



9.20 TOWN OF HINSDALE

This section presents the jurisdictional annex for the Town of Hinsdale. 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 Hinsdale’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.

9.20.1 Hazard Mitigation Planning Team

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

Table 9.20-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Jeff VanDeCar/ Town Supervisor Address: 4129 NYS RT 16 PO 95 Hinsdale 14743 Phone Number: (716) 307-6353 Email: jeffvandecar@gmail.com	Name/Title: Ted Mascho; Highway Superintendent Address: POB 95 Hinsdale, NY 14743 Phone Number: (717) 474-1805 Email: tedmascho88@gmail.com
NFIP Floodplain Administrator	
Name/Title: Walt Putt/CEO Address: 4129 NYS RT 16 PO 95 Hinsdale 14743 Phone Number: 716-378-7255 Email: whputt@gmal.com	

9.20.2 Municipal Profile

The Town of Hinsdale lies on the eastern border of Cattaraugus County in western New York State. The Town of Hinsdale has a total area of 38.77 square miles. The town is bordered to the northwest by the Town of Humphrey, north by the Town of Ischua, the east border is formed by the towns of Cuba and Clarksville in Allegany County, south by Town of Olean and the Town of Portville, and southwest by the Town of Allegany.

There are three hamlets located within the town: Haskell Flats, Hinsdale, and Maplehurst. The estimated 2018 population was 2,074 a 4.3 percent decrease in population from 2010 (2,168, persons).

Data from the 2018 U.S. Census American Community Survey indicate that 5.7 percent of the town population is 5 years of age or younger and 16.4 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

History and Cultural Resources

The Town of Hinsdale was formed from a portion of the Town of Olean in 1820. The Town of Hinsdale was named after Hinsdale in New Hampshire. In 1846, a portion of the town was removed to form the Town of Ischua.

9.20.3 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 9.20-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.20-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development, where available.

Table 9.20-2. 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	0	0	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2014 to Present										
National Fuel compressor Station	Recent	4052 Phillips Road		N/A		None		Fuel station		
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.

9.20.4 Capability Assessment

The Town of Hinsdale 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 9.20.4). The Town of Hinsdale 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 Hinsdale and where hazard mitigation has been integrated.

Table 9.20-3. 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	NY State Uniform Fire Prevention and Building Code, 2007-2	Local	CEO	Yes	No	2020-Hinsdale-021
Comment: None							
Zoning Code	No	-	-	-	-	-	-
Comment: None							
Subdivisions	No	-	-	-	-	-	-
Comment: none							
Stormwater Management	No	-	-	-	-	-	-
Comment: none							
Post-Disaster Recovery	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	-	-	-	-	-	-
Comment: None							
Site Plan Review	No	-	-	-	-	-	-
Comment: none							
Environmental Protection	No	-	-	-	-	-	-
Comment: None							
Flood Damage Prevention	Yes	1987-1	Local	CEO	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Hinsdale-004
Comment: None							
Municipal Separate Storm Sewer System (MS4)	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?	
Emergency Management	Yes	-	-	-	-	No	2020-Hinsdale-020
Comment: None							
Climate Change	No	-	-	-	-	-	-
Comment: none							
Disaster Recovery Ordinance	No	-	-	-	-	-	-
Comment: none							
Disaster Reconstruction Ordinance	No	-	-	-	-	-	-
Comment: none							
Other	No	-	-	-	-	-	-
Planning Documents							
Comprehensive Plan	Yes	Comprehensive Plan, 2013	Town	Town Board	No	Yes	-
Comment: none							
Capital Improvement Plan	No	-	-	-	Yes	-	-
Comment: Town is updating plan for all building equipment, internet, phones, and water plant.							
Disaster Debris Management Plan	No	-	-	-	-	-	-
Comment: none							
Floodplain or Watershed Plan	No	-	-	-	-	-	-
Comment: none							
Stormwater Plan	No	-	-	-	-	-	-
Comment: None							
Open Space Plan	No	-	-	-	-	-	-
Comment: NYS Dept of State and DOH have minimum lot size for residences based on public or private water and septic systems refers to the Open Space Plan							
Urban Water Management Plan	No	-	-	-	-	-	-
Comment: None							
Habitat Conservation Plan	No	-	-	-	-	-	-
Comment: None							
Economic Development Plan	No	-	-	-	-	-	-
Comment: none							
Shoreline Management Plan	No	-	-	-	-	-	-
Comment: none							
Community Wildfire Protection Plan	No	-	-	-	-	-	-
Comment: None							
Forest Management Plan	No	-	-	-	-	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
Comment: none							
Transportation Plan	No	-	-	-	-	-	-
Comment: none							
Agriculture Plan	Yes	Cattaraugus County Agricultural and Farmland Protection Plan 2007	County	County	-	Yes	-
Comment: Some properties are in the Catt. Co Agriculture District and refers to the Agriculture Plan							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	-	-	-
Comment: none							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	C.C. CEMP	County	CC OES	-	No	2020-Hinsdale-020
Comment: Town has an emergency plan-needs updating in 2020/2021 that refers to the Comprehensive Emergency Management Plan							
Strategic Recovery Planning Report	No	-	-	-	-	-	-
Comment: none							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	-	-	-
Comment: None							
Post-Disaster Recovery Plan	No	-	-	-	-	-	-
Comment: none							
Continuity of Operations Plan	Yes	-	Local	Town	-	Yes	-
Comment: None							
Public Health Plan	Yes	Community Health Improvement Plan (CHIP), 2019	County	Health Dept	-	Yes	-
Comment: none							
Other	No	-	-	-	-	-	-

Table 9.20-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes
Permits are tracked by hazard area. For example, floodplain development permits.	Yes



Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No

Administrative and Technical Capability

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

Table 9.20-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board
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	County
Maintenance programs to reduce risk	No	-
Mutual aid agreements	Yes	-
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	Yes	Clark, Patterson, Lee -Olean-Building Mark Allianello - Ellicottville-Water
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	Yes	Town Supervisor
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	CEO
Surveyor(s)	Yes	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other: stormwater engineer, environmental specialist	Yes	Catt. Co. DPW

Fiscal Capability

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

Table 9.20-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
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
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes





Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	No
Other	No

Education and Outreach Capability

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

Table 9.20-7. 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?	No - Town contracts with So. 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.	Yes, Website, TV/Radio
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes, Catt. Co. Emergency Services
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	Catt. Co. Hinsdale VFD
Warning systems for hazard events; if yes, briefly describe.	Yes, County
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Yes, School has plan with County contract with Town and VFD for emergency services
Other	No

Community Classifications

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

Table 9.20-8. 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	6/6Y	2019
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 9.20-9. Adaptive Capacity of Climate Change

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

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

National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

Walter Putt, Code Enforcement Officer.

National Flood Insurance Program (NFIP) Summary

Areas prone to flooding include Route 16 west along Olean Creek, Gile Hollow, Union Valley Fay Hollow, Oil Creek, Haskell, Willow Road, Regan Road, and Pennsylvania Road South. The town does not maintain a list of properties that have been damaged by flooding, and they also do not maintain a list of property owners interested in flood mitigation. No RiskMAP projects are currently underway. The town does not make Substantial Damage determinations however; in 2019 there were three on Union Valley. No properties have been mitigated. The town’s flood hazard maps do not adequately address the flood risk because they do not show Route 17 and Route 86.

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

Table 9.20-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Hinsdale	10	7	\$9,876	0

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





Resources

The Code Enforcement Officer is responsible for floodplain management. There are no certified floodplain managers on staff and no access to resources to determine possible future flooding conditions from climate change. The town's floodplain management staff needs assistance and training to support its floodplain management program. The town provides maps for their NFIP administration program with support from DEC. To determine if a proposed development on an existing structure would qualify as a substantial improvement, they would look at the structural change or addition. The barrier the town faces to provide an effective NFIP program is outdated maps.

Compliance History

The Town of Hinsdale does not have any outstanding NFIP compliance violations. The most recent Community Assistance Visit (CAV) was on July 14, 2009 and the most recent Community Assistance Contact (CAC) was on June 16, 2011.

Regulatory

The town does not have an updated flood damage prevention ordinance, so they do not meet the minimum requirements of the floodplain management program. There are no local ordinances, plans, or programs that support floodplain management and meeting the NFIP requirements.

Additional Areas of Existing Integration

Town Website: The Town of Hinsdale's website (<http://hinsdaleny.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 Hinsdale identified Old State Rd, Flanigan Rd as potential evacuation routes within the town.

Sheltering

The Hinsdale Fire Department can be used for short term sheltering but will require bathing facilities for long term use.

Temporary Housing

The Town of Hinsdale did not identify and temporary housing locations in the town. Action 2020-Hinsdale-014 was created for the town to identify a potential housing location.

Permanent Housing

The Town of Hinsdale did not identify and permanent housing locations in the town, but the county identified potential site locations shown in Figure 9.20-1 and Figure 9.20-2.



9.20.5 Hazard Event History Specific to the Town of Hinsdale

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 Hinsdale’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 9.20-11 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 9.20-11. 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 flood stage. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph.	Although the county was impacted, the Town of Hinsdale did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	Heavy showers and embedded thunderstorms trained across the western Southern tier. Rainfall amounts of one to three inches in just a few hours resulted in flash flooding across the region. Roads and culverts were washed out. Numerous roads were water-covered and closed.	Although the county was impacted, the Town of Hinsdale did not report any damages.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Lake effect snow resulted in heavy snowfall across the region.	Although the county was impacted, the Town of Hinsdale did not report any damages.
July 14, 2015	Flash Flood	No	Numerous rounds of storms along a stationary cold front resulted in flash flooding. Damaging winds occurred in some areas of the county.	The Town of Hinsdale did suffer damages to Isaman, Fay Hollow Road and properties along Union Valley Road.
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 Town of Hinsdale did not report any damages.

Notes:

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





9.20.6 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 Hinsdale’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 Hinsdale. The Town of Hinsdale 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 Hinsdale indicated the following:

- The Town of Hinsdale decided to change flood and severe storm hazard ranking from low to high due to recent events.

Table 9.20-12. Hazard Ranking Input

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

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

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

Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to





specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 500-year flood even, or worst damage scenario. For those that do not meet these 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 annual chance 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 9.20-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure	Addressed by Proposed Action
		1% Event	
Town of Hinsdale Highway Barn	Highway Barn	X	2020- Hinsdale-001
Town of Hinsdale Municipal Hall	Municipal Hall	X	2020-Hinsdale-002
Town of Hinsdale Potable Water Facility	Potable Water	X	2020-Hinsdale-003

Source: Cattaraugus County, 2020

Identified Issues

The town has identified the following vulnerabilities within their community:

- The Town of Hinsdale Highway Barn is in the special flood hazard area and vulnerable to flooding. Critical facilities need to be protected to the 0.2% annual chance flood event.
- The Town of Hinsdale Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities need to be protected to the 0.2% annual chance flood event.
- The Town of Hinsdale Potable Water Facility is in the special flood hazard area and vulnerable to flooding. Critical facilities need to be protected to the 0.2% annual chance flood event.
- The Town of Hinsdale lacks an updated flood damage prevention ordinance.
- There are landslides on Plank Rd.
- The bridge on Pennsylvania Rd is one lane causing traffic backup.
- The culvert is undersized on Jollytown Road.
- Willow Road Creek is getting close to Willow Road.
- Pennsylvania Road near Fay Hollow frequently floods.
- Dangerous bend in the road on Sherlock Hollow, need to extend culvert and pipe on roadway.
- During extreme rain events washouts on Union Valley Road and erosion to personal property occurs.
- No hydrants on Willow Road/Haskell Road.
- No emergency generators for the water system and wells.
- Floodplain administration staff require additional training.
- Additional public education on wildfire risk is needed
- The Town of Hinsdale currently does not have a temporary housing location in the event of an emergency.
- The following facilities are exposed to wildfire:
 - National Fuel Gas Supply Corp
 - Niagara Mohawk Power Corp
 - Crosbys #0774-1085 3511 Rt 16
 - Hinsdale – USID water tank 95363 1437 Congress Rd
 - Underwood Manor- Assisted Living



9.20.7 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 9.20-14. 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		
B2.19	Install new culverts to mitigate flooding on Emerson Rd.	Flood	Town	Frequent flooding on Emerson Road	Complete	Cost		Discontinue. Action was completed
						Level of Protection		
						Damages Avoided; Evidence of Success		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Hinsdale 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:

- 2020 – Replacement of two large culverts on Yardman and Emerson Roads to reduce significant flooding and damage during heavy rain events.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Hinsdale 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 9.20-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Hinsdale 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 9.20-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update. The town included actions to address hazards that were not fully examined in the plan.



Table 9.20-15. 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-Hinsdale-001	Protect the Town of Hinsdale Highway Barn to the 0.2% annual chance flood event	1	Flood	<p>Problem: The Town of Hinsdale Highway Barn is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.</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 level. 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>	Yes 💧	None	Within 5 years	Engineer, facility operator	TBD by feasibility assessment	Facility can continue operations and emergency coordination is established	HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, town budget	High	SIP	PP
2020-Hinsdale-002	Protect the Town of Hinsdale Municipal Hall to the 0.2% annual chance flood event	1	Flood	<p>Problem: The Town of Hinsdale Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.</p> <p>Solution: The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Municipal Hall to protect it to the 0.2% annual chance level. Options include:</p> <ul style="list-style-type: none"> •Elevation of facility •Floodproofing of facility 	Yes 💧	None	Within 5 years	Engineer, facility operator	TBD by feasibility assessment	Facility can continue operations and emergency coordination is established	HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, town budget	High	SIP	PP





Table 9.20-15. 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
				<ul style="list-style-type: none"> Mobile flood barriers Once the most cost-effective option is identified, the town will carry out the option.										
2020-Hinsdale-003	Protect the Town of Hinsdale Potable Water Facility to the 0.2% annual chance flood event	1	Flood	<p>Problem: The Town of Hinsdale Potable Water Facility is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.</p> <p>Solution: The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Potable Water Facility to protect it to the 0.2% annual chance level. Options include:</p> <ul style="list-style-type: none"> Elevation of facility Floodproofing of facility Mobile flood barriers Once the most cost-effective option is identified, the town will carry out the option.	Yes 💧	None	Within 5 years	Engineer, facility operator	TBD by feasibility assessment	Facility can continue operations and emergency coordination is established	HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, town budget	High	SIP	PP
2020-Hinsdale-004	Update the Flood Damage Prevention Ordinance	2	Flood	<p>Problem: The Town of Hinsdale lacks an updated flood damage prevention ordinance.</p> <p>Solution: The town will develop an updated flood damage prevention ordinance.</p>	No	None	Within 6 months	Town board	<\$100	Meet NFIP requirements, buildings built to a higher standard.	Town Budget	High	LPR	PR
2020-Hinsdale-005	Repave/stabilize Plank Road and mitigate risk of landslide	1	Landslide	<p>Problem: Landslide on Plank Rd</p> <p>Solution: Repave/stabilize road to mitigate the risk of</p>	No	None	Within 1 year	Highway Department	\$20,000	Plank Road not at risk of landslide	Municipal Budget	High	SIP	PR





Table 9.20-15. 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
				future landslides on Plank Rd										
2020-Hinsdale-006	Expand bridge on Pennsylvania Road	2	Flood, Severe Storm	<p>Problem: Water under the bridge on Pennsylvania Rd backs up and causes flooding.</p> <p>Solution: Detailed flood study at this location, designing the bridge to allow the base flood to pass underneath</p>	No	None	Within 5 years	Highway Department	\$750,000	Bridge properly sized allowing water to pass through	HMGP, BRIC, CDBG	Med	SIP	SP
2020-Hinsdale-007	Resize culvert on Jollytown Road	2	Flood, Severe Storm	<p>Problem: Culvert is undersized at Jollytown Road</p> <p>Solution: Replace culvert to mitigate flooding</p>	No	None	Within 5 years	Highway Department	\$15,000-\$50,000 depending on size	Culverts properly sized and functional	HMGP, BRIC, operating budget	High	SIP	SP
2020-Hinsdale-008	Debris removal of Willow Road Creek	1	Flood, severe storm	<p>Problem: The creek is getting close to Willow Road causing flooding and washout</p> <p>Solution: Remove debris from creek on a regular basis to prevent Will Road from flooding</p>	No	Permitting	Within 5 years	Cattaraugus County Soil and Water, DEC	\$6,000	Road flood risk reduced	County budget	High	SIP	SP
2020-Hinsdale-009	Extend culvert and pipe on Sherlock Hollow	2	Flood, severe storm	<p>Problem: Flooding along Sherlock Hollow to extend culvert and pipe on roadway.</p> <p>Solution: Extend culvert and pipe</p>	No	None	Within 5 years	Highway Department	\$10,000 to \$30,000	Flooding mitigated	Municipal Budget	High	SIP	SP
2020-Hinsdale-010	Union Valley Road culvert and stream remediation	2	Flood, Severe Storm	<p>Problem: During extreme rain events washouts on road and erosion to personal property occur. Two homes in imminent danger of being destroyed as well as three other private have had repeated damage during the past 10 years.</p>	No	None	Within 5 years	Highway Department	\$15,000-20,000	Flood risk reduced	HMGP, BRIC, operating budget	High	SIP	SP



Table 9.20-15. 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: Construct a culvert along road to mitigate flooding and erosion. Complete full hydrology study of the creek from Morgan Hollow Road to NYS Route 16.										
2020-Hinsdale-011	Floodplain Administrator to attend training on floodplain management	3	Flood	Problem: Floodplain Managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. Solution: Obtain/host training and certification for floodplain managers	No	None	Within 5 years	Cattaraugus County Emergency Management /Cattaraugus County Codes Department	\$3,000	Certified floodplain managers trained. Floodplain management improved.	County budget	High	LPR	PR
2020-Hinsdale-012	Provide information to residents, business owners, and organizations about what they can do to prevent their structures from wildfires.	3	Wildfires	Problem: Additional public education on wildfire risk is needed. Solution: The town will develop an outreach program to educate the public about wildfires and what they can do to protect their structures.	No	None	1 year	Town board	\$4,000	Public educated and better prepared and protected from hazards	Town budget	High	EAP	PI
2020-Hinsdale-013	Identify temporary housing location(s) for residents in the event of an emergency.	2	All Hazards	Problem: The Town of Hinsdale currently does not have a temporary housing location in the event of an emergency. Solution: The town will confirm locations and determine what improvements need to be made to comply with building and fire codes.	No	None	6 months	Town Supervisor/Town Clerk	\$250	Temporary housing for populations affected by hazard	Municipal Budget	High	LPR	ES
2020-Hinsdale-014	Generator for Town Hall	2	All Hazards	Problem: Town Hall does not have back up power in the event the power goes out	Yes	None	Within 6 months	Town	\$25,000	Town hall will have	HMGP, BRIC,	High	SIP	PP





Table 9.20-15. 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: Purchase and install a 30 kW generator with auto disconnect switch						access to backup power	Municipal Budget			
2020-Hinsdale-015	Generator for Hinsdale Water Treatment Plant	2	All Hazards	Problem: Lack of backup power for the Water Treatment Plant Solution: Purchase and install a 45 kW 3-phase generator with auto disconnect switch	Yes	None	Within 6 months	Town	\$30,000-\$40,000	Water Treatment Plant will have access to backup power	HMGP, BRIC, Municipal Budget	High	SIP	PP
2020-Hinsdale-016	Upgrade culvert on Pennsylvania Rd	2	Flood, severe storm	Problem: Pennsylvania Rd near Fay Hollow frequently floods. Olean Creek drainage also needs to be cleaned Solution: Upgrade culvert on Pennsylvania Road to mitigate the risk of flooding	No	None	Within 5 years	Town Hwy Dept., County, NYS and Railroad	\$15,000	Properly sized culvert installed to prevent road flooding	HMGP, BRIC, operating budget	High	SIP	SP
2020-Hinsdale-017	Potential acquisition or elevation project	1	Flood	Problem: Three homes on Union Valley Road that need to be protected from flooding. Solution: Assess and determine best action to protect homes from flooding (through elevation or buyout)	No	None	Within 5 years	Town, homeowners	TBD on project	Homes protected from flooding	HMGP, BRIC, FMA	Med	SIP	SP
2020-Hinsdale-018	Environmental Controls for salt sand shed	2	Severe storm	Problem: Salt sand shed at 4129 Route 16 is losing money due to salt dust/dirt blowing on residential properties Solution: Determine the best controls to prevent the loss of salt and sand	No	Salt is being blown into the environment	Within 2 years	Town	\$500	Salt secured and not wasted. Salt does not affect the environment.	Municipal budget	High	SIP	SP
2020-Hinsdale-019	Update the Emergency Operations Plan	2	All Hazards	Problem: Outdated emergency operation plan Solution: The town will work with the county on an update to the county CEMP.	No	None	Within 1 year	County, Town	<\$100	EOPs updated	Municipal budget	High	LPR	ES





Table 9.20-15. 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-Hinsdale-020	Update Building Codes	2	All Hazards	Problem: Outdated building codes	No	None	Within 1 year	County, Town	<\$100	Building Codes to provide standards to protect buildings from hazards	Municipal Budget	High	LPR	PP
				Solution: Update the town's building codes										
2020-Hinsdale-021	Assess the site-specific vegetation conditions and determine necessary mitigation measures to protect facilities from wildfires	2	Wildfire	Problem: National Fuel Gas Supply Corp, Niagara Mohawk Power Corp, Crosbys #0774-1085 3511 Rt 16, Hinsdale – USID water tank 95363 1437 Congress Rd, and Underwood Manor- Assisted Living potentially exposed to wildfires Solution: Assess the site-specific vegetation conditions and determine necessary mitigation measures to protect critical facilities	Yes	None	Within 1 year	Town, Facility owners	<\$100 for outreach	Critical facilities protected from wildfires	Municipal Budget	Med	LPR	PP

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

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.





N/A Not applicable
NFIP National Flood Insurance Program
OEM Office of Emergency Management

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 Storm Ready 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 9.20-16. 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	Total	High / Medium / Low
2020-Hinsdale-001	Protect the Town of Hinsdale Highway Barn to the 0.2% annual chance flood event	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Hinsdale-002	Protect the Town of Hinsdale Municipal Hall to the 0.2% annual chance flood event	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Hinsdale-003	Protect the Town of Hinsdale Potable Water to the 0.2% annual chance flood event	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Hinsdale-004	Update the Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Hinsdale-005	Repave/stabilize Plank Road and mitigate risk of landslide	1	1	1	1	1	1	1	0	1	1	0	1	0	0	10	High
2020-Hinsdale-006	Expand bridge on Pennsylvania Road	0	1	0	1	1	1	0	1	1	1	0	0	1	0	8	Medium
2020-Hinsdale-007	Resize culvert on Jollytown Road	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Hinsdale-008	Debris removal of Willow Road Creek	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Hinsdale-009	Extend culvert and pipe on Sherlock Hollow	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Hinsdale-010	Union Valley Road culvert and stream remediation	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Hinsdale-011	Emergency generator for municipal water system	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020-Hinsdale-012	Floodplain Administrator to attend training on floodplain management	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High





Table 9.20-16. 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	Total	High / Medium / Low
2020-Hinsdale-013	Provide information to residents, business owners, and organizations about what they can do to prevent their structures from wildfires.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Hinsdale-014	Identify temporary housing location(s) for residents in the event of an emergency.	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Hinsdale-015	Generator for Town Hall	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020-Hinsdale-016	Generator for Hinsdale Water District	1	1	1	1	1	1	1	0	1	1	1	1	0	0	11	High
2020-Hinsdale-017	Upgrade culvert on Pennsylvania Rd	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Hinsdale-018	Potential acquisition or elevation project	1	1	1	1	0	1	0	0	1	1	0	0	0	1	8	Medium
2020-Hinsdale-019	Environmental Controls for salt sand shed	0	1	1	1	1	1	1	1	1	1	0	1	0	0	10	High
2020-Hinsdale-020	Update the Emergency Operations Plan	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Hinsdale-021	Update Building Codes	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Hinsdale-022	Assess the site-specific vegetation conditions and determine necessary mitigation measures to protect the facilities from wildfires	0	1	0	1	0	1	1	1	1	1	0	0	1	0	8	Medium

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





9.20.8 Proposed Mitigation Action Types

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

Table 9.20-17. 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
Utility Failure	X	X				X	X			X
Wildfire	X	X		X		X	X			X

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

9.20.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Hinsdale 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 and Highway Superintendent. 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).

9.20.10 Hazard Area Extent and Location

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



Figure 9.20-1. Town of Hinsdale Hazard Area Extent and Location Map 1

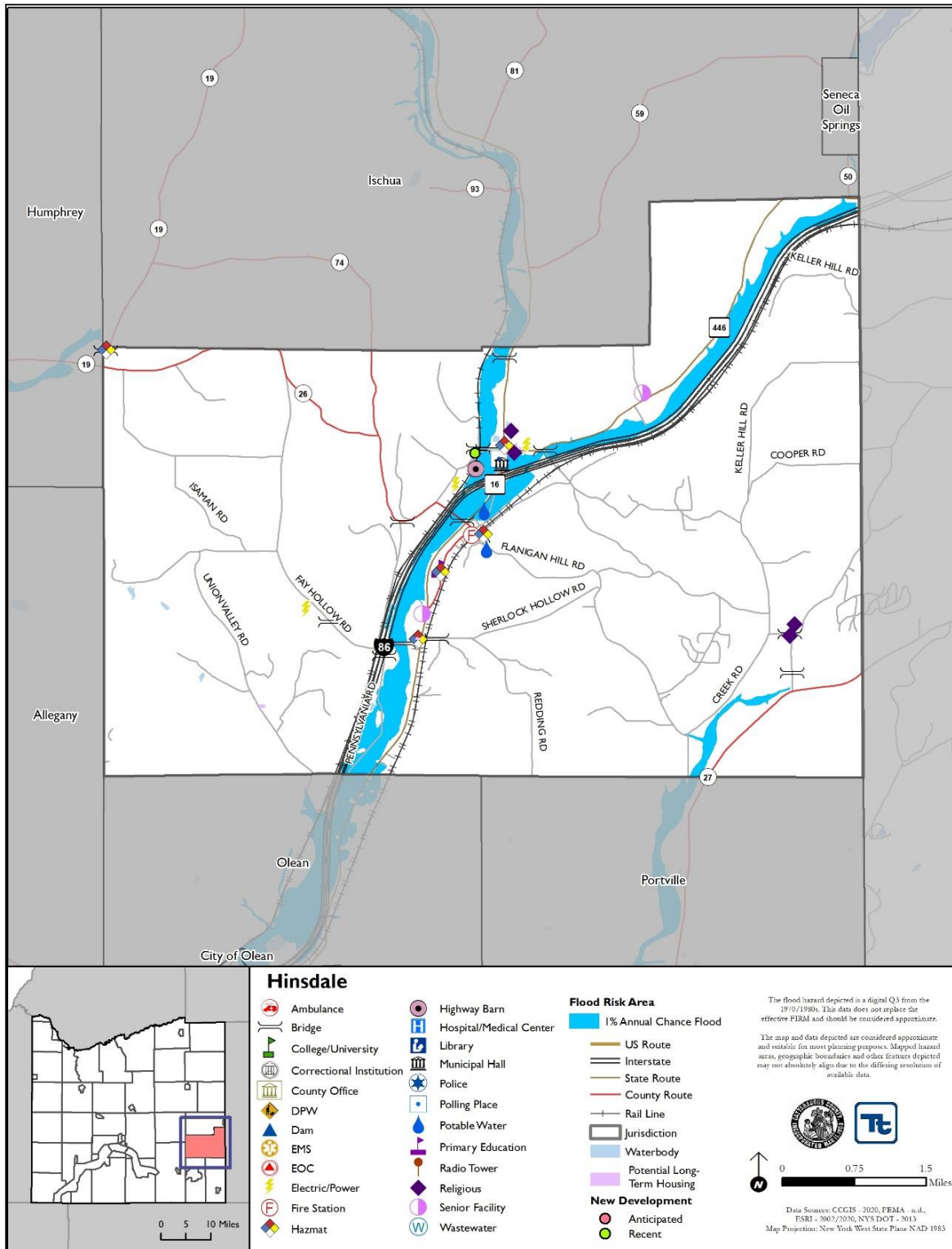
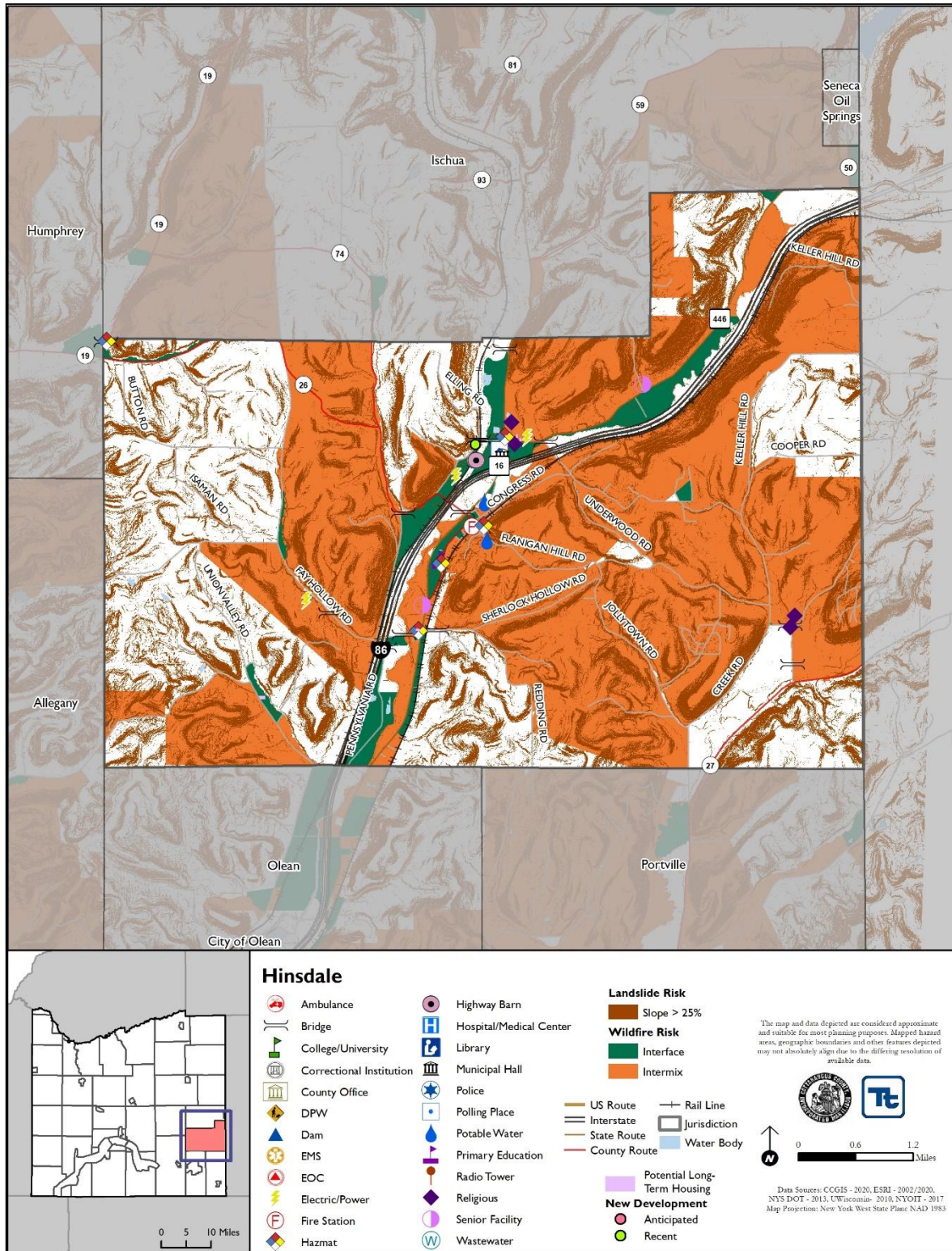




Figure 9.20-2. Town of Hinsdale Hazard Area Extent and Location Map 2





Town of Hinsdale Action Worksheet			
Project Name:	Protect the Town of Hinsdale Highway Barn to the 0.2% annual chance flood event		
Project Number:	2020-Hinsdale-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Town of Hinsdale Highway Barn is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.		
Action or Project Intended for Implementation			
Description of the Solution:	<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 level.</p> <p>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 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	0.2% annual chance flood event	Estimated Benefits (losses avoided):	Facility can continue operations and emergency coordination is established
Useful Life:	TBD by feasibility assessment	Goals Met:	1
Estimated Cost:	TBD by feasibility assessment	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, town budget
Responsible Organization:	Engineer, facility operator	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate Highway Barn	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 Hinsdale Highway Barn to the 0.2% annual chance flood event	
Project Number:	2020-Hinsdale-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Highway Barn
Property Protection	1	Project will protect Highway Barn 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 Hinsdale Action Worksheet			
Project Name:	Protect the Town of Hinsdale Municipal Hall to the 0.2% annual chance flood event		
Project Number:	2020-Hinsdale-002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Town of Hinsdale Municipal Hall is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.		
Action or Project Intended for Implementation			
Description of the Solution:	<p>The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Municipal Hall to protect it to the 0.2% annual chance level.</p> <p>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 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	0.2% annual chance flood event	Estimated Benefits (losses avoided):	Facility can continue operations and emergency coordination is established
Useful Life:	TBD by feasibility assessment	Goals Met:	1
Estimated Cost:	TBD by feasibility assessment	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, town budget
Responsible Organization:	Engineer, facility operator	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate Municipal Hall	N/A	Not possible
	Build levee around facility	N/A	No space for full levee system
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Protect the Town of Hinsdale Municipal Hall to the 0.2% annual chance flood event	
Project Number:	2020-Hinsdale-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Municipal Hall
Property Protection	1	Project will protect Municipal Hall from flood damage.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The 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 Hinsdale Action Worksheet			
Project Name:	Protect the Town of Hinsdale Potable Water to the 0.2% annual chance flood event		
Project Number:	2020-Hinsdale-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The Town of Hinsdale Potable Water Facility is in the special flood hazard area and vulnerable to flooding. Critical facilities must be protected to the 0.2% annual chance flood level.		
Action or Project Intended for Implementation			
Description of the Solution:	<p>The town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the Potable Water Facility to protect it to the 0.2% annual chance level. 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 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	0.2% annual chance flood event	Estimated Benefits (losses avoided):	Facility can continue operations and emergency coordination is established
Useful Life:	TBD by feasibility assessment	Goals Met:	1
Estimated Cost:	TBD by feasibility assessment	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, town budget
Responsible Organization:	Engineer, facility operator	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate Potable Water 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 Hinsdale Potable Water to the 0.2% annual chance flood event	
Project Number:	2020-Hinsdale-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of the Potable Water Facility
Property Protection	1	Project will protect Potable Water 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 Hinsdale Action Worksheet			
Project Name:	Repave/stabilize Plank Road and mitigate risk of landslide		
Project Number:	2020-Hinsdale-005		
Risk / Vulnerability			
Hazard(s) of Concern:	Landslide		
Description of the Problem:	Landslide on Plank Rd		
Action or Project Intended for Implementation			
Description of the Solution:	Repave/stabilize road to mitigate the risk of future landslides on Plank Rd		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Plank Road not at risk of landslide
Useful Life:	50 years	Goals Met:	2
Estimated Cost:	\$20,000	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 1 year
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	Municipal budget
Responsible Organization:	Highway Department	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate road to other location	N/A	Roadway will still need to cross streams and low-lying areas.
	Abandon road	N/A	Roadway needs to be maintained for access
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Repave/stabilize Plank Road and mitigate risk of landslide	
Project Number:	2020-Hinsdale-005	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Travelers on road protected from landslide
Property Protection	1	Project will protect roadway from landslides
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	Within 1 year
Agency Champion	0	
Other Community Objectives	0	
Total	10	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Resize culvert on Jollytown Road		
Project Number:	2020-Hinsdale-007		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Culvert is undersized at Jollytown Road		
Action or Project Intended for Implementation			
Description of the Solution:	Replace culvert to mitigate flooding		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Culverts properly sized and functional
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$15,000-\$50,000 depending on size	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, operating budget
Responsible Organization:	Highway Department	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	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:	Resize culvert on Jollytown Road	
Project Number:	2020-Hinsdale-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Highway Department
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Debris removal of Willow Road Creek		
Project Number:	2020-Hinsdale-008		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	The creek is getting close to Willow Road causing flooding and washout		
Action or Project Intended for Implementation			
Description of the Solution:	Remove debris from creek on a regular basis to prevent Willow Road from flooding		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Road flood risk reduced
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$6,000	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, Town Budget
Responsible Organization:	Cattaraugus County Soil and Water, DEC	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Remove road	\$20,000	Roadway cannot be removed
	Install culverts	\$20,000-50,000	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Debris removal from Willow Road Creek	
Project Number:	2020-Hinsdale-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Project will protect roadway from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town 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	Cattaraugus County Soil and Water, DEC
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Union Valley Road culvert and stream remediation		
Project Number:	2020-Hinsdale-010		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Flash flood		
Description of the Problem:	During extreme rain events, washouts on road and erosion to personal property occur. Two homes in imminent danger of being destroyed as well as three other private bridges have had repeated damage during the past 10 years.		
Action or Project Intended for Implementation			
Description of the Solution:	Construct a culvert along road to mitigate flooding and erosion. Complete full hydrology study of the creek from Morgan Hollow Road to NYS Route 16.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	To be determined	Estimated Benefits (losses avoided):	Flood risk reduced
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$15,000-20,000	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	Unknown until scope of work is determined.	Potential Funding Sources:	HMGP, BRIC, operating budget
Responsible Organization:	Highway Department	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	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:	Union Valley Road culvert and stream remediation	
Project Number:	2020-Hinsdale-010	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Highway Department
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Generator for Town Hall		
Project Number:	2020-Hinsdale-014		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	The Town Hall does not have backup power		
Action or Project Intended for Implementation			
Description of the Solution:	Purchase and install a 30 kW generator with auto disconnect switch		
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 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	No power loss	Estimated Benefits (losses avoided):	Town Hall will have access to backup power
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$25,000	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	HMGP, BRIC, Municipal Budget
Responsible Organization:	Town	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Generator for Town Hall	
Project Number:	2020-Hinsdale-014	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Town Hall
Property Protection	1	Project will protect Town Hall from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	1	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	1 year
Agency Champion	0	Town
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Generator for Hinsdale Water Treatment Plant		
Project Number:	2020-Hinsdale-015		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	Lack of backup power for the Water Treatment Plant		
Action or Project Intended for Implementation			
Description of the Solution:	Install generators for Town Water District		
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 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	No power loss	Estimated Benefits (losses avoided):	Water Treatment Plant will have access to back up power
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$30,000 - \$40,000	Mitigation Action Type:	Structure and Infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	Within 6 months	Potential Funding Sources:	HMGP, BRIC, Municipal Budget
Responsible Organization:	Town	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Generator for Hinsdale Water Treatment Plant	
Project Number:	2020-Hinsdale-015	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Town Water Treatment Plant
Property Protection	1	Project will protect Water Treatment Plant from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	1	Project requires funding support.
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	1 year
Agency Champion	0	Town
Other Community Objectives	0	
Total	11	
Priority (High/Med/Low)	High	



Town of Hinsdale Action Worksheet			
Project Name:	Upgrade culvert on Pennsylvania Rd		
Project Number:	2020-Hinsdale-016		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Pennsylvania Rd near Fay Hollow frequently floods. Olean Creek drainage also needs to be cleaned		
Action or Project Intended for Implementation			
Description of the Solution:	Upgrade culvert on Pennsylvania Road to mitigate the risk of flooding		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	N/A	Estimated Benefits (losses avoided):	Properly sized culvert installed to prevent flooding
Useful Life:	30 years	Goals Met:	2
Estimated Cost:	\$15,000	Mitigation Action Type:	Structure and infrastructure
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	Within 5 years	Potential Funding Sources:	HMGP, BRIC, Operating Budget
Responsible Organization:	Town Highway Department, County, NYS and Railroad	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Remove roadway and culvert	N/A	Not feasible. Roadway and culvert must remain in place
	Build bridge	\$150,000	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Upgrade culvert on Pennsylvania Rd	
Project Number:	2020-Hinsdale-016	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Project will protect roadway from flooding, culvert damages
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	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Highway Department
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	