



## 9.21 TOWN OF HUMPHREY

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

### 9.21.1 Hazard Mitigation Planning Team

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

**Table 9.21-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: Jason Pearl/ Highway Supt Address: 4500 Humphrey Rd. Great Valley, NY 14741 Phone Number: (716) 945-1010 Email: <a href="mailto:humphreyhighwaydep@gmail.com">humphreyhighwaydep@gmail.com</a>	Name/Title: Carrie Childs/ Supervisor Address: 4500 Humphrey Road, Great Valley, NY 14741 Phone Number: (716) 945-2319 Email: <a href="mailto:humphreysupervisor@gmail.com">humphreysupervisor@gmail.com</a>
NFIP Floodplain Administrator	
Name/Title: Terry Fuller/ Code Enforcement Officer Address: 4500 Humphrey Rd. Great Valley, NY 14741 Phone Number: (716) 945-2319 Email: <a href="mailto:humphrey.ny.ceo@gmail.com">humphrey.ny.ceo@gmail.com</a>	

### 9.21.2 Municipal Profile

The Town of Humphrey is an interior town in the eastern half of Cattaraugus County in western New York State. The Town of Humphrey has a total area of 36.61 square miles. Wrights Creek flows past the hamlets: Humphrey and Humphrey Center. The town is bordered to the west by the Town of Great Valley and south of the Town of Franklinville. The east town line is shared by the towns of Hinsdale and Ischua and to the south is the Town of Allegany.

There are two hamlets located within the town: Humphrey and Humphrey Center. The estimated 2018 population was 860, a 3.9 percent increase in population from 2010 (828 persons).

Data from the 2018 U.S. Census American Community Survey indicate that 3.4 percent of the town population is 5 years of age or younger and 9.9 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 Humphrey was first settled around 1815. The Town of Humphrey was established in 1836 from a part of the Town of Allegany. The town is named after Charles Humphrey, who at the time of the town’s founding was Speaker of the New York State Assembly.





### 9.21.3 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 9.21-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.21-1 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

**Table 9.21-2. Recent and Expected Future Development**

Type of Development	2014		2015		2016		2017		2018	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>										
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
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		
<b>Recent Major Development and Infrastructure from 2014 to Present</b>										
None identified										
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>										
None anticipated										

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.21.4 Capability Assessment

The Town of Humphrey 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 9.21.4). The Town of



Humphrey 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 Humphrey and where hazard mitigation has been integrated.

**Table 9.21-3. 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?	
<b>Codes, Ordinances, &amp; Requirements</b>							
Building Code	Yes	NY State Uniform Fire Prevention Code, 2008-1	Local	Town Board	Yes	No	2020-Humphrey-011
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	1992-1	Local	CEO	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Humphrey-006
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?	
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: None							
Emergency Management	Yes	8/15/2006 EOP	Local and County	OEM	Yes	No	2020-Humphrey-010
Comment: none							
Climate Change	No	-	-	-	Yes	-	-
Comment: None							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: none							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
<b>Planning Documents</b>							
Comprehensive Plan	No	-	-	-	No	-	-
Comment: none							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment: none							
Disaster Debris Management Plan	Yes	8/15/2006 EOP	Local and County	OEM	No	Yes	-
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							



	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?	
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment: None							
Forest Management Plan	No	-	-	-	No	-	-
Comment: none							
Transportation Plan	No	-	-	-	No	-	-
Comment: none							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment: None							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	-	-	-
Comment: none							
<b>Response/Recovery Planning</b>							
Comprehensive Emergency Management Plan	Yes	CCEMP	County	CCOES	Yes	No	2020-Humphrey-010
Comment: none							
Strategic Recovery Planning Report	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	Yes	PHEP	County	Health Department	No	Yes	-
Comment: none							
Other	No	-	-	-	-	-	-

**Table 9.21-4. Development and Permitting Capability**

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



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 Humphrey.

**Table 9.21-5. Administrative and Technical Capabilities**

Resources	Available? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
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	Reverse 911, NY Alert, Everbridge
Maintenance programs to reduce risk	Yes	Local Highway Department
Mutual aid agreements	Yes	Cattaraugus County, NYSDOT
<b>Technical/Staffing Capability</b>		
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	CEO
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	No	-
Resilience Officer	No	-
Other	No	-

### Fiscal Capability

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

**Table 9.21-6. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
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	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other	No

### Education and Outreach Capability

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

**Table 9.21-7. 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
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No-General media
Warning systems for hazard events; if yes, briefly describe.	Yes- County
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No
Other	No

### Community Classifications

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

**Table 9.21-8. Community Classifications**

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

Note:

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





### Adaptive Capacity

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

- 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 9.21-9. 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)

Terry Fuller, Code Enforcement Officer.

#### National Flood Insurance Program (NFIP) Summary

Areas prone to flooding include Morgan Hollow Road. The town does not maintain a list of properties that have been damaged by flooding or a list of property owners interested in flood mitigation. There are no RiskMAP projects currently underway. Substantial Damage is determined by visual inspection done by a FEMA Cost Coder. No properties have been mitigated in the town. The flood hazard maps adequately address the flood risk. The following table summarizes the NFIP statistics for the Town of Humphrey.

Table 9.21-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Humphrey	1	0	\$0	0

Source: NYS DHSES 2020  
 RL Repetitive Loss; SRL Severe Repetitive Loss







## Resources

---

The code enforcement department is responsible for floodplain management of the town. There are no certified floodplain administrators and they do not have access to resources to determine possible flooding conditions from climate change. The floodplain management staff does not need any assistance or training.

## Compliance History

---

The Town of Humphrey's most recent Community Assistance Contact (CAC) was on May 21, 1992.

## Regulatory

---

The town does not participate in the CRS program. The town's floodplain management program does not meet the requirements because the ordinance is outdated and does not include the required freeboard.

## Additional Areas of Existing Integration

---

**Town Website:** The Town of Humphrey's website (<http://www.humphreyny.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

---

Evacuation routes include State Route 98, County Road 18, and County Road 51.

### Sheltering

---

Sheltering is located at the Fire Department in Humphrey and can hold 100 people. It accommodates pets, is ADA compliant, has back up power, and provides basic medical services.

### Temporary Housing

---

No temporary housing has been identified. Action 2020-Humphrey-009 is for the town to identify temporary housing locations.

### Permanent Housing

---

The town did not identify any sites designated for permanent housing, but the county identified locations shown in Figure 9.21-1 and Figure 9.21-2.

## 9.21.5 Hazard Event History Specific to the Town of Humphrey

---

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 Humphrey'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 9.21-11 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 9.21-11. Hazard Event History**

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
October 27- November 8, 2012	Hurricane Sandy (FEMA-EM-3351)	Yes	Remnants of Hurricane Sandy brought strong winds and heavy rains to western and north central New York. Rainfall amounts of two to five inches were measured across the area with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph.	Although the county was impacted, the Town of Humphrey 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 Humphrey 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 Humphrey did not report any damages.
July 14, 2015	Flash Flood	No	Numerous rounds of storms along a stationary cold front resulted in flash flooding. Damaging winds occurred in some areas of the county.	Although the county was impacted, the Town of Humphrey did not report any damages.
March 8, 2017	High Wind	No	A strong low pressure system brought strong and damaging winds to the entire region.	Although the county was impacted, the Town of Humphrey did not report any damages.

*Notes:*

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

**9.21.6 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 Humphrey’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 Humphrey. The Town of Humphrey 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 Humphrey indicated the following:

- The Town of Humphrey decided to change the hazard ranking for flood from low to high due to previous flooding events within the town.

**Table 9.21-12. Hazard Ranking Input**

Flood*	Landslide	Severe Storm	Severe Winter Storm	Utility Failure	Wildfire
High	Low	Low	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 from the town

### 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 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 9.21-13. Potential Flood Losses to Critical Facilities

Name	Type	Exposure	Addressed by
		1% Event	Proposed Action
None identified			

Source: Cattaraugus County, 2020

Identified Issues

The town has identified the following vulnerabilities within their community:

- Bridge is too narrow on Morgan Hollow Road which leads to road damage, flooding, and sitting water.
- There is not a backup generator for the Town Hall, Garage, or Gas Pumps
- Salt shed is prone to flooding.
- The Town of Humphrey’s flood damage ordinance is outdated.
- The Town of Humphrey currently does not have a designated temporary housing location in the event of an emergency.
- Floodplain managers require additional training.
- Additional public education on wildfire risk is needed.

9.21.7 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 9.21-14. 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	
B3.2	Stream Stabilization in Town of Humphrey on Morgan Hollow Rd.	Flood	Town	Morgan Hollow Road is prone to flooding	No progress	Cost		1. Discontinue 2. 3. No Funding
						Level of Protection		
						Damages Avoided; Evidence of Success		
C1.4	Town of Humphrey Morgan Hollow Bridge bank repairs damaged by severe storms.	Severe Storm	Town	Morgan Hollow Road's bridge has been damaged by severe storms	No progress	Cost		1. Include in the 2020 plan as Action 2020-Humphrey-001 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
C1.5	Town of Humphrey, South Cooper Hill repairs.	Severe Storm	Town	South Copper Hill damaged from severe storms and needs repaired	Complete	Cost		1. Discontinue 2. 3. Project complete
						Level of Protection		
						Damages Avoided; Evidence of Success		



### **Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy**

The Town of Humphrey 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 Humphrey 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 9.21-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Humphrey 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 9.21-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.21-15. 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-Humphrey-001	Bridge on Morgan Hollow Road	2	Flood, Severe Storm	<p><b>Problem:</b> Bridge is too narrow on Morgan Hollow Road which leads to road damage, bank erosion, flooding, and sitting water.</p> <p><b>Solution:</b> Conduct an engineering study to determine the size of bridge needed for the road. Then the town will replace the bridge on Morgan Hollow Road with culvert with larger carrying capacity than the bridge.</p>	No	None	Within 5 years	Highway Department	\$75,000	Reduce or eliminate road damage and closures from flooding.	Municipal Budget, BridgeNY, FEMA HMGP	High	SIP	SP
2020-Humphrey-002	Generator for Town Hall	2	All Hazards	<p><b>Problem:</b> Backup power sources are necessary to maintain critical services for critical facilities. The Town Hall lacks a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk.</p> <p><b>Solution:</b> The Town Engineer will research what size generator is necessary to supply backup power to the Town Hall. The town will then install a backup power generator and necessary electrical components.</p>	Yes	None	1 year	Town, Engineer, OEM	\$50,000	Ensures continuity of operations of Town Hall	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget	High	SIP	PP
2020-Humphrey-003	Generator for Town Garage	2	All Hazards	<p><b>Problem:</b> Backup power sources are necessary to maintain</p>	Yes	None	1 year	Town, Engineer, OEM	\$50,000	Ensures continuity of	FEMA HMGP and BRIC,	High	SIP	PP





Table 9.21-15. 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
				critical services for critical facilities. The Town Garage lacks a permanent power source. The Town Garage location houses essential equipment for the town. <b>Solution:</b> The Town Engineer will research what size generator is necessary to supply backup power to the Town Garage. The town will then install a backup power generator and necessary electrical components.						operations of Town Garage	USDA Community Facilities Grant Program, EMPG, Municipal Budget			
2020-Humphrey-004	Generator for fuel pumps	2	All Hazards	<b>Problem:</b> Backup power sources are necessary to maintain critical services for critical facilities. The fuel pumps lack a permanent power source. <b>Solution:</b> The Town Engineer will research what size generator is necessary to supply backup power to the fuel pumps. The town will then install a backup power generator and necessary electrical components.	Yes	None	1 year	Town, Engineer, OEM	\$50,000	Ensures continuity of operations of the Fuel pumps	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget	High	SIP	PP
2020-Humphrey-005	Town's salt shed prone to flooding	3	Flood	<b>Problem:</b> Salt shed/pile at the Town Garage needs a	No	None	5 years	Highway Department	TBD depending on	Salt shed protected from	Municipal Budget,	High	SIP	SP







Table 9.21-15. 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
				building to protect from weather. There is runoff to the nearby stream and the town would like to move it away from drinking wells. <b>Solution:</b> Conduct an engineering study to determine the best action/location for the town salt shed. Then the town will implement the best action to protect the salt shed and prevent salt from entering the stream					engineering study	flooding and stream protected from salt runoff	HMGP, BRIC			
2020-Humphrey-006	Update Flood Damage Prevention Ordinance	2	Flood	<b>Problem:</b> The Town of Humphrey’s ordinance is outdated <b>Solution:</b> The town will develop and adopt a flood damage prevention ordinance	No	None	Within 6 months	Town board	<\$100	Meet NFIP requirements, buildings built to a higher standard	Town Budget	High	LPR	PR
2020-Humphrey-007	Floodplain Administrator to attend training on floodplain management	3	Flood	<b>Problem:</b> Floodplain Managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. <b>Solution:</b> Obtain/host training and certification for floodplain managers	No	None	Within 5 years	Cattaraugus County OES/ Cattaraugus County Building Codes Department	\$3,000	Certified floodplain managers trained. Floodplain management improved.	County budget	High	LPR	PR
2020-Humphrey-008	Wildfire outreach	3	Wildfires	<b>Problem:</b> Additional public education on wildfire risk is needed	No	None	1 year	Town board	\$4,000	Public educated and better	Town budget	High	EAP	PI





Table 9.21-15. 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
				<b>Solution:</b> The town will develop an outreach program to educate the public about wildfires and what they can do to protect their structures.						prepared and protected from hazards				
2020-Humphrey-009	Identify temporary housing location(s) for residents in the event of an emergency.	2	All Hazards	<p><b>Problem:</b> The Town of Humphrey currently does not have a temporary housing location in the event of an emergency.</p> <p><b>Solution:</b> The town work with the county to confirm locations and notify households and businesses through mailing</p>	No	None	6 months	Town Mayor/Town Clerk, county	\$250	Temporary housing for populations effected by hazard	Municipal Budget	High	LPR	ES
2020-Humphrey-010	Update the Emergency Operations Plan	2	All Hazards	<p><b>Problem:</b> The town has an outdated emergency operation plan.</p> <p><b>Solution:</b> The town will update the town's emergency operation plan</p>	No	None	Within 1 year	County, Town	<\$100	EOPs updated	Municipal budget	High	LPR	ES
2020-Humphrey-011	Update Building Codes	2	All Hazards	<p><b>Problem:</b> The town has outdated building codes</p> <p><b>Solution:</b> The town will update the town's building codes.</p>	No	None	Within 1 year	County, Town	<\$100	Building Codes to provide standards to protect buildings from hazards	Municipal Budget	High	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
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 9.21-16. 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-Humphrey-001	Bridge on Morgan Hollow Road	1	1	1	1	1	1	0	0	1	1	1	0	1	0	10	High
2020-Humphrey-002	Generator for Town Hall	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
2020-Humphrey-003	Generator for Town Garage	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
2020-Humphrey-004	Generator for fuel pumps	1	1	1	1	1	1	0	0	1	1	1	1	1	0	11	High
2020-Humphrey-005	Town's salt shed prone to flooding	0	1	1	1	1	1	0	1	1	1	0	1	0	0	9	High
2020-Humphrey-006	Update Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Humphrey-007	Floodplain Administrator to attend training on floodplain management	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Humphrey-008	Wildfire outreach	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Humphrey-009	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-Humphrey-010	Update the Emergency Operations Plan	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Humphrey-011	Update Building Codes	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High

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





### 9.21.8 Proposed Mitigation Action Types

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

Table 9.21-17. 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
Landslide	X	X				X				X
Severe Storm	X	X				X				X
Severe Winter Storm	X	X				X				X
Utility Failure	X	X				X				X
Wildfire	X	X		X		X	X			X

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

### 9.21.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Humphrey 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: The Highway Superintendent. The Highway Superintendent represented the community on the Cattaraugus County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

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

### 9.21.10 Hazard Area Extent and Location

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



Figure 9.21-1. Town of Humphrey Hazard Area Extent and Location Map 1

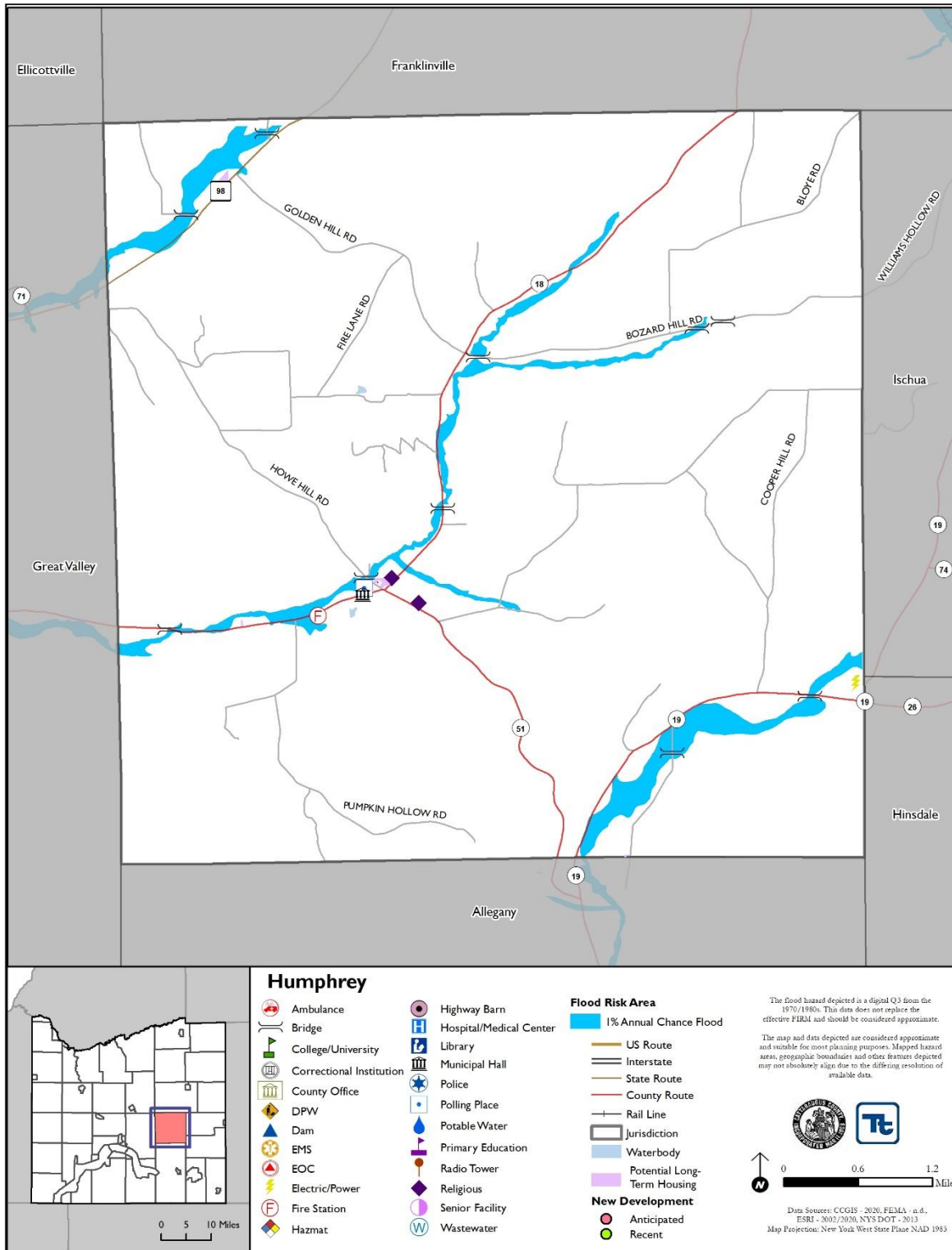
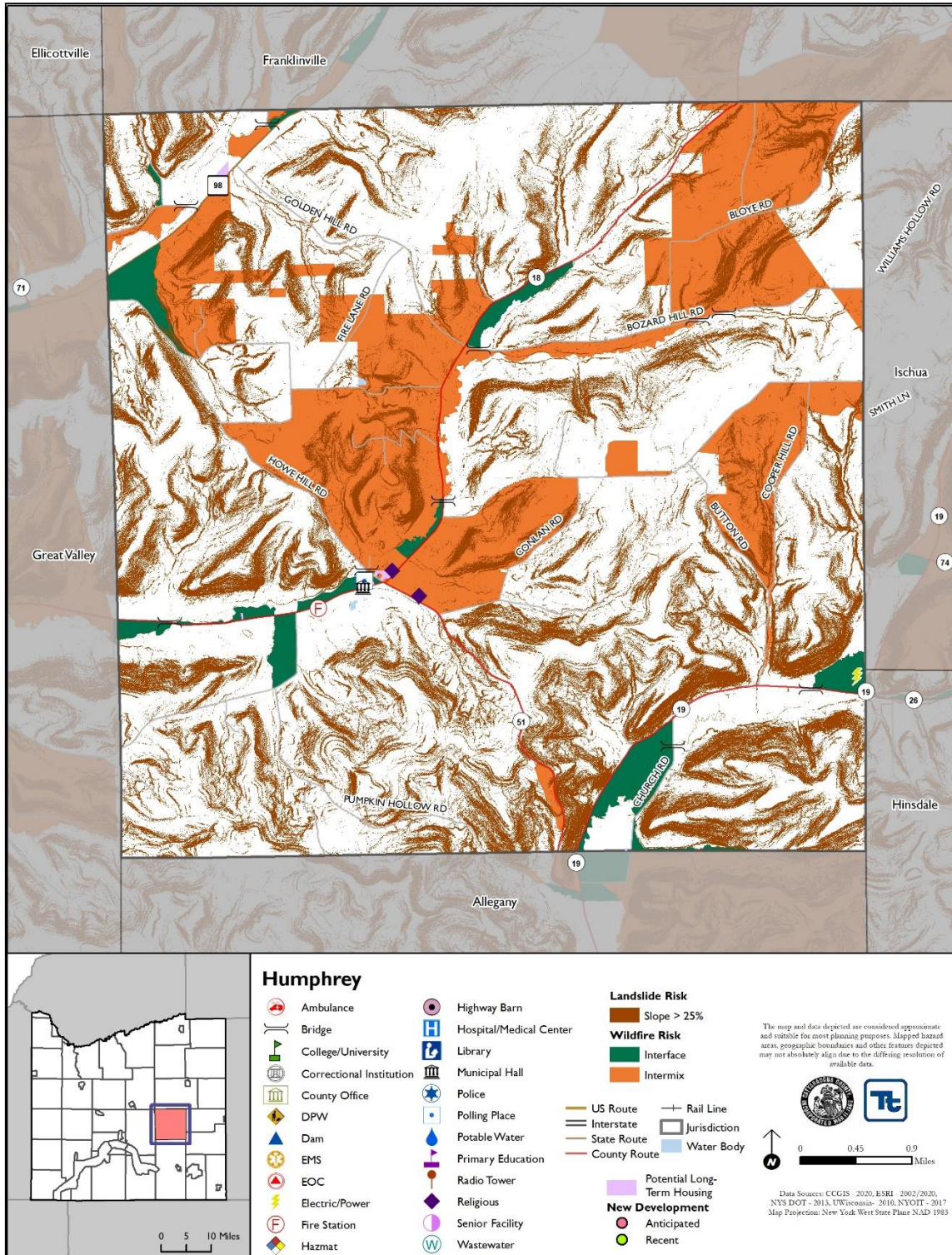






Figure 9.21-2. Town of Humphrey Hazard Area Extent and Location Map 2





Town of Humphrey Action Worksheet			
<b>Project Name:</b>	Bridge on Morgan Hollow Road		
<b>Project Number:</b>	2020-Humphrey-001		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Bridge is too narrow on Morgan Hollow Road which leads to road damage, bank erosion, flooding, and sitting water.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Conduct an engineering study to determine the size of bridge needed for the road. Then the town will replace the bridge on Morgan Hollow Road with culvert with larger carrying capacity than the bridge.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Reduce or eliminate road damage and closures from flooding.
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$75,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	5 years	<b>Potential Funding Sources:</b>	Municipal Budget, BridgeNY, FEMA HMGP
<b>Responsible Organization:</b>	Highway Department	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Remove bridge	\$0	Road needs access
	Install retention basin	N/A	Not enough room.
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			





Action Worksheet		
<b>Project Name:</b>	Bridge on Morgan Hollow Road	
<b>Project Number:</b>	2020-Humphrey-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Road protected from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	Town has legal authority to complete this project
Fiscal	0	Town will need funding to complete this project
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Flood
Timeline	0	5 years
Agency Champion	1	Highway Department
Other Community Objectives	0	
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Town of Humphrey Action Worksheet			
<b>Project Name:</b>	Generators for Town Hall		
<b>Project Number:</b>	2020-Humphrey-002		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	All Hazards		
<b>Description of the Problem:</b>	Backup power sources are necessary to maintain critical services for critical facilities. The Town Hall lacks a permanent power source. The Town Hall location houses the Town Hall, Court, and Clerk.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Town Engineer will research what size generator is necessary to supply backup power to the Town Hall. The town will then install a backup power generator and necessary electrical components.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	Backup power	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of Town Hall
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$50,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 2 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
<b>Responsible Organization:</b>	Town, Engineer, OEM	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	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)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Generators for Town Hall	
<b>Project Number:</b>	2020-Humphrey-002	
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 facility 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, Engineer, OEM
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Town of Humphrey Action Worksheet			
<b>Project Name:</b>	Generators for Town Garage		
<b>Project Number:</b>	2020-Humphrey-003		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	All Hazards		
<b>Description of the Problem:</b>	Backup power sources are necessary to maintain critical services for critical facilities. The Town Garage lacks a permanent power source. The Town Garage location houses essential equipment for the town.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Town Engineer will research what size generator is necessary to supply backup power to the Town Garage. The town will then install a backup power generator and necessary electrical components.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	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)			
<b>Level of Protection:</b>	Backup power	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of Town Garage
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$50,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 2 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
<b>Responsible Organization:</b>	Town, Engineer, OEM	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	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)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Generators for Town Garage	
<b>Project Number:</b>	2020-Humphrey-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Town Garage
Property Protection	1	Project will protect facility 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, Engineer, OEM
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Town of Humphrey Action Worksheet			
<b>Project Name:</b>	Generators for Fuel Pumps		
<b>Project Number:</b>	2020-Humphrey-004		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	All Hazards		
<b>Description of the Problem:</b>	Backup power sources are necessary to maintain critical services for critical facilities. The fuel pumps lack a permanent power source.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	The Town Engineer will research what size generator is necessary to supply backup power to the fuel pumps. The town will then install a backup power generator and necessary electrical components.		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	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)			
<b>Level of Protection:</b>	Backup power	<b>Estimated Benefits (losses avoided):</b>	Ensures continuity of operations of the Fuel pumps
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$50,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 2 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
<b>Responsible Organization:</b>	Town, Engineer, OEM	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	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)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Generators for Fuel Pumps	
<b>Project Number:</b>	2020-Humphrey-004	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Fuel Pumps
Property Protection	1	Project will protect facility 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, Engineer, OEM
Other Community Objectives	0	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	



Town of Humphrey Action Worksheet			
<b>Project Name:</b>	Town's salt shed prone to flooding		
<b>Project Number:</b>	2020-Humphrey-005		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood		
<b>Description of the Problem:</b>	Salt shed/pile at the Town Garage needs a building to protect from weather. There is runoff to the nearby stream and the town would like to move it away from drinking wells.		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Conduct an engineering study to determine the best action/location for the town salt shed. Then the town will implement the best action to protect the salt shed and prevent salt from entering the stream		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the Special Flood Hazard Area?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Salt shed protected from flooding and stream protected from salt runoff
<b>Useful Life:</b>	TBD depending on engineering study	<b>Goals Met:</b>	3
<b>Estimated Cost:</b>	TBD depending on engineering study	<b>Mitigation Action Type:</b>	Structure and Infrastructure
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	Municipal Budget, HMGP, BRIC
<b>Responsible Organization:</b>	Highway Department	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard mitigation
Three Alternatives Considered (including No Action)			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Rebuild salt shed in same location	\$50,000	Stream not protected from salt runoff
	Fill in stream	N/A	Environmental damage
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			





Action Worksheet		
<b>Project Name:</b>	Town's salt shed prone to flooding	
<b>Project Number:</b>	2020-Humphrey-005	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Salt protected from flooding; stream protected from salt runoff
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has legal authority to complete the project
Fiscal	0	The town needs funding to compete project
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	1	Within 5 years
Agency Champion	0	
Other Community Objectives	0	
<b>Total</b>	9	
<b>Priority (High/Med/Low)</b>	High	