Flood Damage Prevention Ordinance does not include the 2’ freeboard requirement mandated by NYS.
- Public needs to be educated on what they can do to protect their structures from wildfires.
- Town of Coldspring Highway Barn is located in the special flood hazard area and vulnerable to flooding.

9.7.7 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 9.7-14. Status of Previous Mitigation Actions

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
A1.4	Rock work, ditches, and banks cut back to facilitate snow removal during heavy snow events.	Winter Storms	Town of Coldspring	Flooding due to snow melt in the town	In Progress	Cost		1. Include in 2020 HMP, as Action 2020-Coldpspring-010 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Coldspring 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 Town of Coldspring 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 9.7-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Coldspring 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 9.7-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.7-15. 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-Coldspring-001	Implement/Encourage training for Code Enforcement Officers.	3	Flood	<p>Problem: Floodplain managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Very little zoning precludes homeowners from building in floodplains, leading to problems later.</p> <p>Solution: Obtain/host specialist training and certification for floodplain managers.</p>	No	None	Within 5 years	County DPW	\$3,000	Certified floodplain managers trained. Floodplain management improved.	County/Town budget	High	EAP	PI
2020-Coldspring-002	Update the Flood Damage Prevention Ordinance to include freeboard	2	Flood	<p>Problem: The Flood Damage Prevention Ordinance does not include the 2' freeboard requirement mandated by NYS.</p> <p>Solution: The Flood Damage Prevention Ordinance will be updated to include the 2' freeboard</p>	No	None	Within 6 months	Town Board	<\$100	Construction meets state standards	Town Budget	High	LPR	PP



Table 9.7-15. 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
				requirement mandated by NYS.										
2020-Coldspring-003	Continuous Public Education	3	Wildfire	<p>Problem: Public needs to be educated on what they can do to protect their structures from wildfires.</p> <p>Solution: Provide information to residents, business owners, and organizations about what they can do to protect their structures from wildfires. This will be done via pamphlets and website resources and include such information as: the dissemination of American Red Cross evacuation centers, supplies to have on hand, listing of emergency telephone numbers</p>	No	None	Within 5 years	County Planning	\$2,000	Public educated	County / Town Budget	High	EAP	PI
2020-Coldspring-004	Protect the Town of Coldspring Highway Barn to the 0.2% annual chance flood event.	1	Flood	<p>Problem: Town of Coldspring Highway Barn is located in the special flood hazard area and vulnerable to flooding. Critical</p>	Yes	None	Within 5 years	Engineer, Facility manager	TBD by feasibility assessment	Ensures continuity of operations of Highway Barn	FEMA HMGP, BRIC, USDA Community Facilities	High	SIP	PP



Table 9.7-15. 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
				<p>facilities must be protected to the 0.2% annual chance flood event.</p> <p>Solution: The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Highway Barn to protect it to the 0.2% annual chance flood event. Options include:</p> <ul style="list-style-type: none"> •Elevation of facility •Floodproofing of facility •Mobile flood barriers <p>Once the most cost-effective option is identified, the town will carry out the option.</p>							Grant Program, Emergency Management Grants (EMPG) Program, town budget			
2020-Coldspring-005	Update the Emergency Operations Plan	2	All Hazards	<p>Problem: The Town has an outdated emergency operation plan.</p> <p>Solution: Update the town's emergency operation plan.</p>	No	None	Within 1 year	County, Town	<\$100	EOPs updated	Municipal budget	High	LPR	ES
2020-Coldspring-006	Update Building Codes	2	All Hazards	<p>Problem: The Town has outdated building codes.</p>	No	None	Within 1 year	County, Town	<\$100	Building Codes to provide	Municipal Budget	High	LPR	PR



Table 9.7-15. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Solution: The Town will update the town's building codes.						standards to protect buildings from hazards				
2020-Coldspring-007	Improve internet access and cell service	2	Utility failure	<p>Problem: The Town of Coldspring is a rural/underserved area with lack of accessibility to internet and cell service.</p> <p>Solution: Improve cell service and internet by working with telecommunications companies to install cell towers</p>	No	None	Within 5 years	Town	TBD on selected service and number of towers	Cell service and internet accessible to the community	HMGP, Operating budget	Med.	SIP	PI
2020-Coldspring-008	Backup power to the Town Hall and Highway Building	2	All hazards	Problem: Backup power sources are necessary to maintain critical services for critical facilities. The Town Hall and Highway Building lack a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk, The Highway Building location houses the Highway	Yes	None	1 year	Engineer, Town Board	\$50,000 per generator	Ensures continuity of operations of Town Hall and Highway Building	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program,	High	SIP	PP



Table 9.7-15. 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
				Department, vehicles and equipment. Solution: The Town Engineer will research what size generators are necessary to supply backup power to the Town Hall and Highway Department. The town will then install backup power generators and necessary electrical components.							Municipal Budget			
2020-Coldspring-009	Determine best action to protect property on County Rd 9/Price Corners and properties on Mat Rd	2	Flood, Severe Storm	Problem: Repetitive flooding at the property on County Road 9/ Price Corners and properties on May Road Solution: Conduct an engineering study to determine best action to prevent flooding of properties. The Town will then carry out the identified cost-effective action(s).	No	None	Within 5 years	Town Board, FPA	TBD depending on what action is chosen	Properties protected from flooding	HMGP, BRIC	Med.	SIP	PP
2020-Coldspring-010	Rock work, ditches, and banks cut back to facilitate snow removal during	2	Severe Winter Storms	Problem: Town of Coldspring's roads flood due to snow melt causing hazardous driving conditions and	No	None	Within 5 years	Town Highway Department	\$6,000	Proper snow removal, flooding mitigated, and safer	Municipal Budget	High	SIP	PP



Table 9.7-15. 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
	heavy snow events			<p>an increase in traffic accidents.</p> <p>Solution: The town will cut back banks and ditches, as well as rock work so that snowplows can remove snow efficiently during heavy snowstorms</p>						driving conditions throughout the town				

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 9.7-16. 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-Coldspring-001	Implement/ Encourage training for Code Enforcement Officers.	0	0	1	1	1	1	1	0	1	1	1	1	0	1	10	High
2020-Coldspring-002	Update the Flood Damage Prevention Ordinance to include freeboard	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Coldspring-003	Continuous Public Education – This will be done via pamphlets and website resources and include such information as: the dissemination of American Red Cross evacuation centers, supplies to have on hand, listing of emergency telephone numbers	1	0	1	1	1	1	0	0	1	1	1	1	0	1	10	High
2020-Coldspring-004	Protect the Town of Coldspring Highway Barn to the 0.2% annual chance flood level.	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Coldspring-005	Update the Emergency Operations Plan	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Coldspring-006	Update Building Codes	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Coldspring-007	Improve internet access and cell service	0	0	1	1	1	1	1	0	1	1	0	0	0	1	8	Medium
2020-Coldspring-008	Backup power to the Town Hall and Highway Building	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
2020-Coldspring-009	Determine best action to protect property on County Rd 9/Price Corners and properties on Mat Rd	0	1	1	1	0	1	0	0	0	1	1	1	0	1	8	Medium



Table 9.7-16. 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-Coldspring-010	Rock work, ditches, and banks cut back to facilitate snow removal during heavy snow events	1	1	1	0	1	1	0	0	1	1	0	1	1	0	9	High

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



9.7.8 Proposed Mitigation Action Types

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

Table 9.7-17. Analysis of Mitigation Actions by Hazard and Category

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

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

9.7.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Coldspring 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 town departments, including: Town Supervisor, Highway Superintendent, and the Code Enforcement Officer. The Town Supervisor 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).

9.7.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Coldspring 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 Town of Coldspring has significant exposure. The maps are illustrated below.



Figure 9.7-1. Town of Coldspring Hazard Area Extent and Location Map 1

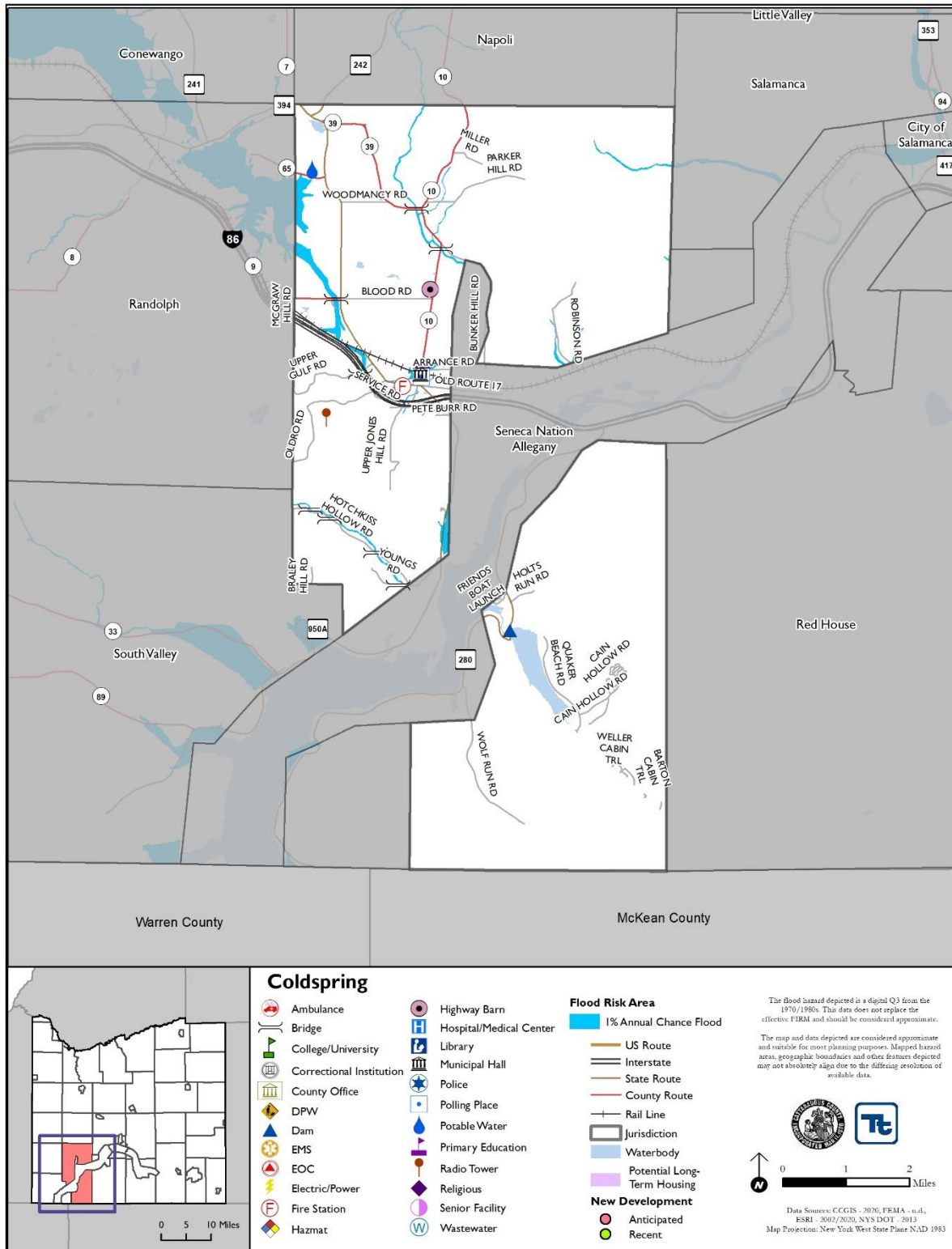
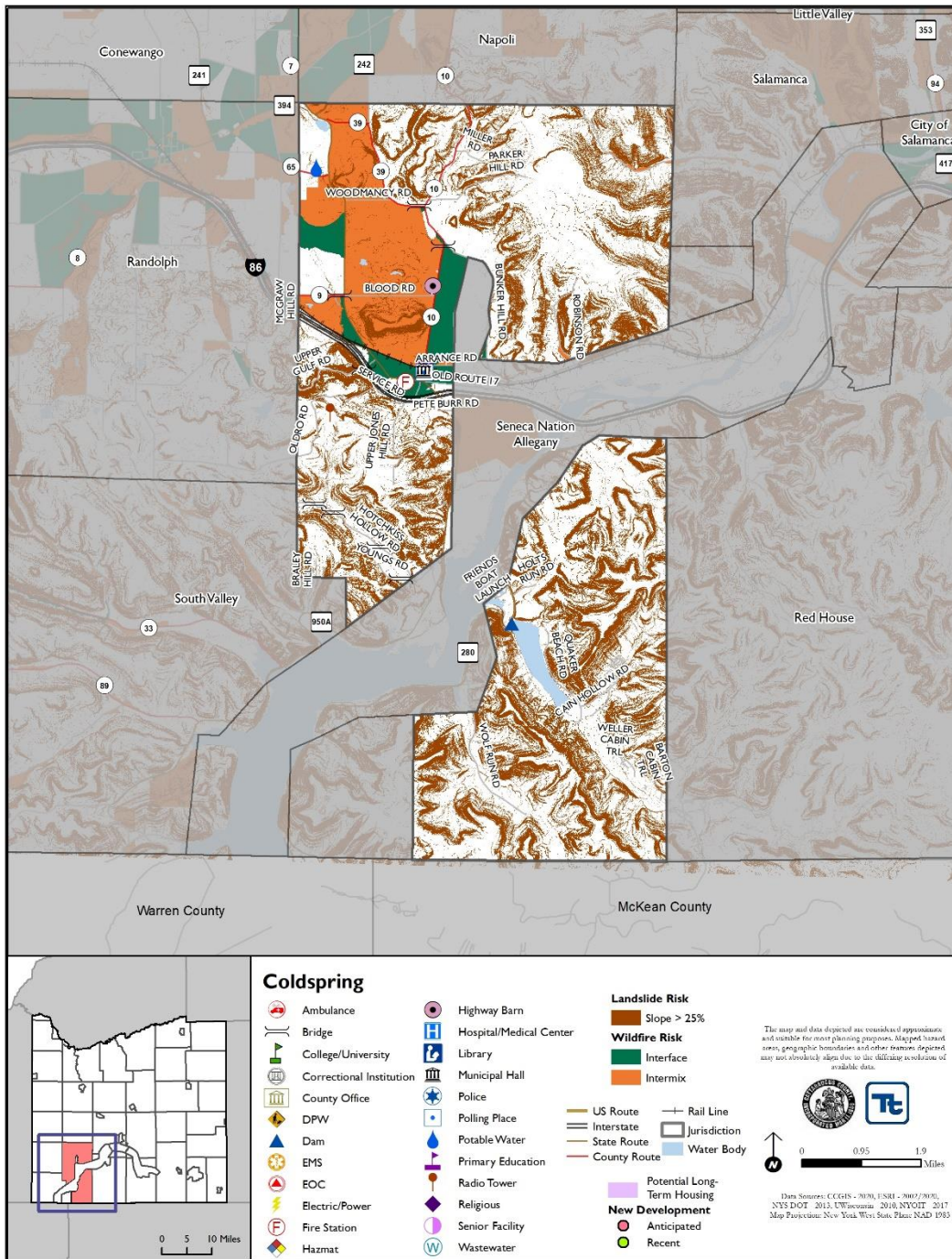




Figure 9.7-2. Town of Coldspring Hazard Area Extent and Location Map 2





Town of Coldspring Action Worksheet			
Project Name:	Protect the Town of Coldspring Highway Barn to the 0.2% annual chance flood level.		
Project Number:	2020-Coldspring-004		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	Town of Coldspring Highway Barn is located in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood event.		
Action or Project Intended for Implementation			
Description of the Solution:	<p>The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Highway Barn to protect it to the 0.2% annual chance flood event. Options include:</p> <ul style="list-style-type: none"> •Elevation of facility •Floodproofing of facility •Mobile flood barriers <p>Once the most cost-effective option is identified, the town will carry out the option.</p>		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 0.2%-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):	Ensures continuity of operations of Highway Barn
Useful Life:	TBD by feasibility assessment	Goals Met:	1
Estimated Cost:	TBD by feasibility assessment	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:	FEMA HMGP, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, town budget
Responsible Organization:	Engineer, Facility manager	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 facility	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 Town of Coldspring Highway Barn to the 0.2% annual chance flood event	
Project Number:	2020-Coldspring-004	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Highway Barn
Property Protection	1	Project will protect facility from flood damage.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town 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	



Town of Coldspring Action Worksheet			
Project Name:	Backup power to the Town Hall and Highway Building		
Project Number:	2020-Coldspring-008		
Risk / Vulnerability			
Hazard(s) of Concern:	All Hazards		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. The Town Hall and Highway Building lack a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk, The Highway Building location houses the Highway Department, vehicles and equipment.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town Engineer will research what size generators are necessary to supply backup power to the Town Hall and Highway Department. The town will then install backup power generators and necessary electrical components.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard Area?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 0.2%-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	No power loss	Estimated Benefits (losses avoided):	Ensures continuity of operations of Town Hall and Highway Building
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$50,000 per generator	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately after funding is provided
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, Municipal Budget
Responsible Organization:	Engineer, Town Board	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 to the Town Hall and Highway Building	
Project Number:	2020-Coldspring-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Town Hall and Highway Building
Property Protection	1	Project will protect facilities from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	1 year
Agency Champion	1	Town Board, Engineer
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	