

Jurisdictional Annex

Town of Georgetown

1. Contacts

The contacts for the Town of Georgetown regarding this plan are identified as follows:

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Town Page on County Website:

<https://www.madisoncounty.ny.gov/1613/Town-of-Georgetown>

2. Municipal Profile

2.1 Population

The 2020 Census estimated that 640 people live in the Town of Georgetown. The Town's population has decreased by 33.47% since the 2010 Census (974) (U.S. Census Bureau, 2020). The median age in the Town is 53.5 years and 27.3% of the population is over the age of 65. The Town covers approximately 40 square miles. The Town has an equalized assessed value of approximately 105 million dollars spread across a variety of property classes.

2.2 Location

The Town of Georgetown is located in the southwestern portion of Madison County and is bordered by the Town of Nelson to the north, the Town of Lebanon to the east, the Town of Otselic (Chenango County) to the south, and the Town of DeRuyter to the west. The primary population center in the Town is

the Hamlet of Georgetown. The Town of Georgetown is shown in Figure 1 (Attachment A).

2.3 Governing Body

The Town of Georgetown is governed by a five-member Town Board, which includes the Supervisor and four councilors.

2.4 Recent and Anticipated Future Development

Since the last County HMP (2017), a natural gas compression station was built on Wilcox Road. This facility is not in a vulnerable location for natural hazards. Additionally, a hemp processing facility is planned on Lebanon Road. No new development has occurred in the Special Flood Hazard Area, and the reported developments have not changed the Town's vulnerability to natural hazards.

3. Capability Assessment

3.1 Planning and Regulatory Capability

The Town has considered the 2017 HMP when implementing their existing plans and regulations and progressing projects. The Town's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 1, below.

Table 1. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Georgetown	Notes
Administration		
Maintenance Programs	Yes	
Mitigation Planning Committee	Yes	
Mutual Aid or Shared Services Agreements	Yes	
Planning Board	Yes	
Zoning Board	No	
Development Approvals		
Building Code	Yes	
Building Code Effectiveness Grading Schedule (BCEGS) Evaluation	No	
Fire Department ISO Rating	Yes	Rating: 5.5Y
Site Plan Review Requirements	No	
Special Use Permits	No	
Funding Resources		
Authority to Levy Taxes	Yes	
Capital Improvement Project Funds	Yes	

Table 1. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Georgetown	Notes
Federal Funding Programs (i.e., USDA, FEMA, others)	Yes	
General Obligation Bonds and/or Special Tax Bonds	Yes	
Impact Fees for New Development	No	
State Funding Programs (i.e., NYSEFC, NYSOGR, NYSDEC, others)	Yes	
Utility Fees (i.e., water, sewer, stormwater, gas, electric)	Yes	Water
Land Use Regulations		
Density Controls	No	
Flood Insurance Rate Maps	Yes	
Floodplain Ordinance	Yes	
Hillside Development Regulations	No	
Open Space Preservation	No	
Stormwater Management Regulations	Yes	State regulations apply
Streambank Setback Regulations	Yes	State Health dept. rules for septic
Subdivision Regulations	Yes	
Transfer of Development Rights	Yes	State and Federal programs available for agriculture
Zoning Ordinance	No	
Natural Resources		
Forest/Vegetation Management	Yes	NYSDEC 480A program available
Stream Corridor Management	No	
Stream Dumping Regulations	Yes	State regulations apply
Urban Forestry and Landscape Management	No	
Watershed Management	Yes	Chesapeake Bay Tributary Strategy
Wetland Regulations	Yes	State and Federal rules apply
Plans		
Capital Improvement Plan	No	
Comprehensive Emergency Management Plan	No	County has this plan in place
Comprehensive Plan	Yes	Currently in progress - completion anticipated 2022
Continuity of Operations Plan	No	County has this plan in place
Economic Development Plan	No	
Other Plans (specify)	Yes	Adopted Public Health Plan in response to COVID-19 pandemic (required by NYS)
Programs/Organizations		
Climate Smart Community	No	In progress- Town currently has 3 out of 4 required criteria for registration
Local Emergency Preparedness/Disaster Response Organizations	N/A	

Table 1. Planning Mechanisms and Capabilities		
Planning Mechanism	Town of Georgetown	Notes
Local Environmental Protection Organizations	N/A	
National Weather Service StormReady Certification	No	County is certified
Outreach Programs	Yes	Education of Elected to NIMS Standards
Partnerships with private entities addressing mitigation or disaster response	No	
School Programs or Adult Educational Programs	Yes	Fire Safety Education
Staff Positions		
Civil Engineer	No	Contracted out
Code Enforcement Officer	Yes	
Emergency Manager	Yes	Town Supervisor
Floodplain Administrator	Yes	Code Enforcement Officer
Planner/GIS Coordinator	No	County assists
Technical Abilities		
Grant Writing	No	Contracted out
Hazard Information Centers	No	
Hazard Warning Systems	Yes	

3.2 Emergency Communications, Routes, and Shelters

The Town of Georgetown is covered by Madison County's emergency notification system. Major transportation routes within the Town include Route 26 and Route 80. The Town's emergency shelter locations are summarized in Table 2, below.

Table 2. Emergency Shelters						
Facility	Address	Owner/ Occupant	Support medical needs?	ADA Compliant?	Pets accepted?	Notes
Georgetown Fire Department	954 NY-26, Georgetown, NY 13072	Georgetown Fire District	Yes	Yes	No	Backup power available

3.3 Temporary and Permanent Housing Locations

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Town of Georgetown based on the 2017 NYS Hazard Mitigation Planning Standards. It is noted that formal agreements would need to be established in order to use privately owned properties.

- **Potential Temporary Housing Locations**
 - Georgetown-South Otselic Central School ballfield- 125 County Road 13A
 - Ballfield at Fire Department- 954 State Route 26
 - Town Water Pump House Property off State Route 26
 - Town property off Bronder Hollow Road

- **Potential Permanent Housing Locations**
 - Privately owned vacant land throughout Town (coordination required with landowners for potential property purchase or subdivisions)

4. Hazard Vulnerabilities and Ranking

4.1 Risk Assessment

The Town reviewed multiple natural hazards to include in the HMP update. The hazard analysis criteria is summarized in Table 3. The Town's natural hazard analysis results are provided in Table 4.

Table 3. Hazard Analysis Criteria

Score	Extent	Onset	Impact	Frequency	Total Score	Overall Vulnerability
1	One location	Days of warning	Minor damages/injuries	Rare	4 to 5	Low
2	Several locations	Hours of warning	Moderate damages/injuries	Infrequent	6 to 8	Moderate
3	Large area	No warning	Severe damages/injuries	Regular	9 to 12	High

Table 4. Natural Hazard Vulnerability and Risk Assessment

Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Total Score and Overall Vulnerability	Jurisdiction Rank
Flood	3	2.5	2	3	10.5 - High	1
Severe Thunderstorm/Windstorm/Hail	3	2	2	3	10 - High	2
Tornado	2	2	3	2	9 - High	3
Ice Storm	3	2	3	1	9 - High	4
Earthquake	3	3	2	1	9 - High	5
Severe Winter Storm	3	1	2	2	8 - Moderate	6
Ice Jam	2	3	2	1	8 - Moderate	7
Extreme Temperatures	3	1	2	1	7 - Moderate	8
Landslide	1	3	2	1	7 - Moderate	9

4.2 Critical Facilities

Critical facilities include any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Town of Georgetown. Table 5, below, denotes the types and locations of critical facilities within the Town. The Town's critical facilities are shown in Figure 1.

Table 5. Critical Infrastructure in the Town of Georgetown		
Facility Name	Address	Located in Floodplain
Amish School	4438 Lebanon Rd	No
Cell Tower	E Hill Rd	No
Cell Tower	E Hill Rd	No
County Radio Tower Site 7	3150 Chapman Rd	No
County Radio Tower Site 8	898 Texas Hill Rd	No
Georgetown Fire Dept. and Ambulance	957 Route 26	100-year
Georgetown Town Offices and Highway Barn	995 Route 26	100-year
Georgetown Water Storage Tank	Muller Hill Rd	No
Otselic Valley Elementary School	Muller Hill Rd	No
Radio Towers (2)	Mack Rd	No
Water Pump Station	Route 26, adjacent to 958 Route 26	100-year

5. Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about each hazard including frequency, history, and severity within Madison County is included within Section 5.0 of the main body of the Hazard Mitigation Plan. Historical tornado and earthquake records are reported for the last ten years (2012-2022). All other hazard profiles report events that have occurred in the last five years (2017-2022).

The probability of climate-related hazard events is expected to increase in the future within the Town of Georgetown. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards lack historical records, but they were profiled for future mitigation planning consideration. The Town of Georgetown chose not to profile drought and wildfire in their annex even though these hazards were profiled for the County. The Town does not have a history of nor do they have any significant concerns regarding these hazards. It is noted that the Town is included in a NYS Forest Fire District designated under 6 NYCRR Part 191.1.

5.1 Flood

5.1.1 *Description*

For a description of this hazard, please see Section 5.2 of the main body of the plan.

5.1.2 *Hazard Vulnerability*

The Town's overall vulnerability for a flood is high, as documented in their hazard analysis in Section 4.1. The Town is drained by the Otselic River, which drains to the Tioughnioga River in Broome County. FEMA provides flood insurance rate maps for the Town of Georgetown. The 100-year floodplain corresponds with areas that are at high risk for flooding (1% likely to flood any given year), and areas within a 500-year floodplain are at moderate flood risk (0.2% likely to flood in any given year). Figure 1 (Attachment A) shows FEMA mapped 100-year floodplains within the Town. Table 6 summarizes the

amount of land within the Town of Georgetown that is located within 100-year floodplain, as mapped by FEMA.

Table 6. Summary of Areas in Floodplains <i>(Source: FEMA Q3 Digital Floodplain Data, 1996)</i>		
Town of Georgetown Total Area	Percent of Total Area	
	100-Year Floodplain	500-Year Floodplain
25,702 acres	1.6%	0%

The Town Offices and Highway Barn, Georgetown Fire Department and Ambulance, and Water Pump Station are located in the 100-year floodplain of Otselic Creek. The Pump House is raised above the floodplain elevation, but the other facilities are vulnerable to flooding.

5.1.3 Historical Hazard Occurrences and Damage Estimates

According to the NCDC, in the past five years, one flood record was noted to specifically impact the Town of Georgetown. The event on August 22, 2021 was caused by heavy rains associated with Hurricane Henry. This event caused an estimated \$10,000 of damages to the Town of Georgetown. Additionally, the Town also reports frequent flooding issues around the Hamlet. The Town has experienced multiple flooding issues at their Highway Barn and Town Hall. The Fire Department is located in the mapped floodplain, but the Town has not experienced flooding issues at this facility to date. The Town has not experienced flooding issues at their water pump station; the facility is raised above the 100-year floodplain elevation. As described in Section 6.0 of this annex, NFIP loss claims data were requested from FEMA and a response is pending. According to the County's 2017 HMP, there are no repetitive loss properties in the Town.

5.1.4 Future Potential Impacts

The Town's overall vulnerability for a flood remains high. Properties along the Otselic River and its tributaries remain vulnerable to flooding in the future. One of the Town's proposed mitigation actions is to relocate their highway garage outside of the floodplain, which would reduce the flood vulnerability of this critical asset. The Town's other new mitigation action involves culvert upgrades on Muller Hill Rd, Texas Hill Rd, and Parker Hill Rd. Once implemented, this project will reduce flooding issues along these roadways. The Town's proposed mitigation actions are further described in

Section 7 of this annex. The frequency and magnitude of flood events may increase due to climate change.

5.2 Severe Thunderstorm, Windstorm, or Hail

5.2.1 Description

For a description of these hazards, please see Section 5.1 of the main body of the plan.

5.2.2 Hazard Vulnerability

The Town's overall vulnerability for a severe thunderstorm, windstorm, or hail event is high, as documented in their hazard analysis in Section 4.1. The entire Town is susceptible to damages from a severe thunderstorm, windstorm, or hail event. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property. Damages to the Town's critical infrastructure or primary evacuation routes (State Routes 26 and 80) would be most impactful to Town residents. Storm damages would primarily impact the more populated portions of the Town, including the hamlet of Georgetown.

5.2.3 Historical Hazard Occurrences and Damage Estimates

The NCDC does not report any specific severe thunderstorm, windstorm, or hail events that occurred in the Town of Georgetown within the past five years. The Town of Georgetown reported local records of severe thunderstorms and windstorms approximately once every two years, resulting in building damage.

5.2.4 Future Potential Impacts

The Town's overall vulnerability for a severe thunderstorm, windstorm, or hail event remains high. The Town Highway Department and private utility companies will continue to address tree maintenance to mitigate storm-related infrastructure damages to the extent possible. The frequency and magnitude of severe storm events may increase due to climate change.

5.3 Tornado

5.3.1 *Description*

For a description of this hazard, please see Section 5.8 of the main body of the plan.

5.3.2 *Hazard Vulnerability*

The Town's overall vulnerability for a tornado is high, as documented in their hazard analysis in Section 4.1. The Town is located in the southern portion of the County, which has very hilly topography. Tornadoes often touch down along topographic high points in this region and affect more localized areas at one time, rather than longer swaths of damage experienced in flatter areas. Even if only a small area is affected, a tornado could result in severe damage to homes, over-turned automobiles and leveling of utility lines.

5.3.3 *Historical Hazard Occurrences and Damage Estimates*

The NCDC reports one tornado event that occurred in the Town of Georgetown in the last 10 years. This tornado occurred on August 22, 2017, and registered as an EF1 on the Enhanced Fujita Scale. The tornado touched down along Parker Hill Road. Most damages occurred on vacant forested land. Maximum winds were estimated at 90 mph. Damage estimates for the Town of Georgetown were \$10,000. Actual damages were likely greater than those estimated by the NCDC.

5.3.4 *Future Potential Impacts*

The Town's overall vulnerability for a tornado remains high. Damages from a tornado event can be devastating, and the frequency and magnitude of tornado events may increase due to climate change.

5.4 Ice Storm

5.4.1 *Description*

For a description of this hazard, please see Section 5.7 of the main body of the plan.

5.4.2 Hazard Vulnerability

The Town's overall vulnerability for an ice storm is high, as documented in their hazard analysis in Section 4.1. The entire Town of Georgetown is susceptible to damages from an ice storm event. Damages to the Town's critical infrastructure or primary transportation routes (State Routes 26 and 80) would be most impactful to Town residents. Storm damages would primarily impact the more populated portions of the Town, including the hamlet of Georgetown. The Town Highway Department completes tree maintenance within Town road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

5.4.3 Historical Hazard Occurrences and Damage Estimates

The NCDC reports one ice storm in Madison County within the past five years. The NCDC does not have specific information on which towns were affected by ice storms. However, the reported ice storm on February 10, 2021 likely affected the Town of Georgetown and is described in Section 5.7 of the main body of the plan. No damage estimates related to ice storms are reported specific to the Town of Georgetown.

5.4.4 Future Potential Impacts

The Town's overall vulnerability for an ice storm remains high. The Town Highway Department and private utility companies will continue to address tree maintenance to mitigate storm-related infrastructure damages to the extent possible.

5.5 Earthquake

5.5.1 Description

For a description of this hazard, please see Section 5.5 of the main body of the plan.

5.5.2 Hazard Vulnerability

The Town's overall vulnerability for an earthquake is high, as documented in their hazard analysis in Section 4.1. According to Figure 5.8 of the main body plan, the Town of Georgetown has a peak ground acceleration (PGA) Hazard

rating of 8-10%g. An earthquake could impact any location within the Town, though historically, the Town has not experienced significant earthquake damages. Earthquakes that damage the Town's critical infrastructure or emergency evacuation routes would result in the most significant impacts to the Town and its residents.

5.5.3 Historical Hazard Occurrences and Damage Estimates

According to the USGS Earthquake Catalog, there are no historical records of earthquakes occurring specifically in the Town of Georgetown. An earthquake has the potential to cause hundreds of thousands of dollars in damages.

5.5.4 Future Potential Impacts

The Town's overall vulnerability for an earthquake remains high due to the fast onset and large extent of impact associated with this hazard. However, the Town is within an area of light seismic activity, and is not likely to experience significant earthquake damages.

5.6 Severe Winter Storm

5.6.1 Description

For a description of this hazard, please see Section 5.3 of the main body of the plan.

5.6.2 Hazard Vulnerability

The Town's overall vulnerability for a severe winter storm is moderate, as documented in their hazard analysis in Section 4.1. The entire Town of Georgetown is susceptible to damages from a severe winter storm event. The Town Highway Department clears Town streets during heavy snow events, and the Town works with the Madison County Highway Department and NYS Department of Transportation for clearing of other roadways. Roadway safety is a major concern during severe winter storm events. Damages to the Town's critical infrastructure or primary evacuation routes (State Routes 26 and 80) would be most impactful to Town residents. Storm damages would primarily

impact the more populated portions of the Town, including the hamlet of Georgetown.

5.6.3 Historical Hazard Occurrences and Damage Estimates

The Town of Georgetown has been affected by a number of severe winter storm events reported for Madison County, which are described in Section 5.3 of the main body of the plan. The NCDC does not report any winter storm damage estimates specific to the Town of Georgetown.

5.6.4 Future Potential Impacts

The Town's overall vulnerability for a severe winter storm remains moderate. The severity and frequency of severe winter storms may increase due to climate change.

5.7 Ice Jam

5.7.1 Description

For a description of this hazard, please see Section 5.11 of the main body of the plan.

5.7.2 Hazard Vulnerability

The Town's overall vulnerability for an ice jam is moderate, as documented in their hazard analysis in Section 4.1. Properties along the Otselic River and its tributaries are most vulnerable to ice jams.

5.7.3 Historical Hazard Occurrences and Damage Estimates

The U.S. Army Corps of Engineers (USACE) Cold Regions Research and Engineering Laboratory (CRREL) reports no specific ice jam events for the Town of Georgetown. The Town reports local records of ice jams along Otselic Creek within the Hamlet, however, less ice has been sustaining through the winter recently due to more frequent mid-winter thaws.

5.7.4 *Future Potential Impacts*

The Town's overall vulnerability for an ice jam remains moderate. Properties along streams throughout the Town, primarily along the Otselic River and its tributaries remain vulnerable to ice jams, however, the Town is not likely to experience significant property damages from ice jams given their history with this hazard. The frequency and magnitude of ice jam events may increase due to climate change.

5.8 Extreme Temperatures

5.8.1 *Description*

For a description of this hazard, please see Section 5.6 of the main body of the plan.

5.8.2 *Hazard Vulnerability*

The Town's overall vulnerability for an extreme temperature event is moderate, as documented in their hazard analysis in Section 4.1. Extreme temperatures typically affect most or all of the County, and the entire Town of Georgetown is susceptible to this hazard. Extreme temperature events tend to have greater impacts on vulnerable populations, including older adults (over 65 years), young children (under 5 years), people with health problems, or people who cannot afford to sufficiently heat or cool their homes. Approximately 0.3% of the population in the Town is under 5 years old, and 27.3% of the population is over 65 years old. Approximately 22.2% of the Town's population is below the poverty level. These populations are at a higher risk of being impacted by extreme temperature events.

5.8.3 *Historical Hazard Occurrences and Damage Estimates*

The NCDC reports three extreme temperatures in Madison County within the past five years. Each of these events was an extreme cold/wind chill reported countywide. Details of these events are described in Section 5.5 of the main body of the plan. No damage estimates related to extreme temperatures are reported specific to the Town of Georgetown.

5.8.4 *Future Potential Impacts*

The Town's overall vulnerability for an extreme temperature event remains moderate. Extreme temperatures are likely to increase in frequency and extremity in the future due to climate change.

5.9 Landslide

5.9.1 *Description*

For a description of this hazard, please see Section 5.4 of the main body of the plan.

5.9.2 *Hazard Vulnerability*

The Town's overall vulnerability for landslide is moderate, as documented in their hazard analysis in Section 4.1. The Town of Georgetown is mapped as an area of low incidence for landslides (Figure 5.6, Appendix A of the main body of the plan). Areas with steep slopes throughout the Town (based on mapped soil units with slopes over 30%) are shown in Figure 1 (Attachment A).

Areas with steep slopes, including Barker Hill may be susceptible to landslides.

5.9.3 *Historical Hazard Occurrences and Damage Estimates*

There are no historical records of landslides occurring in the Town of Georgetown. A landslide has the potential to cause hundreds of thousands of dollars in damages. However, steep areas in the Town are sparsely populated, and a landslide is unlikely to result in significant property damages.

5.9.4 *Future Potential Impacts*

The Town's overall vulnerability for landslide remains moderate. Steep areas in the Town such as Barker Hill could be susceptible to landslides in the future, but the Town is unlikely to sustain significant property damages from a landslide given its rural nature.

6. National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Town of Georgetown currently participates in the NFIP (community ID 360400), and its FIRM(s) became effective on 11/2/1984. The Town joined the NFIP on this same date. NFIP loss claims data were requested from FEMA and a response is pending. According to the County's 2017 HMP, there are no repetitive loss properties in the Town. More current repetitive loss data from FEMA is pending. The Town will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, among other required duties.

7. Mitigation Strategy and Prioritization

7.1 Past, Completed, and Ongoing Initiatives

The Town proposed two mitigation actions in the 2017 Madison County HMP, and the status of each action is summarized in Table 7, below. None of the Town's 2017 mitigation actions were re-included for the 2022 update.

Table 7. Status of 2017 Mitigation Actions Town of Georgetown				
Project Name	Description	Hazard(s) Mitigated	Lead Agency	Status
Jones Road Culvert Repairs	Flooding of an unnamed tributary to the Middle Branch Tioughnioga Creek resulted in damages to Jones Road impeding access for residents. The project will include a culvert repair and improvement along the road.	Flood	Town of Georgetown	Not completed, but no longer a priority. Not re-included for HMP update.
Bonney Road Culvert Repairs	Flooding of the Stone Mill Brook resulted in damages to the culvert on Bonney Road. The project will include the repair of this culvert.	Flood	Town of Georgetown	Completed

7.2 Proposed Mitigation Actions

The Town proposed two new mitigation actions to be included in the HMP update. These actions are described in Table 8, below and on worksheets included in Attachment A.

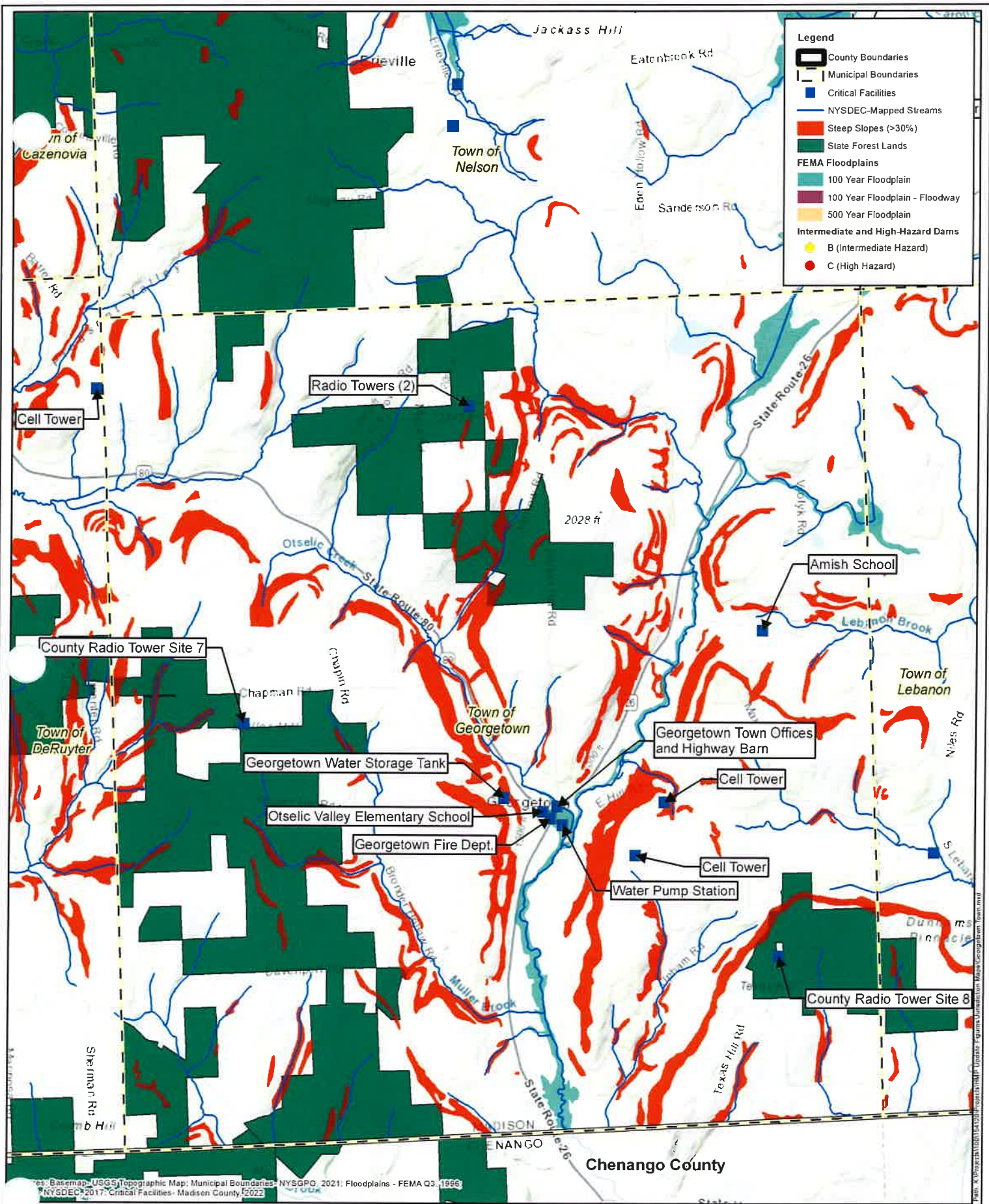
Table 8. Proposed Hazard Mitigation Actions									
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
Georgetown 1	Muller Hill Rd, Texas Hill Rd, and Parker Hill Rd Culvert Improvements	Flood	Town of Georgetown Highway Dept.*	None	2 years	Existing	Muller Hill - \$10K; Texas Hill and Parker Hill- \$15K each	NYSDOT - CHIPS; Town Budget	1
Georgetown 2	Highway Department Relocation	Flood	Town of Georgetown Town Board*	None	2 years	Existing	\$4.5 million	FEMA - HMGP; USDA RD - Community Facilities; NYSOCR - CDBG; Town Budget	2

7.3 Cost-Benefit Analysis

Each of the Town's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis described in Section 7.2.3 of the main body of the plan. The Town's STAPLEE worksheet is provided in Attachment A. The STAPLEE analysis considers the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental. It also considers the level of overall costs and benefits of the action.

Attachment A

**Figure 1, Mitigation Action Worksheets,
and STAPLEE Worksheet**



Madison County HMP Update Mitigation Action Worksheet

Jurisdiction: Town of Georgetown

Mitigation Action	
Project ID:	Georgetown 1
Project Name:	Muller Hill Rd, Texas Hill Rd, and Parker Hill Rd Culvert Improvements
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	Three culverts in the Town (located on Muller Hill Rd, Texas Hill Rd, and Parker Hill Rd) are undersized and do not adequately convey storm flows. This has resulted in washouts and flooding issues along each roadway.
Proposed Action	
Description of the Solution:	Replace culverts with new, larger pipes to better convey flows. The existing crossing beneath Parker Hill Rd currently has two pipes, which would be replaced with a single larger pipe.

Is this project related to a Critical Facility? ☐ Yes ☒ No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (losses avoided):	Reduced flood damages to roadways.
Useful Life:	50 years		
Estimated Cost:	\$10K (Muller Hill); \$15K each (Parker Hill and Texas Hill)		

Plan for Implementation			
Priority (High, Medium, Low):	High	Responsible Organization:	Town of Georgetown Highway Dept.
Desired Timeframe for Implementation:	6 months-2 years	Potential Funding Sources:	NYSDOT - CHIPS; Town Budget
Estimated Time Required to Implement:	2 years	Local Planning Mechanisms to be used in Implementation, if any:	None

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No change; roads remain susceptible to flood damages
	Replace culverts in-kind	\$8-10K each	Short-term maintenance action to improve structural resiliency, but does not increase flood flow capacity.
	Replace culverts with larger pipes; convert double culvert on Parker Hill Rd to larger capacity single pipe	\$10K to \$15K each	Long-term solution; reduces flood damages by increasing flood flow capacity for each crossing.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or Solution:	

Madison County HMP Update Mitigation Action Worksheet

Jurisdiction: Town of Georgetown

Mitigation Action	
Project ID:	Cazenovia V 2
Project Name:	Review and update the Village building code and land use regulations
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	The Village solely has control over land use and development standards within their municipal limits, even though developments in neighboring municipalities can affect the Village. The Village's building code and land use regulations are in need of a review and update to ensure that all vulnerable locations in the Village are protected (protection of existing development or prevention of future development).
Proposed Action	
Description of the Solution:	During the Village's next comprehensive plan update, the building code and land use regulations will be reviewed to identify necessary updates and improvements that could be made to better protect Village properties in areas that are vulnerable to flooding and other natural hazards. The Village will update their regulations accordingly.

Is this project related to a Critical Facility? ☒ Yes ☐ No

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)

Level of Protection:	Medium	Estimated Benefits (losses avoided):	Prevention of flood/other natural hazard related damages to future developments
Useful Life:	Long-term (100+ years)		
Estimated Cost:	\$20-30K		

Plan for Implementation			
Priority (High, Medium, Low):	High	Responsible Organization:	Cazenovia Village Board
Desired Timeframe for Implementation:	1 year (2022-2023)	Potential Funding Sources:	CACDA; Village Budget
Estimated Time Required to Implement:	1 year	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No improvements from current conditions
	Coordinate directly with neighboring Towns when they review site plans	Low	May help inform neighboring communities of Village's concerns, but Village does not have control over decisions.
	Review and update Village building code and land use regulations	\$20-30K	Under Village's jurisdiction, long-term solution to protecting properties.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or Solution:	