2025 Hazard Mitigation Plan

Onondaga County, New York

Town of Onondaga Annex



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This Annex details the hazard mitigation elements specific to the Town of Onondaga, 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 Onondaga. 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 Onondaga 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
John Smith	Highway Superintendent	Highway Department
John Mahar	Town Supervisor	Town Board
Christopher Perdue	Code Enforcement Officer	Code Enforcement Department

2. MUNICIPAL PROFILE

The Town of Onondaga is centrally located in Onondaga County with a total area of 57.8 square miles. It is bordered by the Town of Geddes to the north, the Town of Camillus to the northwest, the City of Syracuse to the northeast, the Town of Lafayette to the southeast, the Town of Otisco to the south, the Town of DeWitt to the east, and the Town of Marcellus to the west.

There are several communities located within the Town – Cards Corners, Cedarvale (hamlet), Griffin's Corners, Gwilt's Corners, Howlett Hill (hamlet), Indian Village (hamlet), Ironsides, Joshua, Kellys Corners, Loomis Hill, Lord's Corners (hamlet), Navarino (hamlet), Nedrow (hamlet), Nichols' Corners (hamlet), Onondaga Castle (hamlet), Onondaga Nation Reservation, Onondaga Hill (hamlet), Sentinel Heights, South Onondaga (hamlet), Southwood (hamlet), Split Rock (hamlet), Taunton (hamlet), and Wellington Corner.

2.1. Population

In 2023, the Town of Onondaga had a population of 22,368, a 1.9% decrease from the estimated 2018 population of 22,797. **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.



Population				Unc	lerserved Populati	on
2010 ¹	2018 ²	20233	Population Change (2018 – 2023)	Youth ³ (Under 5 years old)	Elderly ³ (Over 65 years old)	Below Poverty Level ³
23,101	22,797	22,368	-1.9%	5.3%	22.0%	2.8%

Table 1. Population Trends

2.2. History and Cultural Resources

New Englander, Ephraim Webster, a former Revolutionary War soldier, came to this area in 1786 to trade with the Onondaga native people. Mr. Webster was the first settler to reside in the area, followed by other former soldiers, most notably Comfort Tyler and Asa Danforth. Other settlers soon followed, attracted by the abundance of natural resources and opportunity for growth in the area.

Unlike most towns in Onondaga County, the Town was not a part of the great Military Tract but a major portion of the original Onondaga Reservation. It was an area that was crisscrossed by numerous Indian trails. The Town of Onondaga was incorporated on April 2, 1798. It became the first County Seat in 1805, with the courthouse erected on Onondaga Hill.

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 Onondaga between 2019 and 2023.⁴

Type	2019	2020	2021	2022	2023
Single-Family Units	40	20	28	24	21
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	40	20	28	24	21

Table 2. Housing Units Built (2019 - 2023)

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

¹ United States Census Bureau. (2023). QuickFacts: Town of Onondaga. Retrieved from https://www.census.gov/quickfacts/fact/table/onondagatownonondagacountynewyork.

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=060XX00US3606754958.

³ United States Census Bureau. (2023). QuickFacts: Town of Onondaga. Retrieved from https://www.census.gov/quickfacts/fact/table/onondagatownonondagacountynewyork.

⁴ Data provided by the Onondaga County Department of Planning based on Real Property Data (2024).



geographic and market characteristics to be treated as a single place for purposes of further understanding the county housing market.

The Town of Onondaga is under the Outer Ring West sub-region. This sub-region has a larger proportion of non-elderly married couple families (38%). Total household growth between 2000 and 2020 was 13.7% (the average of all the County towns/villages was 12.0%). If demand continues to grow in the County, Outer Ring West is well positioned to capture a share of the growth. Overbuilding of typical single-family for sale products is a potential threat to market health as household growth tilts in the direction of rental while the growth in owner households comes from smaller and older households. Under a low growth scenario, it is likely that Outer Ring West would see a decrease in the total number of homeowners and a growing number of renter households. It is also likely that some conversion of owner-occupied houses to rental could occur. Market changes would happen gradually, with strong areas remaining strong for longer, and new single-family development would maintain a feeling of growth and success if it occurs. The degree and speed of stagnation, and possible market decline, would be dependent on the amount of typical sprawling ownership housing development in the County. The greater the number of units built for the ownership market, the higher the risk of rental conversion or vacancy of formerly owner-occupied houses.

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.

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)						
Hallinan Meadow	Hallinan Drive Onondaga, NY 13215	Residential	19	Geological Hazards	Complete	
Known or Anticipated Development in the Next Five (5) Years (2024 – 2029)						
Stonegate Heights (Section 2)	Mystic Drive Onondaga, NY 13215	Residential	18	Geological Hazards	Under Construction	

Table 3. Growth and Development

3.1. Changes in Priority

In the last five (5) years (i.e., since the last Plan update), the Town's Highway Department has increased maintenance of the Town owned drainage facilities and anticipates to continue this schedule. Furthermore, the Town established a two (2) year drainage repair contract with a local contractor for regular and emergency repairs. This will support demand as residential development is expected to increase throughout the Town. Additionally, 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 Onondaga'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	Town Board	Adopted on April 2017				
Capital Improvements Plan	No	N/A	N/A	N/A				
Floodplain Management / Basin Plan	No	N/A	N/A	N/A				
Stormwater Management Plan	Yes	Local	Building and Codes Department	Member of the Central New York (CNY) Stormwater Coalition				
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				



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.)
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
		Regulatory C	apability	
Building Code	Yes	State, Local	Building and Codes	Chapter 16 of the New York State Building Code
			Department	Chapter 80 of the Town Code
Zoning Ordinance	Yes	Local	Building and Codes Department	Chapter 285 of the Town Code
Subdivision Ordinance	Yes	Local	Building and Codes Department	Chapter 257 of the Town Code
NFIP Flood Damage Prevention Ordinance	Yes	Local	Building and Codes Department	Chapter 118 of the Town Code
NFIP: Cumulative Substantial Damages	No	N/A	N/A	N/A
NFIP: Freeboard	Yes	State, Local	Building and Codes 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	Planning Board	Chapter 285-23 of the Town Code
Stormwater Management Ordinance	Yes	Local	Highway Department	Chapter 249 of the Town Code



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.)
Municipal Separate Storm Sewer System (MS4)	Yes	State, County, Local	Highway Department	Permits are required for stormwater discharges from MS4s in urbanized areas and for construction activities disturbing one (1) or more acres. The Town has been automatically designated as a regulated MS4 and required to develop a comprehensive stormwater management program. Chapter 218 of the Town Code
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						
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	No	N/A					
Mutual aid agreements	No	N/A					



Capability	Yes/No	Position/Department/Agency
Technic	cal/Staffing Ca	pability
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Engineering Consultant
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Engineering Consultant
Planners or engineers with an understanding of natural hazards	Yes	Engineering Consultant
NFIP Floodplain Administrator	Yes	Code Enforcement Officer, Code Enforcement Department
Surveyor(s)	No	N/A
Personnel skilled or trained in GIS applications	Yes	Engineering Consultant
Scientist familiar with natural hazards	No	N/A
Warning systems/services	Yes	Onondaga County Emergency Communications (911)
Emergency Manager	No	N/A
Grant writer(s)	No	N/A
Staff with expertise or training in benefit/cost analysis	Yes	Director of Finance, Town Supervisor's Office
Professionals trained in conducting damage assessments	No	N/A

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.e., Hazard Mitigation Grant Program (HMGP), HMGP Post Fire, Building Resilient Infrastructure and Communities (BRIC), Flood Mitigation Assistance (FMA) Program)	Yes
Capital Improvements Project Funding	No
Authority to Levy Taxes for specific purposes	No
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	No



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

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	Yes	Communications Coordinator, Town Supervisor's Office
Personnel skilled or trained in website development	Yes	Communications Coordinator, Town Supervisor's Office IT Consultant (on call)
Hazard mitigation information available on the jurisdiction's website	No	N/A
Utilize social media for hazard mitigation education	Yes	Communications Coordinator, Town Supervisor's Office Facebook: facebook.com/townofonondaga/ Instagram: instagram.com/toorecreation/
Citizen boards or commissions that address issues related to hazard mitigation	Yes	Comprehensive Planning Committee Town Board Subcommittees
Other programs already in place that could be used to communicate hazard-related information	Yes	Town website, Town Newsletter, e-mail distribution list through Parks and Recreation Department/Senior Center
An established warning system for hazard events	Yes	Onondaga County Emergency Communications (911)

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 Onondaga.



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 4	-
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 Onondaga.

Table 9. Self-Assessment Capability for the Municipality

	Degree of Hazard Mitigation Capability		
Capability Area	Limited (If limited, what are your obstacles?)	Moderate	High
Planning and Regulatory Capabilities			X
Administrative and Technical Capabilities			X
Fiscal Capabilities			X
Education and Outreach Capabilities		X	
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 Onondaga 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 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.
- GIS capabilities should be expanded for spatial data creation, dataset management, and spatial data analysis which would help advance hazard mitigation initiatives.
- 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 Onondaga is a member of the National Flood Insurance Program (NFIP) but has chosen not to 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
360588	8/30/1974	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 Onondaga Floodplain Administrator information is listed in **Table 11**.

Table 11. Floodplain Administrator

Name	Title	Department	Phone Number
Christopher Perdue	Code Enforcement Officer	Code Enforcement Department	(315) 469-3144

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.⁵

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:⁶

- 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 Onondaga.

Table 12. Repetitive Loss and Severe Repetitive Loss Properties

Repetitive Loss Properties		Severe Repetitive Loss Properties	
Total	Occupancy	Total	Occupancy
2	2 Single Family	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 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 Unit = Non-residential unit within a multi-unit 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 Onondaga.

Table 13. NFIP Policies

NFIP Policies	Insurance in Force	Total Claims Paid	Sum of Claims Paid
21	\$12,684	31	\$247,317

5.3. Participation Activities

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

- Provides the following services permit review, GIS, inspections, and engineering capability.
- Teaches property owners or other stakeholders about the importance of flood insurance through public outreach events, workshops, and/or seminars.

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⁵ 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.

⁶ 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.



- 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 Onondaga's Flood Damage Prevention Chapter (Chapter 118 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. (Chapter 118 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. 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 118 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 Onondaga 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

Current Integration Description

Planning Initiative	Current Integration Description
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 Code Ordinance (Chapter 80 of the Town Code), Flood Damage Prevention Ordinance (Chapter 118 of the Town Code), Stormwater Management Ordinance (Chapter 249 of the Town Code), Zoning Ordinance (Chapter 285 of the Town Code), and the Subdivision Regulations (Chapter 257 of the Town Code).
Stormwater Management Plan The Town of Onondaga is a Municipal Separate Storm Sewer System (MS4) re community with a formal Stormwater Management Plan. The Stormwater Management Plan specifies the requirements to reduce the volume of stormwater and stormwater flooding.	



Planning Initiative	Current Integration Description
Local Budget	The Town includes a line item for mitigation projects/activities into the Municipal Budget.
Public Outreach	The Town's website provides information related to safety and hazard mitigation including local emergency response contact information, current project information, stormwater regulations, 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	
Master Plan	The Hazard Mitigation Plan should be incorporated in the next update of the Town' Master Plan to provide guidance for land use and development. Hazard mitigation goal could be aligned with the vision of the Master Plan and hazard risk assessment information could be used to address vulnerabilities.	
Ordinances	Hazard mitigation and resilience could be integrated into future updates of the zon building, subdivision, and stormwater management ordinances to inform appropriate of property within the Town. Portions of this Hazard Mitigation Plan should be review to consider any future improvements of the codes, if appropriate.	
Public Outreach	The Town could expand information available on the Town's website to include materion the hazards outlined in this Hazard Mitigation Plan and information on clima change impacts to the potential hazards. Furthermore, the Town can develop a implement community outreach programs that focus on natural hazards and haza mitigation.	

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. **Table 16** provides information on significant hazard events that uniquely impacted the Town of Onondaga.



Table 16. Hazard Event History

Date	Event Type (Disaster Declaration, if applicable)	Description
October 26, 2021	Flood	Deep moisture from the Atlantic Ocean was fed into a warm frontal zone located over central New York by a low pressure near New York City. This led to areas of moderate to heavy rainfall with totals ranging between three (3) to five (5) inches of rain with locally higher amounts. This rainfall led to widespread flash flooding across the southern tier and Finger Lakes region. The Town experienced widespread road flooding in the vicinity of Kirk Park.
August 17, 2021	Flood, Severe Weather	Above normal moisture over central New York combined with an area of low pressure moving over Lake Ontario resulted in numerous rounds of heavy rain producing thunderstorms during the afternoon. Weak frontal boundaries associated with the low pressure focused storms primarily over the Finger Lakes region where flash flooding was severe.
June 30 – July 1, 2015	Flood	An unseasonably strong storm system tapping into above normal moisture sources across the Great Lakes and northeast, triggered multiple thunderstorms that produced heavy rainfall across the region. Localized torrential rainfall in central New York caused serious urban flash flooding in the Syracuse metropolitan area. In the Town, a basement collapsed, Breckenridge asphalt surface peeled, and the Brookdale senior living facility flooded causing a short circuit in the attic which resulted in a fire.

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 17 outlines the *unique vulnerabilities and impacts* for the Town of Onondaga 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 17. Hazard Vulnerability and Impact Assessment

Hazard	Vulnerabilities and Impacts				
Drought	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to drought; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.				
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.				
Heat Wave/Extreme Heat	The Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to heat wave/extreme heat events; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.				



Hazard	Vulnerabilities and Impacts
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 Local Planning Team determined that the Town does not have unique vulnerabilities and impacts to winter weather; rather, the jurisdiction's vulnerability and impacts are consistent with those experienced throughout the County.
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 18 outlines if 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 18. Climate Change Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact		
Current Vulnera	bility and Impact		
Drought	Remained the Same		
Earthquake	Remained the Same		
Heat Wave/Extreme Heat	Increased		
Flood (riverine, flash/urban, ice jam, dam and levee failure)	Remained the Same		
Geological Hazards (landslides, land subsidence, mudboils)	Remained the Same		



Hazard	Vulnerability and Impact
Harmful Algal Bloom	Remained the Same
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)	Increased
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Increased
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	Remained the Same
Wildfire (wildfire smoke)	Remained the Same
Future Vulneral	bility and Impact
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Heat Wave/Extreme Heat	Increase
Flood (riverine, flash/urban, ice jam, dam and levee failure)	Increase
Geological Hazards (landslides, land subsidence, mudboils)	No Change Anticipated
Harmful Algal Bloom	No Change Anticipated
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)	Increase
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Increase
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	No Change Anticipated
Wildfire (wildfire smoke)	No Change Anticipated

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

Hazard	Vulnerability and Impact
Current Vulneral	bility and Impact
Drought	Remained the Same
Earthquake	Remained the Same
Heat Wave/Extreme Heat	Remained the Same
Flood (riverine, flash/urban, ice jam, dam and levee failure)	Remained the Same
Geological Hazards (landslides, land subsidence, mudboils)	Remained the Same
Harmful Algal Bloom	Remained the Same
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)	Increased
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Increased
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	Remained the Same
Wildfire (wildfire smoke)	Remained the Same



Hazard	Vulnerability and Impact
Future Vulneral	bility and Impact
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Heat Wave/Extreme Heat	Increase
Flood (riverine, flash/urban, ice jam, dam and levee failure)	No Change Anticipated
Geological Hazards (landslides, land subsidence, mudboils)	No Change Anticipated
Harmful Algal Bloom	No Change Anticipated
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)	No Change Anticipated
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Increase
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	No Change Anticipated
Wildfire (wildfire smoke)	No Change Anticipated

Table 20 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 20. Changes in Development Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact		
Current Vulnera	bility and Impact		
Drought	Remained the Same		
Earthquake	Remained the Same		
Heat Wave/Extreme Heat	Remained the Same		
Flood (riverine, flash/urban, ice jam, dam and levee failure)	Remained the Same		
Geological Hazards (landslides, land subsidence, mudboils)	Remained the same		
Harmful Algal Bloom	Remained the Same		
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)	Remained the Same		
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Remained the Same		
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	Remained the Same		
Wildfire (wildfire smoke)	Remained the Same		
Future Vulneral	oility and Impact		
Drought	No Change Anticipated		
Earthquake	No Change Anticipated		
Heat Wave/Extreme Heat	Increase		
Flood (riverine, flash/urban, ice jam, dam and levee failure)	Increase		
Geological Hazards (landslides, land subsidence, mudboils)	No Change Anticipated		
Harmful Algal Bloom	No Change Anticipated		



Hazard	Vulnerability and Impact
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)	No Change Anticipated
Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm)	Increase
Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold, nor'easter)	No Change Anticipated
Wildfire (wildfire smoke)	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. Although all assets may be affected by the hazards identified in this Hazard Mitigation Plan, the jurisdiction identified future major assets that may be more vulnerable and impacted by these hazards.

- There is new residential development in the Old Towne Estates (Cleveland Road), Brittany Hills, Crown Point (Southwood/Jamesville) areas, and on Harris Road, next to the Onondaga County Veterans Cemetery. Furthermore, increasing residential development is expected in Crown Point, Old Towne Estates, Tabitha Creek, Green Hills Manor (Nedrow), and Woodgate Heights (Split Rock). This increase in population as a result of the development will expose more people and structures to the hazards identified in this Plan, but most specifically to flood and severe weather.
- 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). 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, 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.⁸

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⁷ New York State Department of Environmental Conservation. (n.d.). Chapter V – Resource Management Services. Retrieved from https://dec.ny.gov/regulatory/regulatory/regulations/chapter-v.

⁸ 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



Table 21 identifies critical facilities in the community located in the 100-year and 500-year floodplain.

Table 21. Potential Flood Losses to Critical Facilities

		Exposure		Potential Loss from 100-Year Flood Event		Addressed by	
Name	Туре	100- Year	500- Year	% Structure Damage	% Content Damage	Proposed Action	
Veterans Memorial Cemetery	County Facility	X	X	20%	100%	TON-9	
National Grid Tanner Road Substation	Natural Gas	X	X	-	-	TON-10	

10. HAZARD RISK RANKING

Table 22 presents the local hazard ranking for the Town of Onondaga 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 22** 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 22. Town of Onondaga Hazard Risk Ranking

Hazard Event	Probability Factor	Sum of Weighted <u>Extent</u> Factors	Sum of Weighted <u>Vulnerability</u> Factors	Sum of Weighted <u>Impact</u> 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
Heat Wave/Extreme Heat	2	9	11	19	39	41
Drought	2	12	12	13	37	39
Flood (Urban/Flash Flood)	2	9	6	19	34	36



Hazard Event	Probability Factor	Sum of Weighted <u>Extent</u> Factors	Sum of Weighted <u>Vulnerability</u> Factors	Sum of Weighted <u>Impact</u> Factors	Consequence Score	Total Risk Score (Probability x Consequence)
Invasive Species and Infestation	2	9	6	18	33	35
Tropical Storm/Hurricane (Severe Weather)	1	9	16	24	49	27
Dam and Levee Failure (Flood)	1	12	6	27	45	25
Harmful Algal Bloom	1	9	10	20	39	23
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
Flood (Riverine/Creek, Ice Jam)	1	6	6	19	31	19
Landslide (Geological Hazards)	1	9	6	12	27	16
Land Subsidence (Geological Hazards)	1	3	6	12	21	13
Mudboils (Geological Hazards)	1	3	6	12	21	13
Wildfire (Wildfire Smoke)	1	3	6	11	20	13

Consequence: Sum of <u>all</u> weighted factors.

Extent: Sum of the weighted <u>Extent</u> factors.

Vulnerability: Sum of the weighted <u>Vulnerability</u> 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 Onondaga agreed upon **nine (9)** mitigation actions that apply to the jurisdiction's properties where they have jurisdictional responsibility and authority. One (1) mitigation action was completed. A summary of the Town's mitigation actions status is listed in **Table 23**.

Table 23. Town of Onondaga Mitigation Action Summary

Status		Mitigation Action Total				
Continuous		6				
In Progress/Not Yet Completed		3				
No Progress/Not Yet Started		0				
New		0				
	TOTAL	9				
Complete		1				
Discontinued		0				
Mitigation Actions per Hazard						
Drought	5	Harmful Algal Bloom				
Earthquake	5	Invasive Species and Infestation (Emerald Ash Borer, Hemlock Woolly Adelgid, True				
Heat Wave/Extreme Heat	6	Severe Weather (severe thunderstorms – hail, strong winds/damaging winds, tornadoes, hurricane/tropical storm, nor 'easter)				
Flood (riverine, flash/urban, ice jam, dam and levee 8 failure)		Winter Weather (blizzards, heavy snow, ice storms, cold wave/extreme cold)				
Geological Hazards (landslides, land subsidence, mudboils)	5	Wildfire (wildfire smoke)				

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



Mitigation Action		Where appropriate, support retrofitting or relocation of structures in high hazard areas, prioritizing structures that have experienced epetitive losses.							
Action Number	TON-1		N-1 Goal(s) Addressed		2, 3, 6	Prioritization Score	13/15		
Year Added to Plan	20	13	Timeline (estimated)		Ongoing	Implementation Priority	High		
Hazard(s)				d, Geological Hazards, Harm Veather, Winter Weather, Wi					
Projec	Project Status			If Di.	scontinued, provide reason.	N/A			
	n efits Avoided)		High						
Lead Agency / Orga	nization		Onondaga Building and des Department	Supporting Agency / Organization (If applicable)		N/A			
Additional Partici Jurisdictions (If ap					N/A				
Estimated Co	ost	High	Potential Fund Source	ing	General Fund (Staff Time)				
Critical Facili (Critical Facility located in 19		No	Additional Det	ails	Identify facilities that are viable candidates for retrofitting based on cost- effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.				



Mitigation Action	• Proving to hom • Prepavai imp • Use miti	In the facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the to promote and effect natural hazard risk reduction: Trovide and maintain links to the Onondaga County Hazard Mitigation Plan website, and regularly post notices on the municipal omepage referencing the Onondaga County Hazard Mitigation Plan webpages. Trepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the vailability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and instruction multipation. Use the Town's e-mail notification systems and newsletters to better educate the public on flood insurance, the availability of nitigation 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 f mitigation grant funding.							
Action Number	TO	N-2	Goal(s)	Addressed	1	1, 2, 3, 4, 5, 6	Prioritization Score	15/15	
Year Added to Plan	20	13		meline stimated)		Ongoing	Implementation Priority	High	
Hazard(s)) Mitigated		Drought,				d, Geological Hazards, Harm Veather, Winter Weather, Wi		
Projec	t Status		If Discontinued, provide reason. N/A					'A	
	nefits Avoided)					L	ow		
Lead Agency / Orga	Lead Agency / Organization Town of Onondaga Bu Codes Departm			Supporting Agency / Organization (If applicable)		Onondaga County Department of Planning			
Additional Partici Jurisdictions (If ap			N/A						
Estimated Co	ost	Low	ow Potential Funding General Fund (Staff Time)				ne)		
Critical Facil (Critical Facility located in 19		No	A	Additional Deta (optional)	ails				



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	TO	N-3	Goal(s) Addressed		1, 2, 3, 4, 5, 6	Prioritization Score	15/15		
Year Added to Plan	20	13	Timeline (estimated)		Ongoing	Implementation Priority	High		
Hazard(s) Mitigated Drought, Earthquake, Heat Wave/Extreme Heat, Flo Species and Infestation, Severe									
Projec	Project Status			If Dis	scontinued, provide reason. N/A				
201	nefits Avoided)		High						
Lead Agency / Orga	nnization		Onondaga Building and des Department		pporting Agency / Organization (If applicable) N/A				
Additional Partici Jurisdictions (If ap					N/A				
Estimated Co	ost	Low	Potential Fund Source	ing		General Fund (Staff Time)			
Critical Facility (Critical Facility located in 19		No	Additional Details (optional)						



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: • 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	TO	N-4	Goal(s) Addressed	1	1, 2, 3, 4, 5, 6	Prioritization Score	15/15		
Year Added to Plan	2013		Timeline (estimated)		Ongoing	Implementation Priority	High		
Hazard(s) Mitigated				Flood, Severe Weather					
Projec	Project Status			If Dis	scontinued, provide reason.	N/	A		
	e fits Ivoided)		Medium						
Lead Agency / Orga	nization	Codes De	Onondaga Building and epartment (Floodplain administrator)		orting Agency / Organization (If applicable)	ganization N/A			
Additional Partici Jurisdictions (If ap)					N/A				
Estimated Co	st	Low	Potential Fund Source	ling	General Fund (Staff Time)				
Critical Facility (Critical Facility located in 19		No	Additional Det	ails					



Mitigation Action	Develop, enh	Develop, enhance, and implement existing Town emergency plans.							
Action Number	TO	N-5	Goal(s) Addressed		1, 6	Prioritization Score	15/15		
Year Added to Plan	2013		Timeline (estimated)		Ongoing	Implementation Priority	High		
Hazard(s)			Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire						
Projec	Project Status			If Di	scontinued, provide reason. N/A				
201	nefits Avoided)		High						
Lead Agency / Orga	nnization	Town of 0	Onondaga Town Board		pporting Agency / Organization (If applicable) N/A				
Additional Partici Jurisdictions (If ap				·	N/A				
Estimated Co	ost	Low	Potential Funding Source		General Fund (Staff Time)		ne)		
Critical Facility (Critical Facility located in 19		No	Additional Details (optional)						



Mitigation Action	Develop, enh	Develop, enhance, and maintain mutual aid agreements with surrounding municipalities and counties.							
Action Number	TO	N-6	Goal(s) Addressed		1, 5, 6	Prioritization Score	15/15		
Year Added to Plan	2013		Timeline (estimated)		Ongoing	Implementation Priority	High		
Hazard(s)			Drought, Earthquake, Heat Wave/Extreme Heat, Flood, Geological Hazards, Harmful Algal Bloom, Invasive Species and Infestation, Severe Weather, Winter Weather, Wildfire						
Projec	Project Status			If Di.	scontinued, provide reason. N/A				
201	nefits Avoided)		High						
Lead Agency / Orga	nization	Town of 0	Onondaga Town Board		Organization (If applicable) N/A				
Additional Partici Jurisdictions (If ap)				•	N/A				
Estimated Co	ost	Low	Potential Funding Source		General Fund (Staff Time)		ne)		
Critical Facility (Critical Facility located in 19		No	Additional Details (optional)						



Mitigation Action		Acquire and install standby (backup) power (e.g., generator) for the Highway Department garage because the critical facility does not have a backup power source in the event of extreme weather. Power loss results in interruptions to the operations.							
Action Number	TO	N-7	Goal(s) Addressed		1, 6	Prioritization Score	13/15		
Year Added to Plan	20	19	Timeline (estimated)		1 to 4 Years	Implementation Priority	High		
Hazard(s)		Heat	Heat Wave/Extreme Heat, Severe Weather, Winter Weather, Wildfire						
Project Status			In Progress/Not Yet Completed	If Dis	continued, provide reason. N/A				
241	nefits Avoided)		High						
Lead Agency / Orga	nnization	Town o	f Onondaga Highway Department		upporting Agency / Organization (If applicable) N/A		A		
Additional Partici Jurisdictions (If ap					N/A				
Estimated Co	ost	Medium	Potential Fund Source	ing	General Fund (Staff Time), HMGP, BRIC				
Critical Facility (Critical Facility located in 19		Yes	Additional Det (optional)	ails	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	Upsize the cu	ılvert at Fox R	oad, currently undersized at	t 15 inch	es, to a 24-inch culve	ert to mitigate the severity of f	flooding in the area.	
Action Number	TO	N-8	Goal(s) Addressed		1	Prioritization Score	N/A	
Year Added to Plan	20	19	Timeline (estimated)		N/A	Implementation Priority	N/A	
Hazard(s)			Flood, Severe Weather					
Projec	t Status		Complete	If Dis	scontinued, provide reason.	A		
	nefits Avoided)		N/A					
Lead Agency / Orga	nnization	Town o	f Onondaga Highway Department		pporting Agency / Organization (If applicable) N/A			
Additional Partici Jurisdictions (If ap					N/A			
Estimated Co	ost	N/A	Potential Fund Source	ling	ing N/A			
Critical Facility (Critical Facility located in 19		N/A	Additional Det (optional)	ails				



Mitigation Action	Encourage th	Encourage the retrofit of the Veterans Memorial Cemetery to the 500-year flood level by discussing mitigation options with the Bridge owner.							
Action Number	TO	N-9	Goal(s) Addressed		1, 2	Prioritization Score	9/15		
Year Added to Plan	20	19	Timeline (estimated)	3	3 to 6 Months	Implementation Priority	Medium		
Hazard(s)			Flood, Severe Weather						
Projec	Project Status			If Di.	scontinued, provide reason. N/A				
201	nefits Avoided)		Low						
Lead Agency / Orga	nnization	Codes D	Onondaga Building and epartment (Floodplain Administrator)		Supporting Agency / Organization (If applicable) N/A		A		
Additional Partici Jurisdictions (If ap					N/A				
Estimated Co	ost	Low	Potential Funding Source		General Fund (Staff Time)		ne)		
Critical Facil (Critical Facility located in 19		Yes	Additional Det (optional)	ails	The Cemetery is located in the 100-year floodplain. The Town does not have jurisdiction over the facility.				



Mitigation Action	_	Encourage and Support the National Grid to retrofit the Tanner Road Substation to the 500-year flood level by discussing mitigation options with the facility operator/owner.							
Action Number	TOI	N-10 Goal(s) Addressed			1, 2	Prioritization Score	9/15		
Year Added to Plan	20	19	Timeline (estimated)	3	3 to 6 Months	Implementation Priority	Medium		
Hazard(s)			Flood, Severe Weather						
Projec	Project Status			If Di.	continued, provide reason. N/A				
	nefits Avoided)			Low					
Lead Agency / Orga	nnization	Codes D	Onondaga Building and epartment (Floodplain Administrator)		Opporting Agency / Organization (If applicable) National Grid		al Grid		
Additional Partici Jurisdictions (If ap					N/A				
Estimated Co	ost	Low	Potential Fund Source	ing	General Fund (Staff Time)				
Critical Facil (Critical Facility located in 19		Yes	Additional Det	ails	The substation is located in the 100-year floodplain. The Town does not have jurisdiction over the facility; therefore, the Town will contact the facilities manager and discuss options for retrofitting the facility.				



APPENDIX A. HAZARD MAPS

The following hazard maps have been generated for the Town of Onondaga — [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 Onondaga 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 ONONDAGA

Name of Authorized Representative:

JOHN SMITH

Primary Point-of-Contact (POC):

Name: JOHN SMITH

Title: HIGHWAY SUPERINTENDENT
Department: HIGHWAY DEPARTMENT
Phone Number: 315 263-4911

Email: JSMITH@TOWNOFONONDAGA.GOV

Signature of Authorized Representative:

Secondary Point-of-Contact (POC):

Name: JOHN MAHAR

Title: TOWN SUPERVISOR

Department: TOWN HALL

Phone Number: 315 877-1955

Email: JMAHAR@TOWNOFONONDAGA.GOV

Please return this form to <u>jefferyharrop@ongov.net</u>, 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]