

# Town of Scriba

This section presents the jurisdictional annex for the Town of Scriba for the 2025 Oswego County Hazard Mitigation Plan (HMP). It includes information and guidance intended to assist public and private entities in reducing losses from future natural hazard events. This jurisdictional annex focuses on actions that can be implemented prior to a natural hazard event to reduce adverse impacts to people and property; it is not intended to serve as guidance for what to do when a natural hazard event occurs or how to recover following a natural hazard event. This jurisdictional annex provides an overview of the community and its critical facilities, evaluates the community's vulnerability to various natural hazards, assesses the community's existing capability to mitigate natural hazards, and identifies actions that could be implemented to mitigate natural hazard risks and, ultimately, reduce damages to people and property resulting from natural hazard events.

## 1 CONTACT INFORMATION

The primary contacts for Oswego County regarding this Jurisdictional Annex are identified as follows:

- Primary: Kelly Lagoe, Town Supervisor | scribasupervisor@gmail.com, 315-343-3019]
- Alternate: Mike Barry, Highway Superintendent | scribahighway@gmail.com, 315-593-9785

Town Website: <https://www.scribany.org/>

## 2 COMMUNITY SNAPSHOT

### 2.1 Demographics

The 2020 Census estimated that 6,617 people live in the Town of Scriba. The Town's population has decreased by 3.3% since the 2010 Census (6,840). The median age in the Town is 44.6 years and 17.0% of the population is over the age of 65. The median household income in the Town is \$68,712.

### 2.2 Location & Land Characteristics

The Town of Scriba is located in the northwestern portion of Oswego County and is bordered by Lake Ontario to the north, the Town of New Haven to the east, the Town of Volney to the south, and the Town of Minetto and City of Oswego to the west. The Town covers approximately 40.6 square miles. The properties within the Town have a total assessed value of approximately \$2246001105, which is distributed across a variety of property classes.

Major transportation corridors in the Town include SR 481, SR 104, CR1, CR 1A, CR 4, and CR 57, as described in Section 2.4 of the main body of the HMP. Key water features within the Town include Lake Ontario, Paddy Pond, Crooks Pond, Oswego River, White Creek, and Black Creek.

## **2.3 Governing Body**

The Town of Scriba is governed by a Town Board consisting of a supervisor and 4 board members.

## **2.4 Recent and Anticipated Future Development**

According to a review of 239 Referrals since the last County HMP (2020), new developments have been approved or proposed within the Town. The proposals that the Town received are summarized in Table 2-1 below. At least 6 of the proposals for the Town are located in the Special Flood Hazard Area (1% annual chance flood event area) or the Moderate Flood Hazard Area (0.2% annual chance flood event area). These developments may affect the Town's vulnerability to the hazards identified in this HMP.

Table 2-1. Developments from 2020 to 2023

Date	Request	Location	Applicant	Referring Agency	Decision	Located in 1% or 0.2% Annual Chance Flood Event Area?
4/9/20	Site Plan Review	CR 1A	Novelis Corporation	Planning Board	Approval with Modifications	Yes
9/14/20	Site Plan Review	SR 104	J&A electrical	Planning Board	No Significant Community Impact	Unspecified
1/22/21	Site Plan Review	CR 57 and Muni boundary	Smiedy Small Engine Repair	Planning Board	No Significant Community Impact	Yes
2/22/21	Site Plan Review	CR 4	Shadow Brook Senior Housing, LLC	Planning Board	Approval with Modifications	No
11/19/21	Site Plan	NYS Route 104	GSPP 5059 State Route 104, LLC	Town Attorney		Unspecified
5/5/22	Site Plan Review	County Route 1A	Novelis Corporation		No Significant Community Impact	Yes
8/3/22	Site Plan Review	County Route 4	Walpole Brothers Properties		Denial w/o Prejudice	No
9/7/22	Site Plan Review	NYS Route 104	Kens Body Shop		No Significant Community Impact	No
10/31/22	Site Plan Review	County Route 29	Boilermakers Local 5		Approval with Modifications	No
5/23/23	Site Plan Review	County Route 4	Walpole Brothers Properties	Kevin Caraccioli	approval	No
8/5/23	Site Plan Review	Municipal Boundary/county/state road, agricultural district	Aaron Standish	Kevin Caraccioli	approval	No

Date	Request	Location	Applicant	Referring Agency	Decision	Located in 1% or 0.2% Annual Chance Flood Event Area?
8/5/23	Site Plan Review	Municipal Boundary/county/state road, agricultural district	locavor at burritt motors llc	Kevin Caraccioli	approval with modification	No
8/21/23	Site Plan Review	County Route 1a	Novelis Corporation	Kevin Caraccioli	approval with modifications	Yes
8/31/23	Site Plan Review	Municipal Boundary, State/County Road	Page Warehousing Oswego, LLC	Kevin Caraccioli	approval	No
10/3/23	Site Plan Review	CR 448	Bell Atlantic Mobile Systems. LLC d/b/a Verizon Wireless	Kevin Caraccioli	approval	Yes
10/9/23	Site Plan Review	Municipal Boundary/county/state road, agricultural district	locavor at burritt motors llc	Kevin Caraccioli	approval	No
11/16/23	Site Plan Review	Lake Ontario	Nine Mile Point, LLC	Kevin Caraccioli	Approval	Yes
11/16/23	Site Plan Review	ST.Rt104	Robert Andrews	Kevin Caraccioli	Approval	Unspecified

Other current or future developments in the Town of Scriba that did not go through the 239 referral process but were mentioned during the municipal facilitation meeting include: some upcoming solar projects on Hammonds corner (RIC); expansion of Novelis; a new warehouse for a trucking company (Page) on CR1; Chase Enterprises is expanding; a quarry at CR4 and Paddy Lake (Warren Mine and Gravel Company). The Town did not indicate that any of the proposed developments are in floodplains.

# 3 CAPABILITIES ASSESSMENT

## 3.1 Planning Mechanisms and Capabilities

The Town of Scriba identified the following planning mechanisms and capabilities that can support the Town in hazard mitigation efforts. These capabilities can be used to support the mitigation strategy in several ways. For example, administrative capabilities can assist in implementing the mitigation actions as identified in the mitigation strategy. Existing building codes and land use regulations provide a foundation for mitigation planning and provide guidelines for infrastructure repair, new developments, and other actions. Educational programs may be developed further in order to more fully incorporate hazard mitigation. Table 3-1 elaborates on existing building codes, land use and development ordinances/regulations, and many other capabilities which can support hazard mitigation.

Table 3-1. Planning Mechanisms & Capabilities

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
<b>Administration</b>		
Maintenance Programs	Yes	Highway department: Storm drainage; ditch; National grid does vegetation department
Mitigation Planning Committee	No	
Mutual Aid or Shared Services Agreements	Yes	County; City; MOU for inter-municipal
Planning Board	Yes	
Zoning Board	No	
<b>Development Approvals</b>		
Building Code	Yes	NYS Standards
Fire Department ISO Rating	Yes	3/3Y
Site Plan Review Requirements	Yes	
<b>Funding Resources</b>		
Authority to Levy Taxes	Yes	
Capital Improvement Project Funds	No	
Federal Funding Programs (i.e., USDA, FEMA, others)	Yes	FEMA-4348 DY-NY (break wall project); ARPA (on 104 water tank)
General Obligation Bonds and/or Special Tax Bonds	No	
Impact Fees for New Development	Yes	Community Solar Hosting Fee
State Funding Programs (i.e., NYSEFC, NYSOGR, NYSDEC, others)	No	
Utility Fees (i.e., water, sewer, stormwater, gas, electric)	Yes	Water and Sewer

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
<b>Land Use Regulations</b>		
Density Controls	No	
Flood Insurance Rate Maps	Yes	2023
NFIP Participant / Floodplain Ordinance	Yes / Yes	Administrator is code enforcement officer
Hillside Development Regulations	Yes	Follows state/building code regulations; and local law (site plan review ordinance)
Open Space Preservation	No	
Stormwater Management Regulations	Yes	
Streambank Setback Regulations	Yes	On Oswego River
Subdivision Regulations	Yes	
Zoning Ordinance	No	Use site plan review local law
<b>Natural Resources</b>		
Forest/Vegetation Management	No	
Stream Corridor Management	Yes	
Stream Dumping Regulations	No	Follows DEC Regulations
Urban Forestry and Landscape Management	No	
Watershed Management	Yes	Watershed Protection Plan
Wetland Regulations	No	Follows DEC Regulations
<b>Plans</b>		
Capital Improvement Plan	No	
Comprehensive Emergency Management Plan	Yes	Updated 2019
Comprehensive Plan	Yes	2023
Continuity of Operations Plan	No	
Economic Development Plan	No	
<b>Programs/Organizations</b>		
Climate Smart Community	No	
Local Emergency Preparedness / Disaster Response Organizations	Yes	Red Cross; Fire Department
Local Environmental Protection Organizations	No	
National Weather Service StormReady Certification	Yes	Via the county
Outreach Programs	No	City does this
Partnerships with private entities addressing mitigation or disaster response	No	Novelis address this as part of the county mutual aid program
School Programs or Adult Educational Programs	No	City helps with this

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
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Staff Positions		
Civil Engineer	Yes	C2AE;
Code Enforcement Officer	Yes	2 part time
Emergency Manager	Yes	Town Supervisor
Floodplain Administrator	Yes	Code Enforcement Officer
Planner/GIS Coordinator	No	

Technical Abilities		
Grant Writing	Yes	Contracted out (LaBella)
Hazard Information Centers	No	
Hazard Warning Systems	Yes	HyperReach; Town Website; Fire Dept Billboard; Sheriff's department has mobile billboard

## 3.2 Integration of Planning Efforts

The Town of Scriba understands the importance of considering an integrated approach when developing municipal plans, policies, programs, and regulations. The Town intends to reference the 2025 Oswego County HMP as part of the process for future updates to the plans, policies, programs, and regulations listed in Table 3-1, above, and for creating new regulations as applicable. This may include adding hazard mitigation as an agenda item at Town Board meetings where local laws are being developed or updated, including hazard mitigation considerations in any templates used to make new laws, adopting an ordinance that all new local laws need to consider hazard mitigation if applicable, or simply making local officials aware of the need to consider hazard mitigation in any plan updates. Additionally, the Town of Scriba may use the local laws assessment (included in Section 4 of the main body of the HMP) to reference hazard mitigation related regulations that other jurisdictions in the County have adopted, and consider implementing similar regulations if desired.

# 4 HAZARD IDENTIFICATION AND RISK ASSESSMENT

## 4.1 Profiled Hazards

The following scale was developed to determine hazard vulnerability for the jurisdiction. Each event was given a ranking from one (1) through three (3) for the severity of impact based on extent, onset warning, impact in damages and injury, and frequency: three (3) represents the greatest impact (large area, no warning, severe damage, and regular occurrence); two (2) represents moderate impact (several locations, hours of warning, moderate damage, and infrequent occurrence); and one (1) represents low impact (one location, days of

warning, minor damage, and rare occurrence). The scores for each of these four (4) categories were used to assign an overall vulnerability for each hazard, as follows:

- Low: 5 or less
- Moderate: 6 to 8
- High: 9 or greater

The hazard analysis criteria used to evaluate the Town's vulnerability to each natural hazard are summarized in *Table 4-1*, and the results are presented in *Table 4-2*.

Table 4-1. Hazard Analysis Criteria

Score	Impact (Damage to property, crops, people)	Frequency	Extent	Amount of Warning	Total Score	Overall Vulnerability
1	Minor	Rare	One or two problem areas within the jurisdiction	Days of Warning	4 to 5	Low
2	Moderate	Infrequent	A significant portion of the jurisdiction	Hours of Warning	6 to 8	Moderate
3	Major	Regular	The entire jurisdiction	No Warning	9 to 12	High

Table 4-2. Hazard Vulnerability by Event

Hazard Event	Impact (Damage to property, crops, people, etc.)	Frequency of Occurrence	Extent of Impacts	Amount of Warning	Overall Vulnerability	Jurisdiction Rank	Notes (Anticipated Future Changes)
Ice Storm	3	2	3	2	10 (high)	1	
Severe Thunderstorm/ Windstorm/ Hail	2	3	2	2	9 (high)	2	
Flooding	3	1	2	2	8 (moderate)	3	
Severe Winter Storm	2	2	3	1	8 (moderate)	4	
Ice Jam*	2	2	1	1	6 (moderate)	5	

\*The Town included ice jams as a profiled hazard due to its proximity to waterways prone to winter ice accumulation, which can obstruct flow, cause localized flooding, and threaten infrastructure and nearby properties.

**Extreme Temperatures:** The Town did not profile extreme temperatures as a hazard because historical data indicates minimal local impacts on infrastructure, public health, or essential services.

## 4.2 Hazard Event History

A complete history of natural hazard events within the County – based on NOAA’s Severe Storm Database – is included in Section 6 of the main body of the HMP. The following is a subset of events that occurred specifically within the Town/Village. These records informed the development of mitigation actions by demonstrating which hazards have historically had the greatest impact on the Town.

Table 4-3. Hazard Event Records, 2013-2023

Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	7/13/2021	51	\$2,000	
Thunderstorm Wind	7/8/2014	55	\$18,000	-
Hail	8/10/2008	1.25	\$10,000	\$10,000
Hail	8/10/2008	1.25	\$10,000	\$10,000
Hail	7/24/2008	1	\$5,000	\$5,000
Thunderstorm Wind	1/9/2008	50	\$8,000	-
Thunderstorm Wind	5/27/2001	50	\$15,000	-
Thunderstorm Wind	8/31/1995	0	\$6,000	-
<b>Total</b>			<b>\$68,000.00</b>	<b>None Reported</b>

Note: The table above lists only the hazard events that were recorded as occurring specifically within the Town. For records of County-wide hazard events, see the Oswego County Annex.

## 4.3 Floodplain Statistics

Key waterways in the Village are described in Section 2.2. FEMA provides flood insurance rate maps for the municipality and GIS data on the spatial location of floodplains. The 1% annual chance (100-year) flood event area generally corresponds with areas that are at high risk of flooding, and the 0.2% annual chance (500-year) flood event area generally corresponds with areas that are at moderate risk of flooding. Out of the 26,015 acres in the Town, approximately 2.72% are located within the 1% annual chance flood event area and approximately 0.01% are located within 0.2% annual chance flood event area. The estimated number and structure value of parcels in the municipality that intersect mapped floodplains are summarized in Table 4-5. 476 parcels in the Town are located within the 1% annual chance flood event area, with an estimated total structure value of \$588,119,398. 251 parcels in the Town are located within the 0.2% annual chance flood event area, with an estimated total structure value of \$561,617,624.

Table 4-4. Summary of Areas in Floodplains

Town of Scriba Total Area (acres)	Percentage of Total Area		
	100-Year Floodplain	500-Year Floodplain	Area of Minimal Flood Hazard
<b>26,015</b>	2.72%	0.01%	97.27%

Table 4-5. Estimated Number and Structure Value of Parcels within Floodplains

Property Class	Parcels in 100-Year Floodplain	Approx. Structure Value* in 100-Year Floodplain	Parcels in 500-Year Floodplain	Approx. Structure Value* in 500-Year Floodplain
Agriculture	27	\$826,200	2	\$0
Residential	282	\$24,233,200	173	\$14,414,460
Vacant Land	128	\$128,000	56	\$45,400
Commercial	13	\$6,796,341	9	\$6,325,081
Recreation	2	\$640,000	0	\$0
Community Services	12	\$4,106,200	8	\$3,987,700
Industrial	1	\$14,125,600	0	\$0
Public Services	11	\$537,263,857	3	\$536,844,983
Parks, forested, conservation	0	\$0	0	\$0
<b>Total</b>	<b>476</b>	<b>588,119,398</b>	<b>251</b>	<b>\$561,617,624</b>

\* Structure Value estimated by subtracting parcel Land Assessed Value from Total Assessed Value

### 4.4 National Flood Insurance Program

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

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

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

1. Creates safer environments by reducing loss of life and decreasing property damage;
2. Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner’s investment); and
3. Lessens the financial impacts on individuals, communities, and other involved parties (<https://www.fema.gov/flood-insurance>).

The Town of Scriba currently participates in the NFIP (community ID 360663B), and its current FIRM(s) became effective on 11/16/2023. The Town joined the NFIP on this same date. There were no compliance issues identified in this hazard mitigation planning process. The Town will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in special flood hazard areas, among other required duties. Staff capabilities to implement the NFIP and local floodplain regulations are listed in Table 3-1 of this annex.

According to NFIP claims data provided by FEMA, there is 1 repetitive loss property in the Town of Scriba. Such properties have had at least two paid flood losses of more than \$1,000 each in any 10-year period since 1978.

## 4.5 Considerations for Future Hazards

No concerns about future changes in hazard impacts specific to the Town were identified during the hazard mitigation planning process. The effects of climate change and other factors on future hazard events in Oswego County are covered in more detail in Section 6 of the main body of the HMP.

Climate change predictions depend on the amount of global greenhouse gas emissions, as well as other factors. However, based on the [Climate Mapping For Resilience and Adaptation tool](#), it is predicted that Oswego County will experience:

- **More extreme heat** (14 to 20 days per year above 90 degrees Fahrenheit by mid-century [2035-2064], compared with 12 to 17 days per year in modeled history [1976-2005], according to mid-level projections).
- **Slightly more dry days** (4.9 to 6.9 more days per year with no precipitation by mid-century [2035-2064], compared with 1976-2005, according to mid-level projections. Maximum consecutive dry days increases by 0.5 to 0.8 days per year for the same time period).
- **Slightly fewer wet days, but slightly more heavy precipitation events** (4.9 to 6.9 fewer days per year with any precipitation by mid-century [2035-2064], compared with 1976-2005, according to mid-level projections. 5.6 to 6.0 days per year that exceed 99th percentile precipitation by mid-century, compared to 4.1 to 4.2 days per year from 1976-2005; 47.9 to 48.4 inches of average annual total precipitation by mid-century [2023-2064], an additional 2.2 to 2.7 inches per year average annual total precipitation compared with 1976-2005).
- **Fewer cold days** (35.1 to 31.5 days per year with maximum temperature below 32 degrees Fahrenheit by mid-century [2035-2064], compared with 10.8 to 18.1 days per year in modeled history [1976-2005], according to mid-level projections).

# 5 ASSETS AND VULNERABILITIES

## 5.1 Critical Facilities

Critical facilities include any facility that is critical for emergency response or that requires a special emergency response in the event of hazardous incidents as identified by the Town of Scriba. These critical facilities include community lifelines, such as fire departments, EMS services, police stations, water and

wastewater services, medical facilities, highway garages, and hazardous materials. They also include facilities such as Town and Village halls, schools, and senior centers. In the hazard mitigation planning process, each jurisdiction ultimately decided which facilities they consider to be critical facilities for their community.

Table 5-1 denotes the name, type, and location of the critical facilities within the Town of Scriba, and any particular vulnerabilities of note. More information about hazard vulnerability, including a tool for understanding the vulnerability of community assets to events of varying magnitudes, is included in Section 7 of the main body of the HMP. Additional vulnerabilities by location are assessed in the HAZUS analysis, included in the appendices of the HMP.

Table 5-1. Critical Facilities

Facility Name	Facility Type	Address	In Flood Area?	Protected to a flood event or worst?	If it is not protected, identify action or why infeasible.	Other Vulnerable Hazards
Sithe Independence Station	Public Utility	County Rt 51A	No			
Radio Tower	Public Utility	101 Dutch Ridge Rd, Oswego, NY 13126	No			
National Grid power line corridor	Public Utility	throughout Town	No			
Cell Tower	Public Utility	634 Middle Rd, Oswego, NY 13126	No			
Cell Tower	Public Utility	205 Nine Mile Point Rd, Oswego, NY 13126	No			
National Grid Substation	Public Utility	off of CR 1A	No			
Constellation Energy (Nine Mile Point Nuclear Site, LLC)	Public Utility	off of Lake Rd	No			
Water System Pump Station	Public Utility	off of Dutch Ridge Rd	No			
Water Tower	Public Utility	off of CR 176	No			
Water Tower	Public Utility	off of NY-104	No			
Water Tower	Public Utility	off of CR 51A	No			
Verizon NY, Inc. Property	Public Utility	108 Churchill Rd, Oswego, NY 13126	No			
Water Tower	Public Utility	off of CR-1	No			
Town Hall	Municipal Services	42 Creamery Rd, Oswego, NY 13126	Yes	No	Assess the structure for resilient retrofit opportunities and assess the property for resilient site improvements.	
Town Highway Garage	Municipal Services	42 Creamery Rd, Oswego, NY 13126	No			

Facility Name	Facility Type	Address	In Flood Area?	Protected to a flood event or worst?	If it is not protected, identify action or why infeasible.	Other Vulnerable Hazards
Town Justice Center	Municipal Services	45 Creamery Rd, Oswego, NY 13126	Yes	No	Assess the structure for resilient retrofit opportunities and assess the property for resilient site improvements.	
Town Water Dept.	Municipal Services	41 Creamery Rd, Oswego, NY 13126	Yes	No	Assess the structure for resilient retrofit opportunities and assess the property for resilient site improvements.	
Scriba Town Park	Municipal Services	803 O'Connor Rd, Oswego, NY 13126	No			
Sunset Bay Park	Municipal Services	Lake Rd, Oswego, NY 13126	Yes	No	Assess the structure for resilient retrofit opportunities and assess the property for resilient site improvements.	
Scriba Fire Dept.	Emergency Services	5618 NY-104, Oswego, NY 13126	No			
Novelis	Industrial	448 County Rt 1A, Oswego, NY 13126	Yes	Unknown	Assess the structure for resilient retrofit opportunities and assess the property for resilient site improvements.	
Constellation Energy (Nine Mile Point Nuclear Site, LLC)	Industrial	268 Lake Rd, Oswego, NY 13126	Yes	Unknown	Constellation has performed Study and have action plans in place	

Facility Name	Facility Type	Address	In Flood Area?	Protected to a flood event or worst?	If it is not protected, identify action or why infeasible.	Other Vulnerable Hazards
Constellation Energy (Nine Mile Point Nuclear Site, LLC)	Industrial	348 Lake Rd, Oswego, NY 13126	Yes	Unknown	Constellation has performed Study and have action plans in place	

For facilities that are not protected to a 0.2% annual chance (500-year) flood event or previous worst case flood event, namely Town Hall; Town Justice Center; Town Water Department; Sunset Bay Park; Novelis; Constellation Energy, associated actions are included in Section 7: Mitigation Strategy and Prioritization.

## **5.2 High Hazard Potential Dams**

The Town of Scriba does not have any high hazard potential dams located within the municipal boundaries.

## **5.3 Additional Jurisdiction/Public Identified Vulnerabilities**

In addition to critical facilities, it is important to take a holistic approach to identifying assets in the jurisdiction and how they may be vulnerable to the hazards identified in the HMP. Examples of other assets considered include:

- People (residents, workers, visiting populations, and socially vulnerable populations like seniors, individuals with disabilities, lower-income individuals, etc.)
- Other structures (community centers, historic places, planned capital improvement)
- Economic assets (major employers, primary economic sectors, key infrastructure like telecommunications networks)
- Natural, historic and cultural resources (areas of conservation, beaches, parks, critical habitats)
- Critical facilities and infrastructure (hospitals, law enforcement, water, power)
- Community activities (major local events such as festivals or economic events like farming or fishing)

The Town of Scriba has not identified any specific additional assets aside from critical facilities listed in Table 5-1, but has taken the above example assets into consideration during the development of this annex.

## **6 SUMMARY OF HAZARD IMPACTS AND VULNERABILITIES**

### **6.1 Ice Storm**

The Town of Scriba has ranked their overall vulnerability to an ice storm event as high, as indicated in Table 4-2. Severe winter storms occur infrequently in the jurisdiction and affect the entire jurisdiction, causing major damage. The jurisdiction gets Hours of Warning for ice storm events.

Records of ice storm events are described in Section 4.2. The Town of Scriba will continue to experience ice storm events in the future, as will the rest of Oswego County. The Town completes tree maintenance within road right of ways to minimize potential damages to overhead utility lines, which is common during ice storms. Private utility right of ways are generally maintained by the individual utility companies.

### **6.2 Severe Storm**

The Town of Scriba has ranked their overall vulnerability to a severe storm event as high, as indicated in Table 4-2. Severe storms occur regularly in the jurisdiction and affect a significant portion of the jurisdiction, causing moderate damage. The jurisdiction gets Hours of Warning for severe storm events.

Records of severe storm events are described in Section 4.2. Impacts to the Town from severe storm events include fallen trees from severe winds, which can damage overhead utility lines, resulting in power outages. These events are likely to result in damages to private and public infrastructure and property. In addition, during severe winter storm events, roadway safety is a primary concern and impacts the safety of residents and operation of critical facilities. Damages to the Town's critical infrastructure or primary transportation routes would be most impactful to residents. Storm damages would primarily impact the more populated portions of the Town. The Town completes tree maintenance within Town road right of ways to minimize potential damages to overhead utility lines. Private utility right-of-ways are generally maintained by individual utility companies.

Future vulnerability to severe storm events remains high, is expected to increase, and may be affected by climate change, land use, and population changes, as described in Section 4.5 of this annex and in Section 6 of the main body of the HMP.

### **6.3 Flood**

The Town of Scriba has ranked their overall vulnerability to a flood event as moderate, as indicated in Table 4-2. Flood events occur rarely in the jurisdiction and affect a significant portion of the jurisdiction, causing major damage. The jurisdiction gets Hours of Warning for flood events.

Information on flood event records (Section 4.2), high hazard potential dams (Section 5.2), floodplain statistics (Section 4.3), and participation in the NFIP (Section 4.4) are described above, illustrating the impact of flooding on critical facilities and other structures. Milea Beach has been an area of flooding in the Town.

Future vulnerability to flood events remains high, is expected to increase, and may be affected by climate change, land use, and population changes, as described in Section 4.4 of this annex and in Section 6 of the main body of the HMP.

## **6.4 Severe Winter Storm**

The Town of Scriba has ranked their overall vulnerability to a severe winter storm event as moderate, as indicated in Table 4-2. Severe winter storms occur infrequently in the jurisdiction and affect the entire jurisdiction, causing moderate damage. The jurisdiction gets Days of Warning for severe winter storm events.

Records of severe winter storm events are described in Section 4.2. Impacts to the Town from severe winter storm events include fallen trees from severe winds, which can damage overhead utility lines, resulting in power outages. These events are likely to result in damages to private and public infrastructure and property. In addition, during severe winter storm events, roadway safety is a primary concern and impacts the safety of residents and operation of critical facilities. Damages to the Town's critical infrastructure or primary transportation routes would be most impactful to residents. Winter storm damages would primarily impact the more populated portions of the Town. The Town completes tree maintenance within Town road right of ways to minimize potential damages to overhead utility lines. Private utility right-of-ways are generally maintained by individual utility companies. Plowing is the responsibility of the Town Highway Department. The Town also depends on surrounding jurisdictional agreements and partnerships for plowing of state, county, as well as some town and local roads.

Future vulnerability to severe storm events remains moderate, is expected to increase, and may be affected by climate change, land use, and population changes, as described in Section 4.4 of this annex and in Section 6 of the main body of the HMP.

## **6.5 Ice Jam**

The Town of Scriba has ranked their overall vulnerability to an ice jam event as moderate, as indicated in Table 4-2. Ice Jam events occur infrequently in the jurisdiction and affect one or two problem areas (the Oswego River, particularly) within the jurisdiction, causing moderate damage. The jurisdiction gets Days of Warning for extreme temperature events.

Ice jams occur when river ice breaks up and becomes lodged at a natural or man-made obstruction, causing water to back up and potentially flood surrounding areas. Ice jams typically form during periods of rapid warming, heavy rain, or freeze-thaw cycles, which accelerate ice movement. These events can cause sudden, localized flooding and significant damage to infrastructure, including roads, bridges, and utilities. Unlike typical riverine flooding, ice jams can form quickly and unpredictably, making them particularly hazardous.

While ice jams are not a frequent occurrence across Oswego County, they have historically impacted certain areas with significant river and stream activity. The Town of Scriba has experienced ice jam-related flooding in past winters, particularly near bridges and culverts where ice accumulates and restricts water flow. Previous events have resulted in temporary road closures, property damage, and emergency response efforts to break up the ice and mitigate flooding.

Ice jams in the Town of Scriba primarily affect low-lying areas near streams and tributaries, particularly in locations where water flow is constricted by infrastructure such as bridges, culverts, and narrow channels. These areas are at increased risk of flooding when ice blockages prevent normal water drainage.

The severity of an ice jam event depends on factors such as ice thickness, rate of thaw, precipitation levels, and water velocity. Minor events may cause temporary water backups, while more severe jams can lead to significant overbank flooding, road washouts, and property damage. Ice jam severity is often categorized based on observed water level rises and impacts on infrastructure and homes.

Although Oswego County did not identify ice jams as a countywide priority hazard, the Town of Scriba has chosen to include it due to past local impacts and ongoing risk to critical infrastructure. Ice jams have caused localized flooding and transportation disruptions, making them a significant concern for the town. By profiling this hazard, Scriba aims to assess vulnerabilities and implement mitigation strategies, such as improving drainage capacity and monitoring ice-prone waterways, to reduce future risks.

## 6.6 Jurisdictional Priorities

Taking into account the identified natural hazards, potential impacts, assets, and vulnerabilities identified above, key vulnerabilities and priorities to be addressed in this HMP were identified for the Town.

Top concerns about hazard mitigation in the Town included:

- Flooding at Joe Fultz Blvd / Milea Beach;
- Ice storms; and
- Occasional winter storms.

The following populations were identified as being particularly vulnerable to hazards:

- The homeless (some congregate behind Champlain Commons); and
- Seniors (two housing developments: Champlain commons and Shadowbrook).

The plan was revised to reflect the following changes in community priorities since the 2020 HMP Update:

- None identified

## 6.7 Additional Impacts

Additional impacts of the hazards are summarized in the problem descriptions in Appendix I: New Mitigation Actions – Review spreadsheet.

# 7 MITIGATION STRATEGY AND IMPLEMENTATION

## 7.1 Past, Completed, and Ongoing Initiatives

The Town proposed 4 mitigation actions in the 2020 Oswego County HMP Update. The status of each action is summarized in Table 7-1, below.

Table 7-1. Status of 2020 Mitigation Actions

Name	Description	Hazard(s) Mitigated	Lead Agency	Status (Completed, In Progress, No Progress, Discontinued)	Carried into 2025 HMP Update? (Yes/No)
Break wall at Sunset Bay Park	Reconstruct break wall at Sunset Bay Park	Flood	Town Supervisor*	In Progress	Yes
Protect Lake Ontario properties from flooding	Work with residents along the shore of Lake Ontario to protect properties from future flood events	Flood	Town Planning Board, Code Enforcement Officer*	In Progress	Yes
Property resilience brochures	Develop and distribute property resilience brochure to all Town residents	Severe Thunderstorm/Wind/Tornado, Flooding, Severe Winter Storm, Ice Storm	Town Supervisor*	No. Due to COVID	No. No longer an approvable action
Require operating permit for businesses	Establish an ordinance to require an operating permit for all local businesses	Fire, Structural Collapse (as related to many natural hazards)	Town Code Enforcement Officer*; Town Planning Board	No	No. Hazard no longer applies for this plan.

## 7.2 New Mitigation Actions

In addition to the actions carried over from the 2020 HMP, the Town of Scriba identified new mitigation actions for inclusion in the 2025 HMP Update, in conjunction with the project team. First, a list of actions was brainstormed based on the capabilities, hazard identification, impacts, and vulnerabilities described above. This included consideration to the ways that the Town of Scriba could expand and improve the identified capabilities to achieve mitigation, as described in Section 3 of this annex. Then, a more comprehensive range of actions were evaluated as described in Section 8 of the main body of the HMP. Finally, actions that tied in most closely with the vulnerabilities identified by the Town were selected for inclusion in the HMP.

The Town proposed 6 new mitigation actions to be included in the 2025 HMP update. These actions are included in Table 7-2 below, and described in more detail in the Mitigation Action – Review spreadsheet (Appendix I).

Table 7-2. New Mitigation Actions

Project #	Project Name	Goal / Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	Related to CF?	EHP Issues*	Estimated Timeline	Lead Agency	Estimated Costs**	Estimated Benefits	Potential Funding Sources	Priority
S4.F1	Break Wall Reconstruction	G3	Flooding	The harbor break wall at Sunset Bay Park is in need of repair, including its foundation. Damage was done to the shoreline of the port in 2017.	Reconstruct break wall at Sunset Bay Park; Work with residents along the shore of Lake Ontario to protect properties from future flood events	No	Yes	1-3 years	Town Supervisor, Highway Superintendent	\$\$\$	Rehabilitating the break wall safeguards Sunset Bay Park and shoreline properties from erosion and storm damage along Lake Ontario. This vital protection enhances property resilience, preserves natural habitats, and ensures long-term coastal community stability.	US CDBG-MIT, US HMGP, US Flood Mitigation Assistance, NYS HM RLF	Medium
S4.F2	Critical Facility Assessments to Flooding	G3	Flooding	The following facilities/properties are not protected to 100/500 year floodplains: Town Hall; Town Justice Center; Town Water Dept.; Sunset Bay Park; Novelis.	Assess critical facilities/properties in the 100/500 year floodplains located at Town Hall; Town Justice Center; Town Water Dept.; Sunset Bay Park; Novelis; and Constellation Energy for resilient retrofit opportunities and assess the properties for resilient site improvements.	Yes	Maybe	3-5 Years	Highway Superintendent	\$	Assessing the Town's critical facilities (public/private) for their level of protection against a 0.2% chance flood event (or previous worst case flood event, if applicable), is a first step to ensuring that these facilities remain operable during and after flooding events, reducing the overall risk to people and infrastructure.	US HMGP, US BRIC, US Flood Mitigation Assistance, US HUD CDBG-MIT, NYS HM RLF	Medium
S4.IS1	Backup Generator	G2, G3, G4	Ice Storm	The Water Department's current generator is outdated and does not work.	Generator for Water Department	Yes	Maybe - location based action	1-3 years	Town Highway Dept.	\$	The Town can reduce personal injury and property damage by ensuring that critical facilities have backup generators and do not lose power during an ice storm.	FEMA BRIC, US CDBG-MIT, US HMGP, NYS HM RLF	Medium

Project #	Project Name	Goal / Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	Related to CF?	EHP Issues *	Estimated Timeline	Lead Agency	Estimated Costs **	Estimated Benefits	Potential Funding Sources	Priority
S4.T1	Dam Maintenance Program / Plan (Beaver Dams)	G2, G3	Severe Thunderstorm	Beaver dams have clogged cross culvert; there is a beaver dam in front of highway building;	Develop a Beaver Dam Maintenance Plan which works with private property owners and municipal neighbors on preventing and removing beaver dams.	Yes	Maybe - location based action	3-5 Years	Town Highway Dept.	\$\$	This action reduces the flood risk that beaver dams pose during severe thunderstorms to the municipality.	US HMGP, US BRIC, NYS HM RLF, Flood Mitigation Assistance Program, FEMA HHPD Grant Program	High
S4.WS1	Warming and Cooling Centers	G2	Severe Winter Storm	The town does not currently have any designated warming center or shelter during severe winter storms.	Designate town hall, fire department, and county highway buildings as warming centers / shelters.	Yes	No	1-3 years	Town Supervisor	\$	Updating and publicizing warming centers which will ensure that vulnerable residents have a safe and comfortable place to go during power outages from Severe Winter Storms. This will reduce the risks to these residents' health and safety.	BRIC, HMGP, NYS Climate Smart Communities	High
S4.IJ1	Waterway Monitoring and Ice Jam Mitigation Program	G2, G3, G4	Ice Jam	Scriba experiences periodic ice jams in local waterways, leading to flooding, infrastructure damage, and road closures due to restricted water flow and sudden ice blockages.	Establish an ice jam monitoring and mitigation program, including regular inspections of ice-prone waterways, installation of remote water level and ice sensors, and coordination with emergency response teams to implement controlled ice-breaking measures when necessary.	No	No	1-3 years	Town Supervisor, DPW, County EMO	\$\$	Reduces flood risk from ice jams, protects roads and bridges from damage, improves early warning capabilities, and enhances emergency response coordination.	FEMA HMGP; DEC grants; USACE funding, local municipal budget allocations	Medium

\*EHP: Environmental Planning and Historical Preservation.

\*\*Estimated Costs: \$=Low <\$10,000; \$\$=Medium \$10,000-\$100,000; \$\$\$=High >\$100,000.

### **7.3 Mitigation Action Prioritization**

Each of the Town's proposed mitigation actions were evaluated and prioritized according to the criteria listed in Section 8 of the main body of the HMP. This includes a cost-benefit review of the proposed actions.

### **7.4 Mitigation Action Implementation and Administration**

The Town's new mitigation actions will be implemented and administered as described in Section 9 of the main body of the HMP. This section includes additional potential funding sources for consideration by each jurisdiction.

## **8 ADDITIONAL PUBLIC INVOLVEMENT**

Public input was solicited to guide the development of the HMP through two public information meetings and a community survey. A summary of the findings of these outreach activities can be found in Section 3 of the main body of the HMP. The Town of Scriba may continue to seek public participation in hazard mitigation planning after HMP approval by including discussion of the HMP as an agenda item at public Town Board meetings and by offering opportunities for members of the public to participate in the implementation of relevant mitigation actions.