



14. TOWN OF VARICK

This jurisdictional annex to the Seneca County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Town of the Town of Varick with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of the Town of Varick, describes who participated in the planning process, assesses the Town of Varick’s risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

14.1 HAZARD MITIGATION PLANNING TEAM

The Town of Varick identified the hazard mitigation plan (HMP) primary and alternate points of contact and developed this plan over the course of several months with input from many Town departments, including the Highway Department. The Town Supervisor represented the community on the Seneca County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 14-1 summarizes Town officials who participated in the development of the annex and in what capacity. Additional documentation of the Town’s planning activities through Planning Partnership meetings is included in Volume I.

Table 14-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Robert Hayssen, Town Supervisor Address: 4782 State Route 96, Romulus, NY 14541 Phone Number: (315) 374-7166 Email: rhayssen@rochester.rr.com Bobhayssen13@gmail.com	Name/Title: Ben Freier, Highway Superintendent Address: 4782 State Route 96, Romulus, NY 14541 Phone Number: 315-651-0839 Email: farmequipmentrepair@yahoo.com
<i>National Flood Insurance Program Floodplain Administrator</i>	
Name/Title: Tim Dorn, Code Enforcement Officer Address: 4782 State Route 96, Romulus, NY 14541 Phone Number: 315-549-7673 Email: tj10@cornell.edu	
<i>Additional Contributors</i>	
Name/Title: Donna Karlsen, Town Clerk Method of Participation: Provided key input in the planning process through completing worksheets	

14.2 COMMUNITY PROFILE

The Town of Varick is in the center portion of Seneca County and encompasses some of Seneca Lake to the West and Cayuga Lake to the east. The Town consists of 45.7 square miles, 32 of which are land and 13.7 of which are water. The south Town line borders the Town of Romulus, the northern Town line borders the Town of Varick, the eastern Town line borders Cayuga County, and the western Town line borders Yates County.



According to the U.S. Census, the 2020 population for the Town of Varick was 1,656. Data from the 2020 U.S. Census indicate that 8.9 percent of the population is 5 years of age or younger, 20.7 percent is 65 years of age or older, 0.4 percent is non-English speaking, 18.4 percent is below the poverty threshold, and 11 percent is considered disabled. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

14.3 JURISDICTIONAL CAPABILITY ASSESSMENT AND INTEGRATION

The Town of Varick performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume I describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for the Town of Varick to identify opportunities for integrating mitigation concepts into ongoing Town procedures.

14.3.1 Planning and Regulatory Capability and Integration

Table 14-2 summarizes the planning and regulatory tools that are available to the Town of Varick.

Table 14-2. Planning and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations				
Building Code	Yes	Uniform Fire Prevention and Building Code, 2021	State and County	NYS Division of Building Standards and Codes or Seneca County Building Codes Enforcement
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Strong building codes for fire prevention, the widening use of smoke detectors and sprinklers and development of fire-resistant building materials represent fire mitigation actions that have made a huge impact on reducing private and public losses from fires. Strengthened building codes in floodplains, managing development in a way that recognizes				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
flood risks and infrastructure improvements that prevent or resist flood damage are very cost-effective mitigation goals for any community.				
Zoning/Land Use Code	Yes	Zoning Code, 2023	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> Encourage appropriate and orderly physical development; promote public health, safety, and general welfare; classify, designate and regulate the location and use of buildings and structures; and for said purposes may divide the Town of Varick into districts of such number, shape and area as may be deemed best suited to carry out these regulations.				
Subdivision Code	Yes	Subdivision Regulations, 2016	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> Land to be subdivided shall be of such character that it can be used safely for building purposes without danger to health, or peril from fire, flood or other menace; that proper provision shall be made for drainage, water supply, sewerage, and other needed improvements; that all proposed lots shall be so laid out and of such size as to be in harmony with the development pattern of the neighboring properties; that the proposed streets shall compose a convenient system conforming to the Official Map, if such exists and shall be properly related to the proposals shown on the Master Plan, if such exists, and shall be of such width, grade and location as to accommodate the prospective traffic, to facilitate fire protection and to provide access of fire-fighting equipment to buildings; and that proper provision shall be made for open spaces for parks and playgrounds.				
Site Plan Code	Yes	Zoning Code, 2023	Local	Code Enforcement Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> Sets standards that are in the interest of the public health, safety, and general welfare; or strict adherence to such standards and/or requirements would cause unnecessary hardship for the applicant without achieving public benefit objectives.				
Stormwater Management Code	Yes	Local Law 1 of 2003	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The general purpose of this Law is to provide for efficient, economic, environmentally safe, and legal operation of the Seneca County POTW in both SCSD No.1 and No.2 and Varick Sewer District No. 2.				
Post-Disaster Recovery/ Reconstruction Code	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Real Estate Disclosure Requirements	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Environmental Protection Ordinance(s)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Flood Damage Prevention Ordinance	Yes	Local Law 1 of 1987	Federal, State, Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> It is the purpose of this local law 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: <ul style="list-style-type: none"> • Regulate uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion of 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 flood waters • Control filling, grading, dredging and other development which may increase erosion or flood damages • Regulate the construction of flood barriers which will unnaturally divert flood waters, or which may increase flood hazards to other lands • Quality and maintain participation in the National Flood Insurance Program • To help maintain a table tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood blight areas • To provide that developers are notified that property is in an area of special flood hazard • To ensure that those who occupy the areas of special flood hazard assume responsibility for their actions 				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Planning Documents				
General/Comprehensive Plan	Yes	Towns of Fayette and Varick Comprehensive Plan, 2005	Local	Town Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The purpose of the Comprehensive Plan for the Towns of Fayette and Varick is to guide local officials and community members in making decisions that will affect the future of the two Towns. Future actions that will be based on the policies and recommendations in the Plan include revisions to zoning and other local laws and regulations, capital budgeting, and providing services to the community. The Comprehensive Plan addresses the full spectrum of issues facing the Towns and balances competing needs and interests in the community.				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Capital Improvement Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Disaster Debris Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Floodplain Management or Watershed Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Stormwater Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Open Space Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Urban Water Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Habitat Conservation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Economic Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Community Wildfire Protection Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Community Forest Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Agriculture Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Climate Action/ Resiliency/Sustainability Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Tourism Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Business/ Downtown Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Response/Recovery Planning				
Emergency Operations Plan	Yes	Seneca County Comprehensive Emergency Management Plan	County	Seneca County Emergency Management Office
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Emergency Operations Plan aims to assess the Township's ability to respond to emergency and identifies recommendations to improve its capacity to prepare and respond to future events. The plan address both short- and long-term recovery.				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Substantial Damage Response Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Post-Disaster Recovery Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Public Health Plan	Yes	Seneca County Pandemic Plan	County	Seneca County Emergency Management Office
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				



	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
The plan was developed based on best practices and guidance available largely as a result of the SARS-CoV-2 Pandemic. The plan is intended to provide ongoing guidance for the current pandemic as well as future guidance for any other infectious disease outbreaks requiring a state and/or county emergency declaration.				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				

14.3.2 Development and Permitting Capability

Table 14-3 summarizes the capabilities of the Town of Varick to oversee and track development.

Table 14-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits?	No	-
<ul style="list-style-type: none"> If you issue development permits, what department is responsible? 	N/A	-
<ul style="list-style-type: none"> If you do not issue development permits, what is your process for tracking new development? 	N/A	The County issues permits.
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain is tracked
Do you have a buildable land inventory?	Yes	
<ul style="list-style-type: none"> If you have a buildable land inventory, please describe 	N/A	Land available throughout the Town for development.
Describe the level of build-out in your jurisdiction.	N/A	50 percent built out

14.3.3 Administrative and Technical Capability

Table 14-4 summarizes potential staff and personnel resources available to the Town of Varick and their current responsibilities that contribute to hazard mitigation.

Table 14-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	Yes	Develops code revisions, when necessary, approves subdivisions and conducts site plan review on Special Uses.
Zoning Board of Adjustment	Yes	Issues variances if the intended use doesn't quite fit the letter of the code but meets the intent of the code.
Planning Department	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	Yes	The Town of Varick Highway Department is responsible for general maintenance of all Town roads. This maintenance includes paving and sealing, cleaning ditches, tree and brush trimming in the town rights of way, mowing roadsides, and plowing snow, salting and sanding during winter months.
Construction/Building/Code Enforcement Department	Yes	The Code Enforcement Officer shall issue all appropriate notices or orders to remove illegal or unsafe conditions, to require the necessary safeguards during construction, and to ensure compliance during the entire course of construction with the requirements of such laws, ordinances, or regulations.
Emergency Management/Public Safety Department	Yes	County Emergency Management
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Town of Varick comprises four water districts, procuring water from the Town of Waterloo (Seneca Lake intake) and the Town of Seneca Falls (Canoga intake on Cayuga Lake).
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	Yes	Code Enforcement
Planners or engineers with an understanding of natural hazards	Yes	Contract out
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazus applications	No	-
Staff that work with socially vulnerable populations or underserved communities	No	-



Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	Yes	County Emergency Manager
Grant writer(s)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

14.3.4 Fiscal Capability

Table 14-5 summarizes financial resources available to the Town of Varick.

Table 14-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvement project funding	Yes
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
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
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes

14.3.5 Education and Outreach Capability

Table 14-6 summarizes the education and outreach resources available to the Town of Varick.

Table 14-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	Yes	Contracted Services



Outreach Resources	Available? (Yes/No)	Comment:
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	One Call System
Natural disaster/safety programs in place for schools	No	No schools are located in the Town
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events?	No	County Programs
If yes, please describe.	N/A	-

14.3.6 Community Classifications

Table 14-7 summarizes classifications for community programs available to the Town of Varick.

Table 14-7. Community Classifications

Program	Participating? (Yes/No)	Classification	Date Classified
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
NWS StormReady Certification	Yes	Seneca County is StormReady	N/A
Firewise Communities classification	No	-	-
NYSDEC Climate Smart Community	No	-	-
Other: Organizations with mitigation focus (advocacy group, non-government)	No	-	-

N/A = Not applicable
 — = Unavailable

14.3.7 Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 14-8 summarizes the adaptive capacity for each identified hazard of concern and the Town’s capability to address related actions using the following classifications:



- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement

Table 14-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Dam Failure	Moderate
Drought	Moderate
Earthquake	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Landslide	Moderate
Severe Weather	Moderate
Severe Winter Weather	Moderate

14.4 NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in is responsible for maintaining this information.

14.4.1 NFIP Statistics

Table 14-9 summarizes the NFIP policy and claim statistics for the Town of Varick.

Table 14-9. Town of Varick NFIP Summary of Policy and Claim Statistics

# Policies	14
# Claims (Losses)	9
Total Loss Payments	\$16,967.81
# Repetitive Loss Properties (NFIP definition)	0
# Repetitive Loss Properties (FMA definition)	0
# Severe Repetitive Loss Properties	0

NFIP Definition of Repetitive Loss: The NFIP defines a repetitive loss property as any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP within any rolling 10-year period since 1978.

FMA Definition of Repetitive Loss: FEMA’s Flood Mitigation Assistance (FMA) program defines a repetitive loss property as any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

Definition of Severe Repetitive Loss: A residential property covered under an NFIP flood insurance policy and: (a) That has at least four NFIP claim payments over \$5,000 each, and the cumulative amount of such claims payments exceeds \$20,000; or (b) For which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. At least two of the claims must have occurred within any 10-year period, more than 10 days apart.

Source: FEMA 2024



14.4.2 Flood Vulnerability Summary

Table 14-10 provides a summary of the NFIP program in the Town of Varick.

Table 14-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> Do you maintain a list of properties that have been damaged by flooding? 	Lakeshores of Cayuga and Seneca Lake (including streams/ravines flowing in) & Kendig Creek
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? 	A list is not maintained
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. 	No
How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 	Procedures need to be developed
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? 	Unknown
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. 	Things have changed since the maps were printed over 30 years ago
NFIP Compliance	
What local department is responsible for floodplain management?	Flood plain management is primarily done by the Seneca County Dept. of Code Enforcement which enforces the NYS Building Code county wide.
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	If the full responsibility to directed to the County – then Code Enforcement Officer should receive training.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Building permits for all new construction and remodels – assuring they are out of flood plain or meet criteria.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Any repair, alteration, reconstruction, or improvement of a structure, the cost of which equals or exceeds \$10,000 or 50% of the actual cash value of the structure before improvement, whichever is less. Substantial improvement is started when the first alteration of any structural part of the building commences.
What are the barriers to running an effective NFIP program in the community, if any?	None



NFIP Topic	Comments
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	2023
What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? 	Local Law 1 of 1987
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	It determines that additional construction in flood plain meets requirements – or factors not addresses
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	No
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Not at this time

14.5 GROWTH/DEVELOPMENT TRENDS

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Recent and expected future development trends, including major residential/commercial development and major infrastructure development, are summarized in Table 14-11 through Table 14-13.

Table 14-11. Number of Building Permits for New Construction Issued Since the Previous HMP

	New Construction Permits Issued			
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	Total
2018				
Total Permits	2	0	0	2
Permits within SFHA	1	0	0	1
2019				
Total Permits	2	0	0	2
Permits within SFHA	1	0	0	1
2020				
Total Permits	3	0	0	3
Permits within SFHA	1	0	0	1
2021				
Total Permits	2	0	0	2
Permits within SFHA	0	0	0	0
2022				



	New Construction Permits Issued			Total
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	
Total Permits	7	0	0	7
Permits within SFHA	4	0	0	4

SFHA = Special Flood Hazard Area (1% flood event)

Table 14-12. Recent Major Development and Infrastructure from 2019 to Present

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
None Identified					

* Only location-specific hazard zones or vulnerabilities identified.

Table 14-13. Known or Anticipated Major Development and Infrastructure in the Next Five Years

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zones*	Description / Status of Development
None Identified					

14.6 JURISDICTIONAL RISK ASSESSMENT

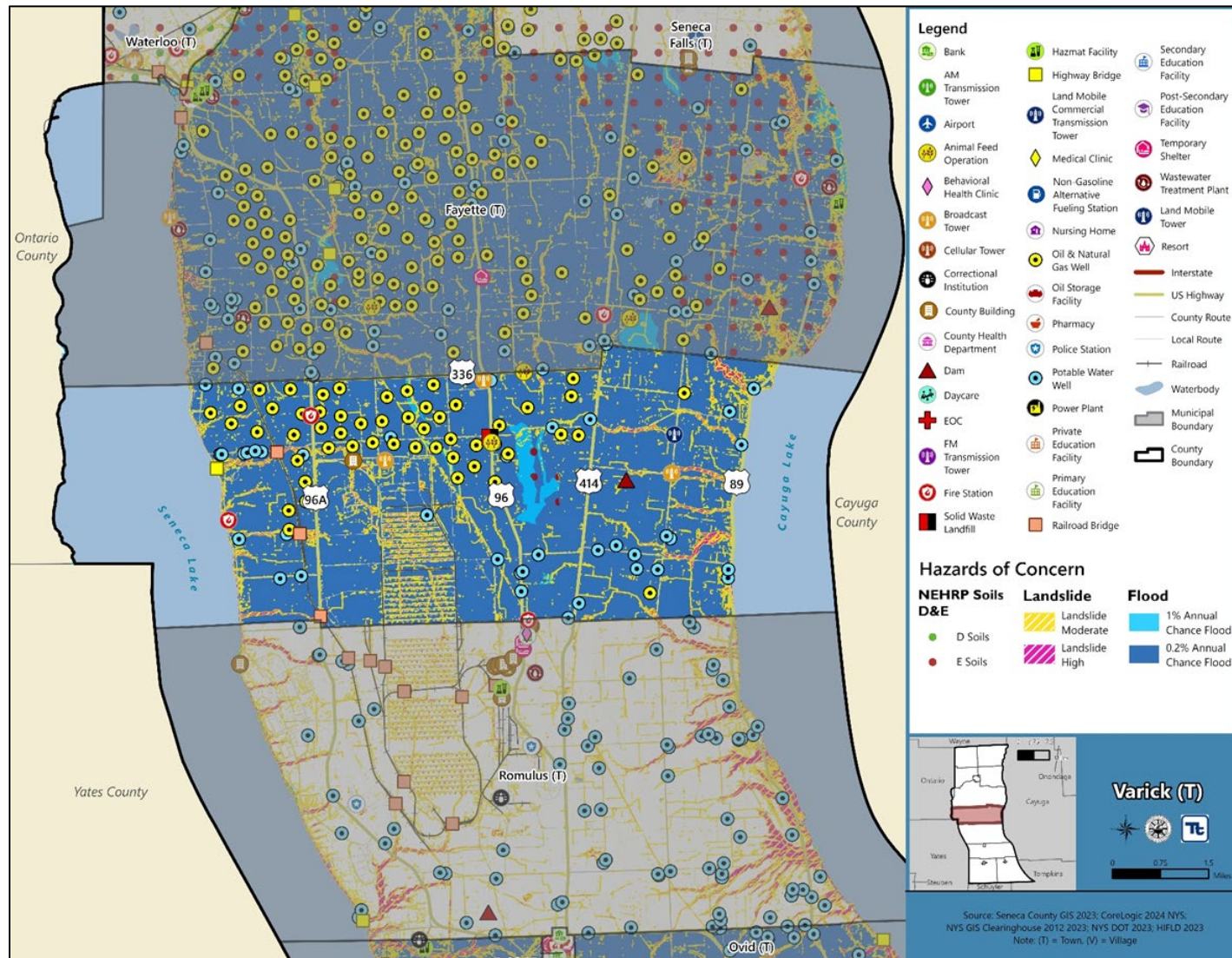
The hazard profiles in Volume I provide detailed information regarding each planning partner’s vulnerability to the identified hazards, including summaries of the Town of Varick’s risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

14.6.1 Hazard Area

Hazard area extent and location maps provided below illustrate the probable areas impacted within the Town based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. A map for the hazards that have impacted the Town of Covert is included below.



Figure 14-1. Town of Varick Hazard Area Extent and Location Map



Note: The shown flood hazard area is limited to the FEMA-defined flood hazard areas. Areas of localized flooding are not reflected in the above Figure.



14.6.2 Hazard Event History

The history of natural and non-natural hazard events in the Town of Varick is detailed in Volume I, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 14-14 provides details on loss and damage in the Town of Varick during hazard events since the last hazard mitigation plan update.

Table 14-14. Hazard Event History in the Town of Varick

Dates of Event	Event Type (Disaster Declaration)	County Designated?	Summary of Event	Summary of Damage and Losses in the Town of Varick
August 13 - 15, 2018	Flood (DR- 4397)	Yes	A slow-moving storm tracked north from New Jersey to northern New York. This system triggered several rounds of heavy rain producing thunderstorms which caused severe flash flooding and major damages in several locations.	The Town did not experience any notable damages or losses.
January 20, 2020 - May 11, 2023	Pandemic (DR-4480, EM-3434)	Yes	The coronavirus pandemic resulted in roughly 8,000 cases and 100 attributed deaths as of summer 2023.	The Town enforced social distancing and masking mandates where applicable.

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

14.6.3 Hazard Ranking and Vulnerabilities

The hazard profiles in Volume I have detailed information regarding each planning partner’s vulnerability to the identified hazards. The following presents key risk assessment results for the Town of Varick.

Hazard Ranking

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume I. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. The Town of Varick reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Town indicated the following:

- Although the Town has dams within its jurisdiction, there is little concern of a dam failure. The Town has elected to change the ranking from Medium to Low.
- The Town elected to change severe storm from High to Medium due to strong capabilities to handle severe storm.



Table 14-15 shows the Town of Varick’s final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 14-15. Hazard Ranking Input

Hazard	Rank
Dam Failure	Low
Drought	Low
Earthquake	Low
Extreme Temperature	Medium
Flood	Medium
Landslide	Low
Severe Weather	Medium
Severe Winter Weather	Medium

Note: The scale is based on the hazard rankings established in Volume I, modified as appropriate based on review by the jurisdiction

Critical Facilities

Table 14-16 identifies critical facilities in the community located in the 1 percent and 0.2 percent annual chance floodplains. In addition to the table below, there are 41 water wells in the Town that are located in the 0.2 percent floodplain, one of which is also located in the one percent flood area. The Town also has and 51 oil and natural gas wells that are located in the 0.2 percent flood hazard area, three of which are also located in the one percent flood hazard area.

Table 14-16. Critical Facilities Flood Exposure

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
Boyle Marsh Dam	Dam	-	X	2025-VarickT-01	-
Broadcast Tower - 26	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 28	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 31	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 34	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 35	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 40	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 42	Broadcast Tower	-	X	2025-VarickT-01	-
Broadcast Tower - 9	Broadcast Tower	-	X	2025-VarickT-01	-
County Building - Unknown Structure	County Building	-	X	2025-VarickT-01	-
County Building - Water Tower	County Building	-	X	2025-VarickT-01	-
FM Transmission Tower W241AW	FM Transmission Tower	-	X	2025-VarickT-01	-



Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2% Flood Level (describe protections)
		1% Event	0.2% Event		
FM Transmission Tower WNYR-FM	FM Transmission Tower	-	X	2025-VarickT-01	-
Highway Bridge - 3313950	Highway Bridge	X	X	2025-VarickT-01	-
LAMAR MARTIN	Animal Feed Operation	-	X	2025-VarickT-01	-
Land Mobile Com Trans Tower WNPB266	Land Mobile Tower	-	X	2025-VarickT-01	-
Railroad Bridge - R2976_NY6845	Railroad Bridge	-	X	2025-VarickT-01	-
Railroad Bridge - W1255_NY81709	Railroad Bridge	-	X	2025-VarickT-01	-
Railroad Bridge - W62_NY81270	Railroad Bridge	-	X	2025-VarickT-01	-
Solid Waste Landfill - 3	Solid Waste Landfill	-	X	2025-VarickT-01	-
Varick Volunteer Fire Company Station 15	Fire Station	-	X	2025-VarickT-01	-
Varick Volunteer Fire Company Station 2	Fire Station	-	X	2025-VarickT-01	-

Source: Seneca County GIS 2023, NYS GIS Clearinghouse 2023, NYSDOH 2023, NYSDOT 2023, HIFLD 2023

14.6.4 Identified Issues

After review of the Town of Varick’s hazard event history, hazard rankings, hazard location, and current capabilities, the Town of Varick identified the following vulnerabilities within the community:

- Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery. The following critical facilities are located in the special flood hazard area:
 - Boyle Marsh Dam
 - Broadcast Towers 9, 26, 28, 31, 34, 35, 40, 42
 - County Building - Unknown Structure
 - County Building - Water Tower
 - FM Transmission Tower W241AW and WNYR-FM
 - Highway Bridge - 3313950
 - LAMAR MARTIN
 - Land Mobile Com Trans Tower WNPB266
 - Railroad Bridges R2976_NY6845, W1255_NY81709, and W62_NY81270
 - Solid Waste Landfill 3
 - Varick Volunteer Fire Company Stations 2 and 15
- The County issues the municipality’s building permits. The municipality does not have a Substantial Damage Management Plan in place, nor do they have a formal process in place when conducting



substantial damage determinations. The municipality is in need of a formal process and plan to provide a framework for conducting such inspections and determinations.

- The Town does not have any organizations that conduct outreach to socially vulnerable populations and underserved populations relating to the identified hazards of concern. Identifying, communicating, and educating vulnerable populations can increase the resiliency of the Town through the reduction of long-risk risks associated with each hazard of concern. Furthermore, emergency responders will be able to prioritize assistance, when feasible, in an emergency to help those who need it most.
- The Town experiences flooding issues within the Town in relation to their stormwater infrastructure and erosion, which leads to flooded roadways and properties throughout the Town which contributes to flood related damages.
- The Town experiences frequent storm damage from downed trees which interrupt traffic flow and cause power outages. The Town has identified that vegetation management is needed to reduce impacts from trees to utility and vehicle rights-of-way.
- The Town experiences issues with runoff from agricultural lands into Seneca and Cayuga Lakes which leads to harmful algal blooms. As small family farms are consolidated into larger corporate tracts, drainage is being congregated and directed to fewer outlets with inadequate downstream capacity.
- The Town experiences downslope flooding and erosion control issues along Seneca Lake, near Willow Cove and Driftwood Lane, south to Hahnel and Deal Roads, and on slopes to Cayuga Lake east of Kinda Corner and McDuffie Roads.

14.7 MITIGATION STRATEGY AND PRIORITIZATION

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

14.7.1 Past Mitigation Action Status

Table 14-17 indicates progress on the Town's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.



Table 14-17. Status of Previous Mitigation Actions

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
1	Drainage improvement and stream maintenance	Flood	Town Highway, County Highway, SWCS	<p>Problem: Drainage systems and streams may have excess erosion which needs to be cleared to mitigate flood risks.</p> <p>Solution: Continue regular maintenance and make upgrades to drainage systems and stream where possible</p>	<p>1. In Progress 2. Lack of staffing and funding</p>	<p>1. Include 2. Not applicable 3. Not applicable</p>
2	Dead Tree Debris Removal	Ice Storm, Severe Storm, Winter Storm	Town Highway, County Highway, SWCS	<p>Problem: Dead and downed trees and limbs have the potential to cause power outages.</p> <p>Solution: Removal of dead trees and limbs to prevent power outages</p>	<p>1. No Progress 2. Lack of staffing and funding</p>	<p>1. Include 2. Not applicable 3. Not applicable</p>
3	Public Education	All Hazards	Town Highway, County Highway, SWCS	<p>Problem: Residents and businesses may not be aware of hazard risks and how to mitigate those risks.</p> <p>Solution: Public education to improve citizen capabilities to resist disasters</p>	<p>1. In Progress 2. Lack of staffing and funding</p>	<p>1. Include 2. Not applicable 3. Not applicable</p>
4	Projects to control erosion and minimize damaging runoff	Flood	Highway Superintendent, Town Board	<p>Problem: Targeted sites are downslope channels to the lakes above shoreline properties on Seneca Lake, near Willow Cove and Driftwood La., south to Hahnel and Deal Rds., and on slopes to Cayuga Lake east of Kings Corner and McDuffie Rds.</p> <p>Solution: Install structural measures along steeper roads, road banks, and high flow ditches to control erosion and</p>	<p>1. In Progress 2. Lack of staffing and funding</p>	<p>1. Include 2. Not applicable 3. Not applicable</p>



Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				sedimentation and to minimize downslope flooding.		
5	Reduce farmland runoff	Flood	Supervisor, Highway Superintendent, Town Board	<p>Problem: As small family farms are consolidated into larger corporate tracts, drainage is being congregated and directed to fewer outlets with inadequate downstream capacity.</p> <p>Solution: Work with Seneca County SWCD and the USDA NRCS to encourage farmland owners to apply conservation practices that reduce runoff from agricultural lands.</p>	<p>1. No Progress</p> <p>2. Lack of staffing and funding</p>	<p>1. Include</p> <p>2. Not applicable</p> <p>3. Not applicable</p>



14.7.2 Proposed Hazard Mitigation Actions for the HMP Update

The Town of Varick participated in a mitigation action workshop in September 2024 and was provided the following FEMA publications to use as a resource as part of its comprehensive review of all possible activities and mitigation measures to address hazards of concern:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013).

The action worksheets included at the end of this annex list the mitigation actions that the Town of Varick would like to pursue in the future to reduce the effects of hazards. The actions are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in Town priorities.

Table 14-18 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume I identifies 14 evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned (-1, 0, or 1) for each of the evaluation criteria. Table 14-19 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.



Table 14-18. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category									
	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam Failure	X	-	-	X	X	-	X	-	-	X
Drought	-	-	-	X	-	-	X	-	-	-
Earthquake	X	-	-	X	X	-	X	-	-	X
Extreme Temperatures	-	-	-	X	-	-	X	-	-	-
Flood	X	X	X	X	X	X	X	X	X	X
Landslide	X	-	-	X	X	-	X	-	-	X
Severe Storm	X	X	X	X	X	X	X	X	-	X
Severe Winter Storm	X	-	X	X	X	X	X	X	-	X

- Local Plans and Regulations (LPR)*—These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)*—These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct structures to reduce the impact of hazards.
- Natural Systems Protection (NSP)*—These are actions that minimize damage and losses and preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP)*—These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities
- Preventative Measures (PR)*—Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP)*—These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI)*—Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR)*—Actions that minimize hazard loss and preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP)*—Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES)*—Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities



Table 14-19. Summary of Prioritization of Actions

Project Number	Project Name	Scores for Evaluation Criteria														High / Medium / Low	
		Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Local Objectives		Total
2025-VarickT-01	Critical Facilities in the Floodplain	1	1	1	1	1	0	0	1	1	1	1	1	1	0	11	High
2025-VarickT-02	Substantial Damage Management Plan	1	1	1	1	1	1	0	1	1	1	1	1	0	0	11	High
2025-VarickT-03	Socially Vulnerable Populations Outreach	1	0	1	1	1	1	0	1	1	1	1	1	0	1	11	High
2025-VarickT-04	Flood Drainage Study	1	1	1	1	1	0	1	1	1	1	1	1	1	0	12	High
2025-VarickT-05	Tree Maintenance	1	1	1	1	1	0	1	1	1	1	1	0	0	0	10	Medium
2025-VarickT-06	Conservation Agricultural Practices	1	1	1	1	1	0	1	1	1	1	1	1	1	1	13	High
2025-VarickT-07	Erosion Control Study	1	1	1	1	1	0	1	1	1	1	1	1	1	0	12	High

Note: Volume I, Section 16 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-6), Medium (7-10), High (11-14).



Action 2025-VarickT-01. Critical Facilities in the Floodplain

Lead Agency:	Planning Board	
Supporting Agencies:	Facility Managers	
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm
Description of the Problem:	<p>Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery. The following critical facilities are located in the special flood hazard area:</p> <ul style="list-style-type: none"> Boyle Marsh Dam Broadcast Towers 9, 26, 28, 31, 34, 35, 40, 42 County Building - Unknown Structure County Building - Water Tower FM Transmission Tower W241AW and WNYR-FM Highway Bridge - 3313950 LAMAR MARTIN Land Mobile Com Trans Tower WNPB266 Railroad Bridges R2976_NY6845, W1255_NY81709, and W62_NY81270 Solid Waste Landfill 3 Varick Volunteer Fire Company Stations 2 and 15 	
Description of the Solution:	<p>The Town will conduct a feasibility assessment to determine what additional floodproofing measures are needed at the critical facilities to protect each to the 500-year flood level. Options include:</p> <ul style="list-style-type: none"> Elevation of facility Floodproofing of facility Mobile flood barriers Bridge feasibility study Replacement or retrofit of bridges <p>Once the most cost-effective option is identified, the Town will carry out the option.</p>	
Estimated Cost:	TBD based on floodproofing measure	
Potential Funding Sources:	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Town Budget	
Implementation Timeline:	Within 5 Years	
Goals Met:	1, 4, 5, 6	
Benefits:	Ensures continuity of operations of critical facilities located within the floodplain.	
Impact on Socially Vulnerable Populations:	Protection of critical facilities provides an opportunity for first responders and emergency managers to maintain critical services that socially vulnerable populations rely on.	
Impact on Future Development:	The risk of significant damage occurring to the structure will be reduced, which will allow critical operations to be maintained or only briefly interrupted in severe events. This provides continued support to both current and future development in the service area.	
Impact on Critical Facilities/Lifelines:	This action will protect the dam and bridges which are critical facilities, maintaining the critical services that it provides.	
Impact on Capabilities:	This action improves continuity of operations during a flood event, allows for a more rapid return to pre-disaster capabilities after a flood event, and faster deployment of post disaster capabilities.	
Climate Change Considerations:	This action addresses anticipated increases in flooding frequency and severity through protection to the 500-year (0.2-percent annual chance) flood level.	
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)



CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)		<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input checked="" type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low	
Alternatives	Action		Evaluation	
	No action		Current problem continues	
	Relocate facility		Relocation is expensive and results in loss or delay of critical services in the immediate area	
	Establish plans to enter into MOU with neighboring critical facilities to provide service during flood events		Reduction in response times and delay of critical services in the immediate area.	



Action 2025-VarickT-02. Substantial Damage Management Plan

Lead Agency:	Planning Board		
Supporting Agencies:	Seneca County Code Enforcement		
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm	
Description of the Problem:	<p>Officials in NFIP-participating communities are responsible for regulating all development in SFHAs by issuing permits and enforcing local floodplain requirements, including Substantial Damage, for the repairs of damaged buildings. After any disaster event including dam failure, earthquake, flood, landslide, severe storm, and severe storm, they must:</p> <ul style="list-style-type: none"> Determine where the damage occurred within the community and if the damaged structures are in an SFHA. Determine what to use for “market value” and cost to repair; uniformly applying regulations will protect against liability and promote equitable administration. Determine if repairing plus improving the damaged structure equals or exceeds 50% of the structure’s pre-damage value. Require permits for floodplain development. <p>The County issues the municipality’s building permits. The municipality does not have a Substantial Damage Management Plan in place, nor do they have a formal process in place when conducting substantial damage determinations. The municipality is in need of a formal process and plan to provide a framework for conducting such inspections and determinations.</p>		
Description of the Solution:	<p>The municipality will work with the County to develop a Substantial Damage Management Plan, following the six-step planning process in 2021 Developing a Substantial Damage Management Plan (https://crsresources.org/files/500/developing_subst_damage_mgmt_plan.pdf). This plan will outline responsibilities for Substantial Damage determinations, determining market value, and permit approval processes following a disaster event.</p>		
Estimated Cost:	Staff Time		
Potential Funding Sources:	Town Budget, County Budget		
Implementation Timeline:	Within 5 years to develop the plan; ongoing to maintain and update the plan		
Goals Met:	1, 3, 4, 5		
Benefits:	This plan will provide a process in making Substantial Damage Determinations and allow the municipality to make these determinations and meet NFIP requirements more quickly.		
Impact on Socially Vulnerable Populations:	Substantially damaged structures are required to be rebuilt to be compliance with current codes. Socially vulnerable populations may not have the financial means to make these improvements. This action may allow for the identification of potential resources to address substantial damages to structures owned by socially vulnerable populations.		
Impact on Future Development:	A Substantial Damage Management Plan would include all existing, current, and future development in the municipality.		
Impact on Critical Facilities/Lifelines:	A Substantial Damage Management Plan would include all critical facilities and lifelines in the municipality.		
Impact on Capabilities:	This action improves disaster recovery capabilities.		
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action provides additional planning for disaster recovery.		
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input checked="" type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues



	Rely on state or federal resources following disaster events	Resources may not be available during major widespread events
	Establish MOUs with outside agencies to conduct Substantial Damage Determinations	A plan outlining responsibility is still necessary to prevent missing important requirements



Action 2025-VarickT-03. Socially Vulnerable Populations Outreach

Lead Agency:	Planning Board	
Supporting Agencies:	Seneca County Emergency Management	
Hazard(s) of Concern:	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm
Description of the Problem:	<p>The Town does not have any organizations that conduct outreach to socially vulnerable populations and underserved populations relating to the identified hazards of concern. Identifying, communicating, and educating vulnerable populations can increase the resiliency of the Town through the reduction of long-risk risks associated with each hazard of concern. Furthermore, emergency responders will be able to prioritize assistance, when feasible, in an emergency to help those who need it most.</p>	
Description of the Solution:	<p>Create outreach materials, or utilize those from Seneca County, on hazard risks and methods of mitigation measures for socially vulnerable populations, including dam failure, drought, earthquake, extreme temperature, flood, landslide, severe storm, and severe winter storm. Methods of distribution may include Town events, the Town newsletters, social media, the Town website, and having the materials on display for the public at Town libraries and offices. Consider hiring staff to work directly with socially vulnerable populations. Outreach materials will be specified with education and information for each individual hazard of concern, with measures identified which can assist in reducing long-term risk to the identified hazards of concern.</p>	
Estimated Cost:	Staff Time	
Potential Funding Sources:	Town Budget, HMGP	
Implementation Timeline:	Within 3 Years, ongoing after established	
Goals Met:	1, 3, 4, 6	
Benefits:	<p>This action will ensure there is an individual working to identify and work with the socially vulnerable populations in the Town. Furthermore, this action will create opportunities to educate and inform populations on hazard risks.</p>	
Impact on Socially Vulnerable Populations:	<p>Socially vulnerable populations in the Town will become educated on hazards and risks. The Village will identify an individual to identify and work with these populations to ensure the most up-to-date information is being shared.</p>	
Impact on Future Development:	N/A	
Impact on Critical Facilities/Lifelines:	<p>Educating populations on hazard risk and how to mitigate the risks can decrease the demand for utilities and emergency services including health and medical, law enforcement, and search and rescue.</p>	
Impact on Capabilities:	This action would build upon the Town's public education and outreach program.	
Climate Change Considerations:	<p>Climate change is likely to increase the intensity and frequency of many climate-related disaster events. This action will inform residents and business owners of how to reduce risk from hazards and how climate change may exacerbate those risks.</p>	
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input checked="" type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium
		<input type="checkbox"/> Low
Alternatives	Action	Evaluation
	No action	Current problem continues
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in the Town
	Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving guidance



Action 2025-VarickT-04. Flood Drainage Study

Lead Agency:	Planning Board		
Supporting Agencies:	County Emergency Management		
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm	
Description of the Problem:	The Town experiences flooding issues within the Town in relation to their stormwater infrastructure, which leads to flooded roadways and properties throughout the Town which contributes to flood related damages.		
Description of the Solution:	The Town will begin a flood study related to stormwater drainage to evaluate what areas of the drainage system may need upgrades. This study would aim to figure out the correct sized stormwater system that the Town needs throughout the boundaries of the Town.		
Estimated Cost:	TBD after Study		
Potential Funding Sources:	HMGP, BRIC, FMA, Annual Budget		
Implementation Timeline:	Within 5 Years		
Goals Met:	1, 2, 4, 5		
Benefits:	<ul style="list-style-type: none"> Flood risk will be reduced in hazard prone areas. Vulnerable communities will be identified ahead of a flood event, which will allow first responders to plan and stage resources in those areas. Future mitigation projects may be identified that will further increase overall community resiliency to flooding and other hazard events. 		
Impact on Socially Vulnerable Populations:	<ul style="list-style-type: none"> Areas vulnerable to flooding will be made aware to Town leadership and first responders which can place an emphasis on controlled future development. If cost-effective mitigation actions are identified, they may be implemented in flood prone areas that could reduce their overall risk to loss of life and property. 		
Impact on Future Development:	Flood insurance costs may decrease.		
Impact on Critical Facilities/Lifelines:	<ul style="list-style-type: none"> Transportation routes will be more likely to remain open if flooding is mitigated along them. Hydration systems may remain potable for community usage if projects are identified to protect the existing infrastructure from flooding. 		
Impact on Capabilities:	This study will identify opportunities for mitigation funding to be spent in the areas in which it is most needed to increase resiliency and decrease damage from flood events.		
Climate Change Considerations:	Consideration should be taken to ensure any projects conducted have accounted for increased extreme rainfall events.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues
	Purchase moveable flood barriers		Not a permanent solution
	Elevate properties impacted by flood		Does not fix root issue



Action 2025-VarickT-05. Tree Maintenance

Lead Agency:	Town Highway		
Supporting Agencies:	Utility Companies, Property Owners		
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm	
Description of the Problem:	The Town experiences frequent storm damage from downed trees which interrupt traffic flow and cause power outages. The Town has identified that vegetation management is needed to reduce impacts from trees to utility and vehicle rights-of-way.		
Description of the Solution:	The Town will pursue funding support to have a forester assess trees, complete deed searches to verify Town right of way in targeted areas, and then have the tree removal completed by qualified personnel. Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption in conjunction with property owners and utility companies.		
Estimated Cost:	Staff Time		
Potential Funding Sources:	Town Budget		
Implementation Timeline:	Within 5 years, ongoing once established		
Goals Met:	1, 2, 4, 5		
Benefits:	This action will result in the reduction of risk surrounding power outages by minimizing potential impacts from trees on utility lines.		
Impact on Socially Vulnerable Populations:	Some socially vulnerable population rely on power utilities for everyday care. If power outages are caused by a lack of tree maintenance, lives could potentially be at risk.		
Impact on Future Development:	This action assists in the protection of future development from impacts caused by tree collapses or branch falls as a result of severe weather, severe winter weather, hurricanes, and nor'easters.		
Impact on Critical Facilities/Lifelines:	Utility lines provide power to residencies, private businesses, government entities, and various providers. Not maintaining trees, tree limbs, or tree branches may impact the availability of power during severe weather and severe winter weather events.		
Impact on Capabilities:	The creation of a tree maintenance program would be a new capability for the Town.		
Climate Change Considerations:	Climate change may result in an increase in the frequency and severity of weather-related disaster events, which may contribute to trees or tree limbs/branches falling or impacting utility lines and property.		
Mitigation Category	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input checked="" type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input checked="" type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues
	Do not contact utility companies		Trees along utility lines may impact power during severe weather and severe winter weather events
	Do not contact property owners		Trees on private residencies may impact power during severe weather and severe winter weather events



Action 2025-VarickT-06. Conservation Agricultural Practices

Lead Agency:	Town Board, County Emergency Management		
Supporting Agencies:	SWCD, USDA		
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm	
Description of the Problem:	The Town experiences issues with runoff from agricultural lands into Seneca and Cayuga Lakes which leads to harmful algal blooms. As small family farms are consolidated into larger corporate tracts, drainage is being congregated and directed to fewer outlets with inadequate downstream capacity.		
Description of the Solution:	The Town will work with Seneca County SWCD and the USDA NRCS to encourage farmland owners to apply conservation practices that reduce runoff from agricultural lands by setting up workshops or meetings to educate and offer grant guidance in respect to conservation agricultural practices.		
Estimated Cost:	Staff Time		
Potential Funding Sources:	HMGP, USDA, County Budget, Town Budget		
Implementation Timeline:	Within 5 Years		
Goals Met:	1, 2, 4, 5		
Benefits:	This action provides more guidance to farmers in relation to conservation farming practices.		
Impact on Socially Vulnerable Populations:	Some socially vulnerable populations may be negatively impacted and disproportionately affected by farming practices.		
Impact on Future Development:	Future development may be impacted by agricultural runoff.		
Impact on Critical Facilities/Lifelines:	N/A		
Impact on Capabilities:	This enhances the Town's capability of dealing with agricultural impacts.		
Climate Change Considerations:	Climate change is leading to an increase in precipitation intensity and frequency.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input checked="" type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues
	Stop agricultural production		Not feasible given how agriculturally based the economy is
	Stop pesticide use		Limits how successful crop yield is



Action 2025-VarickT-07. Erosion Control Study

Lead Agency:	Town Board		
Supporting Agencies:	County Emergency Management		
Hazard(s) of Concern:	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm	
Description of the Problem:	The Town experiences downslope flooding and erosion control issues along Seneca Lake, near Willow Cove and Driftwood Lane, south to Hahnel and Deal Roads, and on slopes to Cayuga Lake east of Kinda Corner and McDuffie Roads.		
Description of the Solution:	The Town will work with Seneca County Emergency Management to conduct a flood and slope study to determine how to best alleviate flood and erosion related issues within the Town. The Town will enter this into a database and will continue to document problem areas and will acquire funding to reduce erosion and flooding.		
Estimated Cost:	TBD after study		
Potential Funding Sources:	HMGP, FMA, BRIC, Town Budget		
Implementation Timeline:	Within 5 Years; ongoing once established		
Goals Met:	1, 2, 3, 4, 5		
Benefits:	<ul style="list-style-type: none"> Flood and erosion risks will be reduced in hazard prone areas. Vulnerable communities will be identified ahead of a flood event, which will allow first responders to plan and stage resources in those areas. Future mitigation projects may be identified that will further increase overall community resiliency to flooding and erosion. 		
Impact on Socially Vulnerable Populations:	<ul style="list-style-type: none"> Areas vulnerable to flooding will be made aware to Town leadership and first responders which can place an emphasis on controlled future development. If cost-effective mitigation actions are identified, they may be implemented in flood prone areas that could reduce their overall risk to loss of life and property. 		
Impact on Future Development:	Flood insurance costs may decrease.		
Impact on Critical Facilities/Lifelines:	<ul style="list-style-type: none"> Transportation routes will be more likely to remain open if flooding is mitigated along them. Hydration systems may remain potable for community usage if projects are identified to protect the existing infrastructure from flooding. 		
Impact on Capabilities:	This study will identify opportunities for mitigation funding to be spent in the areas in which it is most needed to increase resiliency and decrease damage from flood and erosion events.		
Climate Change Considerations:	Consideration should be taken to ensure any projects conducted have accounted for increased extreme rainfall events.		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input checked="" type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input checked="" type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Priority	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues
	Stop agricultural production		Not feasible given how agriculturally based the economy is
	Stop pesticide use		Limits how successful crop yield is