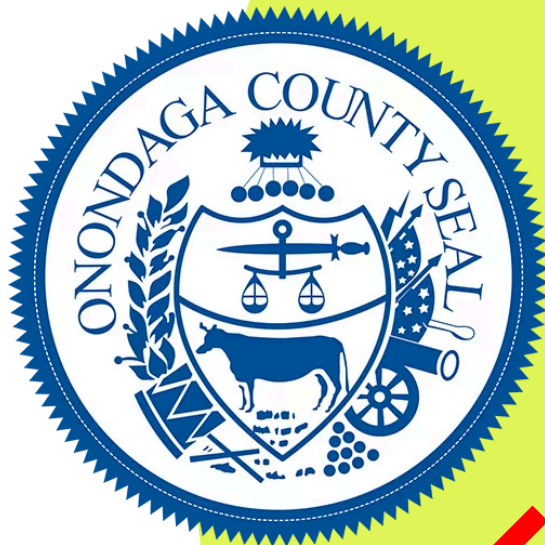


2025 Hazard Mitigation Plan

Onondaga County,
New York

**Town of Tully
Annex**



DRAFT



TABLE OF CONTENTS

1. HAZARD MITIGATION LOCAL PLANNING TEAM.....	1
2. MUNICIPAL PROFILE.....	1
2.1. Population	1
2.2. History and Cultural Resources	2
3. GROWTH/DEVELOPMENT TRENDS.....	2
3.1. Changes in Priority.....	3
4. CAPABILITY ASSESSMENT.....	3
4.1. Planning and Regulatory Capabilities.....	4
4.2. Administrative and Technical Capabilities	6
4.3. Fiscal Capabilities	7
4.4. Education and Outreach Capabilities	7
4.5. Community Classifications	8
4.6. Self-Assessment of Capability	8
4.7. Needs to Expand/Improve Capabilities.....	9
5. NATIONAL FLOOD INSURANCE PROGRAM.....	9
5.1. NFIP Floodplain Administrator	9
5.2. Repetitive Loss and Severe Repetitive Loss Property	10
5.3. Participation Activities.....	11
5.3.1. Regulatory	11
6. HAZARD MITIGATION PLAN INTEGRATION	13
6.1. Existing Plan Integration.....	13
6.2. Potential Future Integration	13
7. SIGNIFICANT HAZARD PAST EVENTS.....	14
8. HAZARD VULNERABILITY AND IMPACT ASSESSMENT.....	14
8.1. Future Major Assets	18
9. CRITICAL FACILITIES FLOOD RISK.....	18
10. HAZARD RISK RANKING.....	19
11. MITIGATION ACTIONS.....	21
APPENDIX A. HAZARD MAPS.....	33
APPENDIX B. LETTER OF INTENT.....	34
APPENDIX C. PLAN ADOPTION	35



This Annex details the hazard mitigation elements specific to the Town of Tully, a participating jurisdiction to the 2025 Onondaga County Hazard Mitigation Plan update. This Annex is not intended to be a standalone document but supplements the information contained in **Volume 1 (Countywide Planning Elements)**. Therefore, all sections of **Volume 1** including the planning process, hazard identification and risk assessment, mitigation strategy (includes mitigation goals and objectives), and plan maintenance apply to and were met by the Town of Tully. This Annex provides additional information specific to the Town, with a focus on providing additional details on the hazard risk assessment and mitigation strategy (i.e., mitigation actions) for this community.

1. HAZARD MITIGATION LOCAL PLANNING TEAM

The following individuals have been identified as the Town of Tully Local Planning Team for the 2025 Onondaga County Hazard Mitigation Plan. These individuals participated in all aspects of the planning process and developed a risk and vulnerability assessment, capability assessment, and mitigation strategy (including mitigation actions) specific to the jurisdiction.

Name	Title	Department
Benjamin Vincent	Code Enforcement Officer	Zoning & Building Department
John Masters	Town Supervisor	Town Board

2. MUNICIPAL PROFILE

The Town of Tully lies along the southern border of Onondaga County and has a total area of 26.3 square miles. The Town is bordered by the Town of Otisco to the north, the Town of Fabius to the east, Cortland County to the south, and the Village of Spafford to the west. Major bodies of water within the Town include Crooked Lake, Green Lake, and Tully Lake. The Village of Tully is located in the Town of Tully on United States Route 11 at the intersection of New York State Route 80. *The Village of Tully has developed its own dedicated annex as part of this Plan.* There are several communities located within the Town – Assembly Park (hamlet), Tully Center (hamlet), Tully Lake Park (hamlet), and Vesper (hamlet).

2.1. Population

In 2023, the Town of Tully had a population of 2,648, a 2.0% decrease from the estimated 2018 population of 2,719. **Table 1** summarizes population distribution between 2010 and 2023, and the percentage of the 2023 population that is under five (5) years old, over 65 years old, and living below poverty level.

Table 1. Population Trends

Population				Underserved Population		
2010 ¹	2018 ²	2023 ³	Population Change (2018 – 2023)	Youth ³ (Under 5 years old)	Elderly ³ (Over 65 years old)	Below Poverty Level ⁴
2,719	2,703	2,648	2.0%	5.2%	21.0%	10.9%

¹ United States Census Bureau. (2010). DP05: ACS Demographic and Housing Estimates (2010: 5-Year Estimates Data Profiles). Retrieved from <https://data.census.gov/table/ACSDP5Y2010.DP05?g=060XX00US3606775638>.

² United States Census Bureau. (2018). DP05: ACS Demographic and Housing Estimates (2018: 5-Year Estimates Data Profiles). Retrieved from <https://data.census.gov/table/ACSDP5Y2018.DP05?g=060XX00US3606775638>.

³ United States Census Bureau. (2023). DP05: ACS Demographic and Housing Estimates (2023: 5-Year Estimates Data Profiles). Retrieved from <https://data.census.gov/table/ACSDP5Y2023.DP05?g=060XX00US3606775638>.

⁴ United States Census Bureau. (2023). S1701: Poverty Status in the Past 12 Months (2023: ACS 5-Year Estimates Subject Tables). Retrieved from <https://data.census.gov/table/ACSST5Y2023.S1701?g=060XX00US3606775638>.



2.2. History and Cultural Resources

Tully was within the former Central New York Military Tract used to pay soldiers of the American Revolution. The surveyors were responsible for naming the areas and one of the assistant surveyors, a classical scholar and professor at Kings College (Columbia), assigned names from Roman generals, states people, and Greek men of letters. Tully is derived from the middle name of Marcus Tullius Cicero.

The first town meeting was held on April 4, 1803, when the Town was formed from parts of the Town of Fabius. The Town of Otisco was partially formed from part of the Town of Tully in 1806. When Cortland County was established in 1808, Tully lost its southern portion to the towns of Preble and Scott in the new county. In 1811, Tully lost additional land to form the Town of Spafford.

The development of two (2) local resources – Tully Lake Park and Assembly Park – over the past decade has significantly elevated the Town’s prominence and growth. The first of these resources is the somewhat famous Tully Lake Park. The first cottage and a part of the hotel were constructed on Tully Lake in 1889; other cottages and villas followed until now upwards of 50 are in the area. In 1892, the Central New York Assembly established Assembly Park on the east side of the Lake, where annual sessions of an educational nature have since been held.

3. GROWTH/DEVELOPMENT TRENDS

Understanding development trends can help evaluate whether the jurisdiction’s vulnerability has increased, decreased, or remained the same. **Table 2** summarizes the total housing units built in the Town of Tully between 2019 and 2023.⁵

Table 2. Housing Units Built (2019 – 2023)

Type	2019	2020	2021	2022	2023
Single-Family Units	9	8	0	1	4
Multi-Family Units	0	0	0	0	0
2-Family Units	0	0	0	0	0
3-Family Units	0	0	0	0	0
Apartment Units	0	0	0	0	0
Total Units	9	8	0	1	4

The Onondaga County Housing Needs Assessment, a component of the County’s Comprehensive Plan, explores the County’s housing market and its challenges in greater depth and argues that one of the County’s greatest housing needs is an improved approach to land use planning. In the Assessment, it is stated that there are similarities and affinities between certain groups of municipalities. Therefore, the County was sub-divided into seven (7) sub-regions, each of which covers multiple municipalities. The municipalities within each sub-region, share sufficient geographic and market characteristics to be treated as a single place for purposes of further understanding the county housing market.

The Town of Tully is under the Rural Countryside sub-region. This sub-region has a greater proportion of married couple families, both elderly (17%) and non-elderly (65%), and relatively fewer single parent families and people living alone. Total household growth between 2000 and 2020 was 8.8% (the average of all the County towns/villages was 12.0%). Growing demand in the County would likely support continued large-lot homebuilding within the towns. Villages, without a clear market for aging housing in mostly remote locations, would slowly

⁵ Data provided by the Onondaga County Department of Planning based on Real Property Data (2024).



continue on their early 20th century trajectory. If household growth in the towns within this sub-region grew sufficiently, it could encourage development of some additional commercial uses. Under a low-growth scenario, it is likely that the towns within Rural Countryside could continue to add large-lot houses in a rural setting, though construction would likely slow. Market changes would happen gradually, with strong areas remaining strong for a period of time.

Table 3 summarizes major recent residential/commercial development (in the past five (5) years), and any known or anticipated major residential/commercial development and major infrastructure development, as of December 2024, that is likely to occur within hazard prone areas in the next five (5) years.

Table 3. Growth and Development

Property or Development Name	Location	Type (e.g., residential, commercial)	# of Units/ Structures	Known Hazard Zone(s)	Status of Development
Recent Development in the Past Five (5) Years (2019– 2024)					
The Town has not experienced significant development in hazard prone areas over the past five (5) years.					
Known or Anticipated Development in the Next Five (5) Years (2024 – 2029)					
The Town does not anticipate significant development in hazard prone areas over the next five (5) years.					

3.1. Changes in Priority

The overall hazard mitigation priorities have not significantly changed for the Town of Tully since the last Plan update. However, mitigation actions from the previous Plan were updated, and a more concerted effort on achieving equitable outcomes for all communities, including underserved communities and socially vulnerable populations, has been implemented.

4. CAPABILITY ASSESSMENT

Federal regulations require hazard mitigation plans to identify goals for reducing long-term vulnerabilities to the identified hazards in the planning area (Section 201.6(c)(3)(i)). A critical step in the development of specific hazard mitigation actions and projects is assessing existing authorities, policies, programs, and resources and capabilities to use or modify local tools to reduce losses and vulnerability from profiled hazards.

A capability assessment was conducted for the Town of Tully’s authorities, policies, programs, and resources. Goals and mitigation actions were developed using input from this assessment. Information regarding the Town’s implementation of and continued participation in the National Flood Insurance Program (NFIP) can be found in Section 5 of this Annex.

The Local Planning Team assessed the Town’s capabilities that can contribute to the reduction of long-term vulnerabilities to hazards. The capabilities include the following categories:

- Planning and Regulatory Capabilities
- Administrative and Technical Capabilities
- Fiscal Capabilities
- Education and Outreach Capabilities



Additionally, ways to expand on and improve these existing policies and programs to integrate hazard mitigation into the day-to-day activities and programs of the Town were considered.

4.1. Planning and Regulatory Capabilities

Table 4 includes local ordinances, policies, and laws to manage growth and development (e.g., land use plans, capital improvement plans, transportation plans, emergency preparedness and response plans, building codes, and zoning ordinances).

Table 4. Planning and Regulatory Tools

Capability Category	Yes/No	Authority (local, county, state, federal)	Responsible Department/ Agency	Code Citation and Comments (e.g., Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Comprehensive Plan	Yes	Local	Planning Board	Adopted on July 2023
Capital Improvements Plan	Yes	Local	Planning Board	
Floodplain Management / Basin Plan	No	N/A	N/A	N/A
Stormwater Management Plan	No	N/A	N/A	N/A
Open Space Plan	No	N/A	N/A	N/A
Stream Corridor Management Plan	No	N/A	N/A	N/A
Watershed Management or Protection Plan	No	N/A	N/A	N/A
Economic Development Plan	No	N/A	N/A	N/A
Comprehensive Emergency Management Plan	No	N/A	N/A	N/A
Emergency Operation Plan	No	N/A	N/A	N/A
Evacuation Plan	No	N/A	N/A	N/A
Post-Disaster Recovery Plan	No	N/A	N/A	N/A
Transportation Plan	No	N/A	N/A	N/A
Strategic Recovery Planning Report	No	N/A	N/A	N/A
Climate Adaptation Plan	No	N/A	N/A	N/A
Resilience Plan	No	N/A	N/A	N/A



Capability Category	Yes/No	Authority (local, county, state, federal)	Responsible Department/ Agency	Code Citation and Comments (e.g., Code Chapter, name of plan, explanation of authority, etc.)
Regulatory Capability				
Building Code	Yes	State, Local	Zoning & Building Department	Chapter 16 of the New York State Building Code Chapter 136 of the Town Code
Zoning Ordinance	Yes	Local	Zoning & Building Department	Chapter 280 of the Town Code
Subdivision Ordinance	Yes	Local	Zoning & Building Department	Chapter 245 of the Town Code
NFIP Flood Damage Prevention Ordinance	Yes	Local	Zoning & Building Department	Chapter 162 of the Town Code
NFIP: Cumulative Substantial Damages	Yes	Local	Zoning & Building Department	Chapter 162 of the Town Code
NFIP: Freeboard	Yes	State, Local	Zoning & Building Department	Chapter 16 of the New York State Building Code State mandated two (2) feet above the BFE for all construction, both residential and non-residential.
Growth Management Ordinances	No	N/A	N/A	N/A
Site Plan Review Requirements	Yes	Local	Zoning & Building Department	Chapter 280 of the Town Code
Stormwater Management Ordinance	No	N/A	N/A	N/A
Municipal Separate Storm Sewer System (MS4)	No	N/A	N/A	N/A
Natural Hazard Ordinance	No	N/A	N/A	N/A
Post-Disaster Recovery Ordinance	No	N/A	N/A	N/A
Real Estate Disclosure Requirement	Yes	State	New York State Department of State, Real Estate Agent	New York Code – Article 14 §460-467 (Property Condition Disclosure Act)
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	No	N/A	N/A	N/A



4.2. Administrative and Technical Capabilities

The administrative and technical capabilities, listed in **Table 5**, include community (i.e., public and private) staff and their skills and tools, which can be used for mitigation planning and implementation. This capability includes engineers, planners, emergency managers, Geographic Information System (GIS) analysts, building inspectors, grant writers, and floodplain managers. Small communities may rely on other government entities, such as counties or special districts, for resources.

Table 5. Administrative and Technical Capabilities

Capability	Yes/No	Position/Department/Agency
Administrative Capability		
Planning Board	Yes	Planning Board
Mitigation Planning Committee	No	N/A
Environmental Board/Commission	No	N/A
Open Space Board/Committee	No	N/A
Economic Development Commission/Committee	No	N/A
Maintenance programs to reduce risk	Yes	Highway Superintendent, Highway Department
Mutual aid agreements	Yes	Highway Superintendent, Highway Department
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Town Engineer
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Code Enforcement Officer, Zoning & Building Department Town Engineer
Planners or engineers with an understanding of natural hazards	Yes	Code Enforcement Officer, Zoning & Building Department Town Engineer
NFIP Floodplain Administrator	Yes	Code Enforcement Officer, Zoning & Building Department
Surveyor(s)	No	N/A
Personnel skilled or trained in GIS applications	No	N/A
Scientist familiar with natural hazards	No	N/A
Warning systems/services	Yes	Onondaga County Emergency Communication (911)
Emergency Manager	No	N/A
Grant writer(s)	No	N/A
Staff with expertise or training in benefit/cost analysis	Yes	Town Bookkeeper
Professionals trained in conducting damage assessments	Yes	Town Engineer



4.3. Fiscal Capabilities

Table 6 contains a list of fiscal capabilities available to the Town that may be used to implement mitigation activities to reduce risk and enhance resiliency. This capability includes available funding sources from local budgets, state and federal grants, potential cost-sharing arrangements with private entities, existing insurance policies, and the ability to generate additional revenue through fees and bonds related to mitigation.

Table 6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Federal Hazard Mitigation Assistance Program (<i>i.e.</i> , Hazard Mitigation Grant Program (HMGP), HMGP Post Fire, Building Resilient Infrastructure and Communities (BRIC), Flood Mitigation Assistance (FMA) Program)	Yes
Capital Improvements Project Funding	Yes
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
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Open Space Acquisition funding programs	Yes

4.4. Education and Outreach Capabilities

Table 7 lists the Town's education and public outreach capabilities that can be used to inform residents about potential hazards, educate on mitigation strategies, and encourage proactive actions to reduce the community's impacts to disasters. These capabilities include fire safety programs, hazard awareness campaigns, public information, and communications offices.

Table 7. Education and Outreach Resources

Resource	Yes/No	Position/Department/Agency
Public Information Officer	No	N/A
Personnel skilled or trained in website development	No	N/A
Hazard mitigation information available on the jurisdiction's website	No	N/A
Utilize social media for hazard mitigation education	No	N/A
Citizen boards or commissions that address issues related to hazard mitigation	No	N/A



Resource	Yes/No	Position/Department/Agency
Other programs already in place that could be used to communicate hazard-related information	No	N/A
An established warning system for hazard events	No	N/A

4.5. Community Classifications

The community classification relates to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (i.e., preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. **Table 8** summarizes classifications for community programs available to the Town of Camillus.

Table 8. Community Classifications

Program	Yes/No	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	N/A	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	No	N/A	N/A
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	Class 7	-
New York State Department of Environmental Conservation Climate Smart Community	No	N/A	N/A
Storm Ready Certification	No	N/A	N/A
Firewise Communities classification	No	N/A	N/A
Natural disaster/safety programs in/for schools	No	N/A	N/A
Organizations with mitigation focus (advocacy group, non-government)	No	N/A	N/A
Public private partnership initiatives addressing disaster-related issues	No	N/A	N/A

4.6. Self-Assessment of Capability

The community classification relates to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as an indicator of the community's capabilities in all phases of emergency management (i.e., preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. **Table 9** summarizes classifications for community programs available to the Town of Tully.

Table 9. Self-Assessment Capability for the Municipality

Capability Area	Degree of Hazard Mitigation Capability		
	<i>Limited</i> (If limited, what are your obstacles?)	<i>Moderate</i>	<i>High</i>
Planning and Regulatory Capabilities		X	
Administrative and Technical Capabilities		X	



Capability Area	Degree of Hazard Mitigation Capability		
	<i>Limited</i> (If limited, what are your obstacles?)	<i>Moderate</i>	<i>High</i>
Fiscal Capabilities	X (Limited staff and funding)		
Education and Outreach Capabilities	X (Limited staff and funding)		
Community Political Capabilities		X	
Community Resiliency Capabilities		X	
Capability to integrate mitigation into municipal processes and activities		X	

4.7. Needs to Expand/Improve Capabilities

Based on the capability self-assessment in Section 4.6, the Town of Tully identified existing authorities, policies, programs, funding, and/or resources that need to be expanded and/or improved in order to support the implementation of the hazard mitigation initiatives identified in this Plan (e.g., mitigation actions).

- In order to increase the Town's capability to implement hazard mitigation, apply for hazard mitigation grants, and fund the local match for hazard mitigation grants, the Town needs to expand its grant writing capabilities by potentially hiring more grant writers.
- Town codes and ordinances (e.g., building, zoning, protecting steep slopes, wetlands) should be reviewed based on developing trends in identified hazards and mitigation measures that can make them more effective at preventing losses.

5. NATIONAL FLOOD INSURANCE PROGRAM

The Town of Tully is a member of the National Flood Insurance Program (NFIP) but has chosen to not participate in the NFIP Community Rating System (CRS) Program. The Town is in good standing with the NFIP through adoption and enforcement of floodplain management requirements (e.g., regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. The Town's NFIP participation information is listed in **Table 10**.

Table 10. NFIP Participation Information

CID	NFIP Participation Date	Current Effective FIRM Date	CRS Entry Date	CRS Current Effective Date	CRS Rating
361296	10/18/1974	11/4/2016	N/A	N/A	N/A

5.1. NFIP Floodplain Administrator

All NFIP participating jurisdictions have a designated Floodplain Administrator that is charged with enforcing floodplain regulations, routinely monitoring the floodplains, and providing community assistance such as encouraging owners to maintain flood insurance. The Town of Tully Floodplain Administrator information is listed in **Table 11**.

**Table 11. Floodplain Administrator**

Name	Title	Department	Phone Number
Benjamin Vincent	Code Enforcement Officer	Zoning & Building Department	(315) 696-4693 (Ext. 19)

5.2. Repetitive Loss and Severe Repetitive Loss Property

FEMA defines a Repetitive Loss property as an NFIP-insured property meeting at least one (1) of the following paid loss criteria since 1978, regardless of any changes in ownership:

- Four (4) or more separate claims payments greater than \$5,000 each (including building and contents payment).
- Two (2) or more separate flood insurance claims payments (building payments only), where the total of the payments is greater than the property's current value.

Additionally, to receive a designation, at least two (2) of the claim payments must occur within 10 years of one another.⁶

A Severe Repetitive Loss property is defined by FEMA as any NFIP-insured single-family or multi-family residential building meeting at least one (1) of the following paid loss criteria since 1978 or from building constructed after 1978, regardless of any changes in ownership:⁷

- That has incurred flood-related damage for which four (4) or more separate claims payments have been made, with the amount of each claim (including building and contents payments) exceeding \$5,000, and with the cumulative amount of such claims payments exceeding \$20,000.
- For which at least two (2) separate claims payments (building payments only) have been made under such coverage, with the cumulative amount of such claims exceeding the market value of the building.

Table 12 summarizes FEMA Repetitive Loss and Severe Repetitive Loss properties within the Town of Tully.

⁶ Federal Emergency Management Agency, National Flood Insurance Program. (2023). A Policyholder's Guide to Severe Repetitive Loss. Retrieved from https://agents.floodsmart.gov/sites/default/files/fema_nfip-policyholders-guide-severe-repetitive-loss_brochure_07-2023.pdf.

⁷ Federal Emergency Management Agency, National Flood Insurance Program. (2021). National Flood Insurance Program: Flood Insurance Manual. Retrieved from https://www.fema.gov/sites/default/files/documents/fema_nfip-all-flood-insurance-manual-apr-2021.pdf.

**Table 12. Repetitive Loss and Severe Repetitive Loss Properties**

Repetitive Loss Properties		Severe Repetitive Loss Properties	
Total	Occupancy	Total	Occupancy
0	--	0	--
Occupancy Type: Single Family = Single family residence • Two (2)-Four (4) Unit Residential Building = Two (2)-four (4) unit residential building • More Than Four (4) Units Residential Building = Residential building with more than four (4) units • Non-Residential Building = Non-residential building • Non-Residential Business = Non-residential business • Single Family Residential Building = Single-family residential building with the exception of a mobile home or a single residential unit within a multi-unit building • Residential (2, 3, or 4 units) Non-Condo Building = Residential non-condo building with two (2), three (3), or four (4) units seeking insurance on all units • Residential (5 or more units) Non-Condo Building = Residential non-condo building with 5 or more units seeking insurance on all units • Residential Mobile/Manufactured Home = Residential mobile/manufactured home • Residential Condo Association = Residential condo association seeking coverage on a building with one (1) or more units • Single Residential Unit = Single residential unit within a multi-unit building • Non-Residential Mobile/manufactured Home = Non-residential mobile/manufactured home • Non-Residential Building = Non-residential building • Non-Residential Unit = Non-residential unit within a multi-unit building			

Table 13 summarizes the NFIP active policies and coverage in force data for the Town of Tully.

Table 13. NFIP Policies

NFIP Policies	Insurance in Force	Total Claims Paid	Sum of Claims Paid
0	\$0	0	\$0

5.3. Participation Activities

The Town of Tully NFIP participation over the last five (5) years includes the following:

- Provides the following services – permit review, GIS, inspections, and engineering capability.
- Enforces local floodplain regulations and monitors compliance.
- Floodplain management regulations meet or exceed FEMA or State minimum requirements.

5.3.1. Regulatory

Flood Damage Prevention Ordinance

The Town of Tully's Flood Damage Prevention Chapter (*Chapter 162 of the Town Code*) was adopted to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- Regulate uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities.
- Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction.
- Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters.
- Control filling, grading, dredging and other development which may increase erosion or flood damages.
- Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands.
- Qualify for and maintain participation in the NFIP.



The objectives of this Chapter are to:

- Protect human life and health.
- Minimize expenditure of public money for costly flood control projects.
- Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public.
- Minimize prolonged business interruptions.
- Minimize damage to public facilities and utilities, such as water and gas mains, electric, telephone, and sewer lines, streets and bridges located in areas of special flood hazard.
- Help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas.
- Provide that developers are notified that property is in an area of special flood hazard.
- Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

Substantial Damage

Substantial damage means damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50% of the market value of the structure before the damage occurred. *Substantial damage* also means flood related damages sustained by a structure on two (2) separate occasions during a 10 year period for which the cost of repairs at the time of such event, on the average, equals or exceeds 25% of the market value of the structure before the damage occurred. (Chapter 162 of the Town Code)

Substantial Improvement

Substantial improvement means any reconstruction, rehabilitation, addition, or other improvement of a structure, the cost of which equals or exceeds 50% of the market value of the structure before the "start of construction" of the improvement. *Substantial improvement* also means "cumulative substantial improvement". The term includes structures which have incurred "substantial damage," regardless of the actual repair work performed. The term does not, however, include either:

- A. Any project for improvement of a structure to correct existing violations of state or local health, sanitary, or safety code specifications which have been identified by the local code enforcement official and which are the minimum necessary to assure safe living conditions; or
- B. Any alteration of an "historic structure," provided that the alteration will not preclude the structure's continued designation as an "historic structure." (Chapter 162 of the Town Code)

Cumulative Substantial Improvement

Cumulative substantial improvement means any reconstruction, rehabilitation, addition, or other improvement of a structure that equals or exceeds 50% of the market value of the structure at the time of the improvement or repair when counted cumulatively for 10 years. (Chapter 162 of the Town Code)

There are other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements.



6. HAZARD MITIGATION PLAN INTEGRATION

In order for a community to successfully reduce long term risk, hazard mitigation must be integrated into day-to-day planning mechanisms and initiatives. Plan integration is the process by which communities critically assess the existing planning framework and align efforts with the goal of reducing long term risks and building a more resilient community. It involves a two (2) way exchange of information and incorporation of ideas and concepts between hazard mitigation plans and other community plans. In particular, plan integration involves the incorporation of hazard mitigation principles and actions into other plans, and planning mechanisms into hazard mitigation plans. Plan integration involves community plans, policies, codes, and programs that guide development, roles, and responsibilities in implementing these capabilities. Additionally, plan integration is achieved through the involvement of key staff and community officials in collaborative hazard mitigation planning.

6.1. Existing Plan Integration

A hazard mitigation plan must explain how the jurisdiction incorporated the previous Plan update over the last five (5) years to demonstrate progress in local mitigation efforts. In the performance period since the adoption of the previous Hazard Mitigation Plan, the Town of Tully made progress on integrating components of the hazard mitigation strategy (e.g., goals, objectives, and actions) into planning initiatives and mechanisms. **Table 14** highlights the planning mechanisms/initiatives where the previous Plan was integrated and what information was integrated.

Table 14. Current Plan Integration

Planning Initiative	Current Integration Description
Comprehensive Plan	The Town's Comprehensive Plan, last updated in 2023, integrates hazard mitigation by aligning the mitigation actions from the Hazard Mitigation Plan with the vision and goals of the Comprehensive Plan. Recommended hazard mitigation projects mentioned in the Comprehensive Plan include increasing the capacity of drainage systems, increasing coordination between the Town and Village of Tully, creating a drought outreach program, updating local emergency plans, and others. Furthermore, the Hazard Mitigation Plan is referenced throughout the Comprehensive Plan.
Ordinances	The Town has multiple local ordinances pertaining to the mitigation of hazards. These ordinances include the establishment of the Planning Board and the Zoning Board of Appeals, Building Ordinance (Chapter 136 of the Town Code), Flood Damage Prevention Ordinance (Chapter 162 of the Town Code), Zoning Ordinance (Chapter 280 of the Town Code), and Subdivision Regulations (Chapter 245 of the Town Code).
Public Outreach	The Town's website provides information related to safety and hazard mitigation including local emergency response contact information, current project information, and links to related ordinances and plans.

6.2. Potential Future Integration

A hazard mitigation plan must explain how the jurisdiction intends to incorporate this Plan update into planning mechanisms over the next five (5) years. The capability assessment presented in Section 4 of this Annex identifies codes, plans, and programs that provide opportunities for integration. **Table 15** outlines planning mechanisms/initiatives that do not currently integrate goals and recommendations of this Plan but provide opportunities to do so in the future.

**Table 15. Potential Future Integration**

Planning Initiative	Potential Integration Description
Emergency Plan	Updates to existing plans and development of new plans could include information on natural hazard risk and refer to the Hazard Mitigation Plan, as applicable.
Planning Board and Zoning Board of Appeals	The Boards could implement a more proactive approach to land use and development applications when it relates to hazards, specifically those outlined in the Hazard Mitigation Plan's risk assessment. Furthermore, the Boards could require all development applicants to indicate if the proposed development is within the floodplain.
Local Budget	The Town could include a line item for mitigation projects/activities into the municipal budget and/or capital improvement budget.
Public Outreach	The Town could expand the information available on the Town's website to include material on the hazards outlined in this Hazard Mitigation Plan and information on climate change impacts to the potential hazards. Furthermore, the Town could develop community outreach programs. <i>Refer to mitigation action TT-1, TT-6, and TT-7.</i>

The Town's Local Planning Team will identify all relevant planning initiatives that are scheduled to be updated in the next year and during the annual update process of the Hazard Mitigation Plan. Additionally, opportunities to integrate key elements of the Hazard Mitigation Plan, specifically any relevant strategies, into the planning initiatives will be identified by the Local Planning Team. Mitigation actions were identified to promote plan integration in future revisions of this Plan.

7. SIGNIFICANT HAZARD PAST EVENTS

A complete risk assessment, including past incidents, for each identified hazard of concern can be found in **Volume 1** of this Plan. A summary of past events is provided under each hazard profiles and includes a chronology of events that have affected the County and its municipalities.

8. HAZARD VULNERABILITY AND IMPACT ASSESSMENT

Exposure and vulnerability to certain hazards affect the entire County and others are geographically defined. Although the entire County may be vulnerable to these hazards, their impacts may vary based on existing community conditions (e.g., underserved, or functional access needs populations may be more susceptible based on certain conditions, vulnerabilities, or needs).

Table 16 outlines the *unique vulnerabilities and impacts* for the Town of Tully and only addresses the hazards that are relevant and unique to the jurisdiction. A complete risk assessment for each identified hazard of concern is in **Volume 1** of this Plan. Hazard mapping can be found in **Appendix A** of this Annex.

Table 16. Hazard Vulnerability and Impact Assessment

Hazard	Vulnerabilities and Impacts
Drought	The lakes, farmland, and crops throughout the Town are uniquely vulnerable during drought events. Drought events may not impact the entire population; however, it can affect local farms that grow produce and their ability to irrigate crops, potentially reducing crop yield.
Earthquake	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to earthquake events; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.



Hazard	Vulnerabilities and Impacts
Heat Wave/Extreme Heat	Heat wave/extreme heat events, which could potentially lead to an increase of drought events, can damage crops in the farmland and impact the growing season. Furthermore, outdoor workers (e.g., those working in farmland) are uniquely impacted by heat wave/extreme heat events because this population is highly vulnerable to heat-related illnesses (e.g., heat stroke, heat exhaustion, muscle cramps) due to prolonged exposure to extreme temperatures and extraneous activities while being exposed to these conditions.
Flood (riverine, flash/urban, ice jam, dam and levee failure)	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to flood events; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
Geological Hazards (landslides, land subsidence, mudboils)	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to geological hazards; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
Harmful Algal Bloom	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to harmful algal blooms; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
Invasive Species and Infestation (Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases)	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to invasive species and infestation; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to severe weather; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	The Town of Tully is at a higher elevation with areas of steep slope; therefore, white out conditions can occur and damage to trees and utility lines is possible during winter weather events. Damage to utility lines can cause power outages which can uniquely impact the vulnerable population (e.g., elderly, children, electrically dependent). Furthermore, if downed power lines and trees are blocking a road, emergency services may not be able to access the community in a timely manner.
Wildfire (wildfire smoke)	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to wildfire; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.

The Town evaluated whether vulnerability in hazard prone areas had increased, decreased, or remained the same for each natural hazard identified in this Hazard Mitigation Plan. Climate change, changes in population, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard areas or is not built to the updated building codes, it may increase the community's vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics (e.g., underserved population) were taken into consideration.

Table 17 outlines whether climate change has increased or decreased the Town's vulnerability (i.e., exposure) and impact to each natural hazard over the past five (5) years, and the effect of climate change in the future probability of occurrence and impacts from each natural hazard.

**Table 17. Climate Change Current and Future Vulnerability and Impact**

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Drought	Increased
Earthquake	Remained the Same
Heat Wave/Extreme Heat	Increased
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	Remained the Same
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	Remained the Same
Harmful Algal Bloom	Increased
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	Remained the Same
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	Increased
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	Remained the Same
Wildfire (<i>wildfire smoke</i>)	Remained the Same
Future Vulnerability and Impact	
Drought	Increase
Earthquake	No Change Anticipated
Heat Wave/Extreme Heat	Increase
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	Increase
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	No Change Anticipated
Harmful Algal Bloom	Increase
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	No Change Anticipated
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	Increase
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	No Change Anticipated
Wildfire (<i>wildfire smoke</i>)	No Change Anticipated

Table 18 outlines if changes in population within the Town over the past five (5) years have increased or decreased the vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in population may have on the future probability of occurrence and impacts from these natural hazards.

Table 18. Changes in Population Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Drought	Remained the Same
Earthquake	Remained the Same
Heat Wave/Extreme Heat	Remained the Same
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	Remained the Same



Hazard	Vulnerability and Impact
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	Remained the Same
Harmful Algal Bloom	Remained the Same
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	Remained the Same
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	Remained the Same
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	Remained the Same
Wildfire (<i>wildfire smoke</i>)	Remained the Same
Future Vulnerability and Impact	
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Heat Wave/Extreme Heat	No Change Anticipated
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	No Change Anticipated
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	No Change Anticipated
Harmful Algal Bloom	No Change Anticipated
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	No Change Anticipated
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	No Change Anticipated
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	No Change Anticipated
Wildfire (<i>wildfire smoke</i>)	No Change Anticipated

Table 19 outlines if development over the past five (5) years has increased or decreased the Town's vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts from these natural hazards.

Table 19. Changes in Development Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Drought	Remained the Same
Earthquake	Remained the Same
Heat Wave/Extreme Heat	Remained the Same
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	Remained the Same
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	Remained the same
Harmful Algal Bloom	Remained the Same
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	Remained the Same
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	Remained the Same
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	Remained the Same



Hazard	Vulnerability and Impact
Wildfire (<i>wildfire smoke</i>)	Remained the Same
<i>Future Vulnerability and Impact</i>	
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Heat Wave/Extreme Heat	No Change Anticipated
Flood (<i>riverine, flash/urban, ice jam, dam and levee failure</i>)	No Change Anticipated
Geological Hazards (<i>landslides, land subsidence, mudboils</i>)	No Change Anticipated
Harmful Algal Bloom	No Change Anticipated
Invasive Species and Infestation (<i>Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases</i>)	No Change Anticipated
Severe Weather (<i>severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm</i>)	No Change Anticipated
Winter Weather (<i>blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter</i>)	No Change Anticipated
Wildfire (<i>wildfire smoke</i>)	No Change Anticipated

8.1. Future Major Assets

Community assets should include anything that is important to the character and function of a community. Assets include people (i.e., underserved population); structures (i.e., new and existing buildings); community lifelines and other critical facilities; natural, historic, and cultural resources; and the economy and other activities that have value to the community. The Town of Tully does not anticipate that future major assets may be exposed or vulnerable to any of the natural hazards identified in this Hazard Mitigation Plan. However, any new assets (e.g., new construction in hazard prone areas) will be constructed to adhere to the latest building codes and standards, and mitigation to protect them from identified and anticipated hazards, especially those that are expected to increase due to climate change.

9. CRITICAL FACILITIES FLOOD RISK

New York State Department of Environmental Conservation (NYSDEC) Title 6, Chapter V, Subchapter A, Part 502 sets forth local floodplain management criteria for State projects located within 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 built according to certain mitigation specifications, including being raised two (2) feet above the Base Flood Elevation (BFE).⁸ While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding.

Jurisdictions must identify all critical facilities, assess their vulnerabilities, and evaluate and ensure they are protected to a 0.2% chance (500-year) flood event. Critical facilities that are located in an SFHA and/or have been previously flooded, must be protected against a repeat of that flood or to the 0.2% chance flood event, which ever provides the greater protection. The Plan must document those critical facilities are protected to a 0.2% flood event,

⁸ New York State Department of Environmental Conservation. (n.d.). Chapter V – Resource Management Services. Retrieved from <https://dec.ny.gov/regulatory/regulations/chapter-v>.



or previous worst case flood event. For those that do not meet this level of protection, the Plan must include a mitigation action to meet or go beyond this criterion or explain why it is not feasible to do so.⁹

Table 20 identifies critical facilities in the community located in the 100-year and 500-year floodplain.

Table 20. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 100-Year Flood Event		Addressed by Proposed Action
		100-Year	500-Year	% Structure Damage	% Content Damage	
None identified.						

10. HAZARD RISK RANKING

Table 21 presents the local hazard ranking for the Town of Tully of all hazards of concern listed in **Volume 1** of this Plan. This ranking summarizes how hazards vary for this jurisdiction. As thoroughly described in **Volume 1** of this 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. For further details on how the probability, extent, vulnerability, and impact factors in **Table 21** were calculated, please refer to Section 4.3 in **Volume 1** of this Plan.

It is important to note that the sub hazards for severe weather (i.e., strong winds/damaging winds, severe thunderstorms, tropical storm/hurricane, hail, and tornado), geological hazards (i.e., landslide, land subsidence, and mudboils), flood (i.e., riverine/creek flooding and ice jam, and urban/flash flooding), and winter weather (i.e., blizzards, lake effect snow, nor'easter, and ice storm, and cold wave/extreme cold) were individually ranked in the hazard risk ranking; however, severe weather, geological hazards, flood, and winter weather are each considered as the main hazard throughout this Annex and **Volume 1**.

Table 21. Town of Tully Hazard Risk Ranking

Hazard Event	Probability Factor	Sum of Weighted Extent Factors	Sum of Weighted Vulnerability Factors	Sum of Weighted Impact Factors	Consequence Score	Total Risk Score (Probability x Consequence)
Winter Weather (Blizzards, Lake Effect Snow, Nor'easter, Ice Storm)	3	12	14	21	47	67
Severe Thunderstorm (Severe Weather)	3	12	16	14	42	61
Strong Winds/ Damaging Winds (Severe Weather)	3	12	11	16	39	57
Cold Wave/Extreme Cold (Winter Weather)	2	12	14	21	47	48

⁹ New York State Division of Homeland Security and Emergency Services. (2022). 2022 New York State Hazard Mitigation Planning Standards. Retrieved from <https://www.dhSES.ny.gov/system/files/documents/2023/11/2022-nys-mitigation-planning-standards-final.pdf>



Hazard Event	Probability Factor	Sum of Weighted Extent Factors	Sum of Weighted Vulnerability Factors	Sum of Weighted Impact Factors	Consequence Score	Total Risk Score (Probability x Consequence)
Flood (Riverine/Creek, Ice Jam)	2	9	6	24	39	41
Landslide (Geological Hazards)	2	9	6	23	38	40
Flood (Urban/Flash Flood)	2	9	6	23	38	40
Drought	2	12	12	13	37	39
Heat Wave/Extreme Heat	2	6	11	18	35	37
Harmful Algal Bloom	2	9	6	16	31	33
Mudboils (Geological Hazards)	2	9	6	16	31	33
Invasive Species and Infestation	2	6	6	17	29	32
Land Subsidence (Geological Hazards)	2	9	6	14	29	32
Tropical Storm/Hurricane (Severe Weather)	1	9	16	24	49	27
Dam and Levee Failure (Flood)	1	12	6	27	45	25
Hail (Severe Weather)	1	6	16	14	36	21
Earthquake	1	6	16	12	34	20
Tornado (Severe Weather)	1	6	6	22	34	20
Wildfire (Wildfire Smoke)	1	3	6	11	20	13

Consequence: Sum of all weighted factors.

Extent: Sum of the weighted Extent factors.

Vulnerability: Sum of the weighted Vulnerability factors.

Impact: Sum of the weighted Impact factors.

Total Risk Score* = Probability x Consequence

* Normalized to 100

Total Risk Score Legend

Classification	Probability Factor	Extent	Vulnerability	Impact	Consequence Score	Total Risk Score
Low (L)	1	0 – 6	0 – 6	0 – 12	0 – 24	0 – 24
Medium (M)	2	7 – 12	7 – 12	13 – 26	25 – 50	25 – 54
High (H)	3	13 – 18	13 – 18	27 – 39	51 – 75	55 and above

The **legend**—specifically the assignment of low, medium, and high—provides an additional means to qualitatively assess the probability factor, sum of weighted factors, and the total risk scores for each hazard. The **Consequence Score** represents the sum of the Extent, Vulnerability, and Impact Factors. The **Total Risk Score** is a measure of Probability and Consequence.



11. MITIGATION ACTIONS

This section includes the mitigation actions that were developed to address identified risks and vulnerabilities to hazards identified in this Plan. This Plan serves only to recommend mitigation measures based on the potential for risk reduction and available funding. Implementation of mitigation actions is dependent on risk reduction priorities, feasibility, and available funding. It is also dependent on the cooperation and support of the jurisdiction and/or department responsible for each action item. Additionally, all mitigation actions identified in the 2019 update or before were updated accordingly. Any new mitigation actions are listed as *New* (under Project Status).

The Town of Tully agreed upon **eight (8)** mitigation actions that apply to the jurisdiction's properties where they have jurisdictional responsibility and authority. Three (3) mitigation actions have been completed. A summary of the Town's mitigation actions status is listed in **Table 22**.

Table 22. Town of Tully Mitigation Action Summary

Status		Mitigation Action Total	
Continuous		6	
In Progress/Not Yet Completed		0	
No Progress/Not Yet Started		2	
New		0	
TOTAL		8	
Complete		3	
Discontinued		0	
Mitigation Actions per Hazard			
Drought	7	Harmful Algal Bloom	6
Earthquake	6	Invasive Species and Infestation (Emerald Ash Borer, Hemlock Woolly Adelgid, True Armyworm, Common Reed (Phragmites), Eurasian Watermilfoil, Water Chestnut, Tick-Borne Diseases, Mosquito-Borne Diseases)	6
Heat Wave/Extreme Heat	7	Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm, nor’easter)	7
Flood (riverine, flash/urban, ice jam, dam and levee failure)	7	Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold)	6
Geological Hazards (landslides, land subsidence, mudboils)	6	Wildfire (wildfire smoke)	6

A detailed explanation of the Mitigation Strategy can be found in Section 5 of **Volume 1**.



Mitigation Action	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction:					
	<ul style="list-style-type: none">• Provide and maintain links to the Onondaga County Hazard Mitigation Plan website, and regularly post notices on the municipal homepage referencing the Onondaga County Hazard Mitigation Plan webpages.• Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation.• Use the Town’s e-mail notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures.• Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding.					
	Action Number	TT-1	Goal(s) Addressed	1, 2, 3, 4, 5, 6	Prioritization Score	15/15
	Year Added to Plan	2013	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	High
	Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A		
Benefits <i>(Loss Avoided)</i>		Low				
Lead Agency / Organization		Town of Tully Zoning & Building Department	Supporting Agency / Organization <i>(If applicable)</i>	Onondaga County Department of Planning		
Additional Participating Jurisdictions <i>(If applicable)</i>		N/A				
Estimated Cost		Low	Potential Funding Source	General Fund (Staff Time)		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>		No	Additional Details <i>(optional)</i>			



Mitigation Action	Actively support and participate in the implementation, monitoring, maintenance, and updating of this Hazard Mitigation Plan, as outlined, and defined in Volume 1.				
Action Number	TT-2	Goal(s) Addressed	1, 2, 3, 4, 5, 6	Prioritization Score	15/15
Year Added to Plan	2013	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	High
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	Town of Tully Zoning & Building Department		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>			



Mitigation Action	Continue to maintain good standing and compliance under the National Flood Insurance Program (NFIP) through implementation and enforcement of floodplain management requirements that, at a minimum, meet the NFIP requirements. These include: <ul style="list-style-type: none">Enforce the flood damage prevention ordinance (e.g., regulating all new and substantially improved construction in Special Hazard Flood Areas).Participate in floodplain identification and mapping updates.Provide public assistance/outreach on floodplain requirements and impacts.				
Action Number	TT-3	Goal(s) Addressed	1, 2, 3, 4, 5, 6	Prioritization Score	15/15
Year Added to Plan	2013	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	High
Hazard(s) Mitigated		Flood, Severe Weather			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		Medium			
Lead Agency / Organization	Town of Tully Zoning & Building Department (Floodplain Administrator)		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>			



Mitigation Action	Develop and implement Town emergency plans.				
Action Number	TT-4	Goal(s) Addressed	1, 5, 6	Prioritization Score	15/15
Year Added to Plan	2013	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	High
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		Medium			
Lead Agency / Organization	Town of Tully Town Board		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>			



Mitigation Action	Develop, enhance, and maintain mutual aid agreements with surrounding municipalities and counties.				
Action Number	TT-5	Goal(s) Addressed	1, 5, 6	Prioritization Score	15/15
Year Added to Plan	2013	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	High
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	Town of Tully Town Board		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>			



Mitigation Action	Ensure stormwater infrastructure throughout the Town, prioritizing flood prone areas, remains up to the standards to ensure debris and silt does not clog culverts which can lead to flooding.				
Action Number	TT-6	Goal(s) Addressed	1	Prioritization Score	N/A
Year Added to Plan	2013	Timeline <i>(estimated)</i>	N/A	Implementation Priority	N/A
Hazard(s) Mitigated		Flood, Severe Weather			
Project Status		Complete	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		N/A			
Lead Agency / Organization	Town of Tully Highway Department		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	N/A	Potential Funding Source	N/A		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	N/A	Additional Details <i>(optional)</i>			



Mitigation Action	Develop and implement a community outreach and public education campaign for residents, businesses, and farmers to learn how to conserve water, particularly during drought events.				
Action Number	TT-7	Goal(s) Addressed	1, 2	Prioritization Score	8/15
Year Added to Plan	2019	Timeline <i>(estimated)</i>	3 to 6 Months	Implementation Priority	Medium
Hazard(s) Mitigated		Drought, Heat Wave/Extreme Heat			
Project Status		No Progress/Not Yet Started	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	Town of Tully Town Board		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), HMGP, BRIC		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>	Most residential properties in the Town are dependent on well water.		



Mitigation Action	Implement a community outreach campaign utilizing social media, the Town’s website, flyers, and inserts in tax bills to educate the public on the different hazards the Town is vulnerable to and how to prepare, respond, and recover. The community outreach campaign should include, but not be limited to, notifying residents via social media about upcoming extreme weather events and impacts, encouraging homeowners to install carbon monoxide alarms and smoke detectors, and educating residents that all fuel-burning equipment should be vented to the outside and installed per the manufacturer’s recommendations.				
Action Number	TT-8	Goal(s) Addressed	2, 4, 5	Prioritization Score	9/15
Year Added to Plan	2019	Timeline <i>(estimated)</i>	Ongoing	Implementation Priority	Medium
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Continuous	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		Low			
Lead Agency / Organization	Town of Tully Town Board		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), HMGP		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	No	Additional Details <i>(optional)</i>			



Mitigation Action	Acquire and install standby (backup) power (i.e., emergency generator) for the Town Hall. In the event of a power outage, the facility does not have backup power which is required in order to maintain Town operations during and after an emergency or disaster.				
Action Number	TT-9	Goal(s) Addressed	6	Prioritization Score	14/15
Year Added to Plan	2019	Timeline <i>(estimated)</i>	3 to 4 Years	Implementation Priority	High
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		No Progress/Not Yet Started	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		High			
Lead Agency / Organization	Town of Tully Town Board		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, BRIC		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	Yes	Additional Details <i>(optional)</i>	It is important to note that although this facility is a critical facility, it is not located in a SFHA; therefore, it is not listed in Section 9 of this Annex.		



Mitigation Action	Update the Comprehensive Plan as a joint Plan with the Village of Tully.				
Action Number	TT-10	Goal(s) Addressed	N/A	Prioritization Score	N/A
Year Added to Plan	2019	Timeline <i>(estimated)</i>	N/A	Implementation Priority	N/A
Hazard(s) Mitigated		Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire			
Project Status		Complete	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		N/A			
Lead Agency / Organization	Town of Tully Planning Board		Supporting Agency / Organization <i>(If applicable)</i>	Village of Tully Planning Board	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	N/A	Potential Funding Source	N/A		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	N/A	Additional Details <i>(optional)</i>			



Mitigation Action	Ensure that the Town’s National Flood Insurance Program (NFIP) Flood Maps are readily available for the public by prominently displaying the maps in the Town Hall and the Town website with additional information on the NFIP.				
Action Number	TT-11	Goal(s) Addressed	1, 2	Prioritization Score	N/A
Year Added to Plan	2019	Timeline <i>(estimated)</i>	N/A	Implementation Priority	N/A
Hazard(s) Mitigated		Flood			
Project Status		Complete	If <i>Discontinued</i> , provide reason.	N/A	
Benefits <i>(Loss Avoided)</i>		N/A			
Lead Agency / Organization	Town of Tully Zoning & Building Department (Floodplain Administrator)		Supporting Agency / Organization <i>(If applicable)</i>	N/A	
Additional Participating Jurisdictions <i>(If applicable)</i>	N/A				
Estimated Cost	N/A	Potential Funding Source	N/A		
Critical Facility <i>(Critical Facility located in 1% floodplain?)</i>	N/A	Additional Details <i>(optional)</i>			



APPENDIX A. HAZARD MAPS

The following hazard maps have been generated for the Town of Tully – [enter hazards here]. These maps are based on the best available data at the time of the preparation of this Plan and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of Tully has significant vulnerability.

Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]
Figure #	[Enter map name and description, if applicable]



APPENDIX B. LETTER OF INTENT

Statement of Intent to Participate in the 2024 Onondaga County Multi-Jurisdictional Hazard Mitigation Plan

The purpose of this letter is to establish commitment from, and a cooperative working relationship between, all participating jurisdictions in the development and implementation of the 2024 Onondaga County Multi-Jurisdictional Hazard Mitigation Plan (HMP). In addition, the intent of this form is to ensure that the Plan update is developed in accordance with Title 44 of the Federal Code of Regulations Part 201.6; that the planning process is conducted in an open manner involving community stakeholders; that it is consistent with each participating jurisdiction's policies, programs, and authorities; and that it is an accurate reflection of the community's values.

To meet this requirement and to help reduce the loss of life and damage to property in the event of a natural disaster, our municipality intends to participate in a federally funded grant initiative to update the 2024 Onondaga County Multi-Jurisdictional Hazard Mitigation Plan.

We understand that the planning process will include a limited number of meetings and/or calls between Planning Team representatives and representatives from participating municipalities and agencies. The subject of the meeting(s) will be to:

- Inform participants on the needs and methods for identifying and prioritizing hazards;
- Share information on hazards affecting local jurisdictions;
- Provide information related to local assets, plans/ordinances, hazard events and damages, new development, etc. within the jurisdiction; and
- Determine possible projects to reduce the impact of future incidents involving hazards which are prerequisites to municipalities later applying for hazard mitigation grant funds.

We recognize the importance of having an updated multi-jurisdictional hazard mitigation plan to help safeguard the lives and property of our citizens and commit to participating in this process with Onondaga County.

Name of Jurisdiction: Town of Tully

Name of Authorized Representative:

Benjamin Vincent

Signature of Authorized Representative:

Primary Point-of-Contact (POC):

Secondary Point-of-Contact (POC):

Name: Benjamin Vincent

Title: Code Enforcement Officer

Department: Building Code Dept.

Phone Number: 315 696-4693 Ext 19

Email: Tullycodes@outlook.com

Name: John Masters

Title: Town Supervisor

Department: Supervisor

Phone Number: 315 696-4693 Ext *2

Email: jmasters@twcny-rr.com

Please return this form to jefferyharrop@ongov.net, or mail to the Onondaga County Dept. of Planning, 335 Montgomery St, Syracuse, NY 13202. Questions, call Jeff at (315)435-2673.



APPENDIX C. PLAN ADOPTION

[Placeholder for adoption documentation after State and FEMA Approval]