



Seneca County, New York

# Hazard Mitigation Plan

Volume III - Appendices



February 2025



TETRA TECH

---

# Seneca County Hazard Mitigation Plan

#105s039541  
February 2025

## PRESENTED TO

---

**Seneca County Emergency Management Office**  
1 DiPronio Drive  
Waterloo, New York 13165

## PRESENTED BY

---

**Tetra Tech**  
2301 Lucien Way  
Maitland, Florida 32751

**P 321-441-8500**  
[tetrattech.com](http://tetrattech.com)

DRAFT



**TETRA TECH**



---

**TABLE OF CONTENTS**

---

Appendix A: Resolutions .....	A-1
Appendix B: Meeting Documentation.....	B-1
Appendix C: Public and Stakeholder Outreach.....	C-1
Appendix D: Participation Matrix.....	D-1
Appendix E: Action Worksheet Template .....	E-1
Appendix F: Plan Maintenance Tools .....	F-1
Appendix G: Critical Facility Inventory .....	G-1
Appendix H: Risk Assessment Supplementary Data.....	H-1
Appendix I: Mitigation Strategy Supplementary Data .....	I-1
2018 Goals and Objectives Review.....	I-1
Mitigation Strategy Workshop Resources .....	I-2
Types of Mitigation Actions.....	I-3
Potential Mitigation Funding Sources .....	I-5
Mitigation Catalog.....	I-10
Appendix J: NYS DHSES Planning Standards.....	J-1
Appendix K: Linkage Procedures.....	K-1

---

**LIST OF TABLES**

---

Table H-1. Dam Failure Events in Seneca County Between 2008 and 2017 .....	H-1
Table H-2. Earthquake Events in Seneca County Between 1972 and 2017.....	H-2
Table H-3. Extreme Temperature Events in Seneca County Between 2000 and 2017 .....	H-2
Table H-4. Flood Events in Seneca County Between 1972 and 2017 .....	H-3
Table H-5. Severe Storm Weather in Seneca County Between 1973 and 2017 .....	H-5
Table H-6. Severe Winter Weather Events in Seneca County Between 1993 and 2017 .....	11
Table I-1. 2025 Goals .....	I-1
Table I-2. 2025 Objectives.....	I-1
Table I-3. FEMA Mitigation Action Types .....	I-3
Table I-4. New York Mitigation Funding Sources .....	I-5
Table I-5. Seneca County Mitigation Catalog.....	I-10

---

**LIST OF FIGURES**

---

Figure F-1. BATool <sup>SM</sup> Screenshot .....	F-1
---	-----

## APPENDIX A: RESOLUTIONS





The Seneca County and municipal adoption resolutions will be included in this appendix upon receipt of the Federal Emergency Management Agency (FEMA) Approval Pending Adoption (APA) status. Please refer to Chapter 2 (Planning Process) for additional information on plan adoption procedures.

This appendix also includes an example resolution to be submitted by Seneca County and participating jurisdictions authorizing adoption of the 2025 Seneca County Hazard Mitigation Plan Update.

DRAFT



### Sample Resolution

(LOCAL GOVERNMENT, INCLUDING SPECIAL DISTRICTS), New York

RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE (LOCAL GOVERNMENT) ADOPTING THE 2025 Seneca County Hazard Mitigation Plan

WHEREAS the (local governing body) recognizes the threat that natural hazards pose to people and property within (local government); and

WHEREAS the (local government) has prepared a multi-hazard mitigation plan, hereby known as (title and date of mitigation plan) in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS (title and date of mitigation plan) identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in (local community) from the impacts of future hazards and disasters; and

WHEREAS adoption by the (local governing body) demonstrates their commitment to hazard mitigation and achieving the goals outlined in the (title and date of mitigation plan).

NOW THEREFORE, BE IT RESOLVED BY THE (LOCAL COMMUNITY), New York, THAT:

Section 1. In accordance with (local rule for adopting resolutions), the (local governing body) adopts the (title and date of mitigation plan). This plan, approved by the community, may be edited or amended after submission for review, but will not require the community to re-adopt any further iterations. This only applies to this specific plan and does not absolve the community from updating the plan in 5 years.

ADOPTED by a vote of \_\_\_\_ in favor and \_\_\_\_ against, and \_\_\_\_ abstaining, this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_.

By: \_\_\_\_\_

(print name)

ATTEST: By: \_\_\_\_\_

(print name)

APPROVED AS TO FORM: By: \_\_\_\_\_

(print name)

## APPENDIX B: MEETING DOCUMENTATION



Appendix B includes meeting agendas, slides, and minutes (where applicable and available) for meetings convened during the development of the 2025 Seneca County Hazard Mitigation Plan Update.

DRAFT

**Seneca County, NJ – Hazard Mitigation Plan 2024 Update**  
**Seneca County Kick-Off | Meeting Minutes**



<b>Purpose of Meeting:</b>	Seneca County Kick-Off Meeting	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	September 10:30, 2023 @ 10:30 AM	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director of Emergency Management</li> <li>○ Toni DiGiovanni, Deputy Director of Emergency Management</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Chris Huch, Project Manager</li> <li>○ Lindsey McCoy, Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	Meeting to discuss the overall planning process; identify expectations from both Tetra Tech and Seneca County during the planning process; answer questions Seneca County has regarding the Planning Process for the 2024 Hazard Mitigation Plan update.	
Item No.	Description	Action item(s):
1	<b>Introductions</b>	-
2	<b>Participation</b> <ul style="list-style-type: none"> <li>• In-Kind Tracking <ul style="list-style-type: none"> <li>○ Tetra Tech will track participant hours at all meetings</li> <li>○ Online tracker will be distributed for participants to track time spent outside of meetings.</li> </ul> </li> <li>• Tetra Tech will develop new LOIP for distribution <ul style="list-style-type: none"> <li>○ Distribute to each participating municipality <ul style="list-style-type: none"> <li>▪ Will identify primary and alternate points of contact, floodplain administrator</li> </ul> </li> <li>○ Need a variety of officials from each municipality to participate</li> </ul> </li> <li>• Representation is expected at each meeting</li> <li>• County would like to focus most of the work to be done in September and October to avoid holidays where possible</li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>• Send example LOIP to Seneca County</li> <li>• Share In-Kind Tracker for review</li> <li>• Develop template and homework sheets for municipalities</li> </ul> <b>Seneca County</b> <ul style="list-style-type: none"> <li>• Distribute LOIPs to municipalities</li> <li>• Share County seal</li> </ul>
3	<b>Organization</b> <ul style="list-style-type: none"> <li>• Core Planning Team <ul style="list-style-type: none"> <li>○ County Emergency Management and Tetra Tech for day to day decision-making</li> </ul> </li> <li>• Steering Committee: Tetra Tech will look at the Steering Committee membership from the last HMP planning process and build a proposed invite list based on new FEMA recommendations for expanded representation <ul style="list-style-type: none"> <li>○ County Departments</li> <li>○ Municipal representatives (biggest municipality and smallest municipality is recommended)</li> <li>○ Outside stakeholders (businesses, academia, non-profits, representatives of socially vulnerable/underserved communities)</li> </ul> </li> <li>• Planning Partnership: Comprised of Steering Committee and representatives from each municipality</li> <li>• Scheduling Steering Committee Kickoff and Planning Partnership Kickoff meetings on the same day, in person, end of September, early October.</li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>• Identify potential Steering Committee members and stakeholder groups</li> </ul> <b>Seneca County</b> <ul style="list-style-type: none"> <li>• Review suggested Steering committee list</li> </ul>

Seneca County, NJ – Hazard Mitigation Plan 2024 Update  
Seneca County Kick-Off | Meeting Minutes



	<ul style="list-style-type: none"><li>• Will begin having bi-weekly meetings once kickoff meetings are scheduled</li><li>• Tetra Tech will need a meeting with the County GIS department to review a Data Wishlist for available GIS layers and information to use in the risk assessment.</li></ul>	<ul style="list-style-type: none"><li>• Schedule date of kickoff meetings</li></ul>
4	Adjourn	-



**Seneca County, NJ – Hazard Mitigation Plan 2024 Update**  
**Seneca County Core Planning Team Meeting | Meeting Minutes**



<b>Purpose of Meeting:</b>	Seneca County Core Planning Team Meeting	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	October 11, 2023 @ 10:00 AM	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director of Emergency Management</li> <li>○ Toni DiGiovanni, Deputy Director of Emergency Management</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Chris Huch, Project Manager</li> <li>○ Jessica Stokes, Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	Meeting to discuss the overall planning process; establish updated timeline; answer questions Seneca County has regarding the Planning Process for the 2024 Hazard Mitigation Plan update.	
Item No.	Description	Action item(s):
1	<b>Introductions</b>	-
2	<b>County NFIP Support for Municipalities</b> <ul style="list-style-type: none"> <li>• Mr. Huch from Tetra Tech discussed the FEMA support project to identify how counties support municipalities with their NFIP programs.</li> <li>• Mr. Huch asked the County how the NFIP is administered in Seneca County with county support.</li> <li>• Ms. Taylor noted the County currently lacks a floodplain manager.</li> <li>• Tetra Tech will set up a call with points of contact to discuss floodplain management in the County and services provided to municipalities.</li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>• Set up call with points of contact to discuss floodplain management in Seneca County.</li> </ul> <b>Seneca County</b> <ul style="list-style-type: none"> <li>• Provide points of contact for Planning and Soil &amp; Water</li> </ul>
2	<b>Schedule</b> <ul style="list-style-type: none"> <li>• County originally wanted to focus most of the work to be done in September and October to avoid holidays where possible.</li> <li>• New timeline will be as follows <ul style="list-style-type: none"> <li>○ SC kickoff – November 2<sup>nd</sup> or 3<sup>rd</sup> location tbd (in-person or virtual) @ 10 am <ul style="list-style-type: none"> <li>▪ Back-up date of November 7</li> </ul> </li> <li>○ PP kickoff – November 2<sup>nd</sup> or 3<sup>rd</sup> location tbd (in-person or virtual) @ 1 pm <ul style="list-style-type: none"> <li>▪ Back-up date of November 7</li> </ul> </li> <li>○ SC and PP Risk Assessment meeting in January</li> <li>○ Mitigation Strategy workshop in February</li> <li>○ Public review period from March-April</li> <li>○ Draft to NYS DHSES in April 2024</li> <li>○ Looking for APA from FEMA by September.</li> </ul> </li> <li>• We can split up the SC and PP kickoffs to allow more time for municipalities to come online if necessary.</li> <li>• We can potentially combine the PP risk assessment meeting and mitigation strategy workshop to save time. This may be necessary to allow enough time for the risk assessment to occur if there are any delays.</li> </ul>	<b>Tetra Tech</b>  <b>Seneca County</b> <ul style="list-style-type: none"> <li>• Send out poll to municipalities for kick-off meeting availability/in-person vs. virtual</li> </ul>
3	<b>Steering Committee</b> <ul style="list-style-type: none"> <li>• The SC meeting must happen ASAP to identify the final hazards of concern so the risk assessment can get underway.</li> </ul>	<b>Tetra Tech</b>  <b>Seneca County</b>

**Seneca County, NJ – Hazard Mitigation Plan 2024 Update**  
**Seneca County Core Planning Team Meeting | Meeting Minutes**



	<ul style="list-style-type: none"> <li>Based on a recent call with NYS DHSES, it is recommended that non-natural hazards not be included in the plan. DHSES will not be reviewing those hazards and may not look favorably on funding being used towards non-natural hazards that were not intended to be funded, may reduce funding in the future. <ul style="list-style-type: none"> <li>Hazards of concern assumed to be dam failure, drought, earthquake, extreme temperature, flood, landslide, severe storm, and severe winter storm <ul style="list-style-type: none"> <li>List looks good by the County</li> </ul> </li> <li>Hazardous materials, pandemic, transportation accidents, and utility interruption would not be profiled <ul style="list-style-type: none"> <li>These hazards could be moved to an appendix instead</li> <li>Use these as discussion points in the naturally occurring hazards; remove as full profiles</li> </ul> </li> <li>Hazards of concern need to have strong mitigation actions identified for each municipality.</li> <li>SC is vital to identifying the socially vulnerable populations and establishing the process to conduct outreach to these populations.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Reach out to SC members with invite request and poll</li> <li>Invite County Division of Human Services</li> </ul>
4	<b>Surveys and Tracker</b> <ul style="list-style-type: none"> <li>The surveys and in-kind tracker were sent September 15 for review. Any questions or necessary edits? <ul style="list-style-type: none"> <li>Surveys and tracker look good; Toni to perform an additional review.</li> </ul> </li> <li>Does the County have an updated seal they would like us to use? <ul style="list-style-type: none"> <li>No, the current seal is correct.</li> </ul> </li> </ul>	<b>Tetra Tech</b>  <b>Seneca County</b> <ul style="list-style-type: none"> <li>Toni to perform an additional review of the surveys</li> </ul>
5	<b>GIS meeting Scheduling</b> <ul style="list-style-type: none"> <li>Tetra Tech will need a meeting with the County GIS department ASAP to review a Data Wishlist for available GIS layers and information to use in the risk assessment.</li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>Schedule meeting with County GIS</li> </ul> <b>Seneca County</b> <ul style="list-style-type: none"> <li>Point of Contact for GIS</li> </ul>
	<b>Questions</b> <ul style="list-style-type: none"> <li>If we need help filling out the tracker, who do we contact? <ul style="list-style-type: none"> <li>Contact Chris for help. Fill out tracker as best you can with your name, department, and what tasks you had worked on.</li> </ul> </li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>CC County on just important emails/meetings</li> </ul>
6	<b>Adjourn</b>	



**SENECA COUNTY HAZARD MITIGATION PLAN - UPDATE**  
**Steering Committee Kick-Off Meeting**  
**November 2, 2023 at 10:00 AM**

**Dial In: +1 617-865-5234, Phone Conference ID: 257 659 223#**

**Meeting Link: <https://msteams.link/MT58>**

**Meeting ID: 288 592 688 074**

**Passcode: PwPoAp**



- 1 Introductions
- 2 Hazard Mitigation Overview
- 3 Project Organization
- 4 Planning Process Overview
- 5 Project Schedule
- 6 Questions/Next Steps/Discussion

# Seneca County, NY – Hazard Mitigation Plan 2024 Update Steering Committee Kick-Off Meeting | Meeting Minutes



<b>Purpose of Meeting:</b>	Seneca County Kick-Off Meeting	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	November 2, 2023 @ 10:00AM	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Division of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> <li>○ Jeff Case, Fire Coordinator</li> <li>○ Kristopher Rodger, Public Safety Systems Administrator</li> </ul> </li> <li>• <b>Seneca County Division of Human Services</b> <ul style="list-style-type: none"> <li>○ Annie Mahoney, Deputy Commissioner</li> <li>○ Michael Whirtley, Deputy Commissioner</li> </ul> </li> <li>• <b>Seneca County Highway Department</b> <ul style="list-style-type: none"> <li>○ Roy Gates, Superintendent of Highways</li> <li>○ Stacey Bennett, Highway Department</li> </ul> </li> <li>• <b>Seneca County Mental Health Services</b> <ul style="list-style-type: none"> <li>○ Margaret Morse, Director</li> </ul> </li> <li>• <b>Seneca County Soil and Water District</b> <ul style="list-style-type: none"> <li>○ Erin Peruzzini, District Technician</li> </ul> </li> <li>• <b>Seneca Falls Police Department</b> <ul style="list-style-type: none"> <li>○ Thomas Cleere, Sergeant</li> </ul> </li> <li>• <b>Cornell Cooperative Extension of Seneca County</b> <ul style="list-style-type: none"> <li>○ Ave Bauder, Executive Director</li> <li>○ Scott King, Public Health Director</li> </ul> </li> <li>• <b>NYS DHSES</b> <ul style="list-style-type: none"> <li>○ Lisa Burkovich, Regional Director</li> <li>○ Beth O'Reilly, Planning Manager</li> <li>○ John Wilkinson, Environmental Specialist</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Chris Huch, Project Manager</li> <li>○ Lindsey McCoy, Planner</li> </ul> </li> </ul>	
<b>Agenda Summary:</b>	The purpose of the meeting was to introduce the Steering Committee members and contract consultant, provide an overview of the hazard mitigation planning process, identify the 2024 hazards of concern, discuss potential changes to the plan's goals and objectives, and to begin the information gathering processes.	
Item No.	Description	Action item(s):
1	<b>Introductions</b> <ul style="list-style-type: none"> <li>• Chris Huch, Tetra Tech, introduced the planning process.</li> <li>• Melissa Taylor, Seneca County Emergency Management, thanked the team for attending and participating.</li> <li>• Lisa Burkovich, NYS DHSES, commended Seneca County on their work toward accreditation and plan updates.</li> </ul>	-
2	<b>Hazard Mitigation Overview</b> <ul style="list-style-type: none"> <li>• Mitigation describes actions taken to help reduce or eliminate the long-term risks/damages cause by hazards.</li> </ul>	-



	<ul style="list-style-type: none"> <li>• Having an HMP permits eligibility for FEMA pre- and post-disaster grant funding and are required to be updated every five years to maintain eligibility for these funds.</li> <li>• Must meet FEMA’s new 2023 guidelines, which include an increase in participation, discussions on climate change, outreach to socially vulnerable populations, increased documentation needs, and to show how existing capabilities are integrated into the plan.</li> <li>• Numerous staff from each municipality are encouraged to participate and provide input.</li> <li>• All jurisdictions are required to have at least one mitigation action per hazard identified.</li> <li>• Steering Committee has the role of initial identification of socially vulnerable populations within the County, including but not limited to the very young, the very old, and those who do not speak English as their first language. The Committee also identified the following groups: <ul style="list-style-type: none"> <li>○ Amish and Mennonite Communities</li> <li>○ Seniors (65+) living independently, especially in southern rural portions of the county with no access to public transportation and do not engage with technological outreach methods.</li> <li>○ Homeless population, including those with mental illness in need of psychotropic and/or addiction medications.</li> </ul> </li> </ul>	
3	<b>Project Organization</b> <ul style="list-style-type: none"> <li>• Made up of the Core Planning Team, Steering Committee, Planning Partnership, Stakeholders, NYSDHSES, and FEMA. <ul style="list-style-type: none"> <li>○ Planning Partnership includes representatives from all municipalities.</li> <li>○ Steering Committee is welcome to attend Planning Partnership meetings.</li> <li>○ NYSDHSES has some plan requirements that exceed FEMA requirements.</li> </ul> </li> <li>• Steering Committee members guide the Planning Partnership through the HMP update process, oversee the planning process from start to finish, and actively contribute, review and provide feedback, identify mitigation actions, act as points of contact for planning partners and stakeholders, etc.</li> </ul>	-
4	<b>Planning Process Overview</b> <ul style="list-style-type: none"> <li>• Tetra Tech utilizes an 8-step planning process, which is being kicked off today.</li> <li>• HMP will be considered effective as of first adoption submitted to and approved by FEMA.</li> <li>• The risk assessment provides a basis for policy and helps to identify what is most important to address to increase resiliency. <ul style="list-style-type: none"> <li>○ Hazards of Concern will remain the same for this plan update, with the elimination of manmade/technological hazards as addressed below.</li> <li>○ Harmful Algal Blooms are a concern within Seneca County, but actions are currently being taken to address the issue within the County’s waterways.</li> <li>○ There is the option to include an appendix for hazards that may not require an entire annex to address, but still require a level of planning effort.</li> </ul> </li> <li>• Manmade or technological hazards listed in the previous plan have been excluded from Hazards of Concern due to FEMA’s emphasis on planning for natural hazards and eligibility to receive mitigation grant funding.</li> </ul>	<b>Tetra Tech</b> <ul style="list-style-type: none"> <li>• Send Steering Committee proposed goals and objectives.</li> </ul>

**Seneca County, NY – Hazard Mitigation Plan 2024 Update  
Steering Committee Kick-Off Meeting | Meeting Minutes**



	<ul style="list-style-type: none"> <li>• Critical Facilities provide essential services to the community, especially before, during, and after a disaster.</li> <li>• Community Lifelines provide services that allow continuity of operations of critical business and government functions, and crucial to health and safety of residents.</li> <li>• The Capability Assessment includes a review of plans in place to guide development, codes to guide building regulations, programs for maintenance activities, and staff to carry out policies are procedures Countywide. This process will be done with each individual municipality.</li> <li>• The Mitigation Strategy includes goals, actions, and an action plan that guides prioritization and implementation of mitigation actions.</li> <li>• Proposed goals and objectives for the 2024 update will be sent to the Steering Committee for review and approval.</li> <li>• Emphasis being placed on High Hazard Potential Dams in this planning update due to available grant funding that requires an analysis of County vulnerability to their failure.</li> <li>• Repetitive Loss (RL) and Severe Repetitive Loss (SRL) Properties are required to be addressed within the plan, typically by encouraging the acquisition and elevation of vulnerable properties. <ul style="list-style-type: none"> <li>○ Tetra Tech will obtain data regarding County floodplain management needs.</li> <li>○ 5 RL properties were identified in the 2018 HMP.</li> </ul> </li> <li>• Community Rating System (CRS) allows for discounted flood insurance rates for residents as a result of increased floodplain management activities. <ul style="list-style-type: none"> <li>○ No municipalities currently participate but could conduct outreach to encourage participation in the program.</li> </ul> </li> <li>• Public outreach will occur continually throughout the planning process through social media posts, surveys, County and municipal websites, and the StoryMap.</li> </ul>	
5	<b>Project Schedule</b> <ul style="list-style-type: none"> <li>• Kick-Off Meeting – TODAY!</li> <li>• Goals and Finalize Hazards – Late Fall 2023</li> <li>• Risk Assessment – Late Fall 2023</li> <li>• Identify Actions – Winter 2023-2024</li> <li>• Finalize the Plan – Late Winter 2023</li> <li>• Draft Plan Completed – Early Spring 2024</li> <li>• Draft Plan Submitted to NYSDHSES – Early Spring 2024</li> <li>• Draft Plan Submitted to FEMA – Early Spring 2024</li> </ul>	-
6	<b>Questions/Next Steps/Discussion</b> -	-
7	<b>Conclusion</b> <ul style="list-style-type: none"> <li>• The meeting adjourned at 10:57 am.</li> </ul>	-





**SENECA COUNTY HAZARD MITIGATION PLAN UPDATE**  
**Steering Committee Risk Assessment Meeting – AGENDA**  
**MEETING DATE/TIME: Thursday, September 12 – 10:00 am – 11:00 am**



**Virtual Meeting via Teams**

<https://msteams.link/PDRP>

- 1. Opening Remarks**
- 2. Project Status** - where we are in the process, public outreach
- 3. Risk Assessment Overview**
  - Results of risk assessment for each hazard
  - Hazards of concern risk ranking
  - How will this information be used in the HMP?
- 4. SWOO**
- 5. Feedback and Input**
- 6. Next Steps**
- 7. Questions**

**Seneca County Project Contact**

Melissa Taylor, Director  
Seneca County Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

**Tetra Tech Project Contact**

Jessica Stokes, MSEM, NJCEM  
Tetra Tech, Inc.  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)

**Seneca County, NJ – Hazard Mitigation Plan 2025 Update**  
**Steering Committee Risk Assessment Meeting | Meeting Minutes**



<b>Purpose of Meeting:</b>	Steering Committee Risk Assessment Meeting	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	September 12, 2024 @ 10:00 A.M.	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Division of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> <li>○ Jeff Case, Fire Coordinator</li> </ul> </li> <li>• <b>Seneca County Division of Human Services</b> <ul style="list-style-type: none"> <li>○ Annie Mahoney, Deputy Commissioner</li> <li>○ Michael Whirtley, Deputy Commissioner</li> </ul> </li> <li>• <b>Seneca County Highway Department</b> <ul style="list-style-type: none"> <li>○ Roy Gates, Superintendent of Highways</li> </ul> </li> <li>• <b>Seneca County Mental Health Services</b> <ul style="list-style-type: none"> <li>○ Margaret Morse, Director</li> </ul> </li> <li>• <b>Seneca County Soil and Water District</b> <ul style="list-style-type: none"> <li>○ Erin Peruzzini, District Technician</li> <li>○ Alex McGraw, District Technician</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>NYS DHSES</b> <ul style="list-style-type: none"> <li>○ Scott Feuerstein, Planning Manager</li> <li>○ Kevin Clapp, Supervisor of Hazard Mitigation Planning</li> <li>○ John Wilkinson, Environmental Specialist</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Jessica Stokes, Project Manager</li> <li>○ Emily Vassallo, Lead Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	The purpose of the meeting was to provide an overview of the hazard mitigation planning process, discuss public and stakeholder outreach efforts, review the risk assessment results, including the hazard ranking, and introduce the SWOO exercise to the Planning Partnership.	
<b>Item No.</b>	<b>Description</b>	<b>Action item(s):</b>
<b>1</b>	<b>Introductions</b>	-
<b>2</b>	<b>Project Status</b> <ul style="list-style-type: none"> <li>• Municipal Participation Status</li> <li>• Public Outreach and Engagement <ul style="list-style-type: none"> <li>○ Post links on social media and department/agency websites</li> <li>○ Stakeholder and neighboring municipalities surveys have been distributed</li> <li>○ Make efforts to reach out to: <ul style="list-style-type: none"> <li>▪ General Public</li> <li>▪ Stakeholders</li> <li>▪ Neighbors</li> </ul> </li> </ul> </li> </ul>	<b>Planning Partnership</b> <ul style="list-style-type: none"> <li>• Post links on social media and department/agency websites</li> <li>• Make efforts to reach out to public, stakeholders, neighbors, and socially vulnerable populations</li> </ul>
<b>3</b>	<b>Risk Assessment Overview</b> <ul style="list-style-type: none"> <li>• Risk is defined as a function of: <ul style="list-style-type: none"> <li>○ Hazard <ul style="list-style-type: none"> <li>▪ Source of potential danger or adverse condition</li> </ul> </li> <li>○ Exposure <ul style="list-style-type: none"> <li>▪ Manmade or natural features that are exposed to the hazard</li> </ul> </li> <li>○ Vulnerability <ul style="list-style-type: none"> <li>▪ Damage susceptibility of the exposed features</li> </ul> </li> <li>○ Adaptive Capacity (or capability) <ul style="list-style-type: none"> <li>▪ Plans/policies</li> <li>▪ Response/recovery</li> </ul> </li> </ul> </li> <li>• Financial resources</li> </ul>	-
<b>4</b>	<b>Risk Assessment Results</b> <ul style="list-style-type: none"> <li>• Provided an overview of the results from the risk assessment for each hazard. Results were a combination of qualitative and quantitative data.</li> </ul>	Tt to send critical facilities in the 1% info to Kevin Clapp and Melissa Taylor.



	<ul style="list-style-type: none"> <li>○ Hazards: <ul style="list-style-type: none"> <li>▪ Dam Failure</li> <li>▪ Drought</li> <li>▪ Earthquake</li> <li>▪ Extreme Temperature</li> <li>▪ Flood <ul style="list-style-type: none"> <li>• Kevin Clapp: Do you know at this time how many of the buildings in the 1% annual chance are considered critical facilities?</li> <li>• Jessica Stokes: We have that data in the hazard profile, I can grab it for you and sent it via email.</li> <li>• Erin Peruzzini: This should be reassessed once new FEMA data becomes available.</li> <li>• Jessica Stokes: We won't be able to update it in this plan, but in the next update it absolutely should be utilized.</li> </ul> </li> <li>▪ Landslide <ul style="list-style-type: none"> <li>• Kevin Clapp: did you overlay soil type for the different slopes?</li> <li>• Jessica Stokes: Let me confirm with our GIS Team, but I believe analysis was only performed on the slopes.</li> <li>• Toni Giovanni: Do the salt mines in the area increase the sinkhole probability? And we have natural gas wells.</li> <li>• Jessica Stokes: Abandoned mines can increase the probability due to soil instability and gaps in the soil where water can build up, so if the salt mines are abandoned than absolutely. I can take a deeper look into this and add it into the hazard profile. We'll also conduct additional research on natural gas wells and their potential impacts.</li> <li>• Scott Feuerstein: When looking at landslide, did you look at wildfire zones and how they may impact landslide risk?</li> <li>• Jessica Stokes: We did include a discussion on this in the landslide hazard profile. In particular, how wildfires can cause soil instability and increase the possibility of landslides through degradation.</li> </ul> </li> <li>▪ Severe Weather</li> <li>▪ Severe Winter Weather</li> </ul> </li> </ul>	<p>Tt to confirm whether soil type was overlayed on slope types for landslide hazard.</p> <p>Tt to confirm that salt mines and natural gas wells are being considered in analyses.</p>
5	<p><b>Hazard Rankings</b></p> <ul style="list-style-type: none"> <li>• The calculated probability of a hazard occurring based on historical data</li> <li>• <i>Impacts to <u>people</u>, <u>property</u>, and the <u>economy</u></i> based on GIS data and analysis of exposure.</li> <li>• The degree to which <u>climate change</u> will affect future occurrences based on best available data.</li> <li>• The degree to which existing <u>capabilities</u> (the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness) decrease overall risk.</li> </ul>	<p>County discusses moving Flood hazard to high due to increasing flood impacts to infrastructure</p>

**Seneca County, NJ – Hazard Mitigation Plan 2025 Update**  
**Steering Committee Risk Assessment Meeting | Meeting Minutes**



	<ul style="list-style-type: none"> <li>Ranking: <ul style="list-style-type: none"> <li>High: Severe Weather, Severe Winter Weather</li> <li>Medium: Flood, Extreme Temperature, Dam Failure, Earthquake</li> <li>Low: Drought, Landslide</li> </ul> </li> </ul>	
6	<b>Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)</b> <ul style="list-style-type: none"> <li>Strengths – what the County and communities do well; things upon which we can capitalize.</li> <li>Weaknesses – what can be done better; what can be strengthened.</li> <li>Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues).</li> <li>Opportunities - actions or projects to mitigate issues or improve resilience.</li> </ul>	-
7	<b>Next Steps</b> <ul style="list-style-type: none"> <li>Share information about the HMP Update via social media, community groups, and networks</li> <li>Complete SWOO and Preliminary Rankings worksheets</li> <li>Attend the Planning Partnership Risk Assessment and Mitigation Strategy Workshop on Thursday, September 19 @ 5:30PM, in-person at the Seneca County Emergency Management (1 DiPronio Drive, Waterloo NY 13165).</li> </ul>	-
8	<b>Questions/Discussion</b>	-



# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

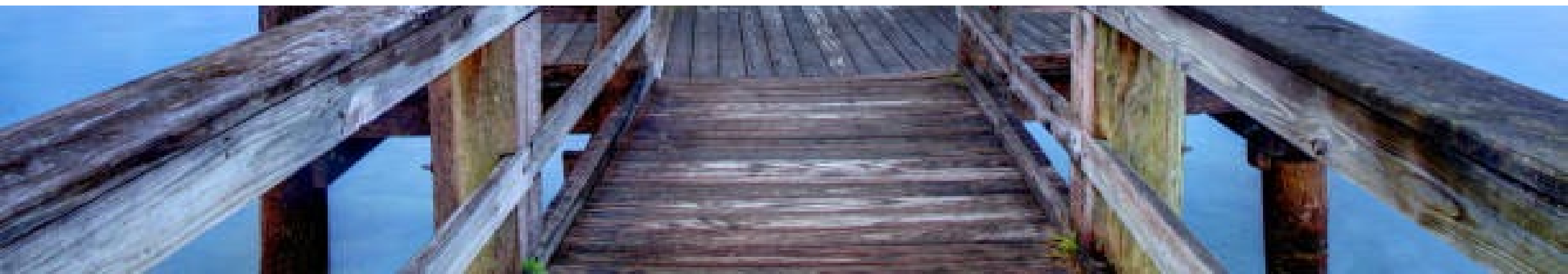
**Steering Committee Risk Assessment Meeting**

September 12, 2024

While waiting for the meeting to start, please enter your name, title, and department/agency in the chat



# Today's Agenda

1. Welcome and Introductions
  2. Project Status
  3. Risk Assessment Overview
  4. Feedback and Input
  5. Next Steps
  6. Questions/Wrap Up
- 





# Project Status



# Municipal Participation Status

- To date, we have not received all municipal worksheets. The below jurisdictions still have outstanding worksheets to submit. Your Tetra Tech planner will be sending a summary of information needed.

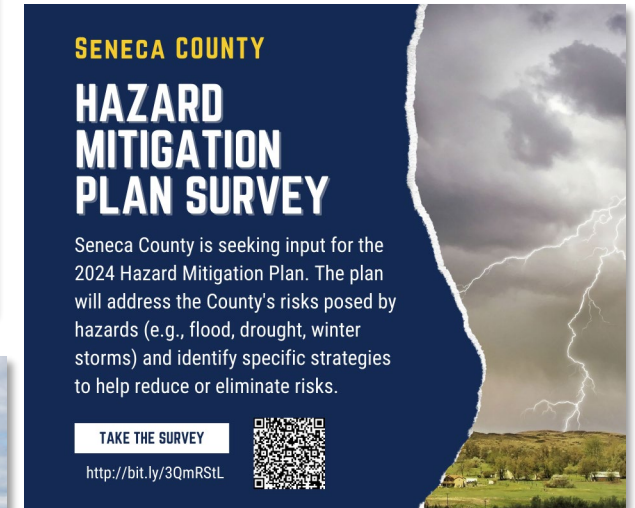
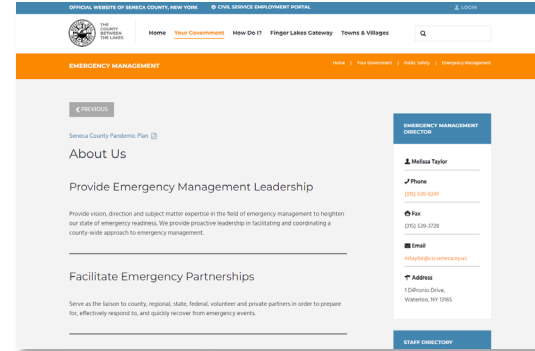
Municipality	Hazard Event History	Capability Assessment	NFIP Summary	Past Action Review	Building Permits
Town of Covert	X		X	X	
Town of Fayette	X				
Town of Junius	X	X	X	X	X
Village of Lodi					X
Town of Ovid				X	X
Town of Varick				X	
Town of Waterloo	X		X		
Village of Waterloo					X

Note: an 'X' indicates the worksheet has **NOT** been returned or was not returned completed

# Public Outreach Strategy



- Public Outreach Toolkit
  - Social media templates and posts
  - Press release templates
  - Printable materials
- Surveys
  - Stakeholders
  - Neighboring communities
  - Public
- County Website
- StoryMap







# Risk Assessment Overview



# What is Risk?

Risk is defined as a function of :

- Hazard
  - Source of potential danger or adverse condition
- Exposure
  - Manmade or natural features that are exposed to the hazard
- Vulnerability
  - Damage susceptibility of the exposed features
- Adaptive Capacity (or capability)
  - Plans/policies
  - Response/recovery
  - Financial resources





# Purpose of Risk Assessment

- To get a better understanding of the risks you face
- Initial results based on available data
- Quantitative data (population/structures exposed, structural damages within hazard zones) used when available
- Qualitative community input (such as unmapped flood areas) integrated to adjust results
- Local community input to adjust relative rankings





# Preliminary Risk Assessment Results



# Dam Failure

Dam failures in Seneca County are a low-probability and high-consequence event. A dam failure can have devastating impacts on the County. While most dams have storage volumes small enough that failures would have little or no consequences, dams with large storage amounts could cause significant flooding downstream.

## Number of Dams

# 10

- 2 High Hazard
- 0 Significant Hazard
- 6 Low Hazard
- 2 Undesignated

## Impacts

- Dam failure can cut evacuation routes, limit emergency access, and/or create isolation issues.
- Severe flooding can cause extensive structural damage and withhold essential services.
- The environmental impacts of a dam failure can include significant water-quality and debris-disposal issues or severe erosion that can impact local ecosystems.

## Dam Failure in New York State



## Climate Change Impacts

Seneca County is expected to experience increased precipitation and more frequent, intense storms. Excessive rainfall can cause a dam to overflow since these structures are designed partly based on assumptions about river flow and precipitation patterns. More frequent and intense precipitation leads to more intense dam overtopping, potentially affecting a larger area and producing stronger water velocities that exacerbate damages to general building stock and critical facilities.



# Drought

Droughts can affect Seneca County's industries and make day to day tasks more difficult to complete when water usage must be monitored.

Population Exposed

33,814

(100%)

The entire County is susceptible

Climate Change Impacts

Short-term seasonal droughts lasting weeks or months could increase, especially in the summer. This is because of precipitation falling in more intense bursts with longer dry spells in between and higher temperatures in the summer causing more water to evaporate. The potential increase of short-term droughts may impact water systems, resulting in water shortages.

Drought Damaged Field



Hazard Types



Meteorological



Hydrological



Agricultural



Socioeconomic



Ecological

# Earthquake



Earthquakes in Seneca County are a low-probability and high-consequence event. An earthquake can have devastating impacts on the County. Ground shaking can lead to the collapse of buildings and bridges and disrupt gas lines, electricity, and phone service.

## Climate Change Impacts

The impacts of global climate change on earthquake probability are still being studied. Secondary impacts of earthquakes could also become magnified by climate change.

## Population Exposed

**33,814**

The entire County is susceptible

**18,482**

Population in NEHRP Soils Class D and E are at higher risk

## Hazard Types

- Surface Faulting
- Ground Motion
- Liquefaction
- Tectonic Deformation

## Number of Buildings Exposed

**10,592**

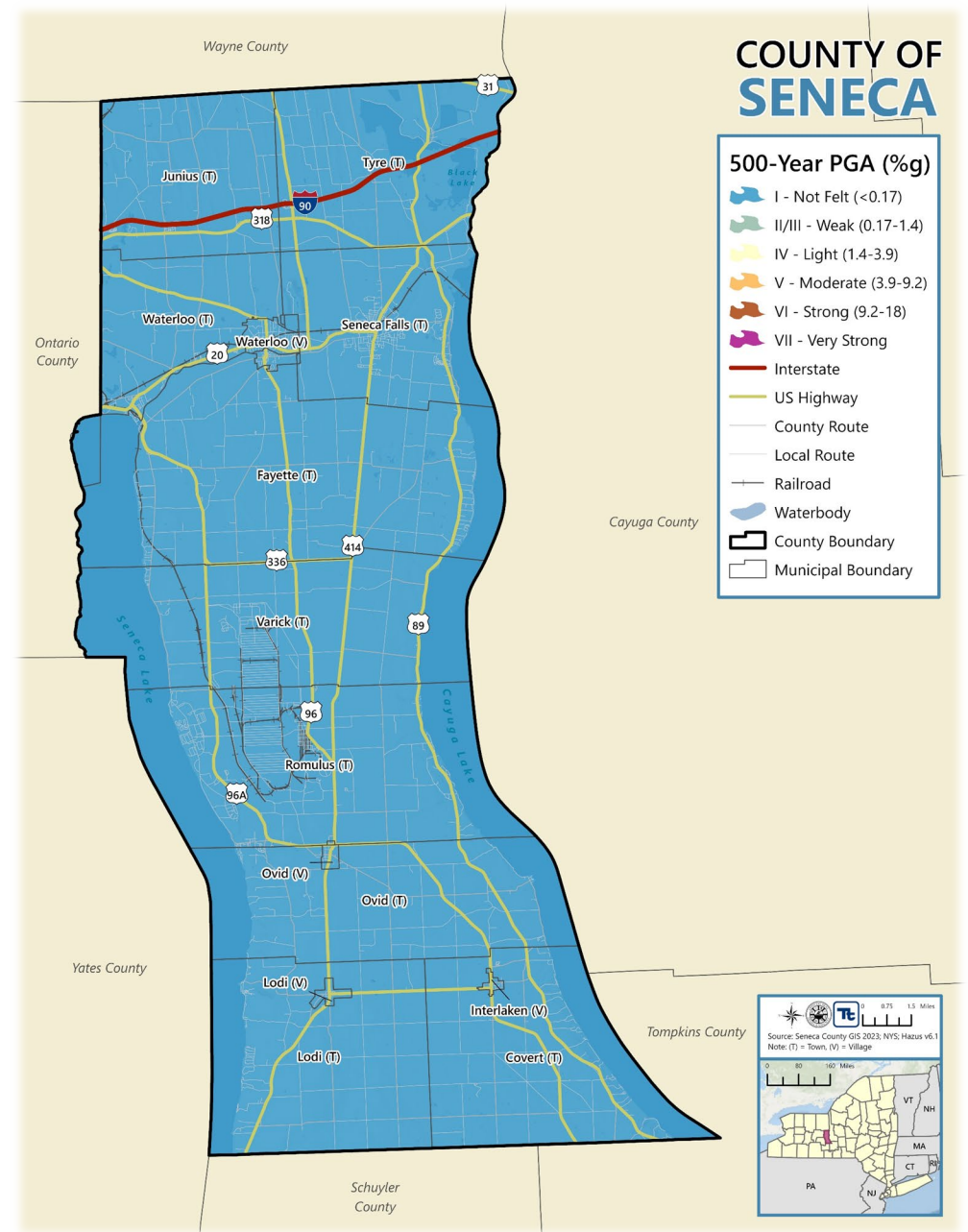
In NEHRP Soils Class D and E

## Building Replacement Cost Value

**\$6,474,027,571**

In NEHRP Soils Class D and E

## 500-Year Peak Ground Acceleration in Seneca County



# Extreme Temperature

Extreme temperature includes both heat and cold events, which affects the entire County including, human health and commercial/agricultural businesses. Extreme temperature events can have primary and secondary effects on infrastructure.

Population Exposed

33,814

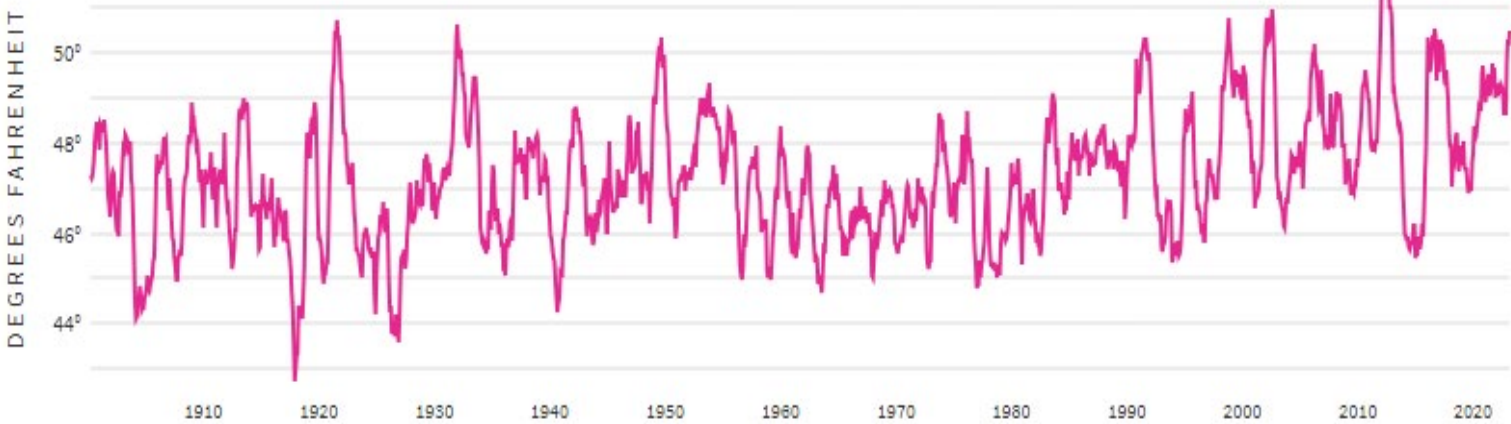
(100%)

The entire County is susceptible

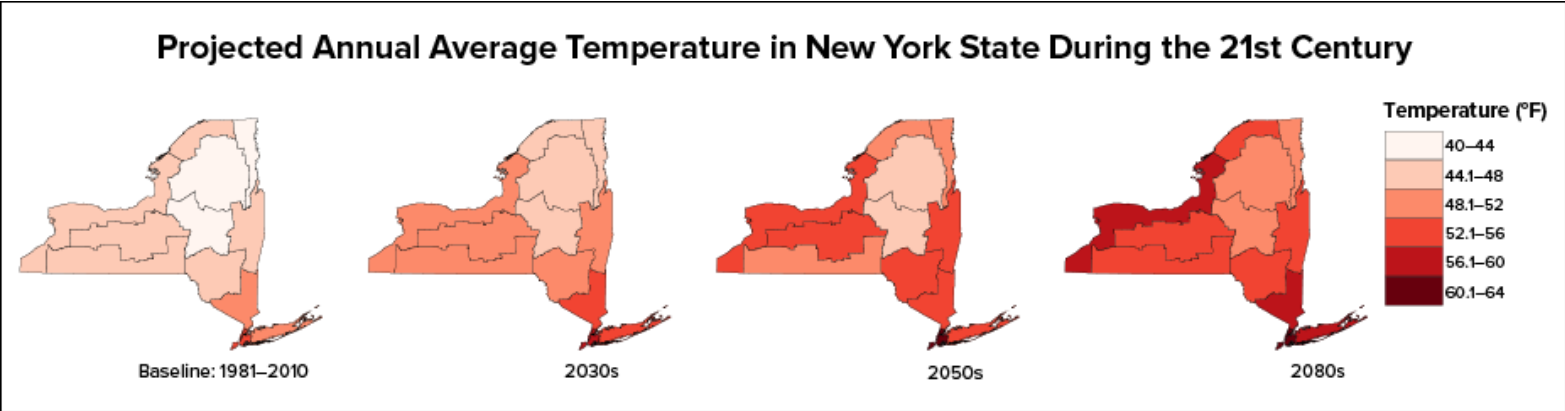
## Climate Change Impacts

Annual average temperatures are projected to increase across New York State by 2.5°F to 4.4°F by the 2030s and 3.8°F to 6.7°F by the 2050s. The warming is projected to be the greatest in the northern regions of the state and projections suggest that each season will experience a comparable amount of warming in the future relative to the baseline period.

12-Month Temperature Averages in Seneca County



Projected Annual Average Temperature in New York State During the 21st Century





# Flood



Floods can happen almost anywhere in County but tend to occur in and around areas near existing bodies of water. Sloped land in the County results in flowing water moving down steeper gradients and being naturally or artificially channelized through valleys and gullies.

### Climate Change Impacts

Precipitation totals are estimated increase by zero to 11 percent by the 2050s, increase by two to 17 percent by the 2080s, and decrease by three percent or increase by up to 22 percent by 2100, relative to the 1981-2010 base period. The projected increase in precipitation is expected to fall as heavy downpours.

### Hazard Types

- Riverine / Inland
- Flash Flood
- Lakeshore
- Ice Jam
- Urban/Stormwater

### Population Exposed

1,644

In 1% Annual Chance Flood Area

9,083

In 0.2% Annual Chance Flood Area

### Number of Buildings Exposed

1,168

In 1% Annual Chance Flood Area

8,370

In 0.2% Annual Chance Flood Area

### Flood Building Replacement Cost Value

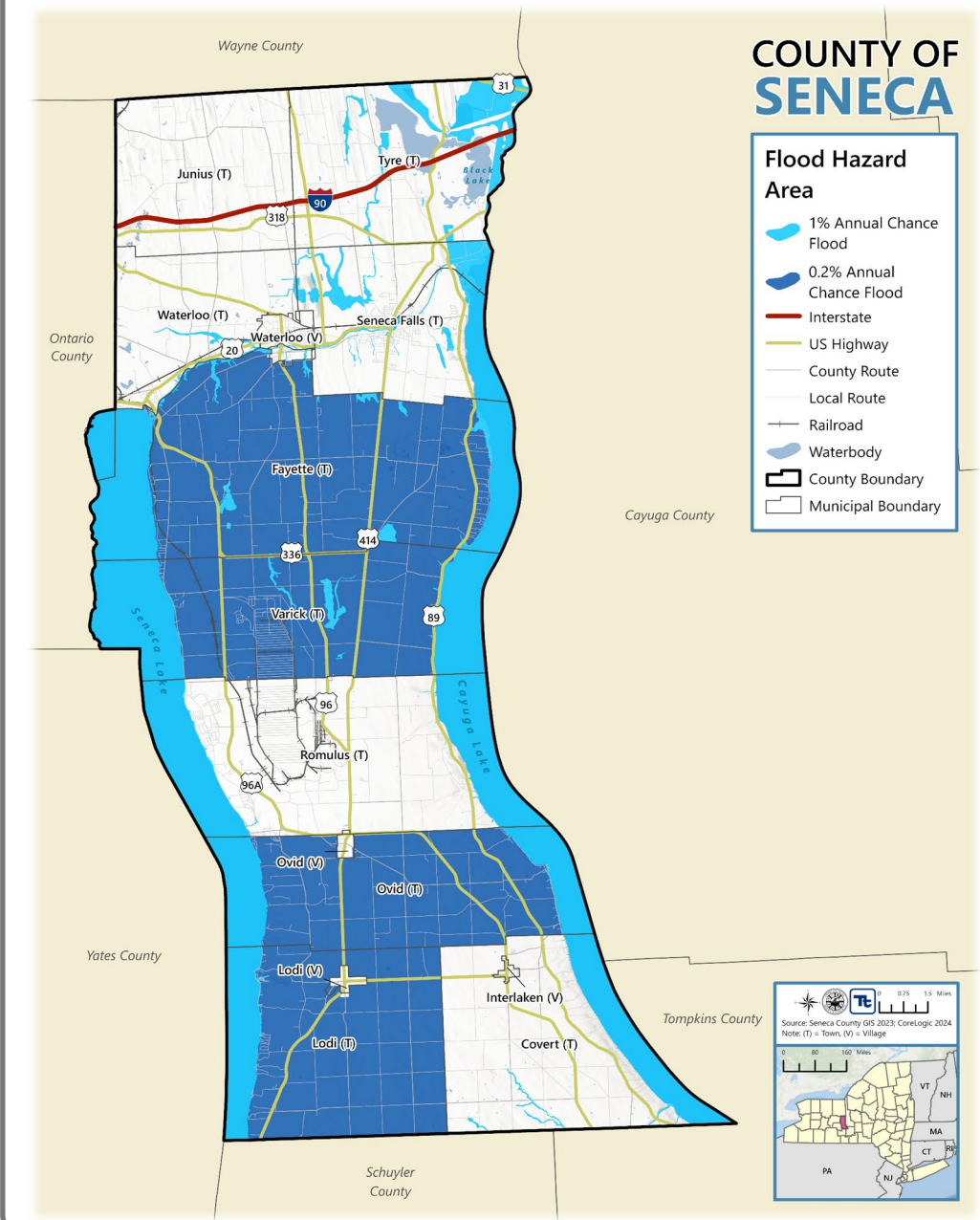
\$356,056,844

In 1% Annual Chance Flood Area

\$4,415,760,986

In 0.2% Annual Chance Flood Area

### FEMA Flood Hazard Areas



# Landslide



Landslides and subsidence sinkholes are common in the State of New York, primarily in northern regions. Expansion of urban and recreational developments into hillside areas exposes more people to the threat of landslides each year.

## Climate Change Impacts

Recent studies show that climate change is impacting slow-moving landslides, which is where the land creeps downhill just inches to feet in a single year. Landslides in wet and dry regions showed similar sensitivity to extreme precipitation events, moving on average faster and farther downhill during rainy periods compared to drought years.

## Number of Buildings Exposed

536

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

668

High (> 20%) Landslide  
Incidence Hazard Area

## Population Exposed

696

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

841

High (> 20%) Landslide  
Incidence Hazard Area

## Building Replacement Cost Value

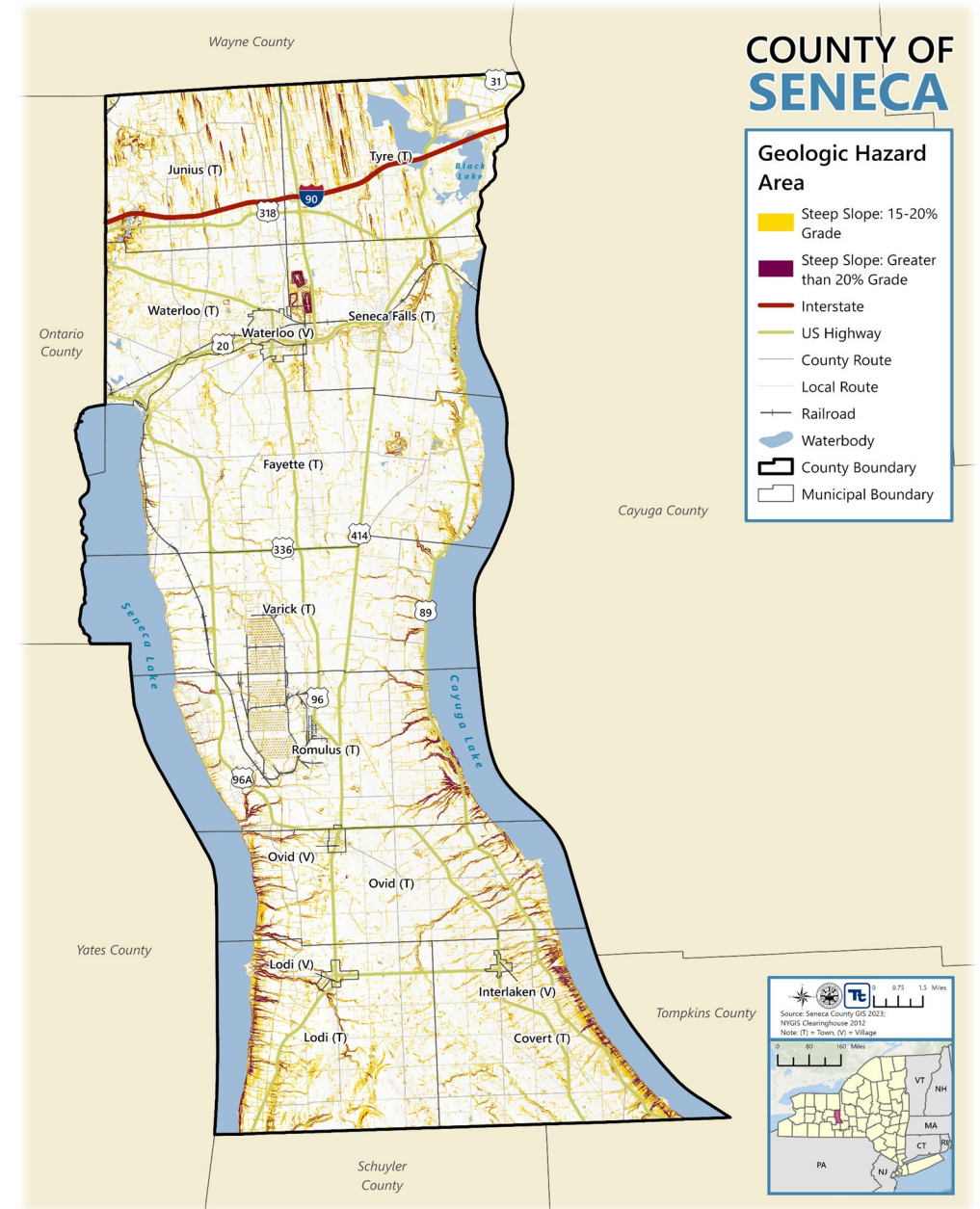
\$253,831,864

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

\$379,088,340

High (> 20%) Landslide  
Incidence Hazard Area

## Geologic Hazard Area in Seneca County





# Severe Weather

Severe weather can occur anywhere in the County at any time and have the potential to be life-threatening. It is critical for the community to prepare and be aware of forecasts in their local jurisdictions.

## Population Exposed

33,814

(100%)

The entire County is susceptible

## Notable Occurrences

On April 4, 2018 strong winds behind an intense storm system resulted in multiple reports of wind gusts of 60 mph with trees and wires down in many locations. In Seneca County \$40,000 in property damage was reported.

## Potential Impacts

- Power Outages
- Traffic Accidents
- Downed Trees
- Property Damage
- Personal Injury / Loss of Life

Microburst Wind Damage at Compton Farms in Ovid



## Hazard Types

 High Wind

 Tornado

 Thunderstorm and Lightning

 Hailstorms

 Hurricanes and Tropical Storms



# Severe Winter Weather

Severe winter weather can occur anywhere in the County and have the potential to be life-threatening. It is critical for the community to prepare and be aware of forecasts in their local jurisdictions.

Population Exposed

33,814  
(100%)

The entire County is susceptible

Hazard Types

- Heavy Snow
- Sleet
- Blizzard
- Ice Storm
  - Freezing Rain

Car Left Along Highway During Snowstorm



Notable Occurrence



A winter storm in early 2021 resulted in reports of 11 inches to 24 inches of snow across Seneca County.

Climate Change Impacts

Snowfall is likely to become less frequent, with the season decreasing in length. As winters continue to warm, ice is projected to become rarer, which may lead to more snow in the short term. Over the long term, however, more of this is likely to fall as rain.



# Hazard Rankings

Review the calculated hazard rankings and provide your feedback.

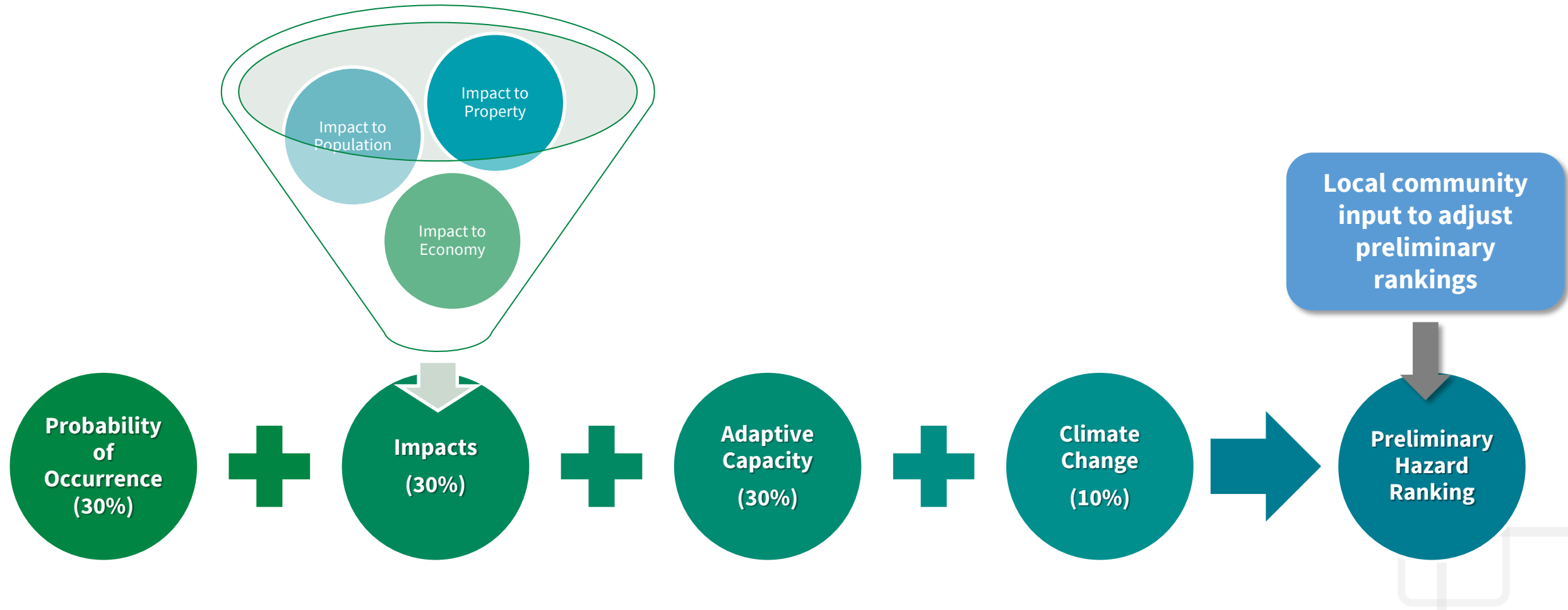
# Preliminary Hazard Ranking Methodology



- The calculated probability of a hazard occurring based on historical data
- *Impacts to people, property, and the economy* based on GIS data and analysis of exposure.
- The degree to which climate change will affect future occurrences based on best available data.
- The degree to which existing capabilities (the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness) decrease overall risk.



# Preliminary Hazard Ranking Formula





# Preliminary Risk Ranking (County)

## High

- Severe Winter Weather
- Severe Weather

## Medium

- Flood
- Extreme Temperature
- Dam Failure
- Earthquake

## Low

- Drought
- Landslide

Severe Winter Weather

Severe Weather

Flood

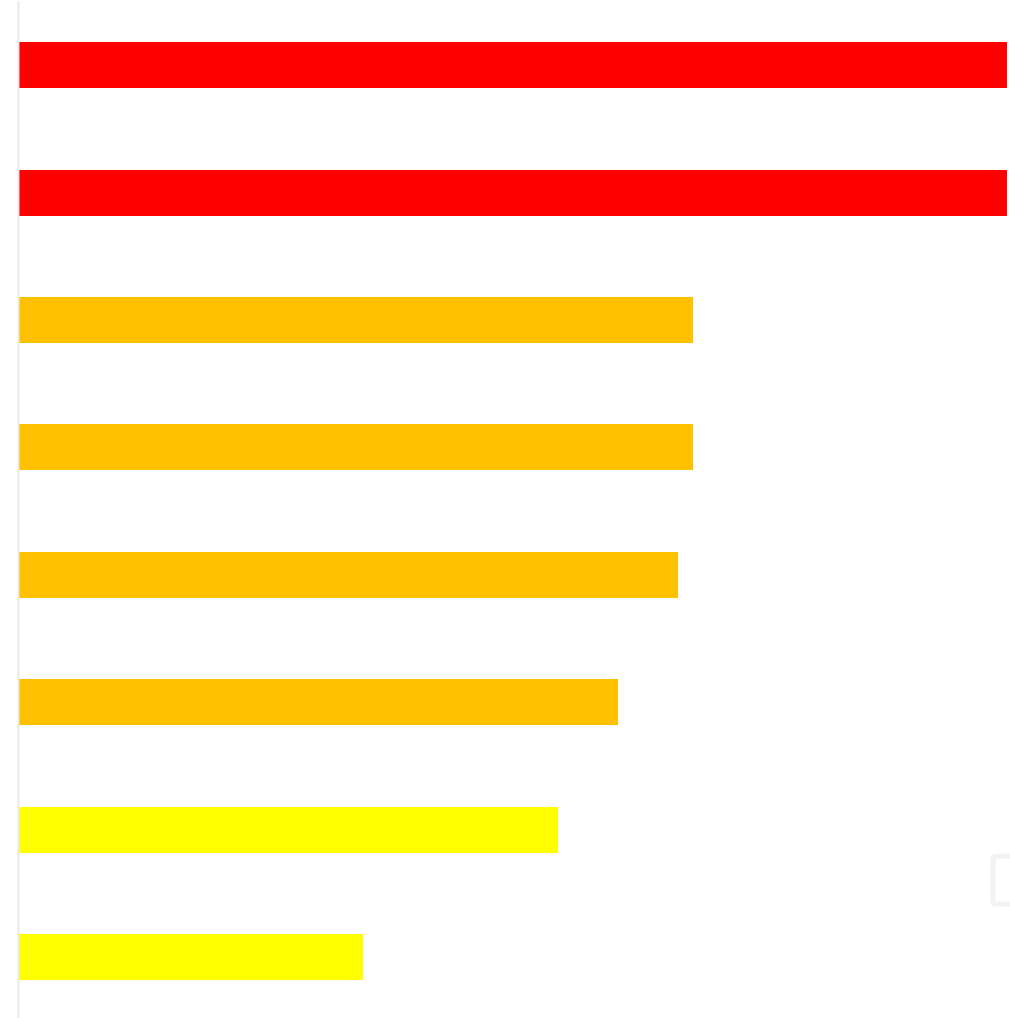
Extreme Temperature

Dam Failure

Earthquake

Drought

Landslide






# Review Preliminary Rankings



# Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)



- The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Seneca County HMP. The results will be used to develop a catalog of potential mitigation actions for use by the County and all jurisdictions. Look at the following for each hazard of concern:
  - Strengths – what the County and communities do well; things upon which we can capitalize;
  - Weaknesses – what can be done better; what can be strengthened;
  - Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and
  - Opportunities - actions or projects to mitigate issues or improve resilience.
- Return this sheet to Jessica Stokes ([Jessica.Stokes@tetrattech.com](mailto:Jessica.Stokes@tetrattech.com)) at Tetra Tech.

 Seneca County | Hazard Mitigation Plan 2025 Update  
SWOO

Update this worksheet and return this worksheet to Jessica Stokes at  
[Jessica.Stokes@tetrattech.com](mailto:Jessica.Stokes@tetrattech.com)


Name/Title of Individual Completing Worksheet: \_\_\_\_\_

**STRENGTHS, WEAKNESSES, OBSTACLES, AND OPPORTUNITIES (SWOO)**

The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Burlington County Hazard Mitigation Plan. The results will be used to develop a catalog of potential mitigation actions for use by the County and all jurisdictions. The opportunities developed from this process will serve as the basis for our catalog of potential mitigation alternatives. The alternatives will address our risks, meet our planning goals, and fall within our capabilities. We need to look at the following for each hazard of concern:

- **Strengths** – what the County and communities do well; things upon which we can capitalize;
- **Weaknesses** – what can be done better; what can be strengthened;
- **Obstacles** – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and
- **Opportunities** - actions or projects to mitigate issues or improve resilience.

Dam Failure
Strengths
Weaknesses
Obstacles
Opportunities

 TETRA TECH

1 Seneca County Hazard Mitigation Plan

# Review Preliminary Rankings



Seneca County | Hazard Mitigation Plan 2025 Update  
Hazard Ranking

Complete this worksheet to and return to Jessica Stokes (Jessica.Stokes@tetrattech.com)

Municipality: \_\_\_\_\_  
Name/Title of Individual Completing Worksheet: \_\_\_\_\_

## What is a hazard ranking?

Hazard Ranking is used to understand your community's vulnerabilities to hazards and to prioritize projects and activities for mitigation.

Hazard Ranking is determined by quantitative and qualitative factors including:

1. The calculated probability of a hazard occurring based on historical data.
2. Impacts to people, property, and the economy based on GIS data and analysis of exposure.
3. The degree to which climate change will affect future occurrences based on best available data.
4. Adaptive Capacity, which is the ability your community has to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.



## What is my hazard ranking?

The following table represent the calculated rankings for the hazards of concern for your community. Please review the calculated rankings and indicate whether or not you want to adjust the ranking. If you are changing the ranking, please provide detail as to why you are changing the ranking. **REMEMBER, for every hazard of concern, you need at least one mitigation action.**

Continued on next page.



Seneca County | Hazard Mitigation Plan 2025 Update  
Hazard Ranking

## What are the hazards we need to address?

FEMA requires each participating jurisdiction include at least one mitigation action for each of the hazards of concern. If your jurisdiction does have incur impacts or has determined it does not endure risks from an identifies hazard(s), please indicate so. For the Seneca County 2025 Hazard Mitigation Plan update, the hazards of concern are as follows:

Hazard	Preliminary Ranking	Agree with preliminary ranking (Y/N)? If No, indicate preferred ranking	What local information or conditions have resulted in the adjustment in hazard ranking?
Dam Failure			
Drought			
Earthquake			
Extreme Temperature			
Flood			
Landslide			
Severe Storm			
Severe Winter Storm			

## What is Adaptive Capacity?

Adaptive capacity describes a jurisdiction's current ability to protect from or withstand a hazard event.

- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.

Hazard	Preliminary Ranking	What should we indicate for your community's adaptive capacity for each hazard?
Dam Failure	Moderate	
Drought	Moderate	
Earthquake	Moderate	
Extreme Temperature	Moderate	
Flood	Moderate	
Landslide	Moderate	
Severe Storm	Moderate	
Severe Winter Storm	Moderate	

Note: \*Adaptive capacity was assumed Moderate for all hazards.



# Next Steps



- Complete SWOO and Preliminary Ranking Worksheets
- Share information about the HMP Update via social media, community groups, and networks
- Planning Partnership Risk Assessment Review and Mitigation Strategy Workshop on Thursday, September 19 @ 5:30PM in person at Seneca County Emergency Management (1 DiPronio Drive, Waterloo NY 13165).




# Questions?

## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Contacts

Jessica Stokes, MSEM, NJCEM  
(973) 630-017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



Thank  
You!





# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2024 Update

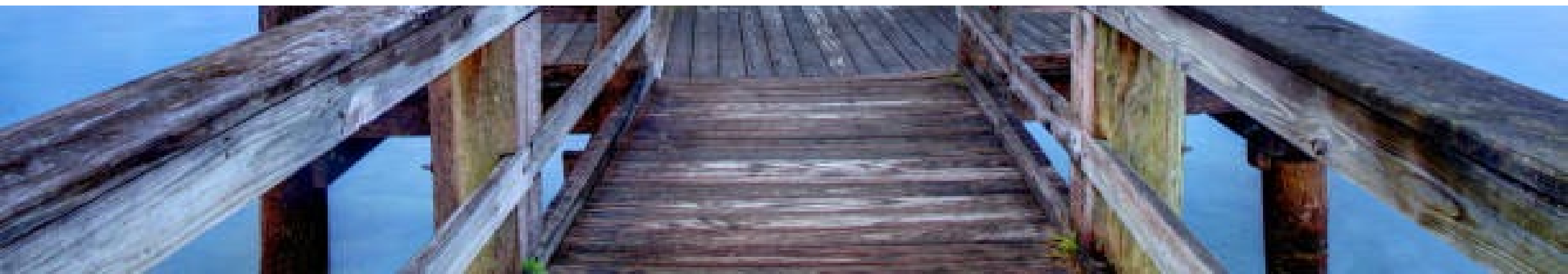
**Steering Committee Kick-Off Meeting**

November 2, 2023

While waiting for the meeting to start, please enter your name, title, and department/agency in the chat.



# Today's Agenda

1. Welcome and Introductions
  2. Hazard Mitigation Planning Overview
  3. Project Organization
  4. Steering Committee Responsibilities
  5. Planning Process Overview
  6. Schedule
  7. Questions/Next Steps/Wrap Up
- 





# Hazard Mitigation Overview

Mitigation planning happens before a disaster strikes. It results in safer, more resilient communities – reducing risk for the residents, businesses, and critical services in Seneca County.

# Hazard Mitigation Planning Overview



- ✓ Authorized by the Disaster Mitigation Act of 2000
- ✓ Provides an overview of the impacts of natural hazards on communities
- ✓ Provides a roadmap to reducing the impact of these hazards
- ✓ Requires a FEMA-approved natural hazard mitigation plan to be eligible for Pre-Disaster Mitigation Funding
- ✓ 5-year updates required to maintain eligibility

- What is hazard mitigation?
- Why update the plan?
- What is the process?

# What is Hazard Mitigation?



Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

-or-

Any action taken to reduce future disaster losses



**“provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).**



# Why Update?



- The mitigation plan update will:
  - Help prepare for and mitigate hazards
  - Eligibility for pre- and post-disaster mitigation funding
  - Incorporate new FEMA requirements
- What is at risk in Seneca County?
- Which hazard do you think occurred the most since 2018?

January 2018 – July 2023	
Hazard	Occurrences
Blizzard	0
Extreme Cold, Cold/Wind Chill	1
Drought	0
Heat, Excessive Heat	0
Flood/Flash Flood	5
Hail	0
Heavy Rain	0
Hurricane/ Tropical Storm/ Tropical Depression	0
Lightning/ Thunderstorm	12
Tornado/Funnel Cloud	0
Wind	3
Winter Weather	9
Wildfire	0
<b>TOTAL</b>	<b>30</b>

Source: NOAA NCEI Severe Weather Inventory 2023



# Differences from the 2018 Planning Process

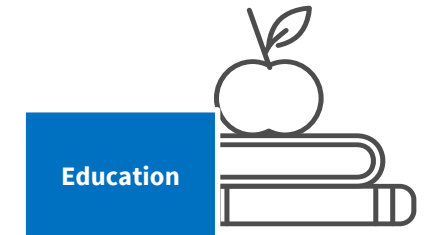
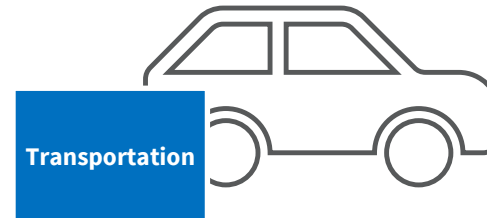
- Involvement – engaged and actively participating
- Public and stakeholder outreach
- Socially vulnerable and underserved communities
- Climate change
- Mitigation actions for every hazard of concern



# Defining Social Vulnerability



- Social vulnerability is the likelihood of an individual, community, or group to be negatively affected by external stressors which create barriers to adequately being able to prepare for, respond to, and recover from an emergency or disaster.
- The same disaster can impact different populations in different ways.
- The ability of an individual or community to withstand and recover from hazards is critical to overall community resilience.
- ***What groups can we identify that we should be reaching out to during this planning process?***





# Project Organization

Working with individuals, agencies, neighboring jurisdictions, businesses, and other partners for a successful mitigation planning process.

# Project Organization



## Core Planning Team

Seneca County  
Office of  
Emergency  
Management,  
Tetra Tech



## Steering Committee

## Planning Partnership



## Stakeholders



FEMA

Homeland  
Security &  
Emergency  
Services



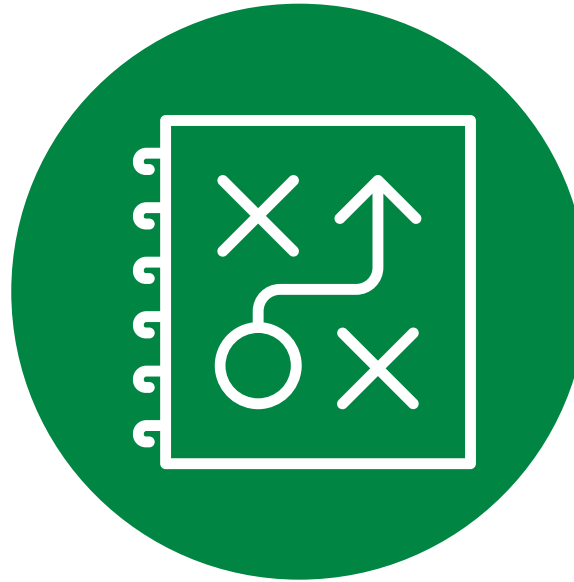
## NYSDHSES and FEMA



# Steering Committee Role and Responsibilities



**Provide Guidance and Leadership**



**Oversee the Planning Process**



**Act as Points of Contact for Planning Partners and Stakeholders**





# Planning Process Overview

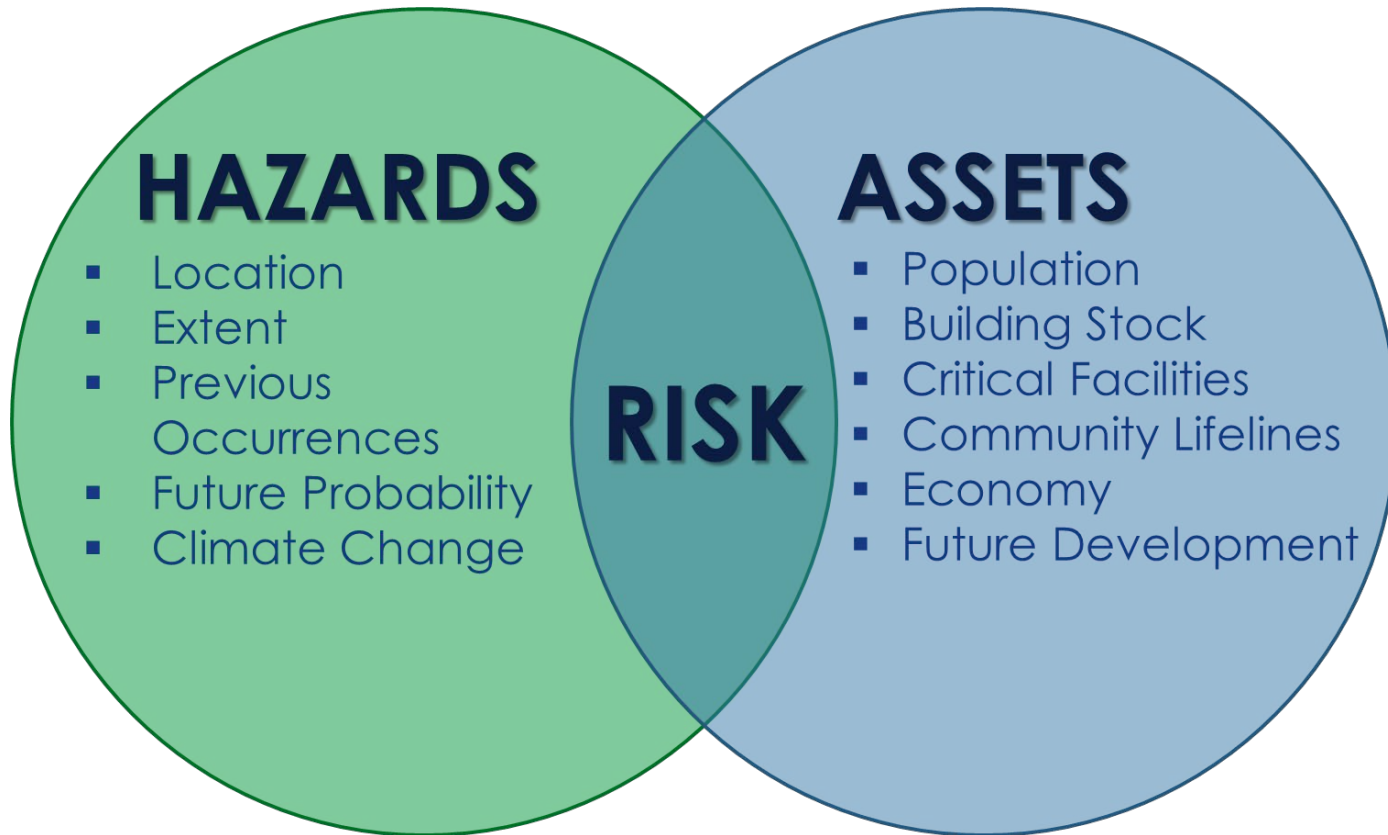
A well-defined planning process is essential to the success of Seneca County's HMP Update.



# Planning Process Overview



# Update Risk Assessment



- Update Assets
- Examine Previous Impacts
- Analyze Risks
- Review with Steering Committee
- Risk Assessment Meeting

# Hazards of Concern



**Dam Failure**



**Drought**



**Earthquake**



**Extreme Temperature**



**Flood**



**Landslide**



**Severe Storm**



**Severe Winter Storm**





# Critical Facilities and Community Lifelines

- **Critical Facilities** provide essential services to the community, especially before, during, and after a disaster.
- **Community Lifelines** provide services that allow continuity of operations of critical business and government functions, and crucial to health and safety of residents.





# Critical Facilities and Community Lifelines



## Safety and Security

- Correctional
- Dam
- Daycare
- EOC
- Fire/EMS
- Government / Municipal Hall
- Historic Sites
- Library
- Military
- Police
- School



## Food, Hydration, Shelter

- Shelter
- Grocery Stores
- Food Distribution Centers



## Health and Medical

- Medical
- Senior Care Facilities



## Energy

- Electric Substation
- Power Lines

# Critical Facilities and Community Lifelines



## Communications

- Communication Towers



## Transportation

- Airport
- County Roads
- State Highways
- Light Rail
- Intermodal Transit



## Hazardous Materials

- Tier Facilities
- Chemical



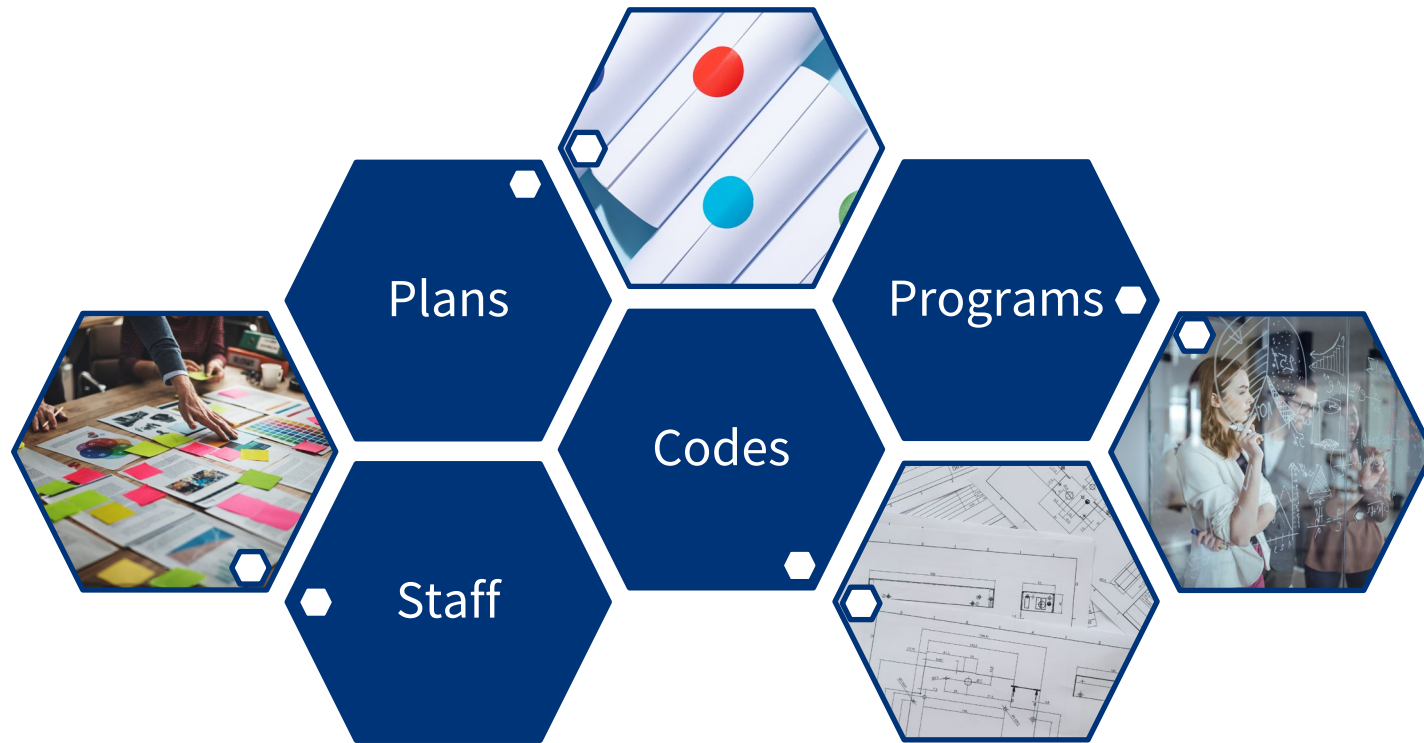
## Water Systems

- Potable Pump Station
- Wastewater Pump
- Wastewater Treatment Plant
- Water Tower
- Potable Well

# Capability Assessment



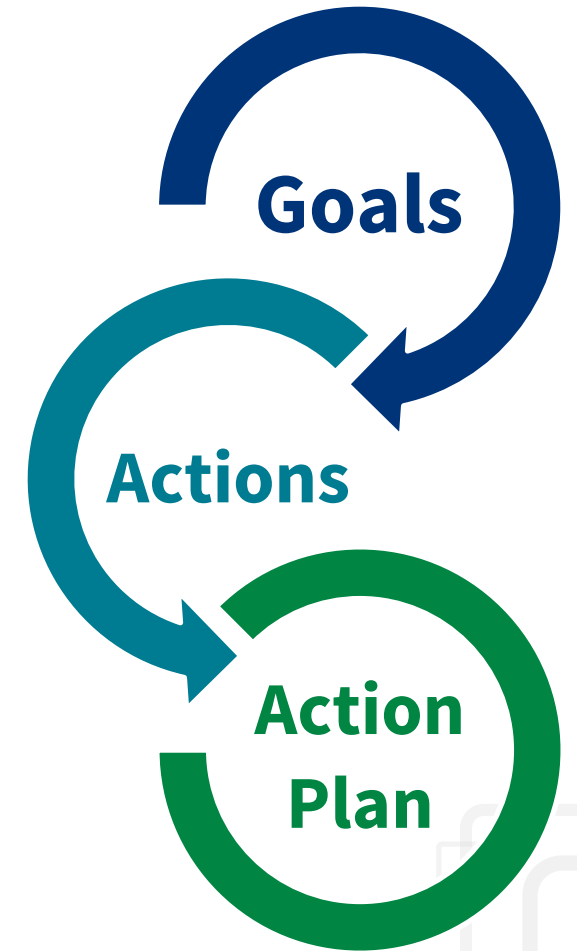
- Capabilities
  - What do the County and municipalities use to reduce risk to hazards?





# Mitigation Strategy

- Goals
  - What outcomes do you want to achieve?
- Actions
  - What specific actions will be taken to reduce hazard risk?
- Action Plan
  - How will the actions be prioritized and implemented?

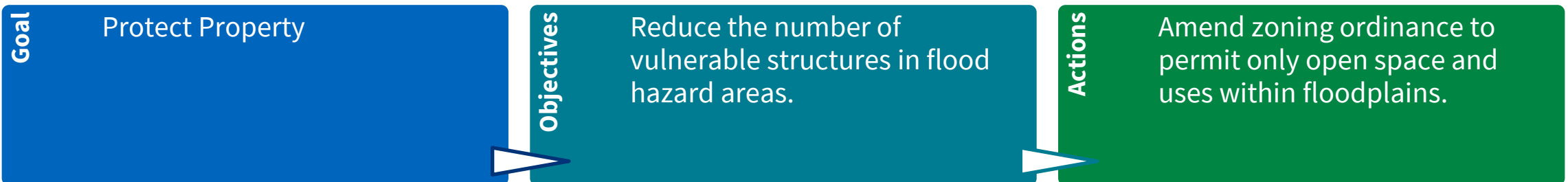




# 2018 Goals and Objectives



Goal Number	2018 Goal
G-1	Improve life safety and damage prevention by strengthening the relationship between emergency services and hazard mitigation programs
G-2	Emergency Services Improvements
G-3	Natural Hazards Public Education



# 2024 Proposed Goals and Objectives



Goal #	2024 Goal	Objective
G-1	Coordinate hazard mitigation programs that affect the County.	1.1: Develop and maintain multi-jurisdictional coordination efforts related to hazard mitigation.
		1.2: Develop and maintain partnerships with external federal, state, municipal, and stakeholder agencies that have a role in hazard mitigation.
		1.3: Track and/or recommend local, county, state, and federal legislation and regulations related to hazard mitigation.
G-2	Prevent hazards from impacting life, property, and the environment.	2.1: Develop and maintain local regulations that reduce vulnerability to hazards.
		2.2: Develop and maintain local plans that reduce vulnerability to hazards.
		2.3: Improve the county's stormwater management systems.
G-3	Protect life, property, and the environment from hazard impacts.	3.1: Encourage homeowners, renters, and businesses to insure their properties against all hazards, including flood coverage under the National Flood Insurance Program (NFIP).
		3.2: Acquire, relocate, elevate, and/or retrofit existing structures located in hazard areas.
		3.3: Acquire, relocate, elevate, and/or retrofit repetitive loss properties from flood-prone areas.
		3.4: Encourage local participation in the Community Rating System (CRS) Program.
		3.5: Maintain emergency response capability.

# 2024 Proposed Goals and Objectives

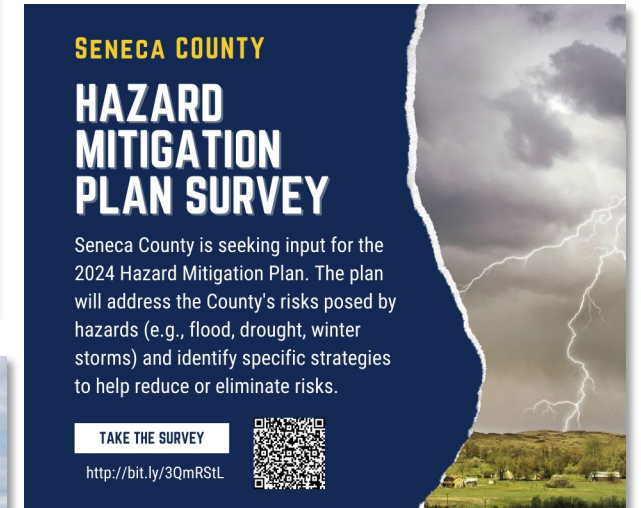
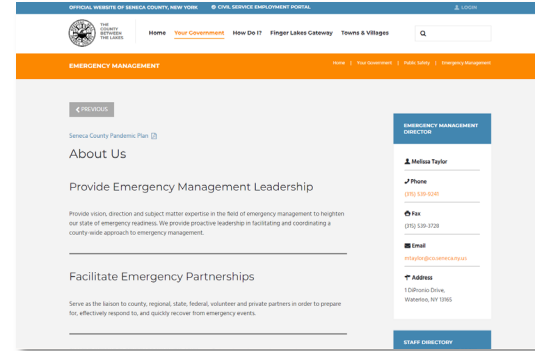


Goal #	2024 Goal	Objective
G-4	Increase public awareness of hazards, their impacts, and ways to reduce vulnerability.	4.1: Improve public alert, warning, and communications systems by promoting redundant and multi-faceted communications methods.
		4.2: Conduct a coordinated public information program related to hazards and their impacts throughout the county.
		4.3: Encourage residents to implement hazard mitigation and preparedness measures on their properties.
		4.4: Promote personal and family preparedness
G-5	Protect, preserve, and restore the functions of natural systems.	5.1: Encourage the use of green and natural infrastructure.
		5.2: Coordinate with local, county, state, federal, international, and other stakeholder agencies to maintain natural systems, including wetlands, parks, and riverine and coastal areas.
G-6	Address Long-Term Vulnerabilities from High Hazard Dams	6.1: Ensure dam infrastructure is maintained
		6.2: Ensure Emergency Action Plans are developed and updated
		6.3: Support the identification and access to funding to repair/replace dams

# Public Outreach Strategy



- Public Outreach Toolkit
  - Social media templates and posts
  - Press release templates
  - Printable materials
- Surveys
  - Stakeholders
  - Neighboring communities
  - Public
- County Website
- StoryMap



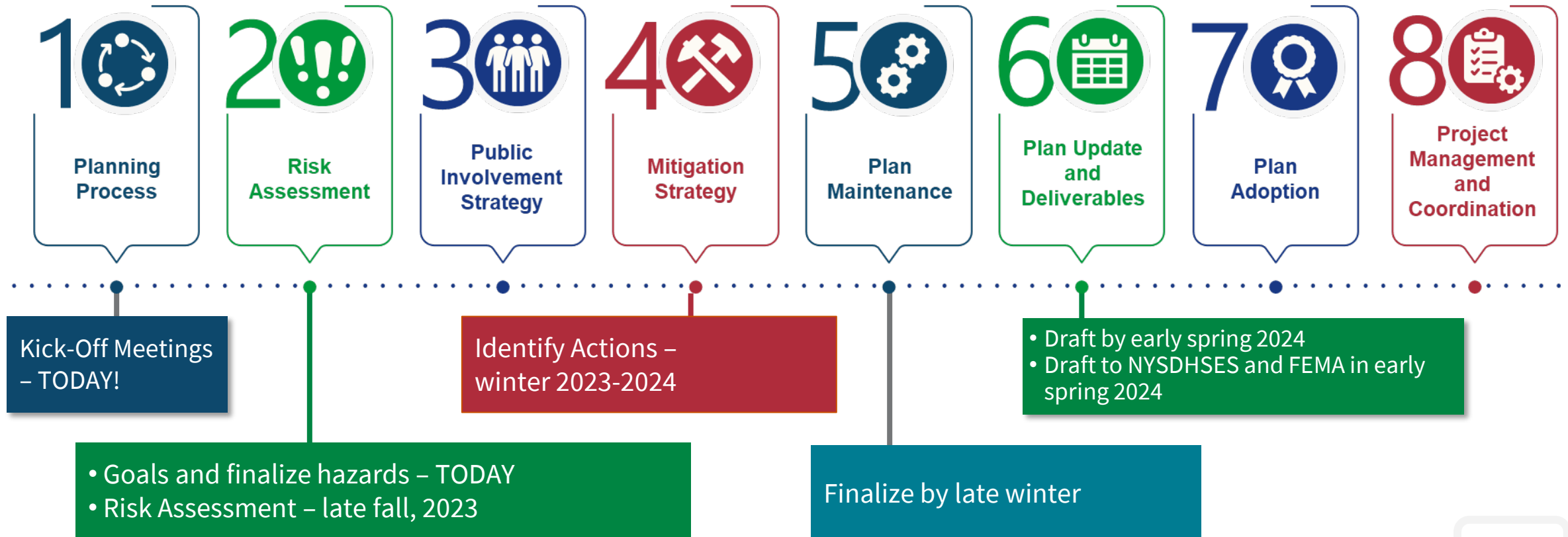




# Project Schedule

Upcoming meetings and key milestones throughout the HMP update process

# Schedule





# Questions?




## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Manager

Chris Huch, CFM  
(973) 630-8357 | [chris.huch@tetrattech.com](mailto:chris.huch@tetrattech.com)



Thank  
You!





**SENECA COUNTY HAZARD MITIGATION PLAN - UPDATE**  
**Planning Partnership Kick-Off Meeting**  
**November 2, 2023 at 1:00 PM**

**Dial In: +1 617-865-5234, Phone Conference ID: 297 894 563#**

**Meeting Link: <https://msteams.link/MZGU>**

**Meeting ID: 285 889 796 732**

**Passcode: A5qYma**



1. Introductions
2. Hazard Mitigation Planning Overview
3. Project Organization
4. Planning Team Responsibilities
5. Planning Process Overview
6. Homework
7. Project Schedule
8. Questions/Next Steps/Discussion

**Seneca County, NY – Hazard Mitigation Plan 2024 Update  
Planning Partnership Kick-Off Meeting | Meeting Minutes**



<b>Purpose of Meeting:</b>	Seneca County Planning Partnership Kick-Off Meeting	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	November 2, 2023 @ 1:00PM	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Division of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> <li>○ Jeff Case, Fire Coordinator</li> <li>○ Kristopher Rodger, Public Safety Systems Administrator</li> </ul> </li> <li>• <b>Seneca County Board of Supervisors</b> <ul style="list-style-type: none"> <li>○ Michael Enslow, Chairman</li> </ul> </li> <li>• <b>Covert (T)</b> <ul style="list-style-type: none"> <li>○ Michael Reynolds, Supervisor</li> </ul> </li> <li>• <b>Fayette (T)</b> <ul style="list-style-type: none"> <li>○ Jeff Trout, Supervisor</li> <li>○ Jenn Salone, Councilwoman</li> </ul> </li> <li>• <b>Interlaken (V)</b> <ul style="list-style-type: none"> <li>○ Rich Richardson, Mayor</li> </ul> </li> <li>• <b>Junius (T)</b> <ul style="list-style-type: none"> <li>○ Ernie Brownell, Supervisor</li> </ul> </li> <li>• <b>Ovid (T)</b> <ul style="list-style-type: none"> <li>○ Leon Kelly, Mayor</li> <li>○ Joe Borst, Supervisor</li> </ul> </li> <li>• <b>Romulus (T)</b> <ul style="list-style-type: none"> <li>○ David Hayes, Supervisor</li> </ul> </li> <li>• <b>Tyre (T)</b> <ul style="list-style-type: none"> <li>○ Elizabeth Partee, Supervisor</li> </ul> </li> <li>• <b>Waterloo (T)</b> <ul style="list-style-type: none"> <li>○ Don Trout, Supervisor</li> </ul> </li> <li>• <b>Waterloo (V)</b> <ul style="list-style-type: none"> <li>○ Don Northrup, Administrator</li> </ul> </li> <li>• <b>NYSDHSES</b> <ul style="list-style-type: none"> <li>○ Lisa Burkovich, Finger Lakes Regional Director</li> <li>○ Beth O'Reilly, Planning Manager</li> <li>○ John Wilkinson, Environmental Specialist</li> </ul> </li> <li>• <b>FEMA Region 2</b> <ul style="list-style-type: none"> <li>○ Meghan Wren, Acting Planning Lead, Community Planner, Mitigation Division</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Chris Huch, Project Manager</li> <li>○ Lindsey McCoy, Planner</li> </ul> </li> </ul>	
<b>Agenda Summary:</b>	The purpose of the meeting was to introduce the Planning Partnership members and contract consultant, provide an overview of the hazard mitigation planning process, discuss potential changes to the plan's goals and objectives, and to address any questions or concerns that participants may have.	
Item No.	Description	Action item(s):
1	<b>Introductions</b> <ul style="list-style-type: none"> <li>• Chris Huch, Tetra Tech, introduced the planning process.</li> <li>• Melissa Taylor, Seneca County Emergency Management, thanked the team for attending and participating.</li> <li>• Lisa Burkovich, NYSDHSES, thanked the team for joining today's call.</li> <li>• Meghan Wren, FEMA Region 2, thanked all for attending.</li> </ul>	-



2	<b>Hazard Mitigation Overview</b> <ul style="list-style-type: none"> <li>• Mitigation describes actions taken to help reduce or eliminate the long-term risks/damages caused by hazards.</li> <li>• Having an HMP permits eligibility for FEMA pre- and post-disaster grant funding and are required to be updated every five years to maintain eligibility for these funds.</li> <li>• Must meet FEMA’s new 2023 guidelines, which include an increase in participation, discussions on climate change, outreach to socially vulnerable populations, increased documentation needs, and to show how existing capabilities are integrated into the plan.</li> <li>• Numerous staff from each municipality are encouraged to participate and provide input.</li> <li>• All jurisdictions are required to have at least one mitigation action per hazard identified.</li> </ul>	-
3	<b>Project Organization</b> <ul style="list-style-type: none"> <li>• Made up of the Core Planning Team, Steering Committee, Planning Partnership, Stakeholders, NYSDHSES, and FEMA. <ul style="list-style-type: none"> <li>○ Planning Partnership includes representatives from all municipalities.</li> <li>○ Steering Committee is welcome to attend Planning Partnership meetings.</li> <li>○ NYSDHSES has some plan requirements that exceed FEMA requirements.</li> </ul> </li> <li>• The Planning Partnership actively participates in the planning process including coordinating and facilitating local efforts, attending meetings, provide information and feedback, and involve the public in the planning effort. <ul style="list-style-type: none"> <li>○ It is strongly encouraged to have multiple representatives from various local departments that can help provide a broad perspective for your plan input.</li> </ul> </li> </ul>	-
4	<b>Planning Process Overview</b> <ul style="list-style-type: none"> <li>• Tetra Tech utilizes an 8-step planning process, which is being kicked off today.</li> <li>• HMP will be considered effective as of first adoption submitted to and approved by FEMA.</li> <li>• The risk assessment provides a basis for policy and helps to identify what is most important to address to increase resiliency. <ul style="list-style-type: none"> <li>○ Hazards of Concern will remain the same for this plan update, with the elimination of manmade/technological hazards as addressed below.</li> </ul> </li> <li>• Manmade or technological hazards listed in the previous plan have been excluded from Hazards of Concern due to FEMA’s emphasis on planning for natural hazards and eligibility to receive mitigation grant funding.</li> <li>• Critical Facilities provide essential services to the community, especially before, during, and after a disaster.</li> <li>• Community Lifelines provide services that allow continuity of operations of critical business and government functions, and crucial to health and safety of residents.</li> <li>• Proposed goals and objectives for the 2024 update will be sent to the Steering Committee for review and provided to the Planning Partnership upon their approval.</li> <li>• Public outreach will occur continually throughout the planning process through social media posts, surveys, County and municipal websites, and the StoryMap.</li> </ul>	-

**Seneca County, NY – Hazard Mitigation Plan 2024 Update  
Planning Partnership Kick-Off Meeting | Meeting Minutes**



	<ul style="list-style-type: none"> <li>Integration involves linking hazard mitigation plan to existing local planning efforts, while incorporating hazard mitigation principles and ensuring interagency coordination.</li> <li>Once the HMP has been adopted, explore funding to implement identified mitigation actions.</li> </ul>	
5	<p><b>Homework</b></p> <p><b>Worksheet 1: Previous Events</b></p> <ul style="list-style-type: none"> <li>Document events that had an impact within your municipality.</li> <li>Consider all possible Hazards of Concern that have occurred since the previous HMP (2018).</li> </ul> <p><b>Worksheet 2: Capability Assessment</b></p> <ul style="list-style-type: none"> <li>Captures the details of various plans, regulations, and programs that exist at the local level.</li> <li>Do not feel pressured to say ‘yes’ to everything, not every municipality has all the same programs. Review the information that Tetra Tech has pre-populated and fill out the remaining information</li> </ul> <p><b>Worksheet 3: NFIP Administration</b></p> <ul style="list-style-type: none"> <li>To be filled out by the municipal Floodplain Administrator (FPA).</li> <li>Tetra Tech will provide a list of identified Floodplain Administrator(s) for each municipality.</li> </ul> <p><b>Worksheet 4: Action Review</b></p> <ul style="list-style-type: none"> <li>Update status of mitigation actions included in previous plan update, including whether it has been implemented, and any roadblocks to progress.</li> </ul> <p><b>Worksheet 5: New Development</b></p> <ul style="list-style-type: none"> <li>Documents new building permits that have been issued since the previous plan, 2018-2022.</li> <li>Include new, large developments, including industrial and commercial properties.</li> </ul>	<p><b>Tetra Tech:</b> Distribute homework sheets. Include list of identified Floodplain Administrator(s) for each municipality.</p> <p><b>Planning Partnership:</b> Worksheets due back to Tetra Tech December 12, 2023.</p>
6	<p><b>Project Schedule</b></p> <ul style="list-style-type: none"> <li>Kick-Off Meeting – TODAY!</li> <li>Goals and Finalize Hazards – Late Fall 2023</li> <li>Risk Assessment – Late Fall 2023</li> <li>Identify Actions – Winter 2023-2024</li> <li>Finalize the Plan – Late Winter 2023</li> <li>Draft Plan Completed – Early Spring 2024</li> <li>Draft Plan Submitted to NYSDHSES – Early Spring 2024</li> <li>Draft Plan Submitted to FEMA – Early Spring 2024</li> </ul>	-
7	<p><b>Questions/Next Steps/Discussion</b></p> <p><i>Mayor Leon Kelly</i> – Will contact be made with first responders?</p> <ul style="list-style-type: none"> <li>Yes, they are one of the stakeholder groups that Tetra Tech will be reaching out to directly.</li> </ul> <p><i>Supervisor Joe Borst</i> – The Town does not issue building permits; would the County be the entity to provide that information on the worksheet?</p> <ul style="list-style-type: none"> <li>Tetra Tech will reach out to the County on behalf of the municipalities and get info directly from them as one large request instead of numerous small requests.</li> </ul>	-
8	<p><b>Conclusion</b></p> <ul style="list-style-type: none"> <li>The meeting adjourned at 1:46 pm.</li> </ul>	-



# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2024 Update

**Planning Partnership Kick-Off Meeting**

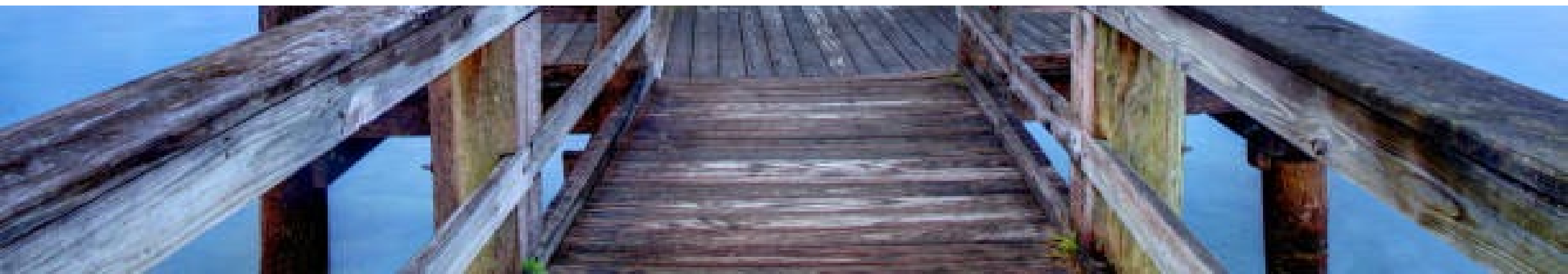
November 2, 2023

While waiting for the meeting to start, please enter your name, title, and department/agency in the chat





# Today's Agenda

1. Welcome and Introductions
  2. Hazard Mitigation Planning Overview
  3. Project Organization
  4. Planning Team Responsibilities
  5. Planning Process Overview
  6. Homework
  7. Project Schedule
  8. Questions/Next Steps/Wrap Up
- 



# Hazard Mitigation Overview

Mitigation planning happens before a disaster strikes. It results in safer, more resilient communities – reducing risk for the residents, businesses, and critical services in Seneca County.

# Hazard Mitigation Planning Overview



- ✓ Authorized by the Disaster Mitigation Act of 2000
- ✓ Provides an overview of the impacts of natural hazards on communities
- ✓ Provides a roadmap to reducing the impact of these hazards
- ✓ Requires a FEMA-approved natural hazard mitigation plan to be eligible for Pre-Disaster Mitigation Funding
- ✓ 5-year updates required to maintain eligibility

- What is hazard mitigation?
- Why update the plan?
- What is the process?



# What is Hazard Mitigation?



Mitigation is a sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event

-or-

Any action taken to reduce future disaster losses



**“provides the blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and local ability...” (CFR).**

# Why Update?



- The mitigation plan update will:
  - Help prepare for and mitigate hazards
  - Eligibility for pre- and post-disaster mitigation funding
  - Incorporate new FEMA requirements
- What is at risk in Seneca County?
- Which hazard do you think occurred the most since 2018?

January 2018 – July 2023	
Hazard	Occurrences
Blizzard	0
Extreme Cold, Cold/Wind Chill	1
Drought	0
Heat, Excessive Heat	0
Flood/Flash Flood	5
Hail	0
Heavy Rain	0
Hurricane/ Tropical Storm/ Tropical Depression	0
Lightning/ Thunderstorm	12
Tornado/Funnel Cloud	0
Wind	3
Winter Weather	9
Wildfire	0
<b>TOTAL</b>	<b>30</b>

Source: NOAA NCEI Severe Weather Inventory 2023





# Differences from the 2018 Planning Process

- Involvement – engaged and actively participating
- Public and stakeholder outreach
- Socially vulnerable and underserved communities
- Climate change
- Mitigation actions are needed for every hazard of concern





# Project Organization

Working with individuals, agencies, neighboring jurisdictions, businesses, and other partners for a successful mitigation planning process.

# Project Organization



## Core Planning Team

Seneca County  
Office of  
Emergency  
Management,  
Tetra Tech



## Steering Committee

## Planning Partnership



## Stakeholders



FEMA

Homeland  
Security &  
Emergency  
Services



## NYSDHSES and FEMA

# Planning Partnership Role and Responsibilities

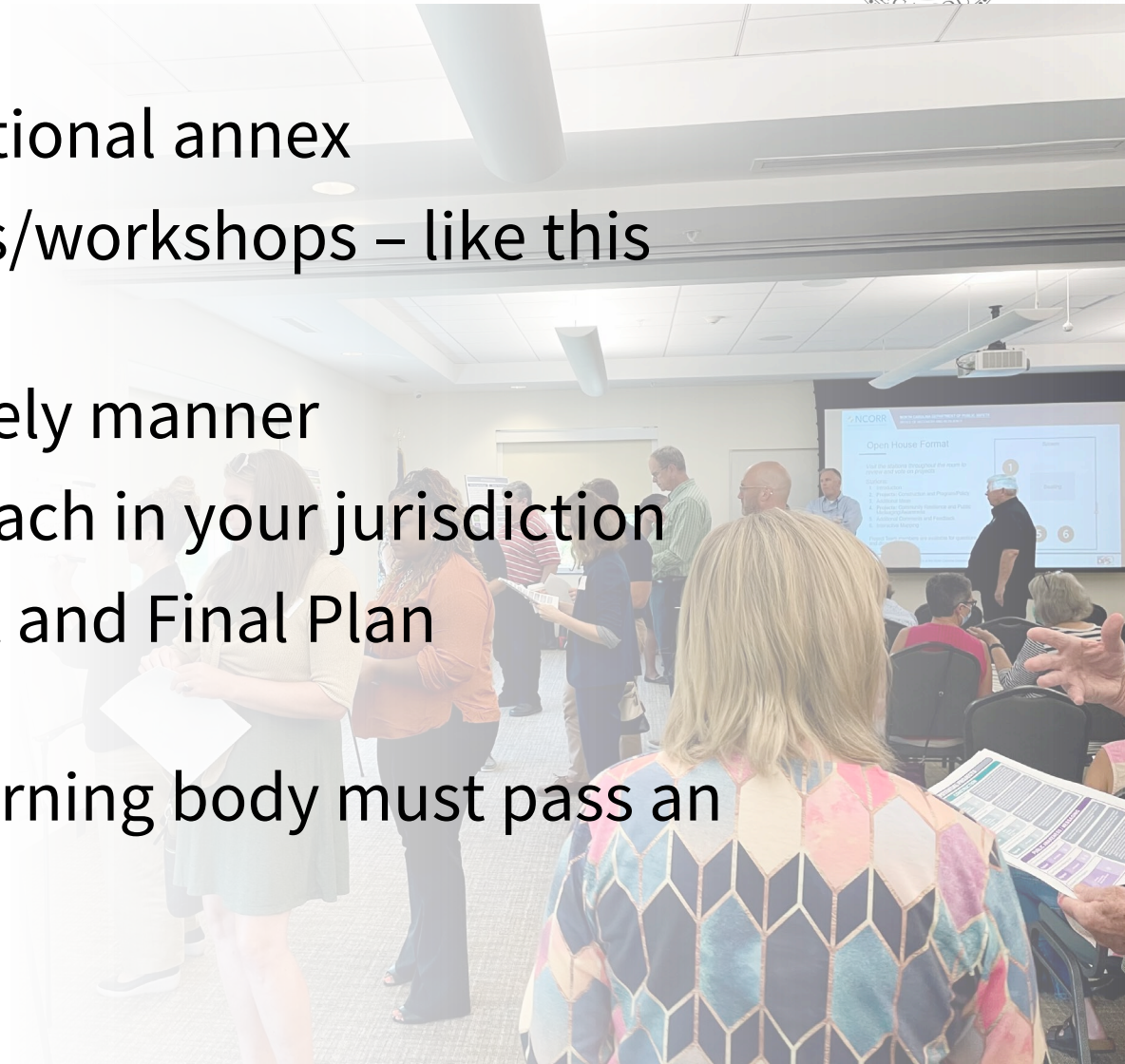


- Actively participate throughout the process –
  - Coordinate and facilitate local efforts
  - Attend meetings
  - Provide information and feedback (e.g., complete municipal worksheets)
  - Involve the public and community stakeholders in the planning process
  - Identify mitigation actions for your community
  - Adopt the plan
  - Implement the plan and monitor its progress
- Provide your points of contact to the County and confirm you will be participating in the 2024 process



# How Do You Participate?

- Assist with the update of your jurisdictional annex
- Attend Planning Partnership meetings/workshops – like this one!
- Provide data and information in a timely manner
- Support public and stakeholder outreach in your jurisdiction
- Review and provide feedback on Draft and Final Plan documents
- Facilitate the adoption process – governing body must pass an Adoption Resolution
- Implement and Maintain the Plan







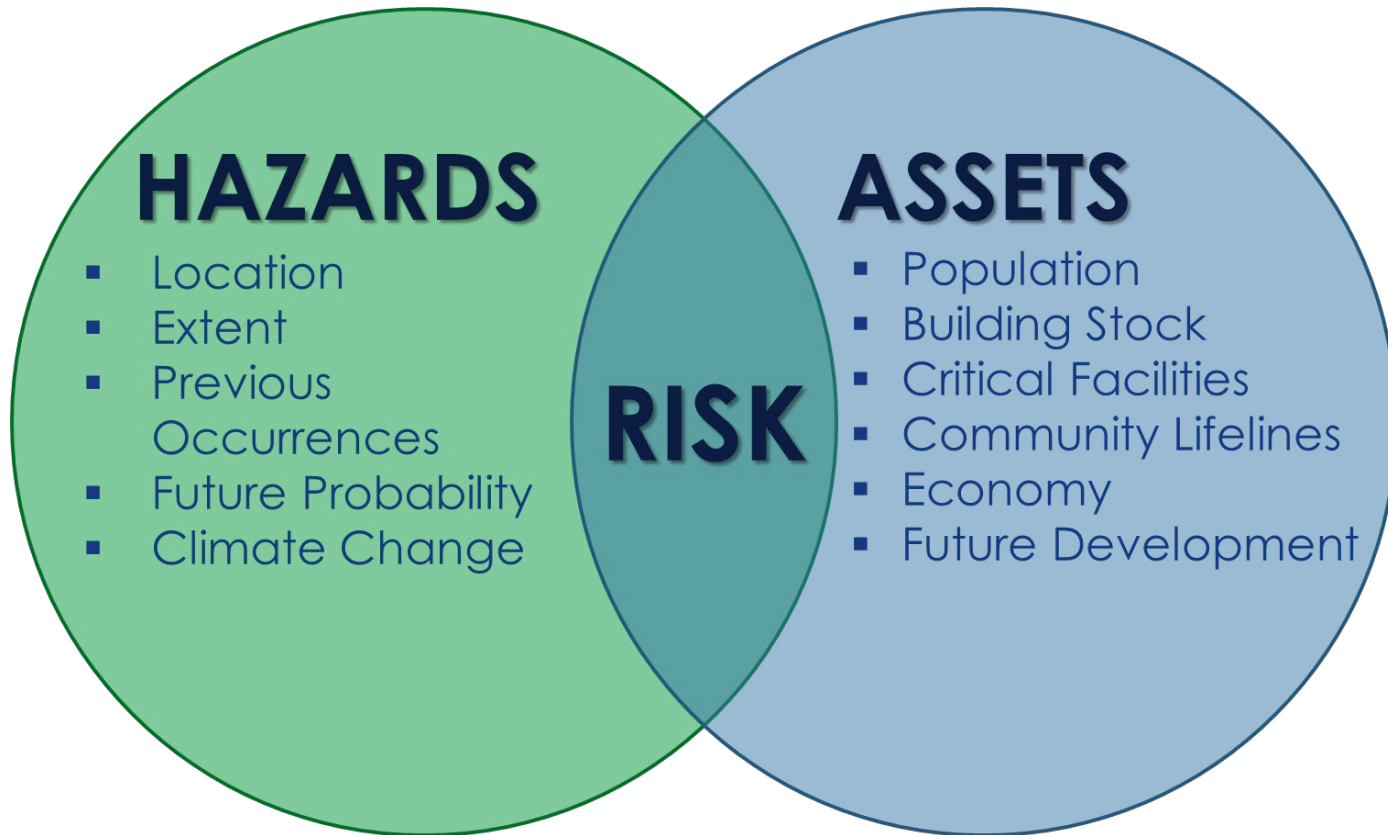
# Planning Process Overview

A well-defined planning process is essential to the success of Seneca County's HMP Update.

# Planning Process Overview



# Update Risk Assessment



- Update Assets
- Examine Previous Impacts
- Analyze Risks
- Review with Steering Committee
- Risk Assessment Meeting

# Hazards of Concern



**Dam Failure**



**Drought**



**Earthquake**



**Extreme Temperature**



**Flood**



**Landslide**



**Severe Storm**



**Severe Winter Storm**





# Critical Facilities and Community Lifelines

- **Critical Facilities** provide essential services to the community, especially before, during, and after a disaster.
- **Community Lifelines** provide services that allow continuity of operations of critical business and government functions, and crucial to health and safety of residents.





# Critical Facilities and Community Lifelines



## Safety and Security

- Correctional
- Dam
- Daycare
- EOC
- Fire/EMS
- Government / Municipal Hall
- Historic Sites
- Library
- Military
- Police
- School



## Food, Hydration, Shelter

- Shelter
- Grocery Stores
- Food Distribution Centers



## Health and Medical

- Medical
- Senior Care Facilities



## Energy

- Electric Substation
- Power Lines

# Critical Facilities and Community Lifelines



## Communications

- Communication Towers



## Transportation

- Airport
- County Roads
- State Highways
- Light Rail
- Intermodal Transit



## Hazardous Materials

- Tier Facilities
- Chemical



## Water Systems

- Potable Pump Station
- Wastewater Pump
- Wastewater Treatment Plant
- Water Tower
- Potable Well

# Community Lifelines Review



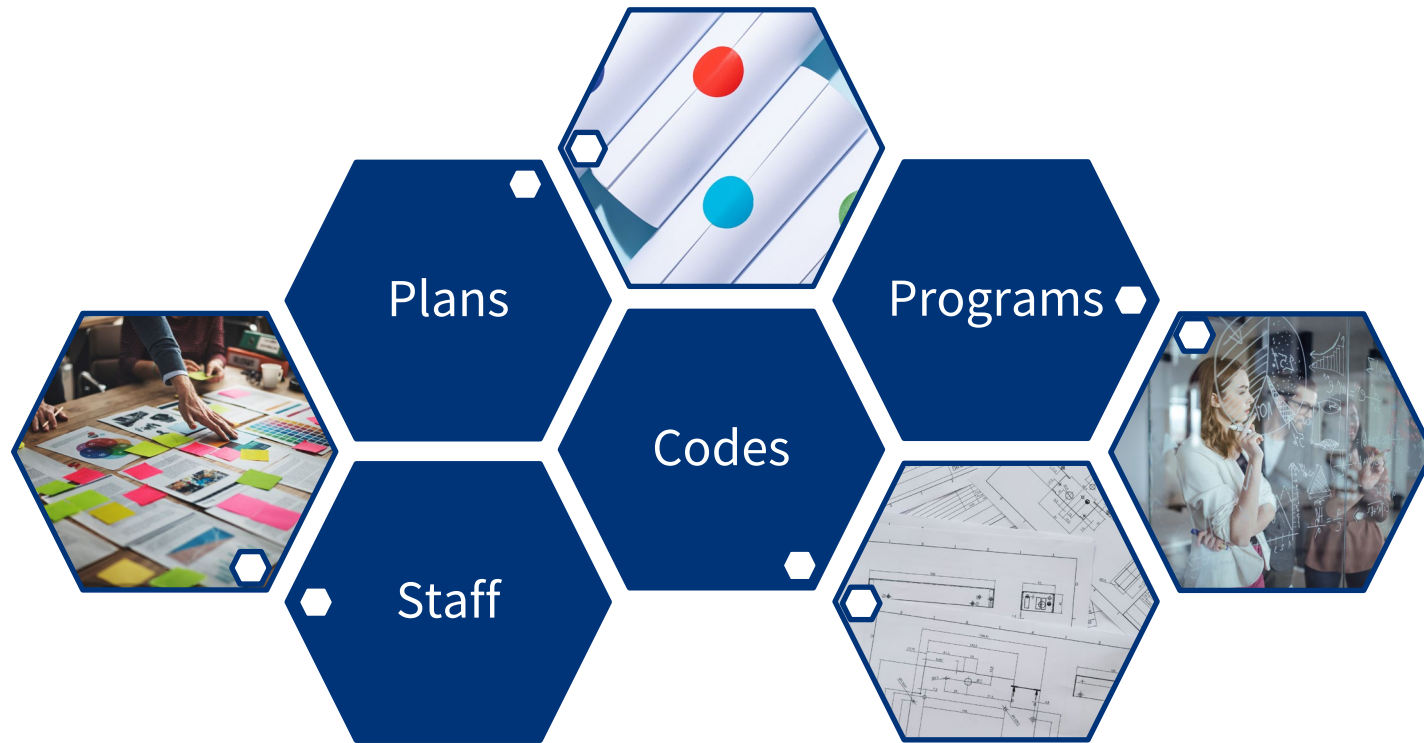
- OEM contacts and Primary Points of Contact from municipalities that have submitted LOIPs will be asked to review the community lifelines within their municipality.
- Identify necessary edits to existing facilities, remove facilities that no longer exist, and identify new facilities.
- **Lifeline facilities will be distributed for review in the upcoming weeks.**



# Capability Assessment



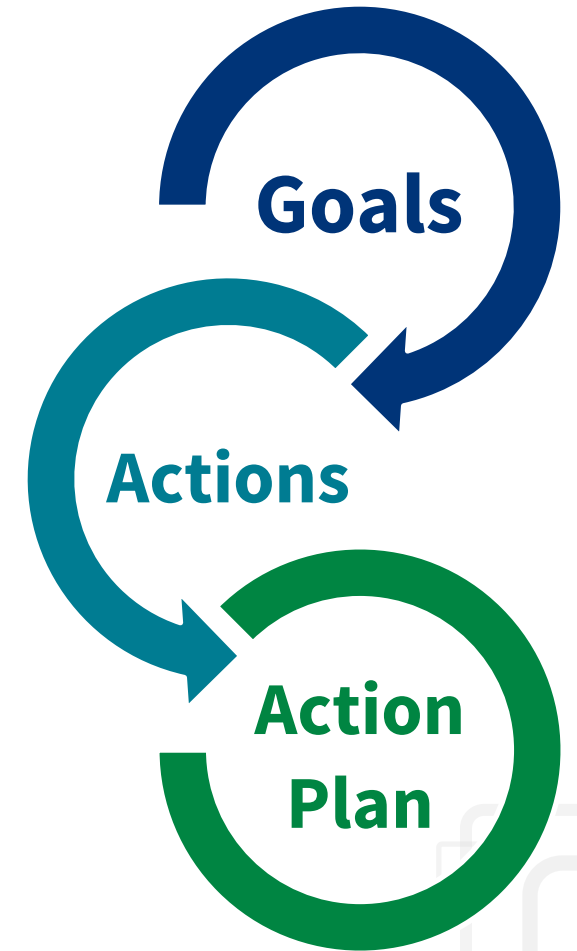
- Capabilities
  - What does your jurisdiction use to reduce risk to hazards?





# Mitigation Strategy

- Goals
  - What outcomes do you want to achieve?
- Actions
  - What specific actions will be taken to reduce hazard risk?
- Action Plan
  - How will the actions be prioritized and implemented?

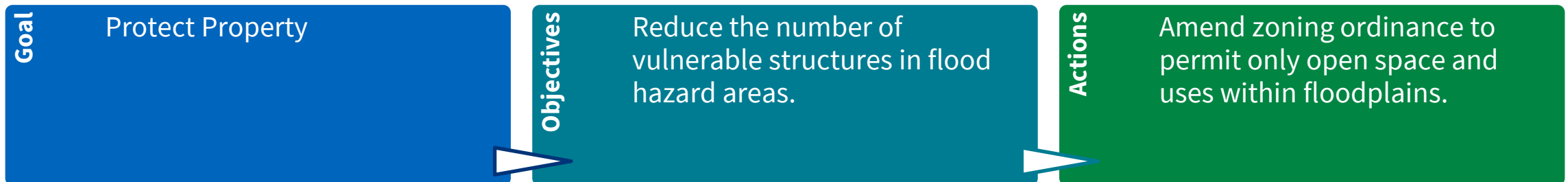




# Goals and Objectives – Review and Update



Goal Number	2018 Goal	Modify, Add, or Remove?
G-1	Improve life safety and damage prevention by strengthening the relationship between emergency services and hazard mitigation programs	
G-2	Emergency Services Improvements	
G-3	Natural Hazards Public Education	
Additional Goals?		



# Goals and Objectives – Review and Update



Objective Number	2018 Objective
1-1	Reduce the impact of disasters on currently developed property, especially residential, commercial, and critical public facilities that are near the lake shores and canal corridor
1-2	Improve the stability of creek banks and improve the water flow of creek beds to lessen flooding events
1-3	Lessen the impact of flooding on roads
1-4	Use the community's land use plans, ordinances, subdivision regulations and site plan review processes to enhance loss reduction
1-5	Ensure that future development is not vulnerable to the impact of natural, technological, or man-made disasters
2-1	Coordinate and integrate the hazard mitigation activities with existing local Emergency Service Agencies Emergency Operations Plans
2-2	Analyze the need for and procure any specialized equipment or training to enhance the Emergency Services response to specific hazards
2-3	Review current evacuation routes to determine if they are adequate

# Goals and Objectives – Review and Update



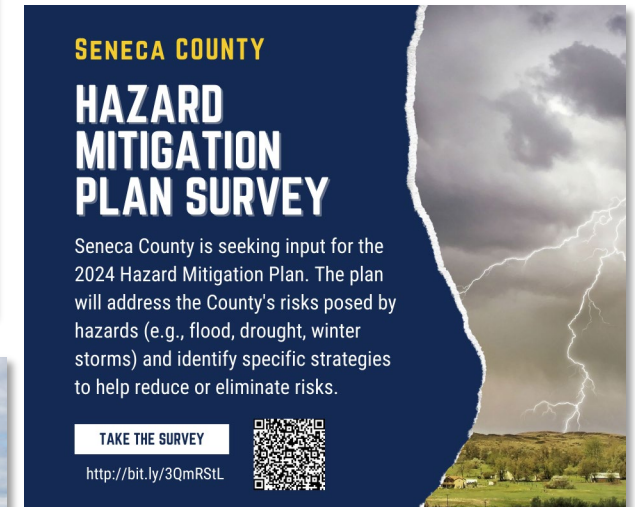
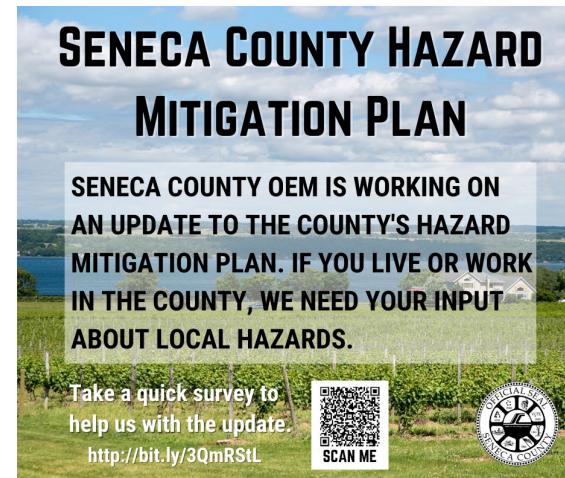
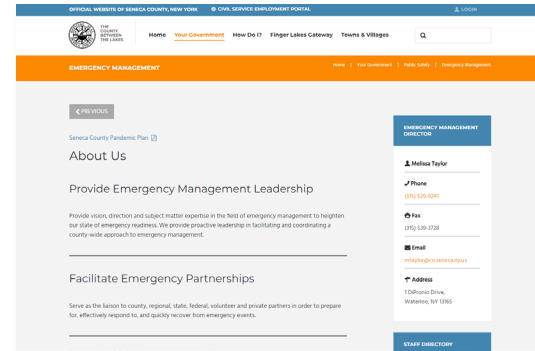
Objective Number	2018 Objective
3-1	Ensure that county residents and businesses are aware of potential hazards and are knowledgeable of their roles in limiting the effects of hazards on their personal property, health and safety
3-2	Use appropriate public information and education strategies to increase public awareness of various hazard mitigation options
3-3	Continue to educate the public about emergency preparedness, response and recovery activities
3-4	Encourage all residents and businesses to purchase NOAA Weather radios for timely alert warnings



# Public Outreach Strategy



- Public Outreach Toolkit
  - Social media templates and posts
  - Press release templates
  - Printable materials
- Surveys
  - Stakeholders
  - Neighboring communities
  - Public
- County Website
- StoryMap



# Plan Adoption & Integration



- Implementing your HMP...
  - Integration –
    - Link to local planning efforts
    - Hazard mitigation principles into your comprehensive or master plan
    - Interagency coordination
  - Projects/Actions –
    - Explore funding options to complete projects
    - Develop grant applications
    - Implement the projects







# Homework

Each jurisdiction will need to review and submit information on previous events, capabilities, NFIP administration, recent development, and previous actions.

**Homework sheets are due December 12.**

# Worksheet 1: Previous Events



Hazard Mitigation Plan 2024 Update  
Seneca County, New York  
Worksheet A – Hazard Event History

Please send all electronic Word versions by December 12, 2023:  
Chris Huch, Tetra Tech | [chris.huch@tetratech.com](mailto:chris.huch@tetratech.com)

Municipality: \_\_\_\_\_

Name and Title of Individual Completing Worksheet: \_\_\_\_\_

Seneca County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2018). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses

Please identify other hazard events that have caused damage/losses in your community. Refer to FEMA project worksheets (PWs), overtime records, police/fire reports, repair costs (invoices), etc.

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses

# Worksheet 2: Capability Assessment



Hazard Mitigation Plan 2024 Update  
Seneca County, New York  
Worksheet B – Capability Assessment

Please send all electronic Word versions by December 12, 2023:

Chris Huch, Tetra Tech | chris.huch@tetratech.com

Municipality: Seneca County

Name and Title of Individual Completing Worksheet:

Who can assist with completing these tables: Municipal Planner, Clerk, Code Official, Administrator, Chief Fiscal Officer.

## Planning and Regulatory Capability

Please complete the following table to summarize the regulatory tools that are available to your community, what is present in the jurisdiction, and code citation and date. For existing regulatory tools, note how it reduces risk to hazards or how it could be updated to better integrate hazard mitigation concepts to reduce risk.



Table 1. Planning and Regulatory Capability

	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
<b>Codes, Ordinances, &amp; Regulations</b>				
<b>Building Code</b>	Yes	Uniform Fire Prevention and Building Code, 2021	State and County	NYS Division of Building Standards and Codes or Seneca County Building Codes Enforcement
How does this reduce risk?				
<b>Zoning/Land Use Code</b>	Yes	NYS Comprehensive Plan Statutes - Town Law §272-a Village Law, §7-722 General City Law §28-a	State and County	NYS Department of State or Seneca County Building Codes Enforcement
How does this reduce risk?				
Consider the following:				
<ul style="list-style-type: none"><li>• Prior to zoning changes, or development permitting, does your jurisdiction review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use?</li><li>• Does the zoning ordinance discourage development or redevelopment within natural areas including wetlands, floodways, and floodplains?</li><li>• Does it contain natural overlay zones that set conditions?</li><li>• Does the ordinance require developers to take additional actions to mitigate natural hazard risk?</li><li>• Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?</li></ul>				
<b>Subdivision Ordinance</b>				
How does this reduce risk?				
Consider the following:				
<ul style="list-style-type: none"><li>• Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?</li></ul>				

PAGE | 1



TETRA TECH



Hazard Mitigation Plan 2024 Update  
Seneca County, New York  
Worksheet B – Capability Assessment

	Jurisdiction has this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible
<ul style="list-style-type: none"><li>• Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?</li><li>• Do the regulations allow density transfers where hazard areas exist?</li></ul>				
<b>Site Plan Ordinance</b>				
How does this reduce risk?				
<b>Stormwater Management Ordinance</b>	Yes	Seneca County Watershed Protection Law	State and County	NYS Department of Environmental Conservation or Seneca County Health Department
How does this reduce risk?				
The design, construction, operation and maintenance of wastewater treatment systems located wholly or partially within Seneca County, with the exception of municipal owned wastewater treatment plants permitted by New York State Department of Environmental Conservation, shall be subject to the requirements of this article. The requirements of this article are in addition to, and not in lieu of, the requirements for wastewater treatment systems set forth in 10 NYCRR Appendix 75-a of Part 75.				
<b>Post-Disaster Recovery/ Reconstruction Ordinance</b>				
How does this reduce risk?				
<b>Real Estate Disclosure</b>	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
How does this reduce risk?				
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.				
<b>Growth Management</b>				
How does this reduce risk?				
<b>Environmental Protection Ordinance</b>				
How does this reduce risk?				
Consider the following:				
<ul style="list-style-type: none"><li>• Are environmental systems that protect development from hazards identified and mapped?</li><li>• Do environmental policies maintain and restore protective ecosystems?</li><li>• Do the ordinances prohibit development within, or filling of, wetlands, floodways, and floodplains?</li><li>• Do environmental policies provide incentives to development that is located outside protective ecosystems?</li></ul>				
<b>Flood Damage Prevention Ordinance</b>				
How does this reduce risk?				
<b>Wellhead Protection</b>				
How does this reduce risk?				
<b>Emergency Management Ordinance</b>				
How does this reduce risk?				
<b>Climate Change Ordinance</b>				
How does this reduce risk?				

PAGE | 2



TETRA TECH

# Worksheet 3: NFIP Administration



Hazard Mitigation Plan 2024 Update  
Seneca County, New York  
Worksheet C – NFIP Summary

Please send all electronic Word versions by December 12, 2023:

Chris Huch, Tetra Tech | [chris.huch@tetratech.com](mailto:chris.huch@tetratech.com)

Municipality: \_\_\_\_\_

Name and Title of Individual Completing Worksheet: \_\_\_\_\_

**Who can assist with completing this table:** NFIP Floodplain Administrator – as identified by role/title in your Flood Damage Prevention Ordinance.


NFIP Topic	Comments
<b>Flood Vulnerability Summary</b>	
Describe areas prone to flooding in your jurisdiction.	
Do you maintain a list of properties that have been damaged by flooding?	
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"><li>If yes, how many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?</li></ul>	
Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"><li>If so, state what projects are underway.</li></ul>	
Do you have procedures established for Substantial Damage determinations following a disaster event?	
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"><li>If there are mitigated properties, how were the projects funded?</li></ul>	
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"><li>If not, state why.</li></ul>	
<b>NFIP Compliance</b>	
What local department is responsible for floodplain management?	
Are any certified floodplain managers on staff in your jurisdiction?	

PAGE | 1



# Worksheet 4: Action Review





Seneca County | Hazard Mitigation Plan 2024 Update  
Worksheet D – Action Review

Please send all electronic Word versions by December 12, 2023:  
Chris Huch, Tetra Tech | [chris.huch@tetratech.com](mailto:chris.huch@tetratech.com)

Municipality: \_\_\_\_\_  
Name and Title of Individual Completing Worksheet: \_\_\_\_\_

**Who should provide you information about past mitigation actions:** The engineer and DPW will review and update the table first. Please coordinate with other officials (e.g., Code Official, Planner, OEM Coordinator) to determine the status of each action (a FEMA requirement) as identified in the 'Responsible Party' column, if populated.


Please use the following table to indicate progress and next steps on your community's mitigation strategy identified in the 2018 HMP. Please be as detailed as possible.

Provide status updates for each action listed in your last annex:

- IN PROGRESS: Started but not complete
- ONGOING CAPABILITY: An action you complete regularly (maintenance, annual outreach, etc.)
- NO PROGRESS: Not started
- COMPLETE: Finished!

Include a narrative to describe progress in implementation of the action, obstacles that have prevented implementation, etc.

**Actions that are COMPLETE or ONGOING will not be carried forward. Let us know if NO PROGRESS or IN PROGRESS actions should be carried forward and included in the updated mitigation strategy!** Provide any necessary revisions or updates to carryover actions. Provide a reasoning for any actions that are being discontinued (for example: the problem no longer exists or was solved using a different approach)

TETRA TECH

2025 | HAZARD MITIGATION PLAN – SENECA COUNTY, NEW YORK  
1





# Worksheet 5: New Development



Hazard Mitigation Plan 2024 Update  
Seneca County, New York  
Worksheet E – Building Permits

Please send all electronic Word versions by December 12, 2023:  
Chris Huch, Tetra Tech | [chris.huch@tetrattech.com](mailto:chris.huch@tetrattech.com)

Municipality: \_\_\_\_\_

Name and Title of Individual Completing Worksheet: \_\_\_\_\_

Who can assist with completing these tables: The Building Department, Planning Department, and NFIP Floodplain Administrator

Type of Development	2018		2019		2020		2021		2022	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)										
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family										
Multi-Family										
Other (commercial, mixed-use, etc.)										
Total New Construction Permits Issued										

SFHA Special Flood Hazard Area (1% annual chance flood event)

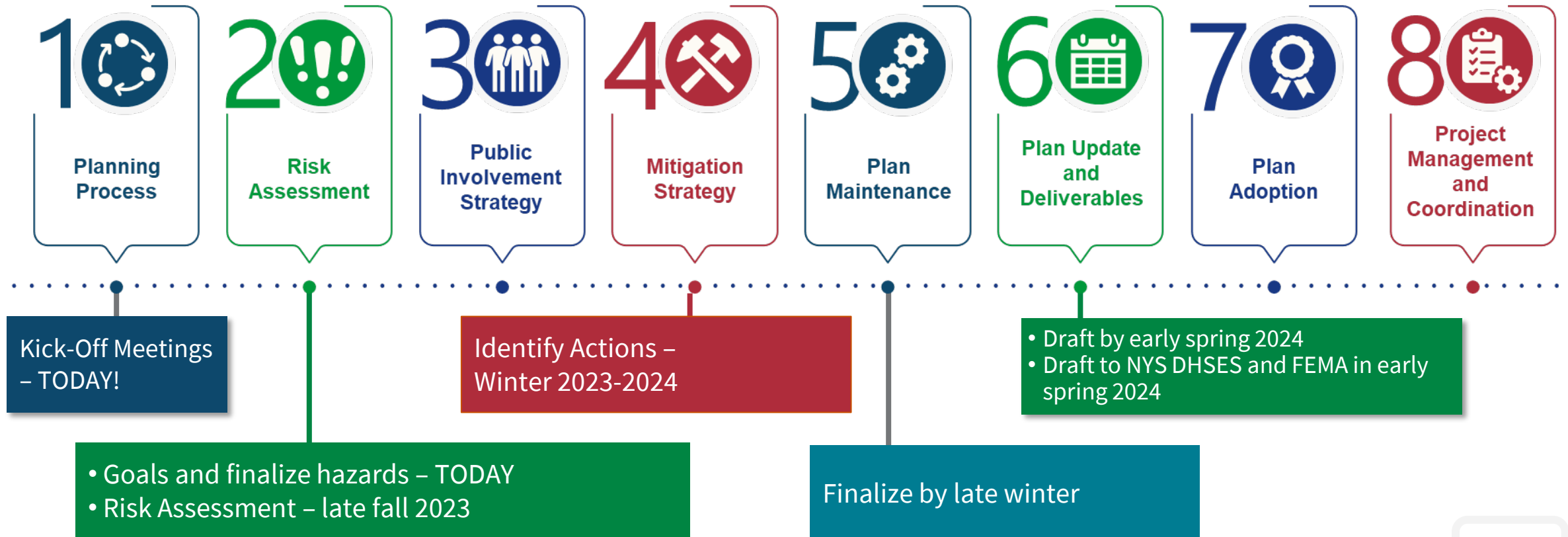
\* Only location-specific hazard zones or vulnerabilities identified.



# Project Schedule

Upcoming meetings and key milestones throughout the HMP update process

# Schedule



# Next Steps



- Provide your Points of Contact
- Complete and submit homework worksheets by December 12
  - Previous Events
  - Capability Assessment
  - NFIP Administration
  - New Development
  - Previous Actions
- Provide edits on lifelines







# Questions?




## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Manager

Chris Huch, CFM  
(973) 630-8357 | [chris.huch@tetrattech.com](mailto:chris.huch@tetrattech.com)



Thank  
You!



**SENECA COUNTY HAZARD MITIGATION PLAN UPDATE**  
**Planning Partnership Risk Assessment Meeting – AGENDA**  
**MEETING DATE/TIME: September 19, 5:30pm – 6:00pm**



- 1. Opening Remarks**
- 2. Project Status** - where we are in the process, public outreach
- 3. Risk Assessment Overview**
  - Results of risk assessment for each hazard
  - Hazards of concern risk ranking
  - How will this information be used in the HMP?
- 4. SWOO**
- 5. Hazard Ranking Worksheet**
- 6. Feedback and Input**
- 7. Next Steps**
- 8. Questions**

**Seneca County Project Contact**

Melissa Taylor, Director  
Seneca County Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

**Tetra Tech Project Contact**

Jessica Stokes, MSEM, NJCEM  
Tetra Tech, Inc.  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



**SENECA COUNTY HAZARD MITIGATION PLAN UPDATE**  
**Mitigation Action Workshop – AGENDA**  
**MEETING DATE/TIME: September 19, 6:00pm – 7:00pm**



- 1. Opening Remarks**
- 2. Project Status** - where we are in the process, public outreach
- 3. Identifying and Developing Mitigation Strategies**
- 4. Review Previous Actions**
- 5. Developing New Potential Actions**
- 6. Next Steps** – continue developing actions and work with Tetra Tech staff to complete outstanding worksheets prior to leaving today
- 7. Questions**
- 8. Workshop** – work with the Tetra Tech staff to develop mitigation strategies and complete outstanding worksheets

**Seneca County Project Contacts**

Melissa Taylor, Director  
Seneca County Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

**Tetra Tech Project Contacts**

Jessica Stokes, MSEM, NJCEM  
Tetra Tech, Inc.  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)

Seneca County, NY – Hazard Mitigation Plan 2025 Update  
Risk Assessment and Mitigation Strategy Meeting | Meeting Minutes



<b>Purpose of Meeting:</b>	Risk Assessment and Mitigation Strategy Meeting	
<b>Location of Meeting:</b>	Seneca County Emergency Management 1 DiPronio Drive, Waterloo, NY 13165	
<b>Date of Meeting:</b>	September 19, 2024 @ 5:30 P.M.	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Office of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> <li>○ Kristopher Rodger, Public Safety Systems Administrator</li> </ul> </li> <li>• <b>Seneca County Planning Board</b> <ul style="list-style-type: none"> <li>○ Jill Henry, Director</li> </ul> </li> <li>• <b>Covert (T)</b> <ul style="list-style-type: none"> <li>○ Michael Reynolds, Supervisor</li> <li>○ Susan Frykholm, Town Representative</li> </ul> </li> <li>• <b>Interlaken (V)</b> <ul style="list-style-type: none"> <li>○ Rich Richardson, Mayor</li> </ul> </li> <li>• <b>Lodi (T)</b> <ul style="list-style-type: none"> <li>○ Luke Latini, Supervisor</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ovid (T)</b> <ul style="list-style-type: none"> <li>○ Joe Borst, Supervisor</li> </ul> </li> <li>• <b>Tyre (T)</b> <ul style="list-style-type: none"> <li>○ Elizabeth Partee, Supervisor</li> </ul> </li> <li>• <b>Waterloo (V)</b> <ul style="list-style-type: none"> <li>○ Don Northrup, Administrator</li> </ul> </li> <li>• <b>NYSDHSES</b> <ul style="list-style-type: none"> <li>○ Scott Feuerstein, Hazard Mitigation Unit</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Jessica Stokes, Project Manager</li> <li>○ Emily Vassallo, Lead Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	The purpose of the meeting was to provide an overview of the hazard mitigation planning process, discuss public and stakeholder outreach efforts, review the risk assessment results, including the hazard ranking, introduce the SWOO exercise to the Planning Partnership, describe the contains within the mitigation strategy, provide an opportunity for jurisdictions to review their previous mitigation actions, complete outstanding worksheets with assistance from Tetra Tech planners, discuss what makes a good mitigation action, and identify potential 2025 mitigation actions.	
Item No.	Description	Action item(s):
1	<b>Introductions</b>	-
2	<b>Project Status</b> <ul style="list-style-type: none"> <li>• Review jurisdictions with outstanding worksheets</li> <li>• Public Outreach and Engagement <ul style="list-style-type: none"> <li>○ Post links on social media and department/agency websites</li> <li>○ Stakeholder and neighboring municipalities surveys have been distributed</li> <li>○ Make efforts to reach out to: <ul style="list-style-type: none"> <li>▪ General Public</li> <li>▪ Stakeholders</li> <li>▪ Neighbors</li> </ul> </li> </ul> </li> </ul>	<b>Planning Partnership</b> <ul style="list-style-type: none"> <li>• Complete and submit outstanding worksheets</li> <li>• Post links on social media and department/agency websites</li> <li>• Make efforts to reach out to the public, stakeholders, neighbors, and socially vulnerable populations</li> </ul>
3	<b>Risk Assessment Overview</b> <ul style="list-style-type: none"> <li>• Risk is defined as a function of : <ul style="list-style-type: none"> <li>○ Hazard <ul style="list-style-type: none"> <li>▪ Source of potential danger or adverse condition</li> </ul> </li> <li>○ Exposure <ul style="list-style-type: none"> <li>▪ Manmade or natural features that are exposed to the hazard</li> </ul> </li> <li>○ Vulnerability <ul style="list-style-type: none"> <li>▪ Damage susceptibility of the exposed features</li> </ul> </li> <li>○ Adaptive Capacity (or capability) <ul style="list-style-type: none"> <li>▪ Plans/policies</li> <li>▪ Response/recovery</li> </ul> </li> </ul> </li> </ul>	-

Seneca County, NY – Hazard Mitigation Plan 2025 Update  
Risk Assessment and Mitigation Strategy Meeting | Meeting Minutes



	<ul style="list-style-type: none"> <li>Financial resources</li> </ul>	
4	<b>Risk Assessment Results</b> <ul style="list-style-type: none"> <li>Provided an overview of the results from the risk assessment for each hazard. Results were a combination of qualitative and quantitative data.</li> </ul>	-
5	<b>Hazard Rankings</b> <ul style="list-style-type: none"> <li>The calculated probability of a hazard occurring based on historical data</li> <li><i>Impacts to <u>people</u>, <u>property</u>, and the <u>economy</u></i> based on GIS data and analysis of exposure.</li> <li>The degree to which <i><u>climate change</u></i> will affect future occurrences based on best available data.</li> <li>The degree to which existing <i><u>capabilities</u></i> (the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness) decrease overall risk.</li> <li>Ranking: <ul style="list-style-type: none"> <li>High: Severe Winter Weather, Severe Weather, Flood</li> <li>Medium: Extreme Temperature, Dam Failure, Earthquake</li> <li>Low: Drought, Landslide</li> </ul> </li> </ul>	-
6	<b>Identifying and Developing Mitigation Strategies</b> <ul style="list-style-type: none"> <li>The <b>Mitigation Strategy</b> is the County's roadmap to reduce the risk of hazards identified in the HMP. The strategy is based on hazard impacts, asset vulnerability, and the County's capabilities.</li> <li><b>Mitigation Actions</b> are specific activities, such as policies, projects, and studies, that stakeholders identify to reduce risk. <ul style="list-style-type: none"> <li>Forward-looking and incorporate changing conditions for the life of the County's assets</li> <li>Consider changing demographics, development patterns, impacts of climate change.</li> <li>Examples of actions may include elevating electrical and HVAC equipment to reduce the likelihood of damage from floodwaters or planting trees to lower temperatures exacerbated by pavement.</li> </ul> </li> <li>What is a <b>Mitigation Strategy</b>? <ul style="list-style-type: none"> <li>A group of projects or actions to reduce the impacts of the hazards of concern on your community <ul style="list-style-type: none"> <li>Plans and Regulations</li> <li>Structure and Infrastructure Studies and Projects</li> <li>Natural Systems Protection Studies and Projects</li> <li>Education and Awareness Programs</li> </ul> </li> </ul> </li> <li>Terms to describe the <i><u>Mitigation Strategy</u></i> include: <ul style="list-style-type: none"> <li><b>Mitigation Action Plan or Action Plan</b></li> <li><b>Mitigation Projects or Initiatives or Actions</b></li> </ul> </li> <li>Need a clear connection between vulnerabilities identified in the risk assessment and proposed mitigation actions.</li> <li>The capability assessment can provide insight into challenges and opportunities for the mitigation strategy.</li> <li>All actions proposed in the mitigation strategy must have a factual basis tied to the results of the risk and capability assessments (<i>this shouldn't be a wish list!</i>)</li> </ul>	-
7	<b>Developing New Potential Actions</b> <ul style="list-style-type: none"> <li>Quality not quantity <ol style="list-style-type: none"> <li>Each action needs detailed information on the why, who, what, and when of the action.</li> </ol> </li> </ul>	-



Seneca County, NY – Hazard Mitigation Plan 2025 Update  
Risk Assessment and Mitigation Strategy Meeting | Meeting Minutes



	<ul style="list-style-type: none"> <li>Previous Projects <ol style="list-style-type: none"> <li>If a project is not finished and still a priority, include in 2025 HMP</li> <li>Remove general projects or make more specific</li> <li>Remove ongoing capabilities like maintenance or annual outreach</li> </ol> </li> <li><b>Each hazard needs at least one mitigation action</b></li> <li>If your jurisdiction has Repetitive Loss Properties - an action is needed to mitigate the properties (elevation or acquisition) with specifics (street or neighborhood names, not specific addresses)</li> <li>Four types of Mitigation Actions <ol style="list-style-type: none"> <li>Plans and regulations</li> <li>Structure and Infrastructure</li> <li>Natural systems protection</li> <li>Education and awareness</li> </ol> </li> </ul>	
8	<b>2025 Proposed Goals</b> <ol style="list-style-type: none"> <li>Protect life, property, the environment, and critical infrastructure from hazard impacts.</li> <li>Coordinate hazard mitigation programs and other planning efforts that affect the County.</li> <li>Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.</li> <li>Enhance mitigation capabilities to reduce hazard vulnerabilities.</li> <li>Support continuity of operations pre-, during, and post-hazard events.</li> <li>Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.</li> <li>Address long-term vulnerabilities from High Hazard Dams.</li> </ol>	
9	<b>Workshop</b>  <i>Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)</i> <ul style="list-style-type: none"> <li>Strengths – what the County and communities do well; things upon which we can capitalize.</li> <li>Weaknesses – what can be done better; what can be strengthened.</li> <li>Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues).</li> <li>Opportunities - actions or projects to mitigate issues or improve resilience.</li> </ul> <i>Review Preliminary Rankings</i> <ul style="list-style-type: none"> <li>Review the preliminary rankings on the worksheet. Identify whether the ranking is agreed with or whether it should be changed and why. If your jurisdiction does not face impacts from an identified hazard, please state so.</li> </ul> <i>Review Previous Actions</i> <ul style="list-style-type: none"> <li>Review the mitigation actions your jurisdiction identified in the previous HMP by providing a brief status narrative. Begin by providing the status headings below and then add details (what has been accomplished, what funding was used, anything holding back progress): <ul style="list-style-type: none"> <li>IN PROGRESS: Started but not complete</li> <li>ONGOING CAPABILITY: An action you now complete on a regular basis (maintenance, annual outreach, etc.). These actions will be included in your capabilities moving forward.</li> </ul> </li> </ul>	<b>Planning Partnership</b> <ul style="list-style-type: none"> <li>Complete outstanding worksheets and submit to Emily Vassallo.</li> </ul>

Seneca County, NY – Hazard Mitigation Plan 2025 Update  
Risk Assessment and Mitigation Strategy Meeting | Meeting Minutes



	<ul style="list-style-type: none"> <li>○ NO PROGRESS: Not started</li> <li>○ COMPLETE: Finished!</li> <li>○ Actions that are COMPLETE or ONGOING will not be carried forward.</li> </ul>	
10	<b>Next Steps</b> <ul style="list-style-type: none"> <li>• Share information about the HMP Update via social media, community groups, and networks.</li> <li>• Work with Tetra Tech planners to complete annexes and finalize actions.</li> </ul>	-
11	<b>Questions/Discussion</b> <ul style="list-style-type: none"> <li>• <i>Luke Latini</i>: Who has information on dam inspections? We had a failure incident or a near incident and was not sure who to communicate this with. <ul style="list-style-type: none"> <li>○ <i>Jessica Stokes</i>: The dams can be publicly or privately owned, but NYS DEC maintains a list of the dams and dam owners. I will share this spreadsheet with the planning partnership when I send the meeting follow-up materials. We'll include an action in all jurisdictions with a dam, especially if it's a high hazard dam, to maintain lines of communication with the dam owner(s) and NYS DEC.</li> </ul> </li> <li>• <i>Susan Frykholm</i>: What is the Building RCV? Is it a requirement to have in the plan? Why is it included? <ul style="list-style-type: none"> <li>○ <i>Jessica Stokes</i>: This is the overall replacement cost value of all the impacted or exposure buildings in the hazard areas.</li> <li>○ <i>Scott Feuerstein</i>: Including the RCV helps in terms of recovery and understanding what costs are needed to replace or fix a damaged structure. The values are good to include in grant applications as well when applicable. The RCV is also important as it can help provide a guide as to where a damage threshold is needed to reach a disaster declaration.</li> </ul> </li> <li>• <i>Susan Frykholm</i>: The highway facility in Town is being redone and needs backup power for continuity of operations. Is this something to include in the plan? Would funding be available? <ul style="list-style-type: none"> <li>○ <i>Jessica Stokes</i>: Yes! This is an action we can include in the plan. If specifics are known about the generator capacity, we'd include that information, as it's important to be as detailed as possible with the mitigation actions.</li> </ul> </li> <li>• <i>Luke Latini</i>: There are harmful algal blooms which occur in both lakes that border the County. Should this be included as a risk in the plan? <ul style="list-style-type: none"> <li>○ <i>Jessica Stokes</i>: For this plan update, we're noting that HABs are, or can be, a cascading impact from flood events. As you mentioned, agricultural fertilizers and pesticide use from the wineries in the area may increase the amount of nutrients or chemicals which waters then deposit directly, or indirectly, into the lakes.</li> </ul> </li> <li>• <i>Luke Latini</i>: The flood maps in the County, especially for the Town of Lodi need to be updated. There are areas that flood which are not captured on them. <ul style="list-style-type: none"> <li>○ <i>Jessica Stokes</i>: FEMA is currently updating the flood maps in the County. To make sure your issues are being addressed, please reach out to NYS DEC, as they are in contact with FEMA. We'll include an action in all the jurisdictional annexes to maintain communications with NYS DEC and FEMA to ensure the updated flood maps reflect the actual flooding impacts felt in the jurisdiction.</li> </ul> </li> </ul>	-



# Seneca County 2025 Hazard Mitigation Plan

Topic: Planning Partnership Risk Assessment Review and Mitigation Strategy Workshop

Date: September 19, 2024

Time: 5:30 PM – 7:00 PM



Name	Jurisdiction/Title	Email	Phone Number
Jessica Stokes	TetraTech, PM	jessica.stokes@tetratech.com	(973) 630-8017
Emily Vassallo	TetraTech, Lead Planner	emily.vassallo@tetratech.com	
Michael Reynolds	Town Court	Mike.hayley@ro52@gmail.com	607 227 8416
Joe Burst	Town of Ovid	jburst@townofovid.net	607 882-1102
RICH RICHARDSON	VILLAGE OF INTERLAKEN	MAYOR @ VILLAGEOFINTERLAKEN.ORG	607-279-1407
Toni DiGiovanni	Seneca County EMO	tdigiovanni@co.seneca.ny.us	315-539-1757
Kristopher Rodger	Seneca County EMO	Krodger@co.seneca.ny.us	607-591-3868
Don Northrup	VILLAGE OF WATERLOO ADMINISTRATOR	DNORTH@WATERLOO.NY.COM	(315) 539-9131
Susan Trapp	Town of Ovid Rep	Susan@municipaldistrictinc.com	585-739-3239
Scott Fawcett	Planning Manager DHES	scott.fawcett@dhes.ny.gov	(518) 485-9208
Melissa Taylor	DEM	mtaylor@co.seneca.ny.us	315-539-1756
Elizabeth Pardee	Town of Tyre	supervisor@tyreny.com	585-200-6087
Jill Henry	Seneca County	jhenry@co.seneca.ny.us	315 539 1637
Lito Latchi	LDJ Town Supervisor	llatchi@lodyny.com	607-725-0371





TETRA TECH



# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

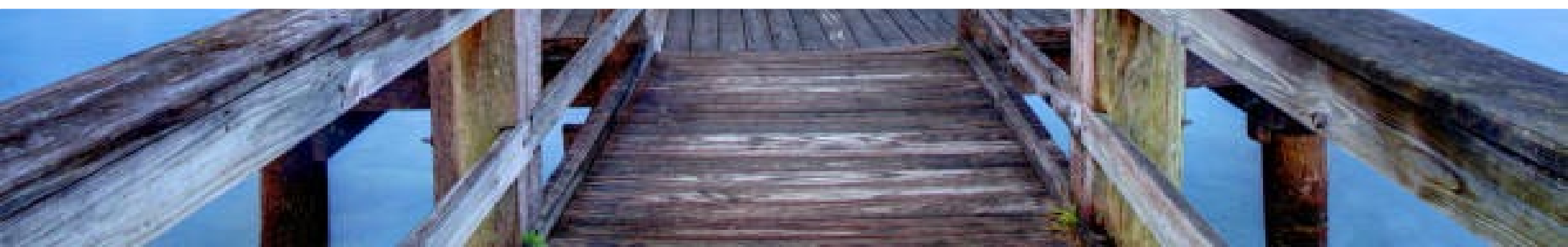
**Planning Partnership Risk Assessment Meeting  
and Mitigation Strategy Workshop**

September 19, 2024

While waiting for the meeting to start, please mark your attendance on the sign in sheet!



# Today's Agenda

1. Opening Remarks
  2. Project Status
  3. Risk Assessment Overview
  4. Preliminary Risk Assessment Results
  5. County Hazard Ranking
  6. Identifying and Developing Mitigation Strategies
  7. Developing New Potential Actions
  8. Next Steps
  9. Questions
- 





# Project Status



# Municipal Participation Status

- To date, we have not received all municipal worksheets. The below jurisdictions still have outstanding worksheets to submit. Your Tetra Tech planner will be sending a summary of information needed.

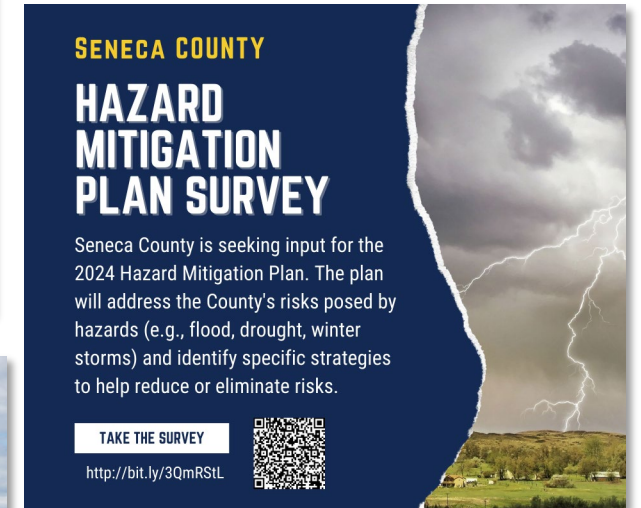
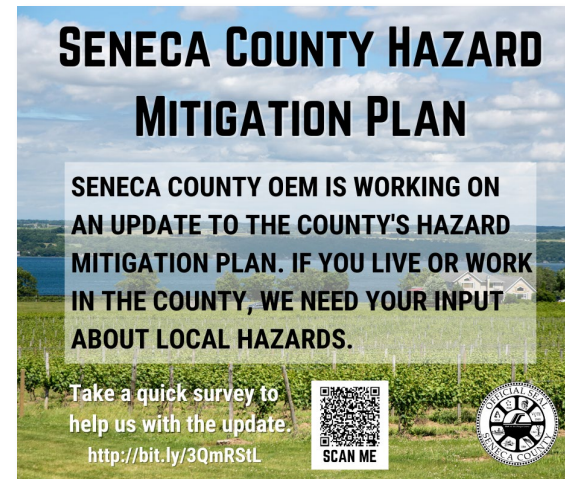
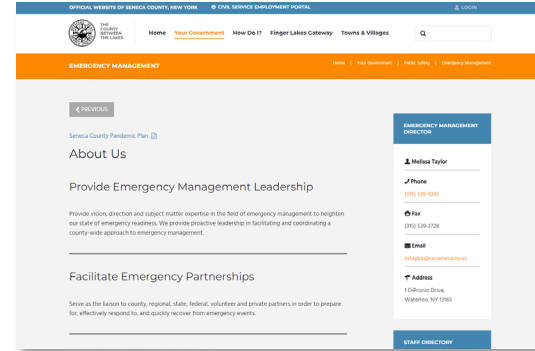
Municipality	Hazard Event History	Capability Assessment	NFIP Summary	Past Action Review	Building Permits
Town of Covert	X		X	X	
Town of Fayette	X				
Town of Junius	X	X	X	X	X
Village of Lodi					X
Town of Ovid				X	X
Town of Varick				X	
Town of Waterloo	X		X		
Village of Waterloo					X

Note: an 'X' indicates the worksheet has **NOT** been returned or was not returned completed

# Public Outreach Strategy



- Public Outreach Toolkit
  - Social media templates and posts
  - Press release templates
  - Printable materials
- Surveys
  - Stakeholders
  - Neighboring communities
  - Public
- County Website
- StoryMap







# Risk Assessment Overview



# What is Risk?

Risk is defined as a function of :

- Hazard
  - Source of potential danger or adverse condition
- Exposure
  - Manmade or natural features that are exposed to the hazard
- Vulnerability
  - Damage susceptibility of the exposed features
- Adaptive Capacity (or capability)
  - Plans/policies
  - Response/recovery
  - Financial resources







# Purpose of Risk Assessment

- To get a better understanding of the risks you face
- Initial results based on available data
- Quantitative data (population/structures exposed, structural damages within hazard zones) used when available
- Qualitative community input (such as unmapped flood areas) integrated to adjust results
- Local community input to adjust relative rankings



# Preliminary Risk Assessment Results





# Dam Failure

Dam failures in Seneca County are a low-probability and high-consequence event. A dam failure can have devastating impacts on the County. While most dams have storage volumes small enough that failures would have little or no consequences, dams with large storage amounts could cause significant flooding downstream.

## Number of Dams

# 10

- 2 High Hazard
- 0 Significant Hazard
- 6 Low Hazard
- 2 Undesignated

## Impacts

- Dam failure can cut evacuation routes, limit emergency access, and/or create isolation issues.
- Severe flooding can cause extensive structural damage and withhold essential services.
- The environmental impacts of a dam failure can include significant water-quality and debris-disposal issues or severe erosion that can impact local ecosystems.

## Dam Failure in New York State



## Climate Change Impacts

Seneca County is expected to experience increased precipitation and more frequent, intense storms. Excessive rainfall can cause a dam to overflow since these structures are designed partly based on assumptions about river flow and precipitation patterns. More frequent and intense precipitation leads to more intense dam overtopping, potentially affecting a larger area and producing stronger water velocities that exacerbate damages to general building stock and critical facilities.



# Drought

Droughts can affect Seneca County's industries and make day to day tasks more difficult to complete when water usage must be monitored.

Population Exposed

33,814

(100%)

The entire County is susceptible

Climate Change Impacts

Short-term seasonal droughts lasting weeks or months could increase, especially in the summer. This is because of precipitation falling in more intense bursts with longer dry spells in between and higher temperatures in the summer causing more water to evaporate. The potential increase of short-term droughts may impact water systems, resulting in water shortages.

Drought Damaged Field



Hazard Types



Meteorological



Hydrological



Agricultural



Socioeconomic



Ecological

# Earthquake



Earthquakes in Seneca County are a low-probability and high-consequence event. An earthquake can have devastating impacts on the County. Ground shaking can lead to the collapse of buildings and bridges and disrupt gas lines, electricity, and phone service.

## Climate Change Impacts

The impacts of global climate change on earthquake probability are still being studied. Secondary impacts of earthquakes could also become magnified by climate change.

## Population Exposed

**33,814**

The entire County is susceptible

**18,482**

Population in NEHRP Soils Class D and E are at higher risk

## Hazard Types

- Surface Faulting
- Ground Motion
- Liquefaction
- Tectonic Deformation

## Number of Buildings Exposed

**10,592**

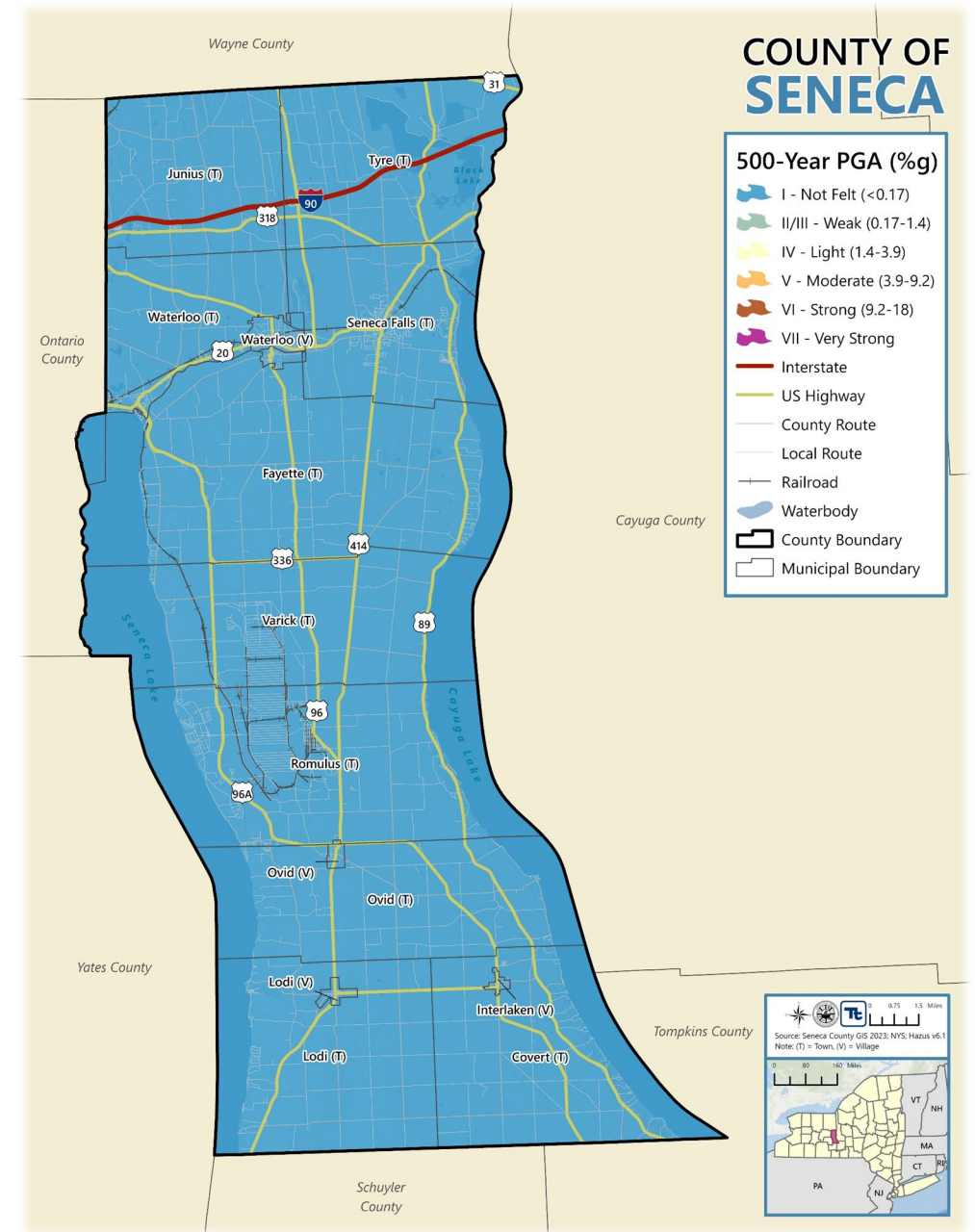
In NEHRP Soils Class D and E

## Building Replacement Cost Value

**\$6,474,027,571**

In NEHRP Soils Class D and E

## 500-Year Peak Ground Acceleration in Seneca County





# Extreme Temperature

Extreme temperature includes both heat and cold events, which affects the entire County including, human health and commercial/agricultural businesses. Extreme temperature events can have primary and secondary effects on infrastructure.

Population Exposed

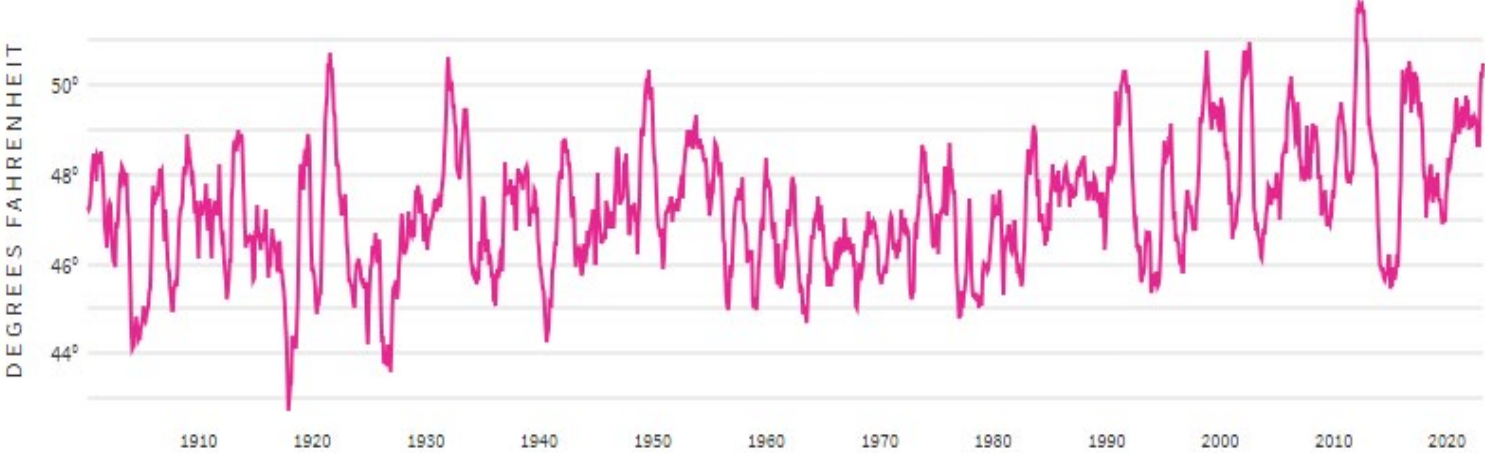
33,814  
(100%)

The entire County is susceptible

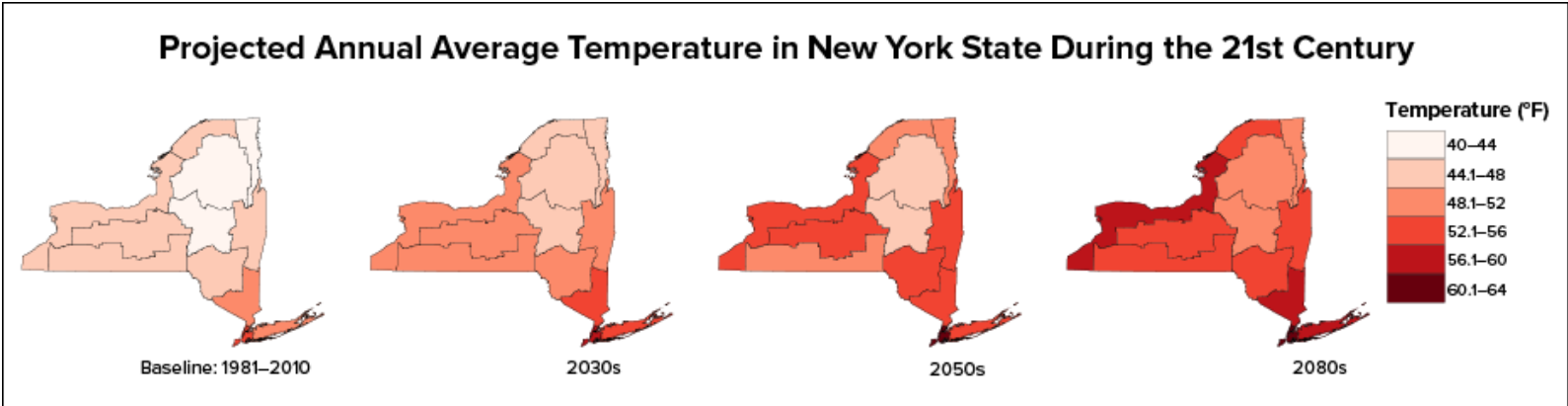
## Climate Change Impacts

Annual average temperatures are projected to increase across New York State by 2.5°F to 4.4°F by the 2030s and 3.8°F to 6.7°F by the 2050s. The warming is projected to be the greatest in the northern regions of the state and projections suggest that each season will experience a comparable amount of warming in the future relative to the baseline period.

12-Month Temperature Averages in Seneca County



Projected Annual Average Temperature in New York State During the 21st Century



# Flood



Floods can happen almost anywhere in County but tend to occur in and around areas near existing bodies of water. Sloped land in the County results in flowing water moving down steeper gradients and being naturally or artificially channelized through valleys and gullies.

### Climate Change Impacts

Precipitation totals are estimated increase by zero to 11 percent by the 2050s, increase by two to 17 percent by the 2080s, and decrease by three percent or increase by up to 22 percent by 2100, relative to the 1981-2010 base period. The projected increase in precipitation is expected to fall as heavy downpours.

### Hazard Types

- Riverine / Inland
- Flash Flood
- Lakeshore
- Ice Jam
- Urban/Stormwater

### Population Exposed

1,644

In 1% Annual Chance Flood Area

9,083

In 0.2% Annual Chance Flood Area

### Number of Buildings Exposed

1,168

In 1% Annual Chance Flood Area

8,370

In 0.2% Annual Chance Flood Area

### Flood Building Replacement Cost Value

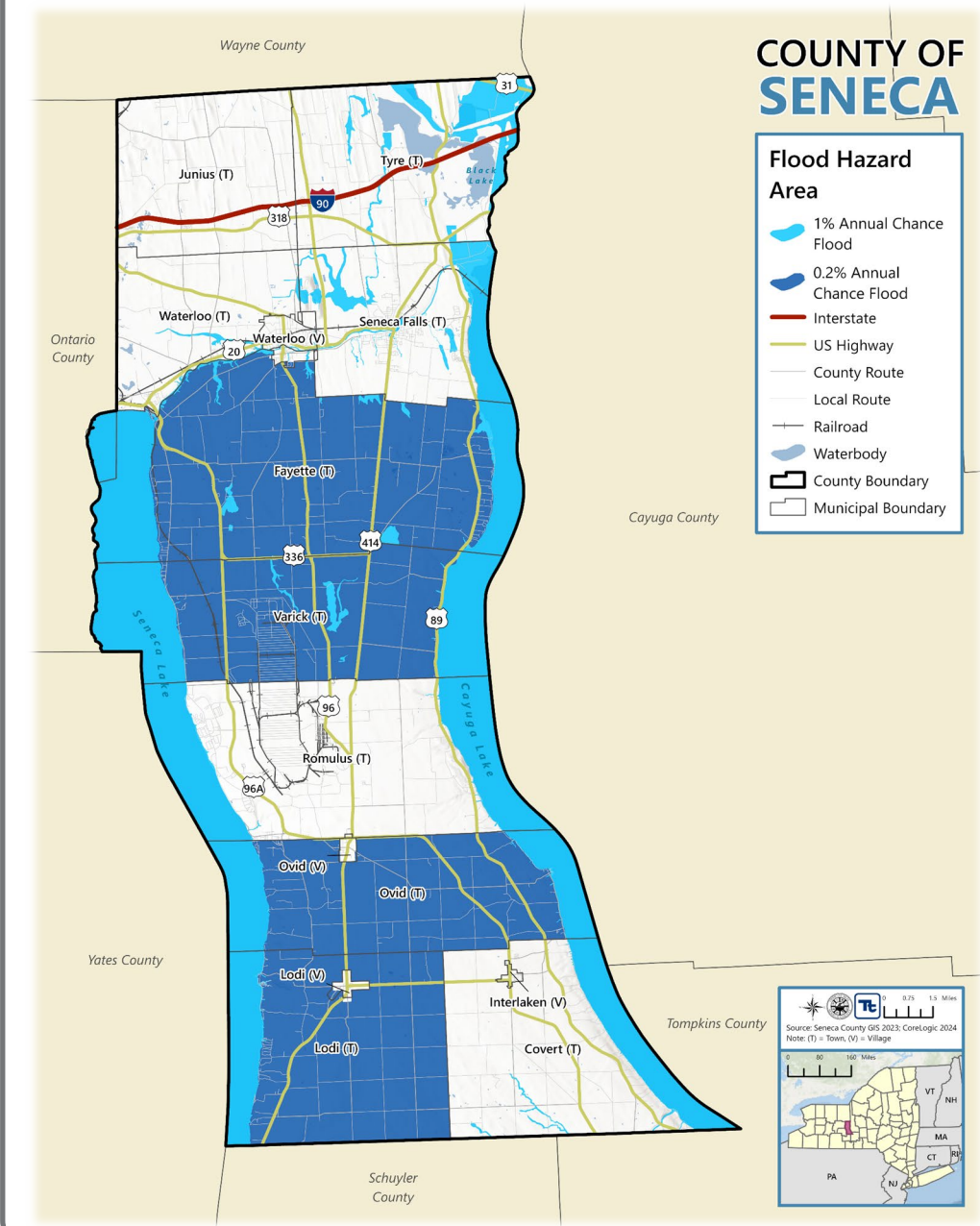
\$356,056,844

In 1% Annual Chance Flood Area

\$4,415,760,986

In 0.2% Annual Chance Flood Area

### FEMA Flood Hazard Areas



# Landslide



Landslides and subsidence sinkholes are common in the State of New York, primarily in northern regions. Expansion of urban and recreational developments into hillside areas exposes more people to the threat of landslides each year.

## Climate Change Impacts

Recent studies show that climate change is impacting slow-moving landslides, which is where the land creeps downhill just inches to feet in a single year. Landslides in wet and dry regions showed similar sensitivity to extreme precipitation events, moving on average faster and farther downhill during rainy periods compared to drought years.

## Number of Buildings Exposed

536

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

668

High (> 20%) Landslide  
Incidence Hazard Area

## Population Exposed

696

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

841

High (> 20%) Landslide  
Incidence Hazard Area

## Building Replacement Cost Value

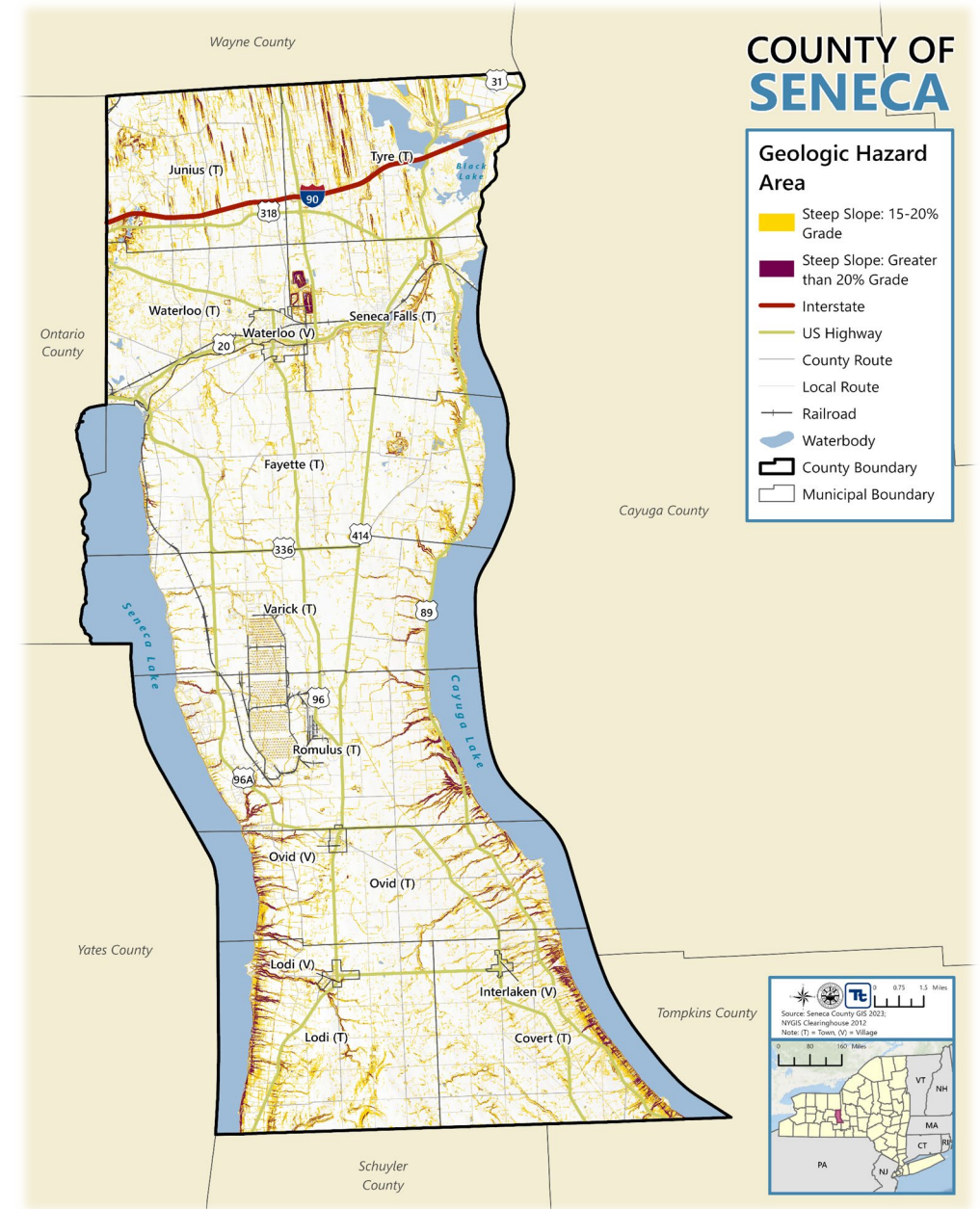
\$253,831,864

Moderate (15% - 20%) Landslide  
Incidence Hazard Area

\$379,088,340

High (> 20%) Landslide  
Incidence Hazard Area

## Geologic Hazard Area in Seneca County





# Severe Weather

Severe weather can occur anywhere in the County at any time and have the potential to be life-threatening. It is critical for the community to prepare and be aware of forecasts in their local jurisdictions.

## Population Exposed

33,814

(100%)

The entire County is susceptible

## Notable Occurrences

On April 4, 2018 strong winds behind an intense storm system resulted in multiple reports of wind gusts of 60 mph with trees and wires down in many locations. In Seneca County \$40,000 in property damage was reported.

## Potential Impacts

- Power Outages
- Traffic Accidents
- Downed Trees
- Property Damage
- Personal Injury / Loss of Life

Microburst Wind Damage at Compton Farms in Ovid



## Hazard Types

 High Wind

 Tornado

 Thunderstorm and Lightning

 Hailstorms

 Hurricanes and Tropical Storms

# Severe Winter Weather

Severe winter weather can occur anywhere in the County and have the potential to be life-threatening. It is critical for the community to prepare and be aware of forecasts in their local jurisdictions.

Population Exposed

33,814  
(100%)

The entire County is susceptible

Hazard Types

- Heavy Snow
- Sleet
- Blizzard
- Ice Storm
  - Freezing Rain

Car Left Along Highway During Snowstorm



Notable Occurrence



A winter storm in early 2021 resulted in reports of 11 inches to 24 inches of snow across Seneca County.

Climate Change Impacts

Snowfall is likely to become less frequent, with the season decreasing in length. As winters continue to warm, ice is projected to become rarer, which may lead to more snow in the short term. Over the long term, however, more of this is likely to fall as rain.





# Hazard Rankings

Review the calculated hazard rankings and provide your feedback.



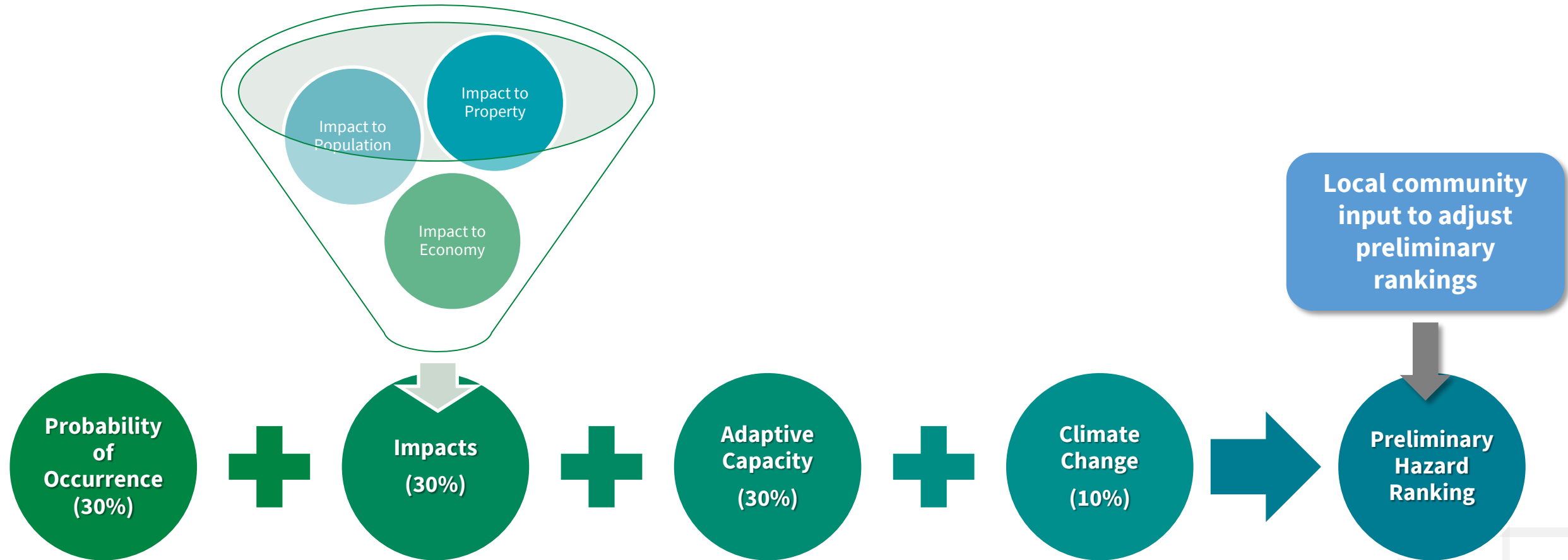
# Preliminary Hazard Ranking Methodology

- The calculated probability of a hazard occurring based on historical data
- *Impacts to people, property, and the economy* based on GIS data and analysis of exposure.
- The degree to which climate change will affect future occurrences based on best available data.
- The degree to which existing capabilities (the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness) decrease overall risk.





# Preliminary Hazard Ranking Formula





# Preliminary Risk Ranking (County)

## High

- Severe Winter Storm
- Severe Weather
- Flood

## Medium

- Extreme Temperature
- Dam Failure
- Earthquake

## Low

- Drought
- Landslide

Severe Winter Weather

Severe Weather

Flood

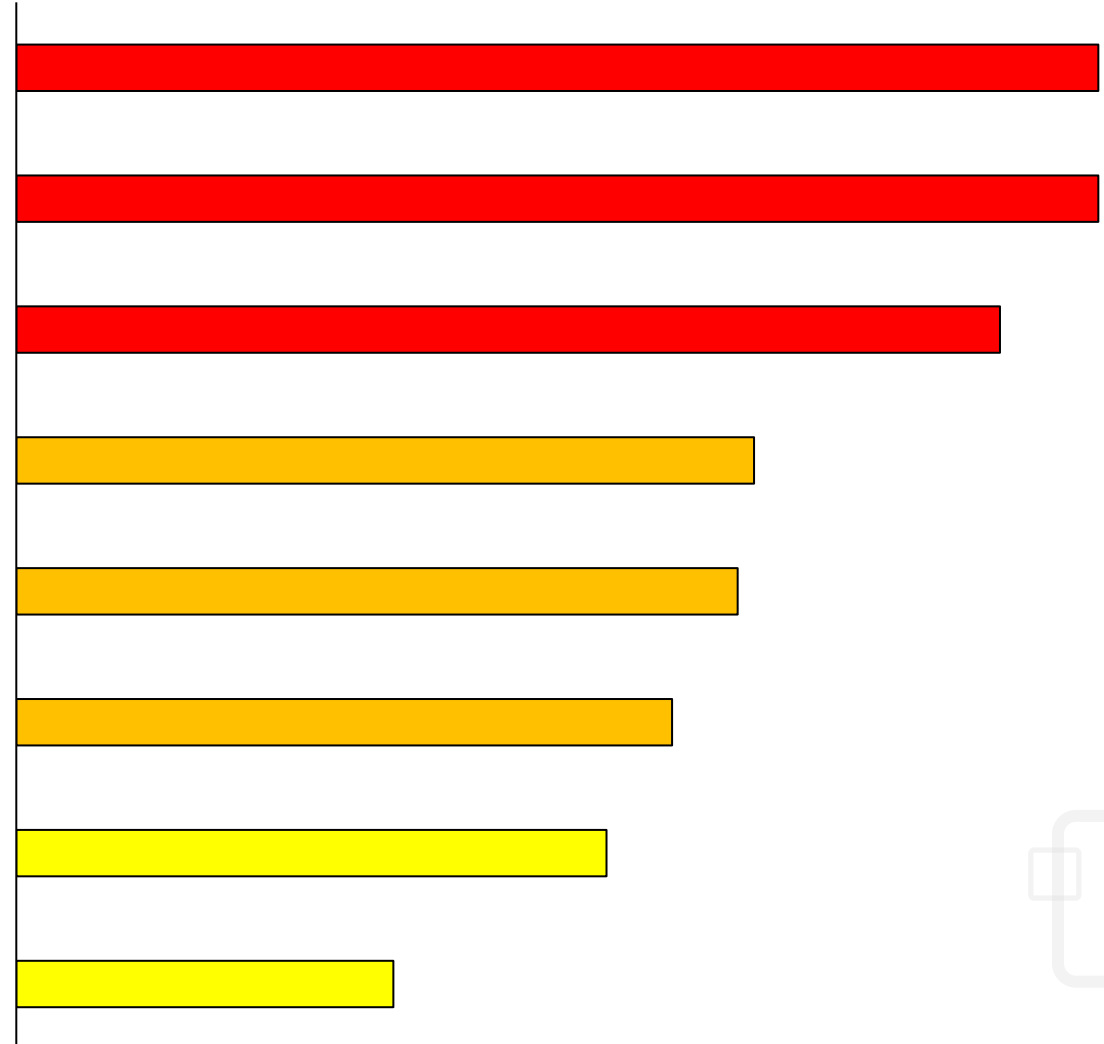
Extreme Temperature

Dam Failure

Earthquake

Drought

Landslide







**Take a quick break  
before we begin the  
Mitigation Strategy  
Workshop!**

# Identifying and Developing Mitigation Strategies



# Using Your Mitigation Strategy to Reduce Risk



- What is a **Mitigation Strategy**?
  - A group of projects or actions to reduce the impacts of the hazards of concern on your community
    - Plans and Regulations
    - Structure and Infrastructure Studies and Projects
    - Natural Systems Protection Studies and Projects
    - Education and Awareness Programs
- Terms to describe the Mitigation Strategy include:
  - **Mitigation Action Plan** or **Action Plan**
  - **Mitigation Projects** or **Initiatives** or **Actions**

Your Mitigation Strategy is included in your annex. Each action will be developed on individual Action Worksheets to include detailed information that can serve as starting points for grant applications and guide implementation



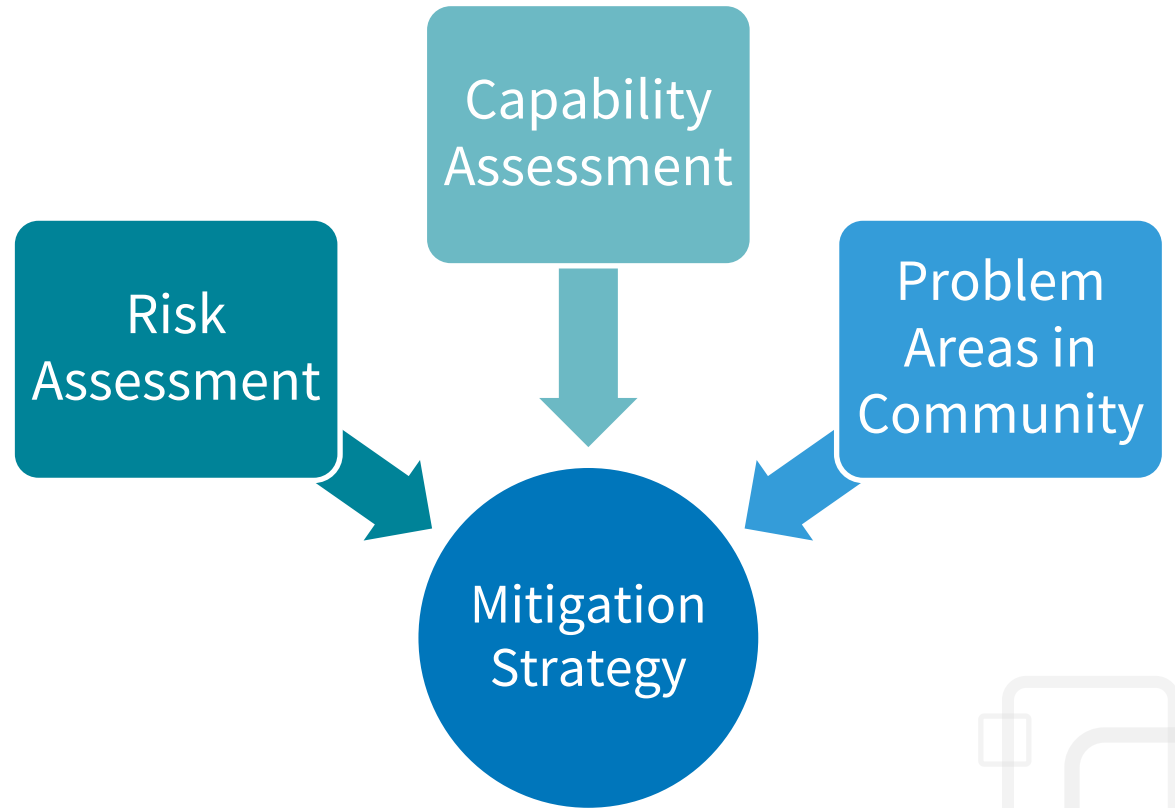
# Purpose of Mitigation Strategy

- The **Mitigation Strategy** is the County's roadmap to reduce the risk of hazards identified in the HMP. The strategy is based on hazard impacts, asset vulnerability, and the County's capabilities.
- **Mitigation Actions** are specific activities, such as policies, projects, and studies, that stakeholders identify to reduce risk.
  - Forward-looking and incorporate changing conditions for the life of the County's assets
  - Consider changing demographics, development patterns, impacts of climate change.
  - Examples of actions may include elevating electrical and HVAC equipment to reduce the likelihood of damage from floodwaters or planting trees to lower temperatures exacerbated by pavement.
  - ***Actions included in the plan are eligible for certain types of FEMA funding.***



# Connecting to the Mitigation Strategy

- Need a clear connection between vulnerabilities identified in the risk assessment and proposed mitigation actions.
- The capability assessment can provide insight into challenges and opportunities for the mitigation strategy.
- All actions proposed in the mitigation strategy must have a factual basis tied to hazards (*this shouldn't be a wish list!*)

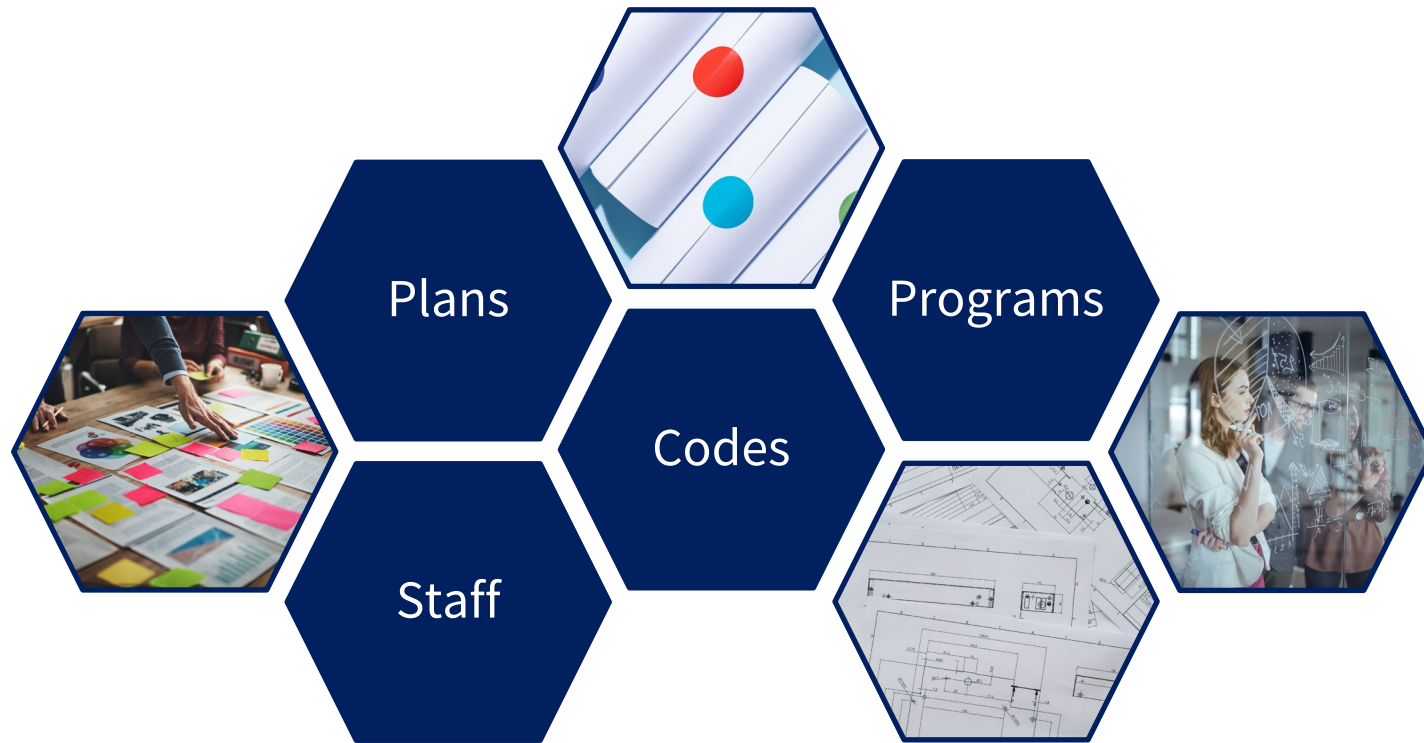




# Capability Assessment



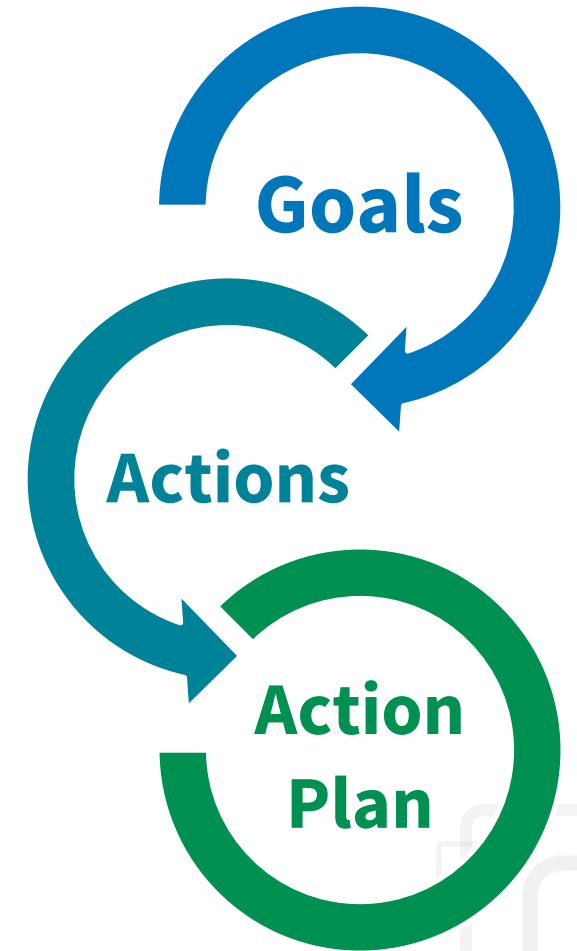
- Capabilities
  - What does your jurisdiction use to reduce risk to hazards?





# Mitigation Strategy

- Goals
  - What outcomes do you want to achieve?
- Actions
  - What specific actions will be taken to reduce hazard risk?
- Action Plan
  - How will the actions be prioritized and implemented?



# 2025 HMP Goals



	Goal
1	Protect life, property, and the environment from current and future impacts.
2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
3	Increase public preparedness and awareness of natural hazards.
4	Enhance mitigation capabilities to reduce hazard vulnerabilities.
5	Support continuity of operations pre-, during, and post-hazard events.
6	Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
7	Address long-term vulnerabilities from High Hazard Dams.



# Developing New Potential Actions

# Requirements for the Mitigation Strategy Update



- Quality not quantity
  - Each action needs detailed information on the why, who, what, and when of the action.
- Previous projects
  - If a project is not finished and still a priority, include in 2025 HMP
  - Remove general projects or make more specific
  - Remove ongoing capabilities like maintenance or annual outreach
- **Each hazard needs at least one mitigation action**
- If your jurisdiction has Repetitive Loss Properties - an action is needed to mitigate the properties (elevation or acquisition) with specifics (street or neighborhood names, not specific addresses)





# Where do you need to focus?

- **Stronger connection** between the risk assessment and mitigation strategy
- **More specific, achievable actions**
  - Specific projects, in specific locations, in a specific timeframe
  - Focus on socially vulnerable populations and underserved communities
- **Diverse actions**
  - You need at least **one action per hazard of concern**. Think about actions that can cover multiple hazards.
  - Include a variety of action types (e.g., plans, floodproof critical facilities, outreach programs, etc.)



# Other Mitigation Actions to Consider

- Substantial Damage Management Plan
- Actions to address high-hazard or significant-hazard dams
- Public education and outreach programs
- Generators at critical facilities and community lifelines
- Floodproofing critical facilities and community lifelines
- Addressing repetitive and severe repetitive loss properties





# Next Steps

- NOW: Complete your worksheets, ask questions, and provide to Tetra Tech staff
- AFTER WORKSHOP: Continue to share information about the HMP Update via social media, community groups, and networks. Let us know who you share information with!
- NEXT MONTH: Work with Tetra Tech planners to complete annexes and finalize actions.





# Workshop

Review previous mitigation actions, identify new actions, complete missing areas in your annex.


**Before you leave, check in with Tetra Tech staff!**



# Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)



- The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Seneca County HMP. The results will be used to develop a catalog of potential mitigation actions for use by the County and all jurisdictions. Look at the following for each hazard of concern:
  - Strengths – what the County and communities do well; things upon which we can capitalize;
  - Weaknesses – what can be done better; what can be strengthened;
  - Obstacles – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and
  - Opportunities - actions or projects to mitigate issues or improve resilience.
- Return this sheet to a Tetra Tech employee at the end of today's meetings.



Seneca County | Hazard Mitigation Plan 2025 Update  
SWOO


Update this worksheet and return this worksheet to Jessica Stokes at  
Jessica.Stokes@tetratech.com

Name/Title of Individual Completing Worksheet: \_\_\_\_\_

**STRENGTHS, WEAKNESSES, OBSTACLES, AND OPPORTUNITIES (SWOO)**  
The purpose of the SWOO is to identify mitigation strategies and capabilities that will meet the goals and objectives for the Burlington County Hazard Mitigation Plan. The results will be used to develop a catalog of potential mitigation actions for use by the County and all jurisdictions. The opportunities developed from this process will serve as the basis for our catalog of potential mitigation alternatives. The alternatives will address our risks, meet our planning goals, and fall within our capabilities. We need to look at the following for each hazard of concern:

- **Strengths** – what the County and communities do well; things upon which we can capitalize;
- **Weaknesses** – what can be done better; what can be strengthened;
- **Obstacles** – what stands in the way to implementation to prevent mitigation or response (for example regulatory, geographical, environmental, financial issues); and
- **Opportunities** - actions or projects to mitigate issues or improve resilience.

Dam Failure
Strengths
Weaknesses
Obstacles
Opportunities

TETRA TECH

1Seneca County Hazard Mitigation Plan



# Review Preliminary Rankings



Seneca County | Hazard Mitigation Plan 2025 Update  
Hazard Ranking

Complete this worksheet to update your mitigation strategy.

**EVERY HAZARD OF CONCERN MUST BE ADDRESSED BY AT LEAST ONE MITIGATION ACTION.**

Return this worksheet to Tetra Tech staff at the end of the Mitigation Strategy Workshop. If your municipality needs more time, please provide the date you will return the worksheet (within the next 2 weeks) to Tetra Tech.

Municipality: \_\_\_\_\_

Name/Title of Individual Completing  
Worksheet: \_\_\_\_\_

**THE FOLLOWING WORKSHEETS ARE PAST DUE AND NEED TO BE REVIEWED WITH TETRA TECH  
BEFORE LEAVING TODAY'S WORKSHOP:**

•

## What is a hazard ranking?

Hazard Ranking is used to understand your community's vulnerabilities to hazards and to prioritize projects and activities for mitigation.

Hazard Ranking is determined by quantitative and qualitative factors including:

1. The calculated probability of a hazard occurring based on historical data.
2. Impacts to people, property, and the economy based on GIS data and analysis of exposure.
3. The degree to which climate change will affect future occurrences based on best available data.
4. Adaptive Capacity, which is the ability your community has to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness.

## What is my hazard ranking?

The following table represent the calculated rankings for the hazards of concern for your community. Please review the calculated rankings and indicate whether or not you want to adjust the ranking. If you are changing the ranking, please provide detail as to why you are changing the ranking. **REMEMBER, for every hazard of concern, you need at least one mitigation action.**



Seneca County | Hazard Mitigation Plan 2025 Update  
Hazard Ranking

## What are the hazards we need to address?

FEMA requires each participating jurisdiction include at least one mitigation action for each of the hazards of concern. For the Seneca County 2025 Hazard Mitigation Plan update, the hazards of concern are as follows:

Hazard	Preliminary Ranking	Agree with preliminary ranking (Y/N)? If No, indicate preferred ranking.	What local information or conditions have resulted in the adjustment in hazard ranking?
Dam and Levee Failure			
Flood			
Landslide			
Pandemic			
Severe Storm			
Severe Winter Storm			
Utility Failure			
Wildfire			

## What is Adaptive Capacity?

Adaptive capacity describes a jurisdiction's current ability to protect from or withstand a hazard event.

- **Weak** adaptive capacity means the jurisdiction does not have the capability to effectively respond, which leads to an increase in vulnerability. Examples include weak/outdated/inconsistent plans, policies, codes/ordinances in place; no redundancies; limited to no deployable resources; limited capabilities to respond; long recovery.
- **Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities; mitigation measures are identified but not implemented widespread; jurisdiction can recover but needs outside resources.
- **Strong** adaptive capacity means the jurisdiction does have the capability to effectively respond, plans/policies exceed minimum requirements; deployable resources all of which decreases vulnerability.

Table 2. Municipal Adaptive Capacity

Hazard	Preliminary Ranking	What should we indicate for your community's adaptive capacity for each hazard?
Dam and Levee Failure	Moderate	
Flood	Moderate	
Landslide	Moderate	
Pandemic	Moderate	
Severe Storm	Moderate	
Severe Winter Storm	Moderate	
Utility Failure	Moderate	
Wildfire	Moderate	

# Previous Actions Review



If you have not done so:

Review the mitigation actions your jurisdiction identified in the previous HMP by providing a brief status narrative. Begin by providing the status:

- **IN PROGRESS:** Started but not complete
- **ONGOING CAPABILITY:** An action you now complete on a regular basis (maintenance, annual outreach, etc.). These actions will be included in your capabilities moving forward.
- **NO PROGRESS:** Not started
- **COMPLETE:** Finished!

Actions that are **COMPLETE** or **ONGOING** will not be carried forward.



## STATUS OF PREVIOUS MITIGATION ACTIONS

Review the mitigation actions your jurisdiction identified in the previous HMP by providing a brief narrative. Begin by providing a status update for each action listed in your last annex:

- **IN PROGRESS:** Started but not complete
- **ONGOING CAPABILITY:** An action you now complete on a regular basis (maintenance, annual outreach, etc.). These actions will be included in your capabilities moving forward.
- **NO PROGRESS:** Not started
- **COMPLETE:** Finished!

Actions that are **COMPLETE** or **ONGOING** will not be carried forward. Indicate if **NO PROGRESS** or **IN PROGRESS** actions should be carried forward!

Table 3. Status of Previous Mitigation Actions


Project #	Project Name	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review	Next Steps
				1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
			Problem: Solution:	1. 2.	1. 2. 3.
			Problem: Solution:	1. 2.	1. 2. 3.
			Problem: Solution:	1. 2.	1. 2. 3.
			Problem: Solution:	1. 2.	1. 2. 3.
			Problem: Solution:	1. 2.	1. 2. 3.

## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Manager

Jessica Stokes, MSEM, NJCEM  
(973) 630-017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



Thank  
You!



DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Relocate out of dam failure inundation areas.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Elevate home to appropriate levels.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Learn about risk reduction for the dam failure hazard.</li><li>○ Learn the evacuation routes for a dam failure event.</li><li>○ Educate yourself on early warning systems and the dissemination of warnings.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the hazard:</b><ul style="list-style-type: none"><li>○ Remove dams.</li><li>○ Harden dams.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Replace earthen dams with hardened structures.</li><li>○ Relocate facilities out of dam failure inundation areas.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Floodproof facilities within dam failure inundation areas.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Educate employees on the probable impacts of a dam failure.</li><li>○ Develop a continuity of operations plan.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the hazard:</b><ul style="list-style-type: none"><li>○ Remove dams.</li><li>○ Harden dams.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Replace earthen dams with hardened structures.</li><li>○ Relocate critical facilities out of dam failure inundation areas.</li><li>○ Consider open space land use in designated dam failure inundations areas.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Adopt higher floodplain standards in mapped dam failure inundation areas.</li><li>○ Retrofit critical facilities within dam failure inundation areas.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Map dam failure inundation areas.</li><li>○ Enhance emergency operations plans to include a dam failure component.</li><li>○ Institute monthly communications checks with dam operators.</li><li>○ Inform the public on risk reduction techniques.</li><li>○ Adopt real-estate disclosure requirements for the re-sale of property located within dam failure inundation areas.</li><li>○ Consider the probable impacts of climate change in assessing the risk associated with the dam failure hazard.</li></ul></li></ul>



DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Establish early warning capability downstream of listed high-hazard dams.</li><li>○ Consider the residual risk associated with protection provided by dams in future land use decisions.</li></ul>





DROUGHT		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Consider stored water/captured water techniques during dry seasons.</li><li>○ Establishing an irrigation time/scheduling program or process so that all agricultural land gets the required amount of water. Through incremental timing, each area is irrigated at different times so that all water is not consumed at the same time. Spacing usage may also help with recharge of groundwater.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Drought resistant landscapes.</li><li>○ Reduce water system losses.</li><li>○ Regularly check for leaks to minimize water supply losses.</li><li>○ Install low-flow water saving showerheads and toilets.</li><li>○ Turn water flow off while brushing teeth or during other cleaning activities.</li><li>○ Adjust sprinklers to water the lawn and not the sidewalk or street.</li><li>○ Run the dishwasher and washing machine only when they are full.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Consider stored water/captured water techniques during dry seasons.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Drought resistant landscapes.</li><li>○ Reduce private water system losses.</li><li>○ Identify alternate water supply sources.</li><li>○ Install low-flow water saving showerheads and toilets.</li><li>○ Adjust sprinklers to water the lawn and not the sidewalk or street.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Practice active water conservation.</li><li>○ Develop a COOP.</li><li>○ Create a water conservation plan.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Ground Water Recharge through stormwater management.</li><li>○ Implement cloud seeding techniques during dry seasons.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Identify and create ground water back up sources.</li><li>○ Create /identify new impounded water supply points.</li><li>○ Developing new or upgrading existing water delivery systems to eliminate breaks and leaks.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Water use conflict regulations.</li><li>○ Reduce water system losses.</li><li>○ Distribute water saving kits.</li><li>○ Identify sites ideally suited for ground water recharge.</li><li>○ Implement stormwater retention in regions ideally suited for groundwater recharges.</li><li>○ Utilize drought resistant landscapes on community owned facilities.</li><li>○ Encourage citizens to take water-saving measures.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Public education on drought resistance.</li><li>○ Identify alternative water supplies for time of drought.</li></ul></li></ul>



DROUGHT		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>○ Check for leaks in plumbing or dripping faucets.</li><li>○ Install rain-capturing devices for irrigation.</li><li>○ Install graywater systems in homes to encourage water reuse.</li><li>○ Rotate crops by growing a series of different types of crops on the same fields every season to reduce soil erosion.</li><li>○ Planting “cover crops,” such as oats, wheat, and buckwheat, to prevent soil erosion.</li><li>● <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Practice active water conservation techniques.</li><li>○ Seek ways to operate wells in such a way to enhance their functional longevity and supply capability.</li></ul></li></ul>		<p>Mutual aid agreements with alternative suppliers.</p> <ul style="list-style-type: none"><li>○ Develop a drought contingency plan.</li><li>○ Develop criteria-"triggers" for drought related actions.</li><li>○ Improve accuracy of water supply forecasts.</li><li>○ Provide incentives to influence active water conservation techniques such as water user rate reductions.</li><li>○ Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes.</li><li>○ Use of water buffalo tankers.</li><li>○ Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells.</li><li>○ Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc.</li></ul>



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate outside of hazard area (off soft soils).</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Retrofit structure (anchor house structure to foundation).</li><li>○ Secure household items that can cause injury or damage such as water heaters, bookcases, and other appliances.</li><li>○ Build to higher design standards.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Practice "drop, cover and hold"</li><li>○ Develop household mitigation plan, such as creating a retrofit savings account, communication capability with outside, 72 hr. self-sufficiency during an event.</li><li>○ Increase capability by having cash reserves for reconstruction.</li><li>○ Become informed on the hazard and risk reduction alternatives available.</li><li>○ Develop a post-disaster action plan for your household.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate/relocate mission critical functions outside hazard area where possible.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Build redundancy for critical functions/facilities.</li><li>○ Retrofit critical buildings/areas housing mission critical functions.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Adopt higher standard for new construction -- Consider "performance-based design" when building new structures.</li><li>○ Increase capability by having cash reserves for reconstruction.</li><li>○ Inform your employees on the possible impacts of earthquake and how to deal with them at your work facility.</li><li>○ Develop a Continuity of Operations Plan (COOP).</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate critical facilities or functions outside of hazard area where possible.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Harden infrastructure.</li><li>○ Provide redundancy for critical functions.</li><li>○ Adopt higher regulatory standards for structures.</li><li>○ Conduct "rapid screening" programs for critical facilities to identify facilities that may be particularly prone to EQ damage, then develop investigation/action plans to address such structures.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Provide better hazard maps.</li><li>○ Provide technical information and guidance.</li><li>○ Enact tools to help manage development in hazard areas: tax incentives, information.</li><li>○ Include retrofitting/replacement of critical system elements in CIP.</li><li>○ Develop strategy to take advantage of post disaster opportunities.</li></ul></li></ul>



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Warehouse critical infrastructure components such as pipe, power line, and road repair material.</li><li>○ Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG).</li><li>○ Initiate triggers guiding improvements such as: (&lt; 50% substantial damage/improvements).</li><li>○ Further enhance seismic risk assessment to target high hazard buildings for mitigation opportunities.</li><li>○ Develop a post disaster action plan that includes a grant funding and debris removal components.</li><li>○ Utilize warning systems.</li><li>○ Educate builders and developers on seismic construction standards.</li></ul>



## EXTREME TEMPERATURE

## Personal Scale

- **Manipulate the Hazard:**
  - Increase tree plantings
  - Installation of green roofs to provide shade and remove heat
  - Use cool roofing products that reflect sunlight and heat away from a building
- **Reduce exposure to the hazard:**
  - None
- **Reduce vulnerability to the hazard:**
  - Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold
- **Increase Capability**
  - None

## Corporate Scale

- **Manipulate the Hazard:**
  - Increase tree plantings
  - Installation of green roofs to provide shade and remove heat
  - Use cool roofing products that reflect sunlight and heat away from a building
- **Reduce exposure to the hazard:**
  - None
- **Reduce vulnerability to the hazard:**
  - Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold
- **Increase Capability:**
  - Set rules restricting outdoor work during extreme temperature events

## Government Scale

- **Manipulate the Hazard:**
  - Increase tree plantings
  - Encourage installation of green roofs to provide shade and remove heat
  - Encourage the use of cool roofing products that reflect sunlight and heat away from a building
- **Reduce exposure to the hazard:**
  - None
- **Reduce vulnerability to the hazard:**
  - Require minimum temperatures in housing/landlord codes
- **Increase Capability:**
  - Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur
  - Establish warming and cooling centers
  - Establish extreme temperature planning in emergency operation plans
  - Create a database to track those individuals at high risk of death such as the elderly, homeless, etc.





FLOOD		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Clear stormwater drains and culverts.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate or re-locate outside of hazard area.</li><li>○ Institute low impact development techniques on property.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Retrofit existing structures and utilities above Base Flood Elevation (BFE).</li><li>○ Floodproof existing structures (wet- or dry floodproofing).</li><li>○ Store hazardous materials above BFE or outside of floodprone areas.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Develop household mitigation plan, such as retrofit savings, communication capability with outside, 72-hr. self-sufficiency during and after an event.</li><li>○ Buy flood insurance.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Clear stormwater drains and culverts.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate business critical facilities or functions outside hazard area.</li><li>○ Institute low impact development techniques on property.</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Build redundancy for critical functions/ retrofit critical buildings.</li><li>○ Provide flood-proofing measures when new critical infrastructure must be located in floodplains.</li><li>○ Harden structures and infrastructure (wet and dry-floodproofing).</li><li>○ Store hazardous materials above BFE or outside of floodprone areas.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Increase capability by having cash reserves for reconstruction.</li><li>○ Develop and adopt a Continuity of Operations Plan (COOP).</li><li>○ Solicit 'cost-sharing' through partnerships with private sector stakeholders on projects with multiple benefits.</li><li>○ Dam owner/operators should continue to be aware of and understand dam inspection and reporting requirements.</li><li>○ Ensure that all dam EAP's are kept in compliance with State Regulations.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Clear stormwater drains and culverts</li><li>○ Dredging, levee construction, providing retention areas.</li><li>○ Structural flood control: levee's, dams, channelization, revetments.</li><li>○ Construct regional stormwater control facilities.</li><li>○ Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Locate/re-locate critical facilities outside of hazard area.</li><li>○ Acquire or relocate identified repetitive loss properties.</li><li>○ Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks.</li><li>○ Adopt land development criteria such as PUD's, Density transfers, clustering.</li><li>○ Institute low impact development techniques on property.</li><li>○ Acquire vacant land or promote open space uses in developing watersheds to control increases in runoff.</li><li>○ Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality.</li></ul></li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Increase floodplain standards within municipal ordinances and include provisions for enforcing best practice standards.</li><li>○ Consider increasing minimum freeboard beyond state requirements.</li><li>○ Continue development application reviews by County Planning Board to reduce risky development practices.</li><li>● <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Harden structures and infrastructure (wet and dry-floodproofing).</li><li>○ Provide redundancy for critical functions and infrastructure.</li><li>○ Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage.</li><li>○ Stormwater management regulations and master planning.</li><li>○ Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities.</li><li>○ Participate in the Community Rating System (CRS).</li><li>○ Implement as-built regulatory requirements.</li><li>○ Implement site review ordinances/requirements.</li></ul></li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Establish stream maintenance programs with stakeholders (e.g. Soil and Water Conservation District) - support county leads of such efforts.</li><li>○ Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs).</li><li>○ Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding.</li><li>○ Work with environmental groups to address removal of debris, log jams, etc. in flood vulnerable stream sections.</li><li>● <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Produce better hazard maps, and improve access to flood hazard mapping</li><li>○ Capture/survey "high-water" marks during flood events.</li><li>○ Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners.</li><li>○ Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information).</li><li>○ Establish an additional layer of zoning within flood hazard areas.</li><li>○ Develop strategy to take advantage of post disaster opportunities.</li><li>○ Improve compliance with and enforcement of the NFIP.</li></ul></li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Develop mitigation partnerships with regional stakeholders.</li><li>○ Join Community Rating System (CRS) program, or improve level of participation in CRS.</li><li>○ Develop and implement a public information strategy for flood hazard awareness, flood insurance (NFIP) and mitigation.</li><li>○ Maintain existing data as well as gather new data needed to define risks and vulnerability.</li><li>○ Create a building and elevation inventory of structures in the floodplain</li><li>○ Identify flood prone areas that may be in need of new flood studies.</li><li>○ Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations).</li><li>○ Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements.</li><li>○ Integrate floodplain management policies into other planning mechanisms within the planning area.</li><li>○ Establish a Stormwater Utility to deal with urban drainage/flooding issues.</li><li>○ Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers).</li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Adopt ordinances/standards for cumulative damages and/or improvements.</li><li>○ Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current state and federal standards.</li><li>○ Develop and adopt a COOP.</li><li>○ Join "Storm Ready" Program.</li><li>○ Participate in county and regional training programs.</li><li>○ Provide additional training/certification to NFIP floodplain administrators and code officials.</li><li>○ Implement annual training to account for turnover of municipal officials.</li><li>○ Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages.</li><li>○ Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability.</li><li>○ Promote awareness and participation in alert systems.</li><li>○ Support and participate in regional flood management efforts.</li><li>○ Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.</li></ul>





FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Provide continued and enhanced training for emergency responders.</li><li>○ Establish a revolving "bank" or budget line item to fund grant application support.</li><li>○ Continue to review updated Flood Insurance Rate Maps to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.</li><li>○ Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's.</li><li>○ Build and maintain relationships to develop regional watershed/floodplain mitigation solutions.</li><li>○ Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis.</li><li>○ Explore grant funding opportunities related to climate change to fund mitigation projects.</li></ul>



## SEVERE WEATHER

Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Increase tree plantings.</li><li>○ Installation of green roofs to provide shade and remove heat.</li><li>○ Use cool roofing products that reflect sunlight and heat away from a building.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Retrofit structures (improved roofing, glazing, insulation, etc.).</li><li>○ Provide for redundant heat and power.</li><li>○ Contact municipality or utilities to trim or remove trees that could affect power lines.</li><li>○ Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation Program.</li><li>○ Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold.</li></ul></li><li>• <b>Increase Capability</b><ul style="list-style-type: none"><li>○ Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio).</li><li>○ Promote 72-hour self-sufficiency.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Increase tree plantings.</li><li>○ Installation of green roofs to provide shade and remove heat.</li><li>○ Use cool roofing products that reflect sunlight and heat away from a building.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Relocate critical infrastructure, such as power lines, underground.</li><li>○ Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations.</li><li>○ Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Contact municipality or utilities to trim or remove trees that could affect power lines.</li><li>○ Create redundancy (e.g. backup generators).</li><li>○ Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio).</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ Increase tree plantings.</li><li>○ Encourage installation of green roofs to provide shade and remove heat.</li><li>○ Encourage the use of cool roofing products that reflect sunlight and heat away from a building.</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Harden infrastructure such as locating utilities underground.</li><li>○ Trimming trees back from power lines.</li><li>○ Designate and strengthen critical road sections and bridges.</li><li>○ Adopt ordinances that regulate the type and quantity of trees planted near utility lines.</li><li>○ Relocate critical infrastructure, such as power lines, underground.</li><li>○ Require minimum temperatures in housing/landlord codes.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.</li><li>○ Enforce building codes.</li></ul></li></ul>



SEVERE WEATHER		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>○ Provide for redundant heat and power.</li></ul>	<ul style="list-style-type: none"><li>○ Develop a Continuity of Operations Plan (COOP).</li><li>○ Monitor impending storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services.</li><li>○ Set rules restricting outdoor work during extreme temperature events.</li></ul>	<ul style="list-style-type: none"><li>○ Increase communication alternatives.</li><li>○ Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.</li><li>○ Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines.</li><li>○ Promote awareness and participation in alert systems.</li><li>○ Provide NOAA weather radios to the public.</li><li>○ Create/Enhance "mutual aid" agreements for response to all emergencies.</li><li>○ Create/identify evacuation routes to be utilized during severe storm events.</li><li>○ Develop debris management plans.</li><li>○ Join "Storm-Ready" program.</li><li>○ Provide early warning of impending severe storm events to identified critical or essential facilities. This would include facilities such as large employments centers, schools, hospitals.</li></ul>



SEVERE WEATHER		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Promote emergency power supplies to private property.</li><li>○ Improve, expand, or harden communications facilities and services.</li><li>○ Recruit additional emergency personnel or use mutual aid agreements.</li><li>○ Increase sheltering capabilities.</li><li>○ Increase capability to respond to power outages and downed power lines. Establish partnerships with utility providers through pro-active planning.</li><li>○ Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur.</li><li>○ Establish warming and cooling centers.</li><li>○ Establish extreme temperature planning in emergency operation plans.</li><li>○ Create a database to track those individuals at high risk of death such as the elderly, homeless, etc.</li></ul>



## SEVERE WINTER WEATHER

Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation).</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Insulate House to provide greater thermal efficiency and reduce heat loss.</li><li>○ Provide redundant heat and power.</li><li>○ Insulate Structure.</li><li>○ Ensure natural gas input/release valves do not get covered in snow.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Trim or remove trees that could affect power lines.</li><li>○ Prepare emergency food and supplies to be self-sufficient for at least 72 hours in the event of a severe winter storm.</li><li>○ Be aware of inclement weather conditions and move your vehicles off of the street as severe weather systems approach.</li><li>○ Retrofit structures.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Relocate critical infrastructure, such as power lines, underground.</li><li>○ Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations.</li><li>○ Install tree wire.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Trim or remove trees that could affect power lines.</li><li>○ Create redundancy in utilities and communications.</li><li>○ Develop a Continuity of Operations Plan (COOP) to address operations before, during and after coastal storm events.</li><li>○ Utilize weather radios at the work place to keep your employees aware of severe weather conditions.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• <b>Manipulate the Hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce exposure to the hazard:</b><ul style="list-style-type: none"><li>○ None</li></ul></li><li>• <b>Reduce vulnerability to the hazard:</b><ul style="list-style-type: none"><li>○ Harden infrastructure such as locating utilities underground where appropriate.</li><li>○ Trimming trees back from power lines.</li><li>○ Designate snow routes and strengthen critical road sections and bridges.</li><li>○ Adopt codes and regulations that address the issues of parking of vehicles along roadways during severe weather events.</li><li>○ Develop or enhance the capacity/capability of stormwater conveyance systems.</li><li>○ Provide backup power sources at vital critical facilities.</li></ul></li><li>• <b>Increase Capability:</b><ul style="list-style-type: none"><li>○ Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.</li><li>○ Establish and enforce building codes that require all roofs to withstand snow loads--</li></ul></li></ul>





SEVERE WINTER WEATHER		
Personal Scale	Corporate Scale	Government Scale
		<p>Develop/Improve/Enforce building Codes in Hazard Areas.</p> <ul style="list-style-type: none"><li>○ Increase communication alternatives.</li><li>○ Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.</li><li>○ Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines.</li><li>○ Provide weather radios to vulnerable populations.</li><li>○ Enhance public awareness campaigns to address those issues of alert and warning and actions to take during severe weather events.</li><li>○ Utilize the best available technology to enhance the warning systems for all severe weather events (i.e.: tornado warning systems).</li><li>○ Coordinate severe weather warning capabilities and the dissemination of warning amongst those agencies within the planning area with the highest degree of capability.</li></ul>



SEVERE WINTER WEATHER		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>○ Encourage local ordinances for planting tree near lines and join Tree City USA.</li><li>○ Increase tree management programs.</li><li>○ Join the Community Rating System.</li><li>○ Join "Storm-Ready".</li><li>○ Retrofit critical structures and promote hazard resistant construction.</li><li>○ Keep open communications and education of hazards for mobile home communities.</li><li>○ Retrofit above-ground utilities to underground facilities if appropriate.</li><li>○ Create a salt reserve or research alternates to stretch salt reserve.</li><li>○ Ensure accessibility to hospitals.</li><li>○ Provide better debris logistics and removal.</li><li>○ Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event.</li></ul>

## Types of Mitigation Actions

A mitigation action is a specific action, project, activity, or process taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan's mission and goals. The actions to reduce vulnerability to threats and hazards form the core of the plan and are a key outcome of the planning process.

The primary types of mitigation actions to reduce long-term vulnerability are:

- Local Plans and Regulations (LPR)
  - Structure and Infrastructure Projects (SIP)
- Natural Systems Protection (NSP)
  - Education and Awareness Programs (EAP)

Mitigation Type	Description	Examples
Local Plans and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	<ul style="list-style-type: none"> <li>▪ Comprehensive plans</li> <li>▪ Land use ordinances</li> <li>▪ Subdivision regulations</li> <li>▪ Development review</li> <li>▪ Building codes and enforcement</li> <li>▪ NFIP Community Rating System</li> <li>▪ Capital improvement programs</li> <li>▪ Open space preservation</li> <li>▪ Stormwater management regulations and master plans</li> </ul>
Structure and Infrastructure Projects	<p>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.</p> <p>This type of action also involves projects to construct manmade structures to reduce the impact of hazards.</p> <p>Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.</p>	<ul style="list-style-type: none"> <li>▪ Acquisitions and elevations of structures in flood prone areas</li> <li>▪ Utility undergrounding</li> <li>▪ Structural retrofits</li> <li>▪ Floodwalls and retaining walls</li> <li>▪ Detention and retention structures</li> <li>▪ Culverts</li> <li>▪ Safe rooms</li> </ul>
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	<ul style="list-style-type: none"> <li>▪ Sediment and erosion control</li> <li>▪ Stream corridor restoration</li> <li>▪ Forest management</li> <li>▪ Conservation easements</li> <li>▪ Wetland restoration and preservation</li> </ul>
Education and Awareness Programs	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 or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	<ul style="list-style-type: none"> <li>▪ Radio or television spots</li> <li>▪ Websites with maps and information</li> <li>▪ Real estate disclosure</li> <li>▪ Presentations to school groups or neighborhood organizations</li> <li>▪ Mailings to residents in hazard-prone areas</li> <li>▪ StormReady</li> <li>▪ Firewise Communities</li> </ul>



**SENECA COUNTY HAZARD MITIGATION PLAN UPDATE  
Draft Plan Review Meeting, Morning Option – AGENDA  
MEETING DATE/TIME: February 18, 2025 @ 10:00AM**



**Virtual Meeting**

**Dial-In Phone Number: +1 213-357-2812; Conference ID: 305 063 746#**

**Join by Meeting: <https://msteams.link/UIJ3>**

- 1. Opening Remarks**
- 2. Project Status** - where we are in the process, public outreach
- 3. Public and Stakeholder Engagement**
- 4. HMP Draft Review**
  - **What's New?**
  - **2025 Framework**
  - **Review Process**
- 5. Next Steps**
- 6. Questions/Wrap Up**

**Seneca County Project Contact**

Melissa Taylor, Director  
Seneca County Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

**Tetra Tech Project Contact**

Jessica Stokes, MSEM, NJCEM  
Tetra Tech, Inc.  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)

**Seneca County, NY – Hazard Mitigation Plan 2025 Update  
Draft Plan Review Meeting | Meeting Minutes**



<b>Purpose of Meeting:</b>	Draft Plan Review Meeting – Morning Option	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	February 18, 2025 @ 10:00 A.M.	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Office of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> </ul> </li> <li>• <b>Seneca County Chamber of Commerce</b> <ul style="list-style-type: none"> <li>○ Jeff Shipley, President and CEO</li> </ul> </li> <li>• <b>Seneca County Highway Department</b> <ul style="list-style-type: none"> <li>○ Roy Gates, Superintendent of Highways</li> </ul> </li> <li>• <b>Seneca County Mental Health Services</b> <ul style="list-style-type: none"> <li>○ Margaret Morse, Director</li> </ul> </li> <li>• <b>Seneca County Soil and Water District</b> <ul style="list-style-type: none"> <li>○ Erin Peruzzini, District Manager</li> </ul> </li> <li>• <b>Cornell Cooperative Extension of Seneca County</b> <ul style="list-style-type: none"> <li>○ Ave Bauder, Executive Director</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>USACE</b> <ul style="list-style-type: none"> <li>○ Laura Ortiz, Project Manager</li> </ul> </li> <li>• <b>NYS DHSES</b> <ul style="list-style-type: none"> <li>○ John Wilkinson, Hazard Mitigation Unit</li> <li>○ Kevin Clapp, Hazard Mitigation Unit</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Jessica Stokes, Project Manager</li> <li>○ Emily Vassallo, Lead Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	The purpose of the meeting was to provide an update on the planning process and status update, provide an opportunity for the Steering Committee to comment on the draft 2025 Seneca County HMP framework, discuss the Plan Maintenance strategy for the 2025 HMP, review the FEMA Approval Process, discuss next steps, and address any questions or comments.	
Item No.	Description	Action item(s):
1	<b>Introductions</b>	-
2	<b>Project Status</b> <ul style="list-style-type: none"> <li>• In Kind Tracking</li> <li>• Public Outreach and Engagement <ul style="list-style-type: none"> <li>○ Post links on social media and department/agency websites</li> <li>○ Make efforts to reach out to: <ul style="list-style-type: none"> <li>▪ General Public</li> <li>▪ Stakeholders</li> <li>▪ Neighbors</li> <li>▪ Socially Vulnerable Populations</li> </ul> </li> </ul> </li> </ul>	<b>Planning Partnership</b> <ul style="list-style-type: none"> <li>• Post links on social media and department/agency websites</li> <li>• Make efforts to reach out to general public, stakeholders, neighbors, and socially vulnerable populations</li> </ul>
3	<b>HMP Draft Review</b> <ul style="list-style-type: none"> <li>• What's New in the 2025 Update?</li> <li>• New FEMA requirements</li> <li>• Updated critical facilities inventory and included community lifelines</li> <li>• Incorporated new hazards of concern and performed new risk analysis</li> <li>• Enhanced the capability assessment for each participating jurisdiction</li> </ul>	-
4	<b>2025 HMP Framework</b> <ul style="list-style-type: none"> <li>• Volume I <ul style="list-style-type: none"> <li>○ Executive Summary <ul style="list-style-type: none"> <li>▪ Provides an overview of how the plan is laid out by describing the various chapters within the plan</li> </ul> </li> <li>○ Chapter 1 Introduction <ul style="list-style-type: none"> <li>▪ This is the introduction of the HMP, explains the update process, who participated, and what changes have been made since the last plan.</li> </ul> </li> </ul> </li> </ul>	-





	<ul style="list-style-type: none"> <li>○ Chapter 2 Planning Process <ul style="list-style-type: none"> <li>▪ Provides a timeline of how the planning process was done and everything that went into developing the plan. It includes meeting dates, activities, and plan participants.</li> </ul> </li> <li>○ Chapter 3 County Profile <ul style="list-style-type: none"> <li>▪ Provides general information for the Planning Area and critical facilities/lifelines located within the area.</li> </ul> </li> <li>○ Chapter 4 Risk Assessment <ul style="list-style-type: none"> <li>▪ Provides a foundation for the rest of the planning process – which focuses on identifying and prioritizing actions to reduce risk to hazards.</li> </ul> </li> <li>○ Chapter 5 Hazard of Concern identification <ul style="list-style-type: none"> <li>▪ Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area</li> </ul> </li> <li>○ Chapters 6 through 13 Hazard Profiles <ul style="list-style-type: none"> <li>▪ Documents the general description of the hazard and the outcome of the risk analysis. It is broken down into 2 sections – hazard profile and vulnerability assessment</li> </ul> </li> <li>○ Chapter 14 Hazard Ranking <ul style="list-style-type: none"> <li>▪ Provides information on the methodology used to determine the preliminary hazard rankings</li> </ul> </li> <li>○ Chapter 15 Capability Assessment <ul style="list-style-type: none"> <li>▪ Identifies the primary types of capabilities – planning and regulatory, administrative, and technical, financial, and education and outreach –existing plans, policies, programs, etc. available at the county, state, and federal level to help the County and municipalities accomplish mitigation.</li> </ul> </li> <li>○ Chapter 16 Mitigation Strategy <ul style="list-style-type: none"> <li>▪ Gives an overview of the process and then in each annex, we show the projects and procedures you all will do to reduce or eliminate future losses from hazards.</li> </ul> </li> <li>○ Chapter 17 Plan Maintenance <ul style="list-style-type: none"> <li>▪ Describes how the County will keep the hazard mitigation plan up to date over the next five years.</li> </ul> </li> <li>• Volume II <ul style="list-style-type: none"> <li>○ Chapter 1 Planning Partnership <ul style="list-style-type: none"> <li>▪ Gives an overview of how each jurisdiction participated in the plan and how the annexes are laid out.</li> </ul> </li> <li>○ Chapters 2 through 15 Jurisdictional Annexes <ul style="list-style-type: none"> <li>▪ Where the individual jurisdictional annexes of the plan are located. It shows us who participated in the plan, gives a general description of the municipality, outlines and summarizes your capabilities at the local level, provides the jurisdictional hazard ranking, includes a status of mitigation actions from 2020 and then includes mitigation actions for the 2025 HMP.</li> </ul> </li> </ul> </li> <li>• Appendices: This is where you'll find a draft adoption/resolution for when you need to adopt the plan, tables of who participated in the process and how; meeting documentation (minutes, presentations, etc.), public and stakeholder outreach; mitigation strategy data; plan maintenance tools; critical facilities</li> </ul>	
--	---	--



TETRA TECH



# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

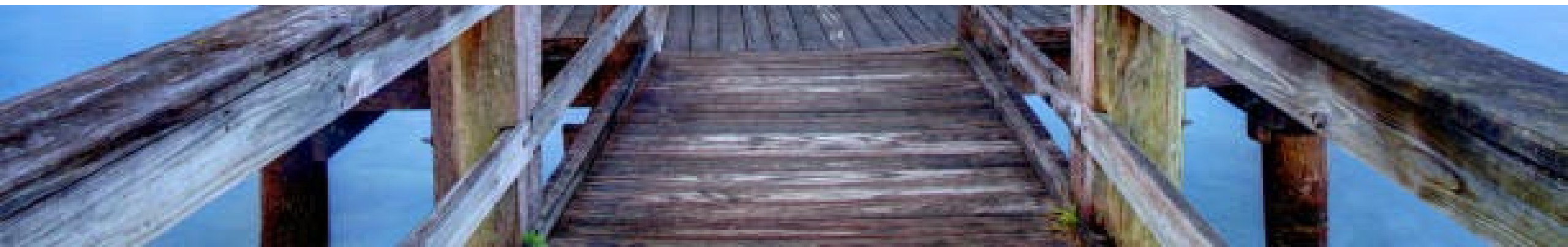
**Draft Plan Review Meeting**

February 18, 2025

While waiting for the meeting to start, please enter your name, title, and affiliation in the chat!



# Today's Agenda

1. Welcome and Introductions
  2. Public and Stakeholder Outreach
  3. HMP Draft Review
    - What's New?
    - 2025 Framework
    - Review Process
  4. Next Steps
  5. Questions/Wrap Up
- 





# Public Outreach and Engagement

- Public Outreach Toolkit –
  - Social media templates and posts
  - Printable materials
- Surveys
  - Input on draft plan
- HMP website  
<https://www.senecacountynyhmp.com/>
- Make efforts to reach out to:
  - General Public
  - Stakeholders
  - Neighbors
  - Socially Vulnerable Populations





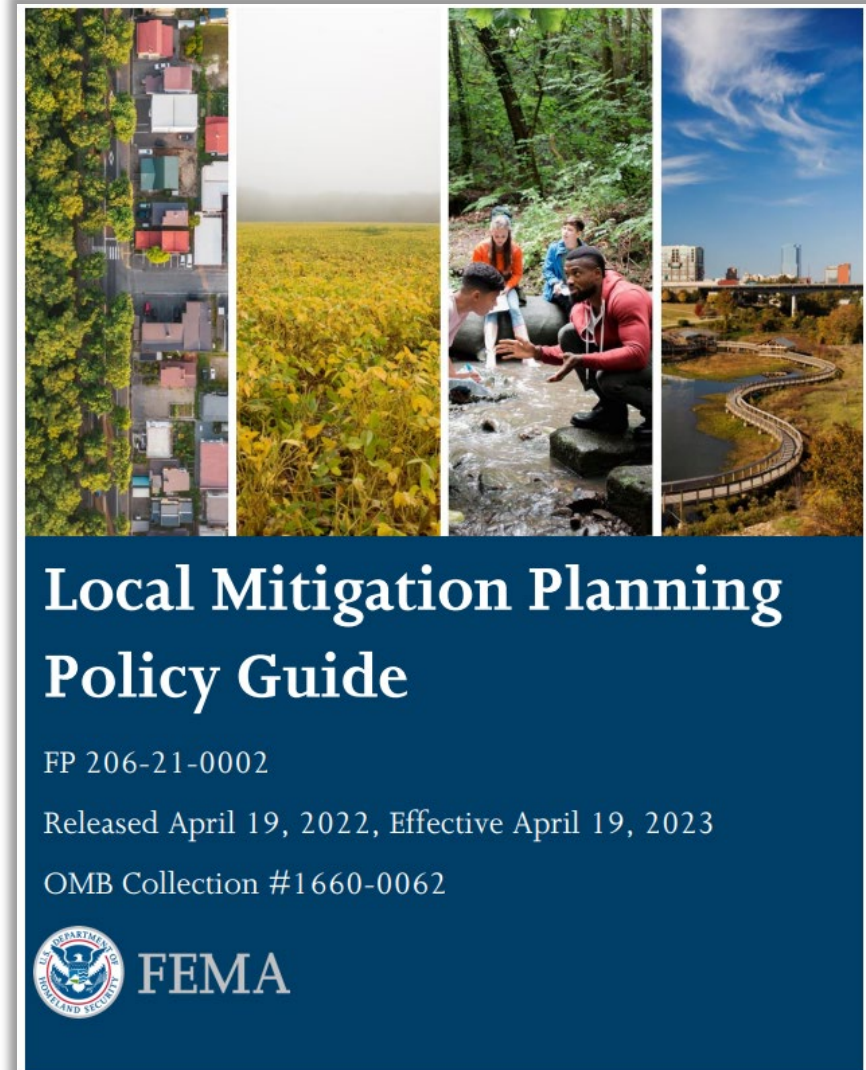
# HMP Draft Review



# What's New in the 2025 Update?



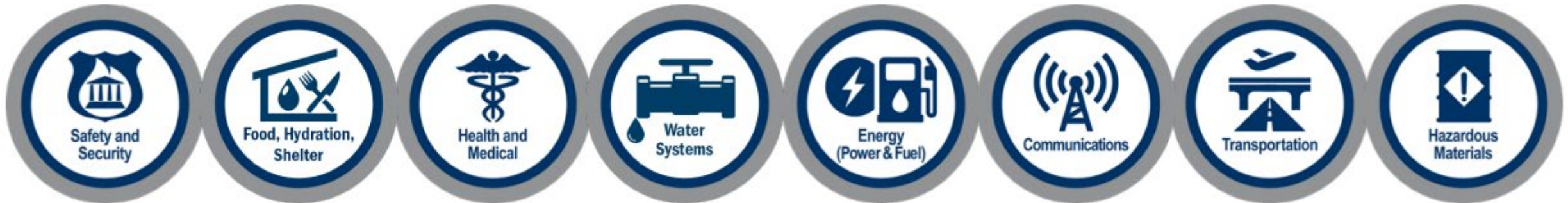
- New FEMA requirements
  - Participation – engaged and actively participating throughout the process
  - Stakeholder involvement
  - Community lifelines
  - Socially vulnerable populations
  - Effects of future conditions (i.e., climate change) on hazards
  - Current and future capabilities integrating hazard mitigation
  - One mitigation action per hazard





# What's New in the 2025 Update?

- **Critical facilities reorganized as Lifeline facilities –**
  - This includes – airports, bridges, cell towers, correctional facilities, dams, schools/daycares, EMS, fire, hazmat, hospitals/health care, police, utilities, tornado sirens, wastewater
  - Inventory has been updated





# What's New in the 2025 Update?

- **Hazards of Concern –**

- Incorporated new hazards, and concise hazard profiles, including recent events
- Risk assessments for each hazard
- Climate change impacts incorporated into the probability of future occurrences
- Adaptive capacity to reduce vulnerability used in hazard ranking
- Impacts on population (general and socially vulnerable), buildings, lifelines, and economy



# What's New in the 2025 Update?

- **Jurisdictional Annexes**

- Enhanced capability assessment including how hazard mitigation is integrated
- One mitigation action for every hazard of concern



# 2025 HMP Framework

## Volume I

- Executive Summary
- Chapter 1. Introduction
- Chapter 2. Planning Process
- Chapter 3. County Profile
- Chapter 4. Risk Assessment  
Methodology
- Chapter 5. Hazards of Concern ID
- Chapters 6-13. Hazard Profiles
  - Dam Failure, Drought, Earthquake, Extreme Temperature, Flood, Landslide, Severe Storm, Severe Winter Storm
- Chapter 14. Hazard Ranking
- Chapter 15. Capability Assessment
- Chapter 16. Mitigation Strategy
- Chapter 17. Plan Maintenance







# 2025 HMP Framework

## Volume II

- Chapter 1. Introduction
- Chapters 2-16. Jurisdictional Annexes

## Appendices

- Appendix A. Adoptions
- Appendix B. Meeting Documentation
- Appendix C. Outreach
- Appendix D. Participation
- Appendix E. Action Worksheet
- Appendix F. Plan Maintenance
- Appendix G. Critical Facilities
- Appendix H. Risk Assessment Supplement
- Appendix I: Mitigation Strategy Supplement
- Appendix J: NYS DHSES Guidance
- Appendix K: Linkage Procedures

# Volume I

## Executive Summary



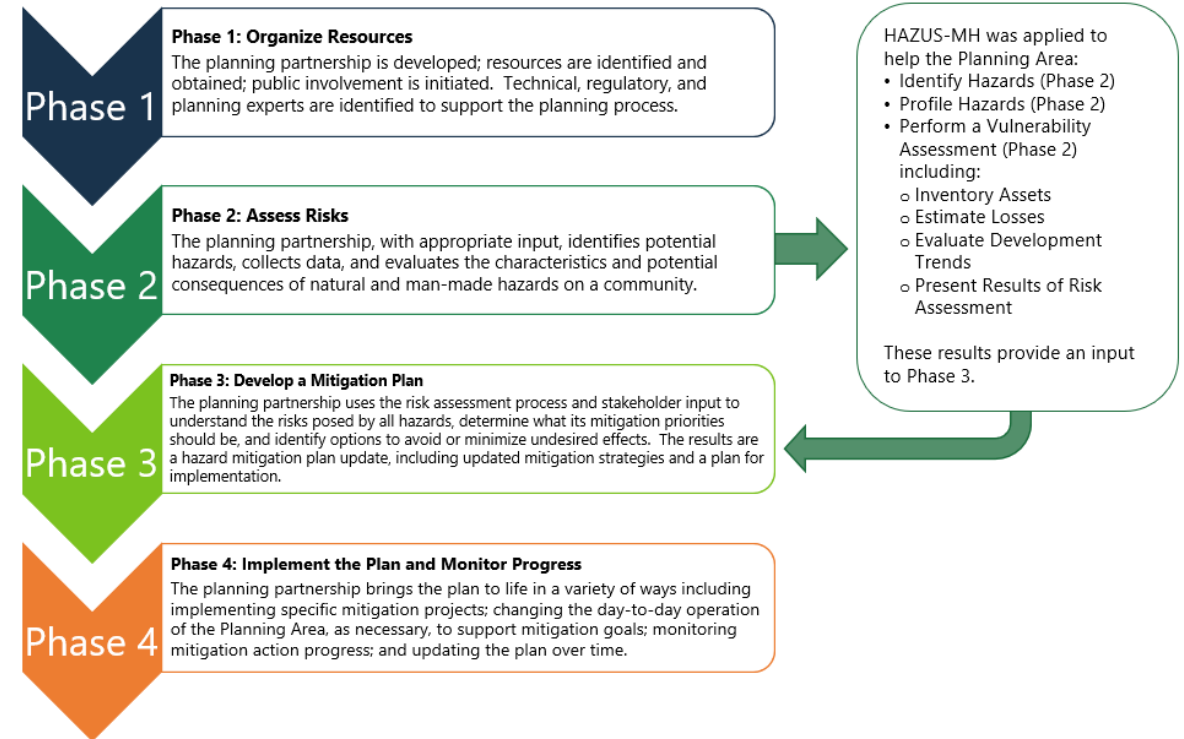
- Provides an overview of how the plan is laid out by describing the various chapters within the plan
  - Light summaries of key components of the HMP
    - Hazard Mitigation Overview
    - Planning Process
    - Involvement by Stakeholders and the Public
    - Risk Assessment for Local Hazards of Concern
    - Capability Assessment and Plan Integration
    - Mitigation Strategy



# Volume I

## 1. Introduction

- Plan Purpose
- Background of the plan
- Plan Organization
- Planning Differences – 2018 HMP vs. 2025 HMP



# Volume I

## 2. Planning Process

- Introduction
- Organization of the Planning Process
  - Organization of the Planning Partnership
  - Planning Activities
- Stakeholder Outreach and Involvement
  - Federal, State, and County Agencies
  - Regional and Local Stakeholders
  - Stakeholder and Neighbor Survey Summaries
- Public Participation – Public Involvement
  - Public Survey Summary
- Plan Integration
- Integration with Planning Mechanisms and Programs
- Continued Public Involvement



### 2.2.2 Planning Activities

Members of the Planning Partnership (individually and as a whole), as well as key stakeholders, met and communicated as needed to share information. This included workshops to identify hazards, assess risks, update inventories of critical facilities, and assist in updating mitigation goals and strategies. All members of the Planning Partnership had the opportunity to review the draft plan, supported interaction with other stakeholders, and assisted with public involvement efforts. These activities provided continuity through the process to ensure that natural hazard vulnerability information and appropriate mitigation strategies were incorporated.

Table 2-3 summarizes meetings and other planning activities conducted during the development of the plan. It also identifies which DMA 2000 requirements each activity satisfies. Documentation of meetings (agendas, sign-in sheets, minutes, etc.) may be found in Appendix C (Public and Stakeholder Outreach). Table 2-3 identifies only formal meetings and milestone events in the plan update process. In addition to these meetings, there was a great deal of communication between Planning Partnership members and the consultant through individual local meetings, phone, and email.

Table 2-3. Summary of Mitigation Planning Activities/Efforts

Date	DMA 2000 Requirement	Description of Activity
September 6, 2023	2	Project Start Up Meeting - proposed plan work in progress
September		
October 11, 2023		
October 2023	2	
December 15, 2023	2, 3c	
November 2, 2023	1b, 2, 3a, 3b, 3c, 4a, 5c	

### 2. Planning Process

#### 2. PLANNING PROCESS

This chapter describes the planning process used to update the Seneca County HMP, including how it was prepared, who was involved in the process, and how the public was involved. The planning approach aimed to achieve the following results:

- The plan will be multi-jurisdictional. Seneca County invited all jurisdictions in the County to join in the planning process. To date, 14 local municipal governments in the County (the Planning Partnership) participated along with Seneca County in the 2025 HMP update process:
  - Town of Covert
  - Town of Fayette
  - Village of Interlaken
  - Town of Junius
  - Town of Lodi
  - Village of Lodi
  - Town of Ovid
  - Village of Ovid
  - Town of Romulus
  - Town of Seneca Falls
  - Town of Tyre
  - Town of Varick
  - Town of Waterloo
  - Village of Waterloo

- The format of this plan is such that other entities can readily join at a later date as part of the regulatory 5-year plan update process.

- The plan considers all natural hazards that pose a risk to the area.
- The plan was developed following the process outlined by FEMA regulations and prevailing FEMA and NYS DHSES guidance. In addition, this plan will meet criteria for the Flood Mitigation Assistance (FMA) program.

A multi-jurisdictional planning grant under the Hazard Mitigation Grant Program (HMGP) (4567-0019) supported the development of this HMP. Grant administration was the responsibility of the Seneca County Department of Public Safety Emergency Management Office.

# Volume I

## 3. County Profile



- General Information
- Major Past Hazard Events
- Physical Setting
  - Location
  - Hydrography and Hydrology
  - Topography and Geography
  - Climate
  - Land Use and Land Cover
- Population and Demographics
  - General Population Characteristics
  - Vulnerable Populations
  - Population Trends
- General Building Stock
  - Development Trends and New Development
- Lifeline Facilities
  - Formerly discussed as Critical Facilities





# Volume I

## 4. Risk Assessment Methodology



- Describes the various procedures and tools used to complete the risk assessment
- Steps to do so included:
  - Identifying and profiling each hazard of concern
  - Determine exposure to each hazard
  - Assess the vulnerability of exposed population/buildings/economy



## 5. Hazard of Concern Identification



- Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area
  - Input from all participating jurisdictions
  - Review of the review of the New York State Hazard Mitigation Plan
  - Review of the 2018 Seneca County HMP
  - Research on the frequency, magnitude, and costs associated with hazards that have previously or could feasibly impact the region
  - Qualitative information regarding natural (not human-caused) hazards and the perceived vulnerability of the study area's assets to them.

# Volume I

## 6 - 13. Hazard Profiles



- Created individual chapters for each hazard of concern.
- Each chapter includes:
  - Hazard Profile – description, location, extent, worst-case scenario, previous occurrences, climate change projections, and probability of future events
  - Vulnerability Assessment – impact on life/health/safety, impact on building stock and critical facilities, impact on economy, future changes that may impact vulnerability, impacts to natural, historical, and cultural resources, and changes in vulnerability since the last plan

# Volume I

## 14. Hazard Ranking



- Provides a preliminary ranking (high, medium, low) of each hazard to show the Planning Area's hazards of greatest risk
- Provides information on the methodology used to determine the preliminary hazard rankings

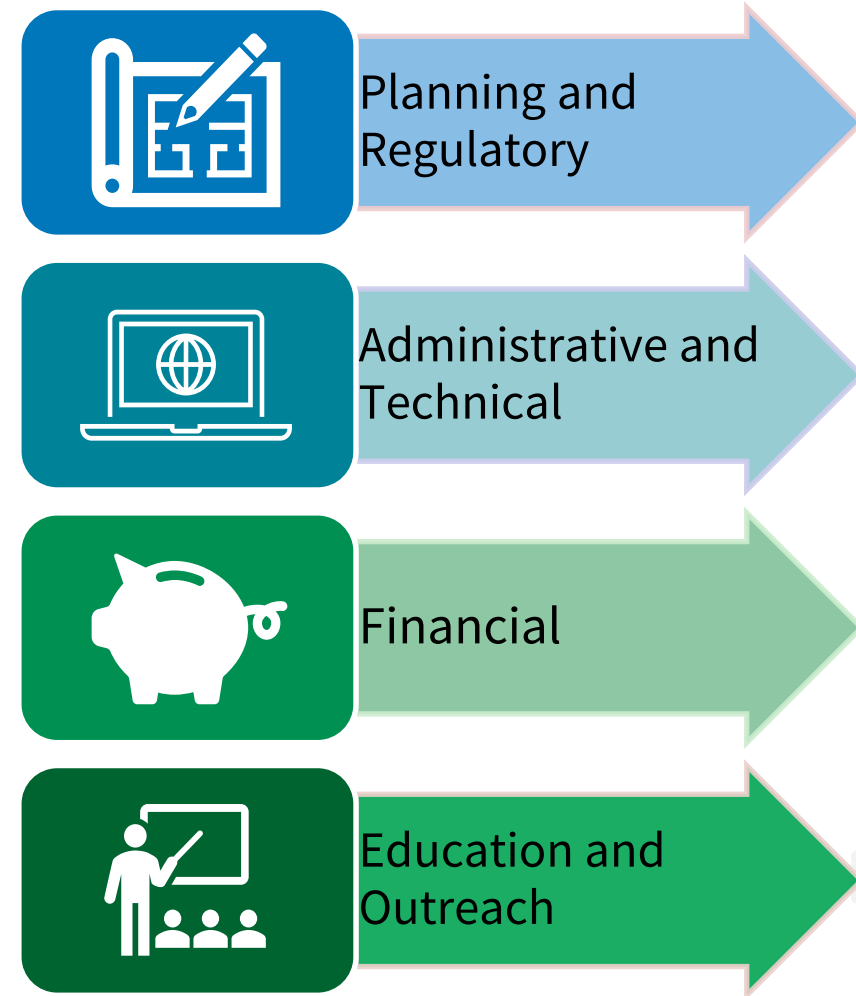




# Volume I

## 15. Capability Assessment

- What is currently available at the federal, state, and county level to support mitigation in Seneca County
  - Available plans, programs, & resources
  - Administrative and technical capabilities
  - Fiscal capabilities
  - Education and outreach





# Volume I

## 16. Mitigation Strategy



- Past accomplishments
- Goals and Objectives
- Mitigation strategy development and update
  - Action identification
  - Evaluation and prioritization
  - Benefit/cost review

Goal 1	Protect life, property, and the environment from current and future impacts.
Goal 2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
Goal 3	Increase public preparedness and awareness of natural hazards.
Goal 4	Enhance mitigation capabilities to reduce hazard vulnerabilities.
Goal 5	Support continuity of operations before, during, and after hazard events.
Goal 6	Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
Goal 7	Address long-term vulnerabilities from high hazard dams.

# Volume I

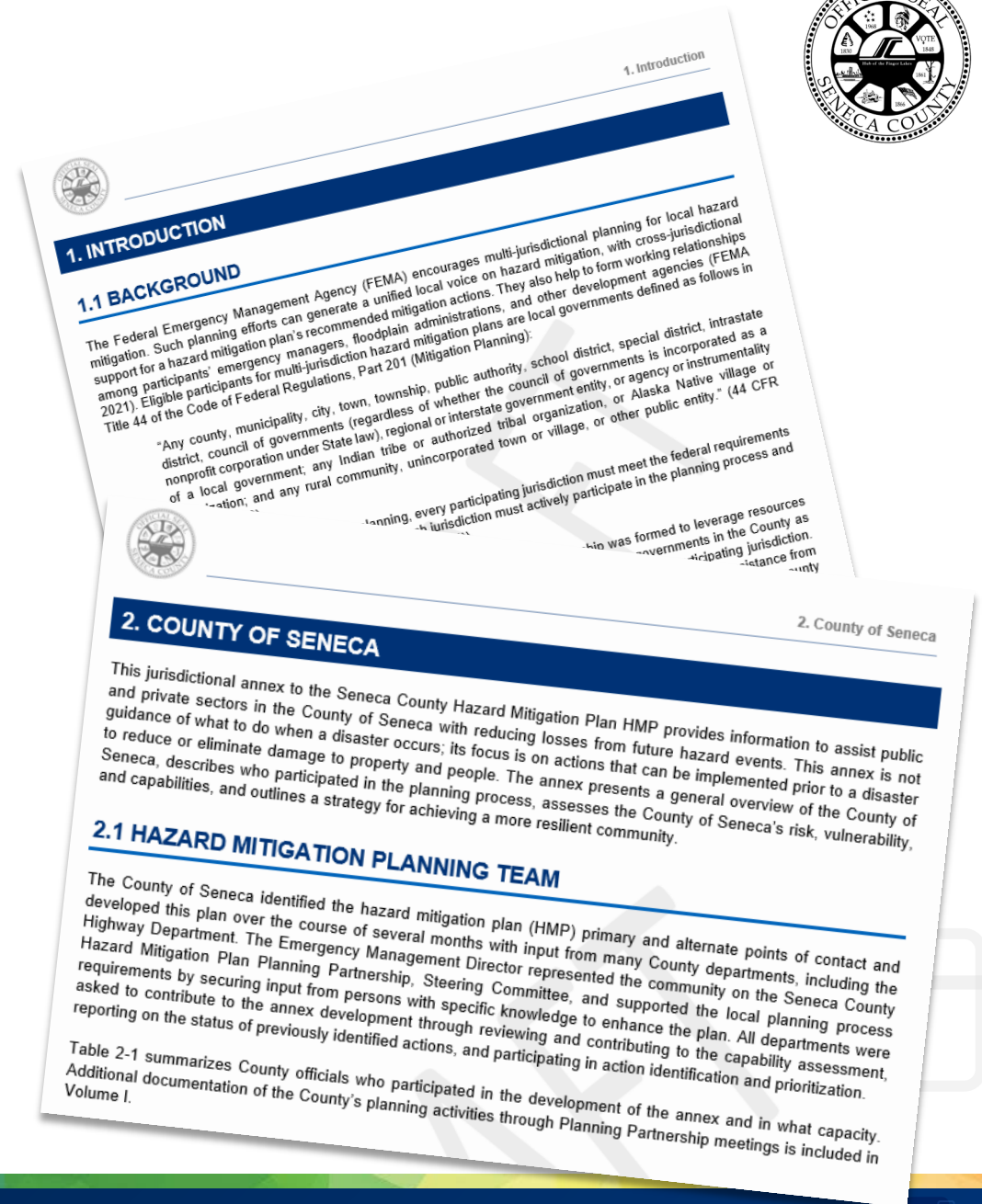
## 17. Plan Maintenance

- Ongoing Planning Partnership – meet annually to discuss HMP
- Monitoring
- Continuous evaluation and progress reports
- Updating
- Integrating the HMP with existing and future programs
- Continued public involvement



# Volume II

- **Chapter 1 – Introduction**
  - Participating jurisdictions
  - Introduction to jurisdictional annexes
- **Chapters 2-16 – Jurisdictional Annexes**
  - Points of Contact and Who Participated
  - Jurisdictional Profile
  - Capabilities
  - Risk Assessment
  - Status of Past Mitigation Actions
  - Current Mitigation Actions



# Appendices



- Appendix A. Adoptions
- Appendix B. Meeting Documentation
- Appendix C. Outreach
- Appendix D. Participation
- Appendix E. Action Worksheet
- Appendix F. Plan Maintenance
- Appendix G. Critical Facilities
- Appendix H. Risk Assessment Supplement
- Appendix I: Mitigation Strategy Supplement
- Appendix J: NYS DHSES Guidance
- Appendix K: Linkage Procedures



# FEMA Approval Process

- The plan is made available for public review.
- NYSDHSES is reviewing the plan concurrently with the public review period.
- The second draft will be submitted to FEMA for review and approval
  - Once approved, FEMA will grant the plan 'Approvable Pending Adoption' status, meaning FEMA will approve the plan once it has been locally adopted.
- The County and municipalities will formally adopt the plan.
  - Resolution is submitted to FEMA and FEMA grants final approval.







# Review the Draft Plan

- The entire plan will be posted on the Seneca County HMP website for a 30-day review period (starting today, February 18)
  - Review the plan during the public review, and we will incorporate any applicable revisions into the final deliverable to the State and FEMA
- NYSDHSES will conduct their review concurrently with the public review period
- Public feedback to be incorporated as appropriate prior to submittal to FEMA for their review
  - If needed, we will hold a brief meeting to discuss public comments and how to incorporate – date TBD



# Next Steps

- Draft Plan Review Meeting – TODAY!
- Public Review Period (30 days) – February 18 through March 19
- NYSDHSES Review is occurring in tandem with the Public Review Period
- Submit Draft Plan for FEMA Review by end of March; begin adoption
- FEMA approves plan (mid-June); continue adoption
- Implement Projects and Maintain the Plan ➡ Increase Resilience!




# Questions?

## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Manager

Jessica Stokes, MSEM, NJCEM  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



Thank  
You!



**SENECA COUNTY HAZARD MITIGATION PLAN UPDATE  
Draft Plan Review Meeting, Evening Option – AGENDA  
MEETING DATE/TIME: February 18, 2025 @ 6:00PM**



**Virtual Meeting**

**Dial-In Phone Number: +1 213-357-2812; Conference ID: 758 950 702#**

**Join by Meeting: <https://msteams.link/B03O>**

- 1. Opening Remarks**
- 2. Project Status** - where we are in the process, public outreach
- 3. Public and Stakeholder Engagement**
- 4. HMP Draft Review**
  - **What's New?**
  - **2025 Framework**
  - **Review Process**
- 5. Next Steps**
- 6. Questions/Wrap Up**

**Seneca County Project Contact**

Melissa Taylor, Director  
Seneca County Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

**Tetra Tech Project Contact**

Jessica Stokes, MSEM, NJCEM  
Tetra Tech, Inc.  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



**Seneca County, NY – Hazard Mitigation Plan 2025 Update**  
**Draft Plan Review Meeting | Meeting Minutes**



<b>Purpose of Meeting:</b>	Draft Plan Review Meeting – Evening Option	
<b>Location of Meeting:</b>	Teleconference	
<b>Date of Meeting:</b>	February 18, 2025 @ 6:00 P.M.	
<b>Attendees:</b>	<ul style="list-style-type: none"> <li>• <b>Seneca County Office of Emergency Management</b> <ul style="list-style-type: none"> <li>○ Melissa Taylor, Director</li> <li>○ Toni DiGiovanni, Deputy Director</li> </ul> </li> <li>• <b>Seneca County Fire</b> <ul style="list-style-type: none"> <li>○ Jeffrey Case, Coordinator</li> </ul> </li> <li>• <b>Seneca County Code Enforcement</b> <ul style="list-style-type: none"> <li>○ Lee Earp, Director</li> </ul> </li> <li>• <b>Seneca County Board of Supervisors</b> <ul style="list-style-type: none"> <li>○ Michael Enslow, Chairman</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Ovid (T)</b> <ul style="list-style-type: none"> <li>○ Joe Borst, Supervisor</li> </ul> </li> <li>• <b>Seneca Falls (T)</b> <ul style="list-style-type: none"> <li>○ Frank Schmitter, Supervisor</li> </ul> </li> <li>• <b>Waterloo (V)</b> <ul style="list-style-type: none"> <li>○ Don Northrup, Administrator</li> </ul> </li> <li>• <b>Tetra Tech</b> <ul style="list-style-type: none"> <li>○ Jessica Stokes, Project Manager</li> <li>○ Emily Vassallo, Lead Planner</li> </ul> </li> </ul>
<b>Agenda Summary:</b>	The purpose of the meeting was to provide an update on the planning process and status update, provide an opportunity for the Steering Committee to comment on the draft 2025 Seneca County HMP framework, discuss the Plan Maintenance strategy for the 2025 HMP, review the FEMA Approval Process, discuss next steps, and address any questions or comments.	
Item No.	Description	Action item(s):
1	<b>Introductions</b>	-
2	<b>Project Status</b> <ul style="list-style-type: none"> <li>• In Kind Tracking</li> <li>• Public Outreach and Engagement <ul style="list-style-type: none"> <li>○ Post links on social media and department/agency websites</li> <li>○ Make efforts to reach out to: <ul style="list-style-type: none"> <li>▪ General Public</li> <li>▪ Stakeholders</li> <li>▪ Neighbors</li> <li>▪ Socially Vulnerable Populations</li> </ul> </li> </ul> </li> </ul>	<b>Planning Partnership</b> <ul style="list-style-type: none"> <li>• Post links on social media and department/agency websites</li> <li>• Make efforts to reach out to general public, stakeholders, neighbors, and socially vulnerable populations</li> </ul>
3	<b>HMP Draft Review</b> <ul style="list-style-type: none"> <li>• What's New in the 2025 Update?</li> <li>• New FEMA requirements</li> <li>• Updated critical facilities inventory and included community lifelines</li> <li>• Incorporated new hazards of concern and performed new risk analysis</li> <li>• Enhanced the capability assessment for each participating jurisdiction</li> </ul>	-
4	<b>2025 HMP Framework</b> <ul style="list-style-type: none"> <li>• Volume I <ul style="list-style-type: none"> <li>○ Executive Summary <ul style="list-style-type: none"> <li>▪ Provides an overview of how the plan is laid out by describing the various chapters within the plan</li> </ul> </li> <li>○ Chapter 1 Introduction <ul style="list-style-type: none"> <li>▪ This is the introduction of the HMP, explains the update process, who participated, and what changes have been made since the last plan.</li> </ul> </li> <li>○ Chapter 2 Planning Process <ul style="list-style-type: none"> <li>▪ Provides a timeline of how the planning process was done and everything that went into developing the plan. It includes meeting dates, activities, and plan participants.</li> </ul> </li> </ul> </li> </ul>	-



	<ul style="list-style-type: none"> <li>○ Chapter 3 County Profile <ul style="list-style-type: none"> <li>▪ Provides general information for the Planning Area and critical facilities/lifelines located within the area.</li> </ul> </li> <li>○ Chapter 4 Risk Assessment <ul style="list-style-type: none"> <li>▪ Provides a foundation for the rest of the planning process – which focuses on identifying and prioritizing actions to reduce risk to hazards.</li> </ul> </li> <li>○ Chapter 5 Hazard of Concern identification <ul style="list-style-type: none"> <li>▪ Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area</li> </ul> </li> <li>○ Chapters 6 through 13 Hazard Profiles <ul style="list-style-type: none"> <li>▪ Documents the general description of the hazard and the outcome of the risk analysis. It is broken down into 2 sections – hazard profile and vulnerability assessment</li> </ul> </li> <li>○ Chapter 14 Hazard Ranking <ul style="list-style-type: none"> <li>▪ Provides information on the methodology used to determine the preliminary hazard rankings</li> </ul> </li> <li>○ Chapter 15 Capability Assessment <ul style="list-style-type: none"> <li>▪ Identifies the primary types of capabilities – planning and regulatory, administrative, and technical, financial, and education and outreach –existing plans, policies, programs, etc. available at the county, state, and federal level to help the County and municipalities accomplish mitigation.</li> </ul> </li> <li>○ Chapter 16 Mitigation Strategy <ul style="list-style-type: none"> <li>▪ Gives an overview of the process and then in each annex, we show the projects and procedures you all will do to reduce or eliminate future losses from hazards.</li> </ul> </li> <li>○ Chapter 17 Plan Maintenance <ul style="list-style-type: none"> <li>▪ Describes how the County will keep the hazard mitigation plan up to date over the next five years.</li> </ul> </li> <li>• Volume II <ul style="list-style-type: none"> <li>○ Chapter 1 Planning Partnership <ul style="list-style-type: none"> <li>▪ Gives an overview of how each jurisdiction participated in the plan and how the annexes are laid out.</li> </ul> </li> <li>○ Chapters 2 through 15 Jurisdictional Annexes <ul style="list-style-type: none"> <li>▪ Where the individual jurisdictional annexes of the plan are located. It shows us who participated in the plan, gives a general description of the municipality, outlines and summarizes your capabilities at the local level, provides the jurisdictional hazard ranking, includes a status of mitigation actions from 2020 and then includes mitigation actions for the 2025 HMP.</li> </ul> </li> </ul> </li> <li>• Appendices: This is where you'll find a draft adoption/resolution for when you need to adopt the plan, tables of who participated in the process and how; meeting documentation (minutes, presentations, etc.), public and stakeholder outreach; mitigation strategy data; plan maintenance tools; critical facilities (the list of facilities will not be posted for public review due to their sensitive nature); and linkage procedures for anyone who didn't</li> </ul>	
--	--	--

**Seneca County, NY – Hazard Mitigation Plan 2025 Update**  
**Draft Plan Review Meeting | Meeting Minutes**



	<p>participate this time around and would like to join the plan in the next 5 years.</p> <ul style="list-style-type: none"> <li>○ Appendix A. Adoptions</li> <li>○ Appendix B. Meeting Documentation</li> <li>○ Appendix C. Outreach</li> <li>○ Appendix D. Participation</li> <li>○ Appendix E. Action Worksheet</li> <li>○ Appendix F. Plan Maintenance</li> <li>○ Appendix G. Critical Facilities</li> <li>○ Appendix H. Risk Assessment Supplement</li> <li>○ Appendix I: Mitigation Strategy Supplement</li> <li>○ Appendix J: NYS DHSES Guidance</li> <li>○ Appendix K: Linkage Procedures</li> </ul>	
5	<p><b>FEMA Approval Process</b></p> <ul style="list-style-type: none"> <li>• The plan is made available for public and State review. <ul style="list-style-type: none"> <li>○ Feedback and comments will be incorporated into a second draft.</li> </ul> </li> <li>• The second draft will be submitted to FEMA for review and approval. <ul style="list-style-type: none"> <li>○ If FEMA has questions or comments those will be addressed.</li> <li>○ FEMA will grant the plan 'Approvable Pending Adoption' status, meaning FEMA will approve the plan once it has been locally adopted.</li> </ul> </li> <li>• The County and municipalities will formally adopt the plan. <ul style="list-style-type: none"> <li>○ Resolution is submitted to FEMA and FEMA grants final approval.</li> </ul> </li> </ul>	-
6	<p><b>Review the Draft Plan</b></p> <ul style="list-style-type: none"> <li>• The entire plan will be posted on the Seneca County HMP website for a 30-day review period (starting today, February 18!) <ul style="list-style-type: none"> <li>○ <a href="https://www.senecacountynyhmp.com/draft-plan/">https://www.senecacountynyhmp.com/draft-plan/</a></li> <li>○ You can review the plan during the public review, and we will incorporate any applicable revisions into the final deliverable to the State and FEMA</li> </ul> </li> <li>• NYSDHSES will conduct their review concurrently with the public review period</li> <li>• Public feedback to be incorporated as appropriate prior to submittal to FEMA for their review</li> <li>• If needed, we will hold a brief meeting to discuss public comments and how to incorporate – date TBD</li> </ul>	-
7	<p><b>Next Steps</b></p> <ul style="list-style-type: none"> <li>• Draft Plan Review Meeting – TODAY!</li> <li>• Public Review Period (30 days) – February 18, 2025 through March 19, 2025</li> <li>• NYSDHSES Review occurring in tandem with Public Review</li> <li>• Submit Draft Plan for FEMA Review by late March</li> <li>• FEMA approves plan (mid-June); begin adoption</li> </ul>	-
8	<p><b>Questions/Discussion</b></p> <ul style="list-style-type: none"> <li>• No Questions/Comments</li> </ul>	-



# Seneca County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

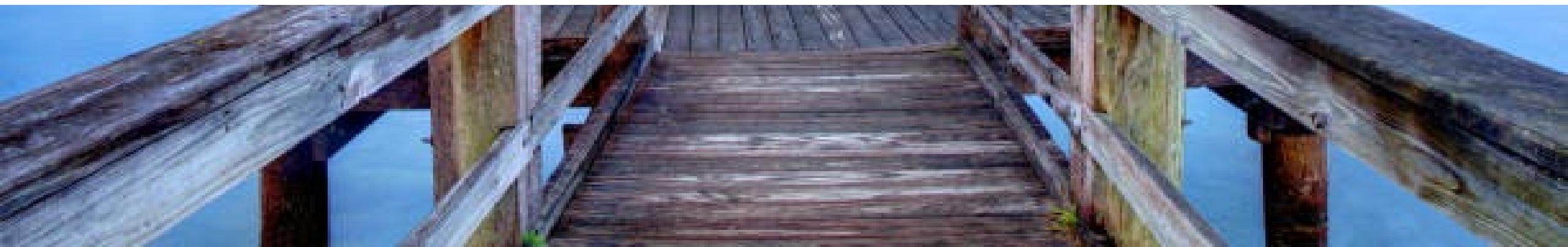
**Draft Plan Review Meeting**

February 18, 2025

While waiting for the meeting to start, please enter your name, title, and affiliation in the chat!



# Today's Agenda

1. Welcome and Introductions
  2. Public and Stakeholder Outreach
  3. HMP Draft Review
    - What's New?
    - 2025 Framework
    - Review Process
  4. Next Steps
  5. Questions/Wrap Up
- 





# Public Outreach and Engagement

- Public Outreach Toolkit –
  - Social media templates and posts
  - Printable materials
- Surveys
  - Input on draft plan
- HMP website  
<https://www.senecacountynyhmp.com/>
- Make efforts to reach out to:
  - General Public
  - Stakeholders
  - Neighbors
  - Socially Vulnerable Populations





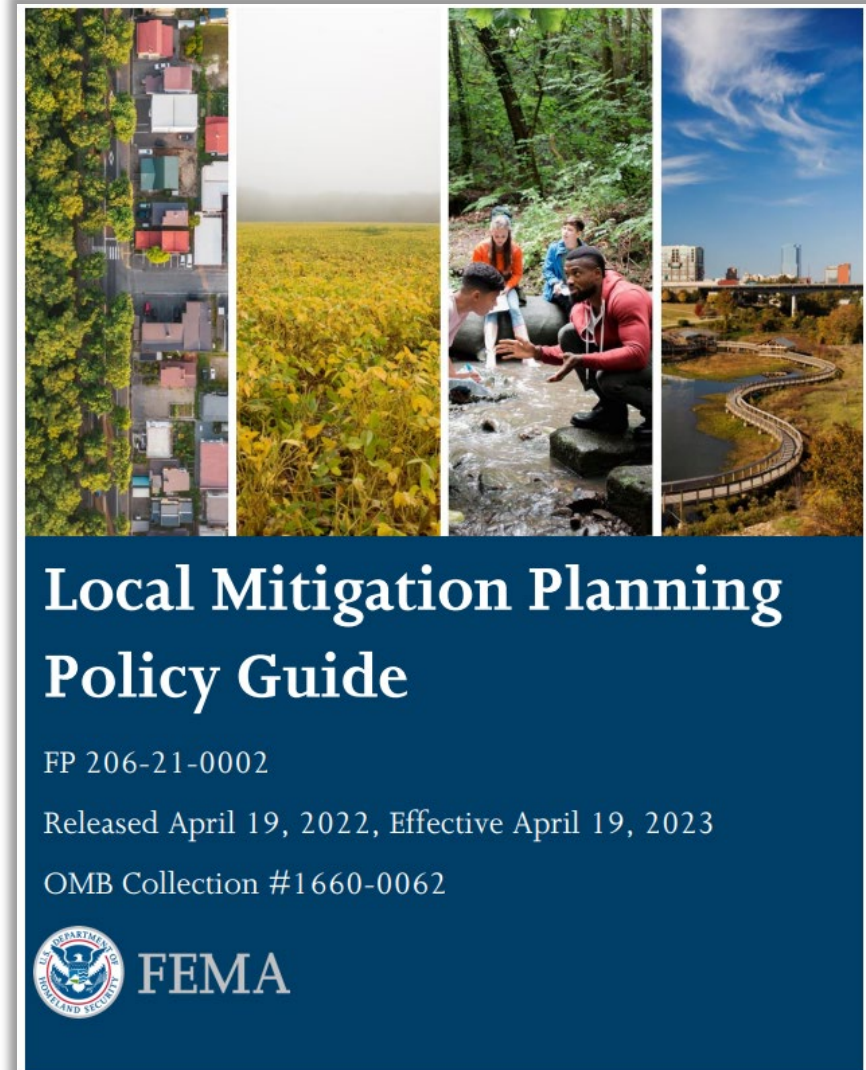
# HMP Draft Review



# What's New in the 2025 Update?



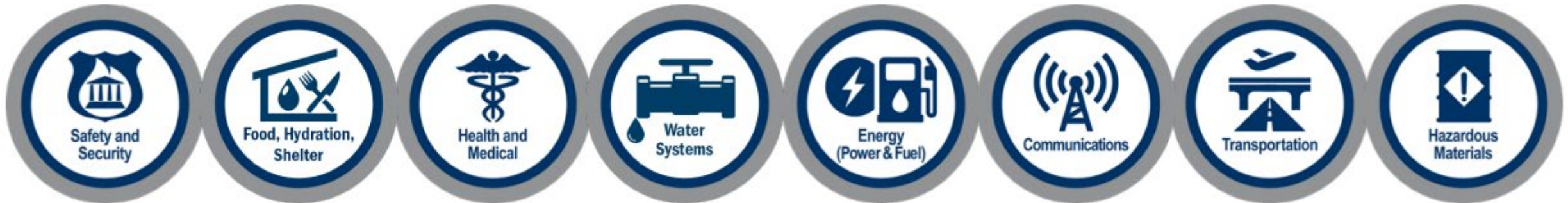
- New FEMA requirements
  - Participation – engaged and actively participating throughout the process
  - Stakeholder involvement
  - Community lifelines
  - Socially vulnerable populations
  - Effects of future conditions (i.e., climate change) on hazards
  - Current and future capabilities integrating hazard mitigation
  - One mitigation action per hazard





# What's New in the 2025 Update?

- **Critical facilities reorganized as Lifeline facilities –**
  - This includes – airports, bridges, cell towers, correctional facilities, dams, schools/daycares, EMS, fire, hazmat, hospitals/health care, police, utilities, tornado sirens, wastewater
  - Inventory has been updated





# What's New in the 2025 Update?

- **Hazards of Concern –**

- Incorporated new hazards, and concise hazard profiles, including recent events
- Risk assessments for each hazard
- Climate change impacts incorporated into the probability of future occurrences
- Adaptive capacity to reduce vulnerability used in hazard ranking
- Impacts on population (general and socially vulnerable), buildings, lifelines, and economy





# What's New in the 2025 Update?

- **Jurisdictional Annexes**

- Enhanced capability assessment including how hazard mitigation is integrated
- One mitigation action for every hazard of concern



# 2025 HMP Framework

## Volume I

- Executive Summary
- Chapter 1. Introduction
- Chapter 2. Planning Process
- Chapter 3. County Profile
- Chapter 4. Risk Assessment Methodology
- Chapter 5. Hazards of Concern ID
- Chapters 6-13. Hazard Profiles
  - Dam Failure, Drought, Earthquake, Extreme Temperature, Flood, Landslide, Severe Storm, Severe Winter Storm
- Chapter 14. Hazard Ranking
- Chapter 15. Capability Assessment
- Chapter 16. Mitigation Strategy
- Chapter 17. Plan Maintenance





# 2025 HMP Framework

## Volume II

- Chapter 1. Introduction
- Chapters 2-16. Jurisdictional Annexes

## Appendices

- Appendix A. Adoptions
- Appendix B. Meeting Documentation
- Appendix C. Outreach
- Appendix D. Participation
- Appendix E. Action Worksheet
- Appendix F. Plan Maintenance
- Appendix G. Critical Facilities
- Appendix H. Risk Assessment Supplement
- Appendix I: Mitigation Strategy Supplement
- Appendix J: NYS DHSES Guidance
- Appendix K: Linkage Procedures

# Volume I

## Executive Summary



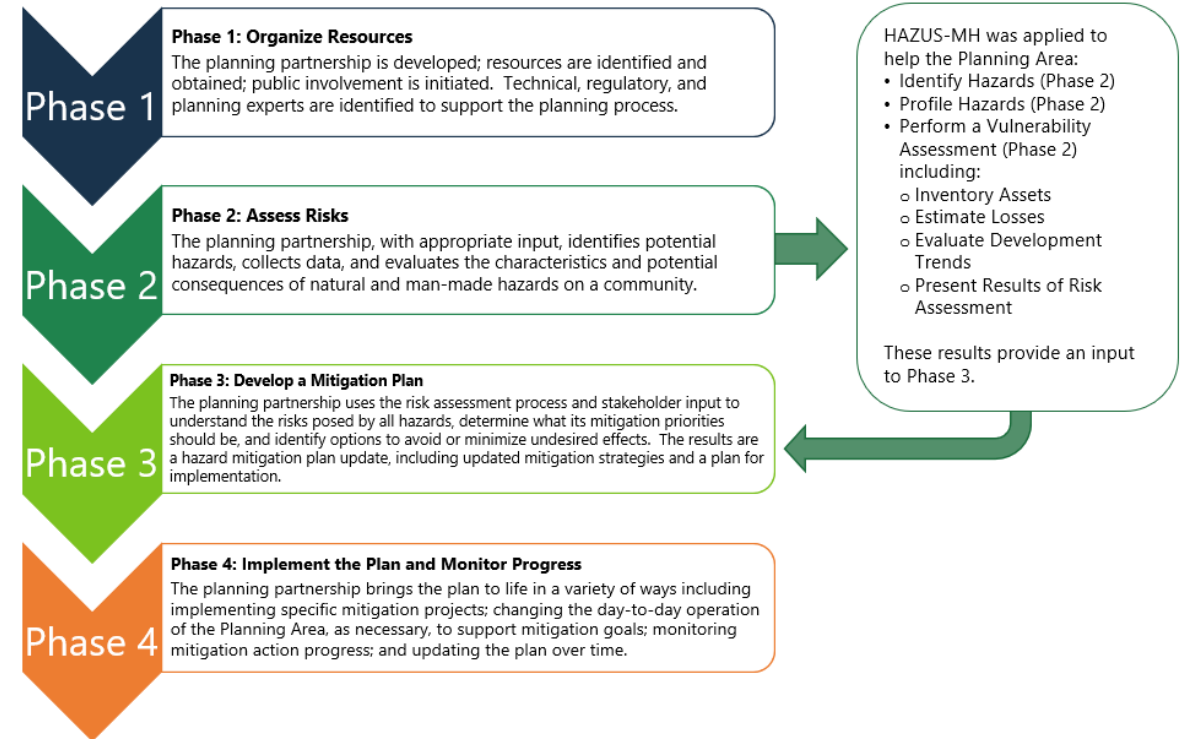
- Provides an overview of how the plan is laid out by describing the various chapters within the plan
  - Light summaries of key components of the HMP
    - Hazard Mitigation Overview
    - Planning Process
    - Involvement by Stakeholders and the Public
    - Risk Assessment for Local Hazards of Concern
    - Capability Assessment and Plan Integration
    - Mitigation Strategy



# Volume I

## 1. Introduction

- Plan Purpose
- Background of the plan
- Plan Organization
- Planning Differences – 2018 HMP vs. 2025 HMP





# Volume I

## 2. Planning Process

- Introduction
- Organization of the Planning Process
  - Organization of the Planning Partnership
  - Planning Activities
- Stakeholder Outreach and Involvement
  - Federal, State, and County Agencies
  - Regional and Local Stakeholders
  - Stakeholder and Neighbor Survey Summaries
- Public Participation – Public Involvement
  - Public Survey Summary
- Plan Integration
- Integration with Planning Mechanisms and Programs
- Continued Public Involvement



### 2.2.2 Planning Activities

Members of the Planning Partnership (individually and as a whole), as well as key stakeholders, met and communicated as needed to share information. This included workshops to identify hazards, assess risks, update inventories of critical facilities, and assist in updating mitigation goals and strategies. All members of the Planning Partnership had the opportunity to review the draft plan, supported interaction with other stakeholders, and assisted with public involvement efforts. These activities provided continuity through the process to ensure that natural hazard vulnerability information and appropriate mitigation strategies were incorporated.

Table 2-3 summarizes meetings and other planning activities conducted during the development of the plan. It also identifies which DMA 2000 requirements each activity satisfies. Documentation of meetings (agendas, sign-in sheets, minutes, etc.) may be found in Appendix C (Public and Stakeholder Outreach). Table 2-3 identifies only formal meetings and milestone events in the plan update process. In addition to these meetings, there was a great deal of communication between Planning Partnership members and the consultant through individual local meetings, phone, and email.

Table 2-3. Summary of Mitigation Planning Activities/Efforts

Date	DMA 2000 Requirement	Description of Activity
September 6, 2023	2	Project Start Up Meeting - proposed plan work in progress
September		
October 11, 2023		
October 2023	2	
December 15, 2023	2, 3c	
November 2, 2023	1b, 2, 3a, 3b, 3c, 4a, 5c	

### 2. Planning Process

#### 2. PLANNING PROCESS

This chapter describes the planning process used to update the Seneca County HMP, including how it was prepared, who was involved in the process, and how the public was involved. The planning approach aimed to achieve the following results:

- The plan will be multi-jurisdictional. Seneca County invited all jurisdictions in the County to join in the planning process. To date, 14 local municipal governments in the County (the Planning Partnership) participated along with Seneca County in the 2025 HMP update process:
  - Town of Covert
  - Town of Fayette
  - Village of Interlaken
  - Town of Junius
  - Town of Lodi
  - Village of Lodi
  - Town of Ovid
  - Village of Ovid
  - Town of Romulus
  - Town of Seneca Falls
  - Town of Tyre
  - Town of Varick
  - Town of Waterloo
  - Village of Waterloo

- The format of this plan is such that other entities can readily join at a later date as part of the regulatory 5-year plan update process.

- The plan considers all natural hazards that pose a risk to the area.
- The plan was developed following the process outlined by FEMA regulations and prevailing FEMA and NYS DHSES guidance. In addition, this plan will meet criteria for the Flood Mitigation Assistance (FMA) program.

A multi-jurisdictional planning grant under the Hazard Mitigation Grant Program (HMGP) (4567-0019) supported the development of this HMP. Grant administration was the responsibility of the Seneca County Department of Public Safety Emergency Management Office.

# Volume I

## 3. County Profile



- General Information
- Major Past Hazard Events
- Physical Setting
  - Location
  - Hydrography and Hydrology
  - Topography and Geography
  - Climate
  - Land Use and Land Cover
- Population and Demographics
  - General Population Characteristics
  - Vulnerable Populations
  - Population Trends
- General Building Stock
  - Development Trends and New Development
- Lifeline Facilities
  - Formerly discussed as Critical Facilities



# Volume I

## 4. Risk Assessment Methodology



- Describes the various procedures and tools used to complete the risk assessment
- Steps to do so included:
  - Identifying and profiling each hazard of concern
  - Determine exposure to each hazard
  - Assess the vulnerability of exposed population/buildings/economy



## 5. Hazard of Concern Identification



- Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area
  - Input from all participating jurisdictions
  - Review of the review of the New York State Hazard Mitigation Plan
  - Review of the 2018 Seneca County HMP
  - Research on the frequency, magnitude, and costs associated with hazards that have previously or could feasibly impact the region
  - Qualitative information regarding natural (not human-caused) hazards and the perceived vulnerability of the study area's assets to them.

# Volume I

## 6 - 13. Hazard Profiles



- Created individual chapters for each hazard of concern.
- Each chapter includes:
  - Hazard Profile – description, location, extent, worst-case scenario, previous occurrences, climate change projections, and probability of future events
  - Vulnerability Assessment – impact on life/health/safety, impact on building stock and critical facilities, impact on economy, future changes that may impact vulnerability, impacts to natural, historical, and cultural resources, and changes in vulnerability since the last plan



# Volume I

## 14. Hazard Ranking



- Provides a preliminary ranking (high, medium, low) of each hazard to show the Planning Area's hazards of greatest risk
- Provides information on the methodology used to determine the preliminary hazard rankings

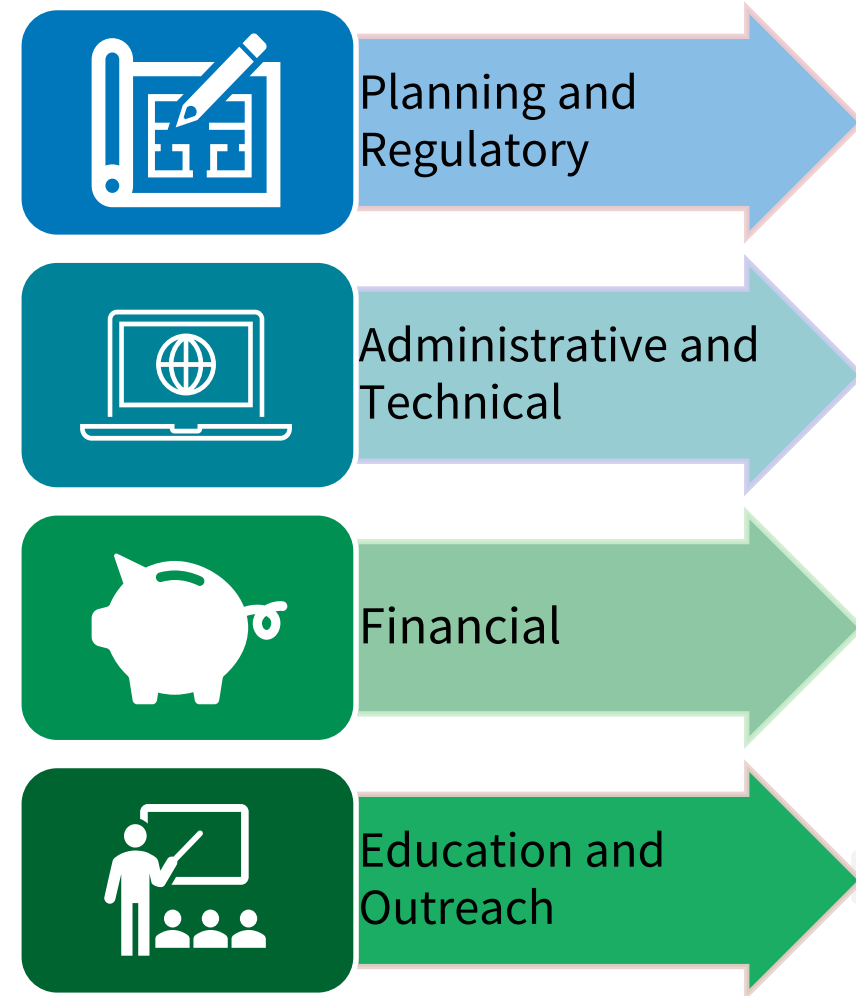




# Volume I

## 15. Capability Assessment

- What is currently available at the federal, state, and county level to support mitigation in Seneca County
  - Available plans, programs, & resources
  - Administrative and technical capabilities
  - Fiscal capabilities
  - Education and outreach



# Volume I

## 16. Mitigation Strategy



- Past accomplishments
- Goals and Objectives
- Mitigation strategy development and update
  - Action identification
  - Evaluation and prioritization
  - Benefit/cost review

Goal 1	Protect life, property, and the environment from current and future impacts.
Goal 2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
Goal 3	Increase public preparedness and awareness of natural hazards.
Goal 4	Enhance mitigation capabilities to reduce hazard vulnerabilities.
Goal 5	Support continuity of operations before, during, and after hazard events.
Goal 6	Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
Goal 7	Address long-term vulnerabilities from high hazard dams.

# Volume I

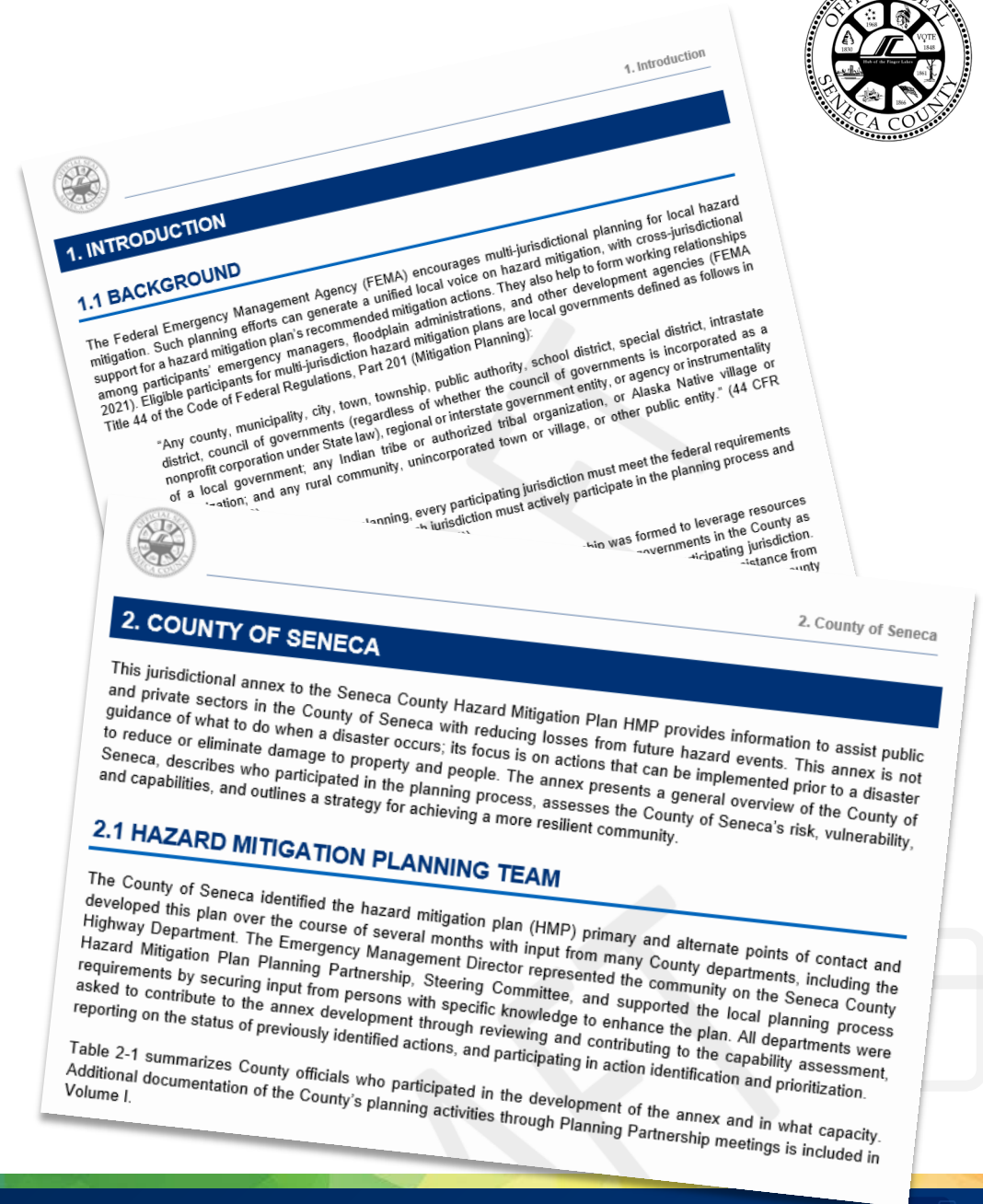
## 17. Plan Maintenance

- Ongoing Planning Partnership – meet annually to discuss HMP
- Monitoring
- Continuous evaluation and progress reports
- Updating
- Integrating the HMP with existing and future programs
- Continued public involvement



# Volume II

- **Chapter 1 – Introduction**
  - Participating jurisdictions
  - Introduction to jurisdictional annexes
- **Chapters 2-16 – Jurisdictional Annexes**
  - Points of Contact and Who Participated
  - Jurisdictional Profile
  - Capabilities
  - Risk Assessment
  - Status of Past Mitigation Actions
  - Current Mitigation Actions





# Appendices



- Appendix A. Adoptions
- Appendix B. Meeting Documentation
- Appendix C. Outreach
- Appendix D. Participation
- Appendix E. Action Worksheet
- Appendix F. Plan Maintenance
- Appendix G. Critical Facilities
- Appendix H. Risk Assessment Supplement
- Appendix I: Mitigation Strategy Supplement
- Appendix J: NYS DHSES Guidance
- Appendix K: Linkage Procedures



# FEMA Approval Process

- The plan is made available for public review.
- NYSDHSES is reviewing the plan concurrently with the public review period.
- The second draft will be submitted to FEMA for review and approval
  - Once approved, FEMA will grant the plan 'Approvable Pending Adoption' status, meaning FEMA will approve the plan once it has been locally adopted.
- The County and municipalities will formally adopt the plan.
  - Resolution is submitted to FEMA and FEMA grants final approval.





# Review the Draft Plan

- The entire plan will be posted on the Seneca County HMP website for a 30-day review period (starting today, February 18)
  - Review the plan during the public review, and we will incorporate any applicable revisions into the final deliverable to the State and FEMA
- NYSDHSES will conduct their review concurrently with the public review period
- Public feedback to be incorporated as appropriate prior to submittal to FEMA for their review
  - If needed, we will hold a brief meeting to discuss public comments and how to incorporate – date TBD



# Next Steps

- Draft Plan Review Meeting – TODAY!
- Public Review Period (30 days) – February 18 through March 19
- NYSDHSES Review is occurring in tandem with the Public Review Period
- Submit Draft Plan for FEMA Review by end of March; begin adoption
- FEMA approves plan (mid-June); continue adoption
- Implement Projects and Maintain the Plan ➡ Increase Resilience!



# Questions?

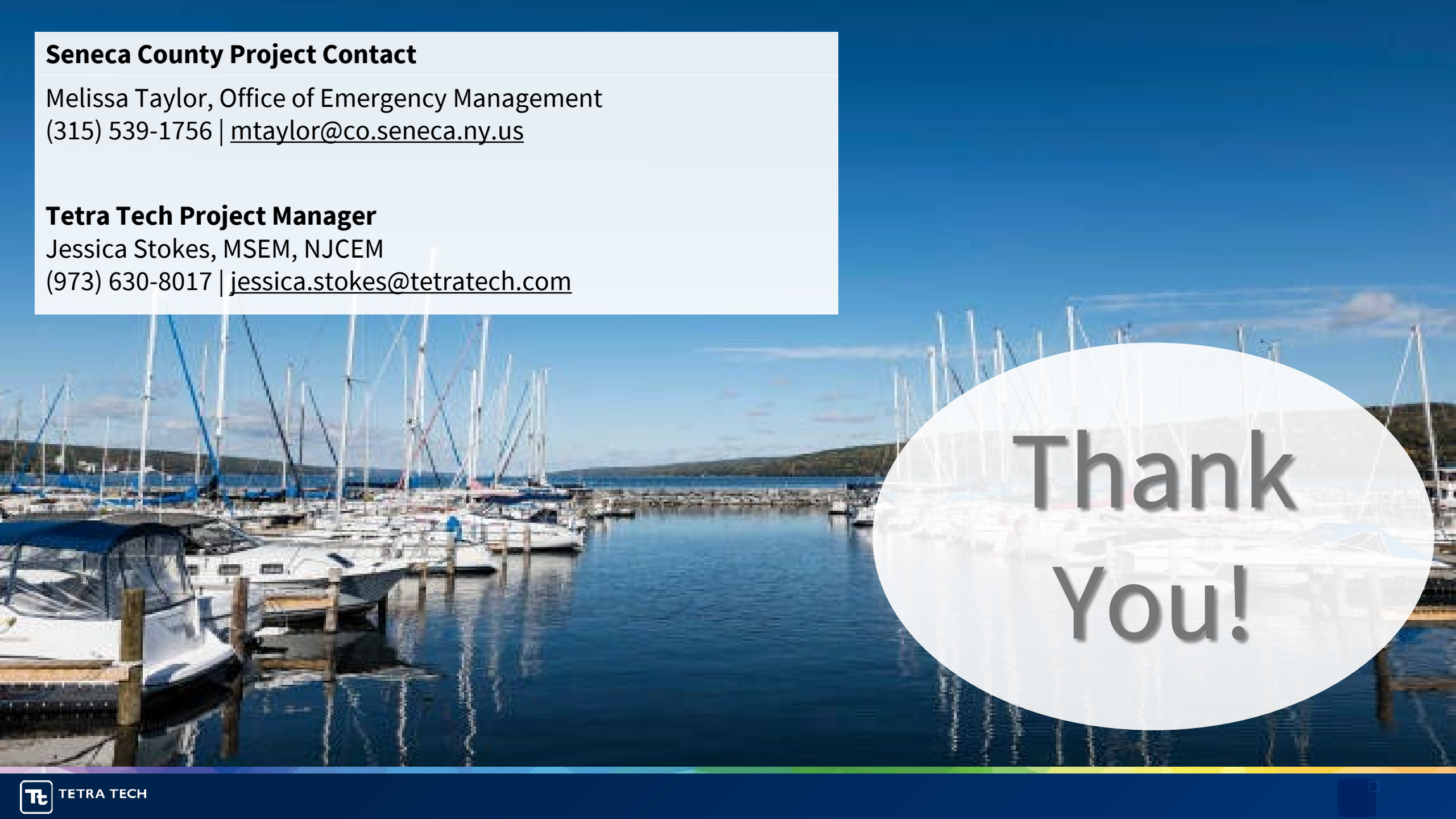


## Seneca County Project Contact

Melissa Taylor, Office of Emergency Management  
(315) 539-1756 | [mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

## Tetra Tech Project Manager

Jessica Stokes, MSEM, NJCEM  
(973) 630-8017 | [jessica.stokes@tetrattech.com](mailto:jessica.stokes@tetrattech.com)



Thank  
You!

## APPENDIX C: PUBLIC AND STAKEHOLDER OUTREACH



This appendix provides documentation of public and stakeholder outreach. Stakeholder involvement in this planning process was broad and productive as discussed and further documented in Chapter 2 (Planning Process). Public and stakeholder input has been incorporated throughout this HMP as appropriate, as identified in Chapter 2 and the References section, as well as within specific mitigation initiatives identified within the jurisdictional annexes (Volume II). Respondent feedback filtered by jurisdiction is included in each jurisdictional annex as available to provide an indication of community resident concerns related to natural hazards.

## SENECA COUNTY PUBLIC SURVEY RESULTS

---

This section contains information and results gathered from the Seneca County Public Survey. The main objective of this survey was to gather information from citizens regarding their level of knowledge regarding hazard vulnerability and knowledge of hazard mitigation information for their local communities. Roughly 25 respondents completed this survey during the planning process. The survey was available on Seneca County website and the HMP website at: <https://www.senecacountynyhmp.com/>. The survey results are provided in the following pages, with personal information redacted.

## STAKEHOLDER SURVEYS

---

In addition to collecting information from residents of Seneca County, surveys were developed for the agencies and stakeholders in the County. Unlike steering committee or planning partnership members, stakeholders may not be involved in all stages of the planning process, but they may have information or input to provide. In order to gather that information, the surveys were sent to the following stakeholders: law enforcement, firefighters, emergency medical services, highway and public works, business and commerce, hospitals and health care providers, and utilities. Results of the surveys are provided in the following pages, with personal information redacted.

## NEIGHBORING COMMUNITY SURVEY

---

A neighboring community survey was sent to the surrounding communities of Seneca due to their proximity to the County and because the effects of hazard events that impact Seneca County would be similar to that of their neighbors. A summary of the results are included on the following pages.

## WEBSITE AND SOCIAL MEDIA POSTS

---

The following provides screenshots of websites and social media posts.

## Social Media Graphics

2025



# SENECA COUNTY HAZARD MITIGATION PLAN UPDATE

If you live, work, or play in Seneca County you can help! Please take the short public survey.



## HAZARD MITIGATION PLAN 2025

Seneca County is updating its Hazard Mitigation Plan. Learn more about the plan and how you can help by visiting our website or scan the QR code:

[www.senecacountynyhmp.com](http://www.senecacountynyhmp.com)



FOR MORE INFO:

MELISSA TAYLOR  
DIRECTOR  
SENECA COUNTY EMO



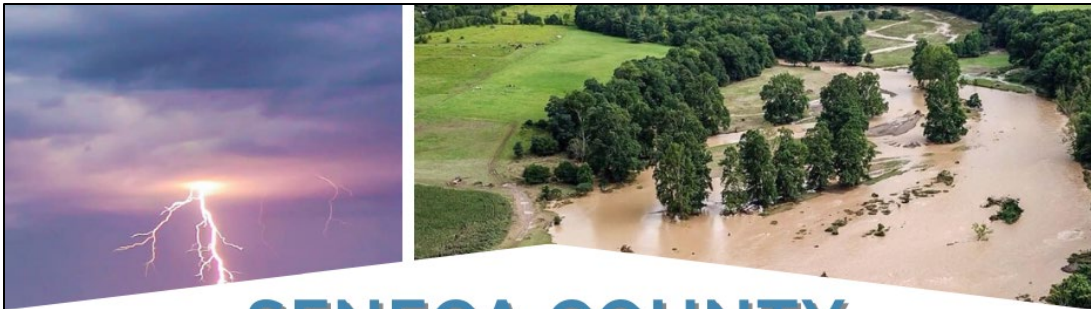
[mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)



# SENECA COUNTY HAZARD MITIGATION PLAN

TAKE THE SURVEY & HELP  
REDUCE LOSS FROM DISASTERS

SCAN THE QR CODE OR GO TO [HTTPS://BIT.LY/3QMRSTL](https://bit.ly/3QMRSTL)  
TO COMPLETE THE SURVEY



## SENECA COUNTY HAZARD MITIGATION PLAN 2025 UPDATE

Seneca County is updating its Hazard Mitigation Plan. Learn more about the plan and how you can help by visiting our website:

[www.senecacountynyhmp.com](http://www.senecacountynyhmp.com)







# HAZARD MITIGATION PLAN PUBLIC SURVEY

SENECA COUNTY IS SEEKING INPUT FOR THE 2025 HAZARD MITIGATION ACTION PLAN. THE PLAN WILL ADDRESS THE COUNTY'S RISKS POSED BY HAZARDS.

**TAKE THE SURVEY TODAY**

<https://bit.ly/3QmRStL>





**What do you do in the event  
of a natural hazard?  
Seneca County  
wants to know:**

**<https://bit.ly/3QmRStL>**

**SENECA COUNTY**

# HAZARD MITIGATION PLAN SURVEY

Seneca County is seeking input for the 2025 Hazard Mitigation Plan. The plan will address the County's risks posed by hazards (e.g., flood, drought, winter storms) and identify specific strategies to help reduce or eliminate risks.

**TAKE THE SURVEY**

<http://bit.ly/3QmRStL>



## WE NEED YOUR HELP

Seneca County is updating the Hazard Mitigation Plan and we want to hear from you.

Tell us what you think the updated plan should focus on by taking a quick survey:

<http://bit.ly/3QmRStL>







## SENECA COUNTY HAZARD MITIGATION PLAN PUBLIC SURVEY

Tell us what you think  
the updated plan  
should focus on:  
<http://bit.ly/3QmRStL>



Seneca County is seeking input for the 2025 Hazard Mitigation Plan. The plan will address the County's risks posed by hazards (e.g., flood, drought, winter storms) and identify specific strategies to help reduce or eliminate risks.



### WE NEED YOUR HELP TO UPDATE SENECA COUNTY'S HAZARD MITIGATION PLAN



Seneca County is a beautiful place to live, but it is also at risk for natural disasters including flooding, winter storms, and drought.



The County is currently updating the Hazard Mitigation Plan. The plan will assess the County's risk to hazards and disasters and develop a blueprint to reduce impacts and protect our county and residents.



**TELL US WHAT YOU THINK THE UPDATED  
PLAN SHOULD FOCUS ON:**

**<http://bit.ly/3QmRStL>**



# SENECA COUNTY HAZARD MITIGATION PLAN

SENECA COUNTY OEM IS WORKING ON  
AN UPDATE TO THE COUNTY'S HAZARD  
MITIGATION PLAN. IF YOU LIVE OR WORK  
IN THE COUNTY, WE NEED YOUR INPUT  
ABOUT LOCAL HAZARDS.

Take a quick survey to  
help us with the update.

<http://bit.ly/3QmRStL>



SCAN ME



## WE NEED YOUR



*feedback*

Join us for a review of the draft Seneca  
County Hazard Mitigation Plan (HMP) on  
Tuesday, February 18 at 10:00 AM and  
6:00PM through the provided URLs or by  
scanning the QR codes below.

10:00AM Meeting Option

<https://msteams.link/UIJ3>



6:00PM Meeting Option

<https://msteams.link/B030>





# Your Opinion Matters!

Join Seneca County for a review of the draft Hazard Mitigation Plan (HMP) on Tuesday, February 18 at 10:00 AM and 6:00PM. Following the meetings, the draft HMP will be available for public review for 30 days on the County's website:

<https://www.senecacountynyhmp.com/draft-plan/>

10:00AM Option



<https://msteams.link/UIJ3>



6:00PM Option

<https://msteams.link/B030>



Join through the URLs or by scanning the QR Codes above

## SENECA COUNTY HAZARD MITIGATION PLAN UPDATE



**The County needs your help!**

***The public review period for the draft HMP is open until March 19, 2025.***

***You can access the draft HMP through the County Hazard Mitigation Webpage.***

Scan the QR code to submit your comments on the HMP!  
or go to <https://bit.ly/4aM2knh>

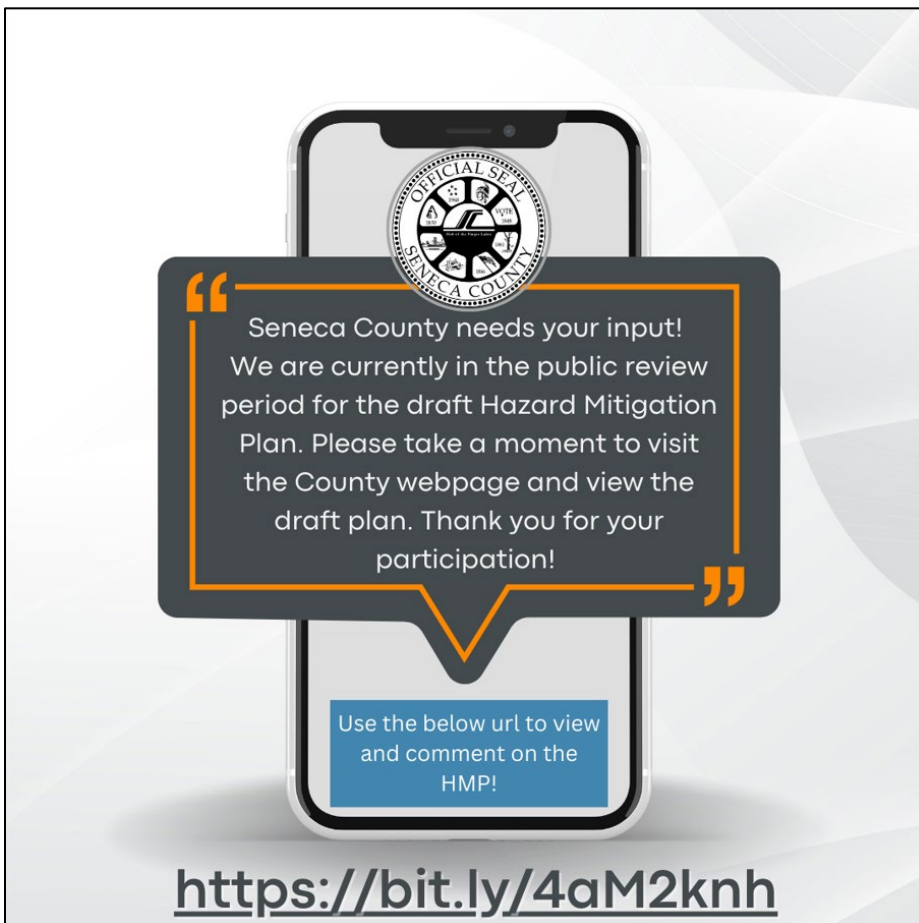




**The Public Review Period is Open!**

Visit <https://bit.ly/4aM2knh> to review  
the draft Hazard Mitigation Plan now  
through March 19, 2025.

Access the survey to submit your  
comments:



“ Seneca County needs your input!  
We are currently in the public review  
period for the draft Hazard Mitigation  
Plan. Please take a moment to visit  
the County webpage and view the  
draft plan. Thank you for your  
participation! ”

Use the below url to view  
and comment on the  
HMP!

<https://bit.ly/4aM2knh>



# WE NEED YOUR *feedback*



[www.senecacountynyhmp.com](http://www.senecacountynyhmp.com)



The Seneca County Hazard Mitigation Plan draft is ready for review. The public commenting period is open until **March 19, 2025.**

Visit the County HMP webpage to view the draft plan!

Submit your feedback through online survey:

<https://bit.ly/4aM2knh>

Let Us  
Know!



## Your Opinion Matters!

Join Seneca County in a review of the draft Hazard Mitigation Plan.

The draft HMP will be available for public review for 30 days on the County's HMP website:

<https://www.senecacountynyhmp.com/draft-plan/>

Use the survey through this URL or by scanning the QR Code below to provide feedback!

<https://bit.ly/4aM2knh>



# Social Meeting Verbiage Template

## **Post 1:**

Seneca County has updated the County Hazard Mitigation Plan (HMP) and is needing your feedback! If you live or work in Seneca County, we would appreciate your input to help us better understand the hazards that impact you and your community. Take a few minutes to complete the survey – (<https://bit.ly/3QmRStL>).

## **Post 2:**

In case you haven't heard, Seneca County is updating the County Hazard Mitigation Plan (HMP)-- and they want to hear from you! Your feedback will help make our county a safer place! Use this link to complete a survey about natural hazards in Seneca County (<https://bit.ly/3QmRStL>).

## **Post 3:**

To help reduce the risks to natural hazards and disasters, Seneca County is updating the County Hazard Mitigation Plan (HMP). We want to understand what you think are the most critical threats to your community. To help us, we are asking that if you live or work in the County to complete a short survey. That information will be used to identify strategies and projects to increase our resilience as a community. To participate in the survey, follow this link – (<https://bit.ly/3QmRStL>)

## **Post 4:**

The Seneca County Emergency Management Office needs YOUR input! Seneca OEM is updating the County Hazard Mitigation Plan (HMP) and would like to understand more about how Seneca County residents are prepared for disasters and emergencies. Complete the survey at (<https://bit.ly/3QmRStL>). The more responses received will help the County better serve your community and businesses before, during, and after a disaster event.

## **Post 5:**

Is your family prepared for a disaster event? We want to hear from you! Seneca County is updating the County Hazard Mitigation Plan (HMP) and asking those that live, or work in the county, to complete a quick survey (<https://bit.ly/3QmRStL>). The County HMP will enable participating communities to be eligible for federal funding to rebuild stronger after disasters strikes. Your feedback will help to ensure that crucial mitigation projects can happen in your community.

## **Post 6:**

Did you know that Seneca County can save up to \$6, for every \$1 spent on mitigating hazards? Saving lives, property, and money is why Seneca County is updating their County Hazard Mitigation Plan (HMP)! Help us understand your communities' concerns by completing a quick survey at – (<https://bit.ly/3QmRStL>). Your responses will help to identify and prioritize actions to make Seneca County more resilient to future disasters!

## **Post 7:**

If you live, work, or play in Seneca County and are interested in learning more about ways your community can reduce impacts to disasters, then we want to hear from YOU! Seneca County is updating their County Hazard Mitigation Plan (HMP) and are wanting your feedback. Take the survey – (<https://bit.ly/3QmRStL>). This survey will help the County have a better understanding of communities concerns regarding natural hazards like flooding, heavy rains, drought, and extreme temperatures.

## **Post 8:**

Seneca County is continuing the process of updating the Hazard Mitigation Plan for the County and its municipalities. Please consider attending the Public Draft Plan Review meeting virtually on Tuesday, February 18 at 10:00 AM (<https://msteams.link/UIJ3>) or at 6:00 PM (<https://msteams.link/B03Q>), to review the structure of the draft 2025 Hazard Mitigation Plan, process of plan adoption, and address any questions or comments on the draft plan.

Following this meeting the Public Review Period will commence for 30 days. The public and stakeholders are encouraged to participate in this public review period by submitting any comments through this survey (<https://bit.ly/4aM2knh>). The draft plan will be available on the County's Hazard Mitigation Plan website (<https://www.senecacountynyhmp.com/draft-plan/>).

**Post 9:**

ATTENTION!! The Seneca County Hazard Mitigation Plan 2025 Update is now ready for public review! We are asking all residents of Seneca County to review the final draft of the plan and give feedback. The projects and information included in the HMP allow your communities to remain eligible for grant funding opportunities to minimize losses from natural disasters. The Public Review Period is open until March 19, 2025 so don't miss this last chance to have your voice be heard! Your support and responses are appreciated! Use this URL for more information and to review the plan: <https://www.senecacountynyhmp.com/draft-plan/>

**Post 10:**

Seneca County and its jurisdictions have been hard at work this past year to update their Hazard Mitigation Plan! The plan is now ready for public review, and we are asking residents and stakeholders to review the draft plan and provide feedback. The Public Review Period is open until March 19, 2025. Use this URL to review the plan: <https://www.senecacountynyhmp.com/draft-plan/>

**Post 11:**

Did you take the Hazard Mitigation Plan survey last year? If so, then check out the draft Seneca County Hazard Mitigation Plan 2025 Update! Use this URL to see how your responses were used to create meaningful mitigation projects for your community: <https://www.senecacountynyhmp.com/draft-plan/>



# Website



## Seneca County Hazard Mitigation Plan Update

[Home](#) [About](#) [What is Hazard Mitigation](#) [Calendar](#) [Meetings](#) [Explore the Plan](#) [Additional Information](#)

### Seneca County Hazard Mitigation Plan Update

The goal of the project is to save lives and property through the reduction of hazard vulnerability for the entire county. During the course of this planning project, county and local leaders and the community will work in tandem to identify risks, assess capabilities, and formulate a strategy to reduce disaster vulnerability.

Welcome to the Seneca County Hazard Mitigation Plan (HMP) Website. This website provides project updates, resources, and links to hazard mitigation in support of the HMP update.

Public participation and feedback is a vital part of the hazard mitigation planning process. The Seneca County Hazard Mitigation Steering Committee has developed a Mitigation Survey to assist in providing the public an outlet to contribute to the Seneca County HMP update. This survey will be used to develop portions of the HMP.

Keep checking back regularly for information on upcoming events, to take our public survey, and to review and comment on the draft plan. If you would like to get in touch with the project team, please use the following contact information:

#### Project Contacts:

Melissa Taylor, Director  
Seneca County Emergency Management  
[mtaylor@co.seneca.ny.us](mailto:mtaylor@co.seneca.ny.us)

Jessica Stokes, Project Manager  
Tetra Tech, Inc.  
[jessica.stokes@tetratech.com](mailto:jessica.stokes@tetratech.com)



## Seneca County Hazard Mitigation Plan Update

[Home](#) [About](#) [What is Hazard Mitigation](#) [Calendar](#) [Meetings](#) [Explore the Plan](#) [Additional Information](#)

### About the Project

#### Purpose

Seneca County Emergency Management is leading the update of the Seneca County Hazard Mitigation Plan (HMP) for the County and its jurisdictions. This plan is an opportunity to detail a variety of potential hazards that could affect some or all of our residents and will also allow the County and the participating jurisdictions to be eligible for future mitigation funding from the Federal Emergency Management Agency (FEMA). The goal of this plan is to identify projects that can reduce damages from future natural and non-natural hazards. The plan will include a risk assessment and a hazard mitigation strategy. The study will focus on existing buildings and potential future development, infrastructure, and critical facilities that might be impacted. Critical Facilities are those facilities considered critical to the health and welfare of the population and that is especially important following a hazard. Critical facilities include essential facilities, transportation systems, lifeline utility systems, high-potential loss facilities, and hazardous material facilities.

#### Steering Committee

The Seneca County Hazard Mitigation Plan Steering Committee's purpose is to guide the planning process and provide input as needed for the content of the plan. Specifically, the Steering Committee was charged with the following:

- Providing guidance and oversight of the planning process on behalf of the general planning partnership.
- Attending and participating in Steering Committee meetings.
- Assisting with the development and completion of certain planning elements, including:
  - Reviewing and updating the hazards of concern.
  - Developing a public and stakeholder outreach program.
  - Assuring that the data and information used in the plan update process are the best available.
  - Reviewing and updating the hazard mitigation goals.
  - Identifying and screening appropriate mitigation strategies and activities.





# Seneca County Hazard Mitigation Plan Update

[Home](#) [About](#) [What is Hazard Mitigation](#) [Calendar](#) [Meetings](#) [Explore the Plan](#) [Additional Information](#)

## What is Hazard Mitigation?

Hazard mitigation is an action to help reduce long-term risks caused by hazards or disasters, such as flooding, earthquakes, or wildfires. The purpose of hazard

mitigation is to protect people and structures and minimize the costs of disaster response and recovery. Hazard mitigation can take many forms: capital projects, policies, education, and environmental protection.

Proactive mitigation leads to more cost-effective projects. By contrast, reactive mitigation tends to lead to severe damage and often more costly fixes; it simply costs too much to address the effects of disasters only after they happen. A surprising amount of damage can be prevented if we can anticipate where and how disasters occur, and take steps to prevent those damages.



## What is a Hazard Mitigation Plan?

A hazard mitigation plan (HMP) is "the representation of the jurisdiction's commitment to reduce risks from natural hazards, serving as a guide for decision makers as they commit resources to reduce the effects of natural hazards" (44 CFR 201.6). HMPs establish and maintain eligibility for grant funds. The planning process is as important as the plan itself because it creates a framework for governments to reduce the negative impacts of future disasters on lives, property, and the economy.

Hazard mitigation planning can significantly reduce the physical, financial, and emotional losses caused by disasters. The Disaster Mitigation Act of 2000 is federal legislation that establishes a pre-disaster hazard mitigation program and new requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP). It encourages and rewards state and local pre-disaster planning and promotes sustainability. Completion of an HMP will result in more effective risk reduction projects and in a faster and more efficient allocation of funding.



# Seneca County Hazard Mitigation Plan Update

[Home](#) [About](#) [What is Hazard Mitigation](#) [Calendar](#) [Meetings](#) [Explore the Plan](#) [Additional Information](#)

## Meetings

### Steering Committee Kick-off Meeting #1 – August 22, 2023

- Seneca County Steering Committee Kick-off Meeting Agenda
- Seneca County Steering Committee Kick-off Meeting Notes
- Seneca County Steering Committee Kick-off Meeting Presentation

Seneca County Steering Committee Kick-off Meeting Recording

[Download](#)[Download](#)[Download](#)

### Planning Partnership Kick-off Meeting #1 – August 22, 2023

- Seneca County Planning Partnership Kick-off Meeting Agenda
- Seneca County Planning Partnership Kick-off Meeting Notes
- Seneca County Planning Partnership Kick-off Meeting Presentation

Seneca County Planning Partnership Kick-off Meeting Recording

[Download](#)[Download](#)[Download](#)

### Steering Committee Risk Assessment Meeting – September 12, 2024

- Seneca County Steering Committee Risk Assessment Meeting Agenda
- Seneca County Steering Committee Risk Assessment Meeting Notes
- Seneca County Steering Committee Risk Assessment Presentation

[Download](#)[Download](#)[Download](#)



# Seneca County Hazard Mitigation Plan Update

[Home](#)[About](#)[What is Hazard Mitigation](#)[Calendar](#)[Meetings](#)[Explore the Plan](#)[Additional Information](#)

## Additional Information

- [FEMA – What is Mitigation?](#)
- [FEMA Hazard Mitigation Planning Homepage](#)
- [FEMA Hazard Mitigation Grant Program](#)
- [2019 New York State Hazard Mitigation Plan](#)
- [NYS DHSES Hazard Mitigation Planning](#)
- [Seneca County Emergency Management](#)

# Surveys



## Seneca County Hazard Mitigation Plan Update - Public Survey

**Seneca County has assembled a team to update our hazard mitigation plan which addresses hazards that impact our county and municipalities. Please help us plan for future disasters by completing this survey regarding hazards in Seneca County.**

**This survey is designed to gather information from around Seneca County to help us better coordinate activities and reduce the risk of injury or property damage. These questions are for information-gathering only and do not necessarily reflect any intent or future priorities of any governing body. This information will be shared with municipal, state, federal, and county entities for planning purposes only.**

**Please help us be more resilient to future disasters by completing this survey.**



## Seneca County Hazard Mitigation Plan Update - Public Survey

### Natural Hazard Information

**In this section, we are looking for your input on the types of natural hazards that impact Seneca County and its residents. Please answer the following questions to help us understand the concerns throughout the counties.**

1. In the last five years, which of the following hazard events have you experienced in Seneca County? Check all that apply.

- |  |   |
|--|---|
| <input type="checkbox"/> Dam Failure                         | <input type="checkbox"/> Hazardous Materials                |
| <input type="checkbox"/> Disease/Pandemic Outbreak           | <input type="checkbox"/> Ice Jam                            |
| <input type="checkbox"/> Drought                             | <input type="checkbox"/> Landslide                          |
| <input type="checkbox"/> Earthquake                          | <input type="checkbox"/> Lightning                          |
| <input type="checkbox"/> Extreme Temperature (heat and cold) | <input type="checkbox"/> Severe Storms (thunderstorm, hail) |
| <input type="checkbox"/> Extreme Wind                        | <input type="checkbox"/> Tornado                            |
| <input type="checkbox"/> Flooding - Street/Land              | <input type="checkbox"/> Wildfire                           |
| <input type="checkbox"/> Flooding - Stormwater               | <input type="checkbox"/> Winter Storm                       |
| <input type="checkbox"/> Flooding - Basement                 | <input type="checkbox"/> None                               |
| <input type="checkbox"/> Flooding - 1st floor or above       |   |
| <input type="checkbox"/> Other (please specify)              |   |



2. How concerned are you about the following hazards in Seneca County? Please check one for each hazard.

	Not Concerned	Somewhat Concerned	Concerned	Very Concerned	Extremely Concerned
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disease/Pandemic Outbreak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Temperatures (heat and cold)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Wind	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Street/Property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Basement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - 1st Floor or above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous Materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ice Jam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Slide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lightning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Storms (thunderstorms, hail)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Hazard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please specify)

3. How do you receive your information concerning a disaster? Check all that apply.

- |  |   |
|--|---|
| <input type="checkbox"/> County Website                                      | <input type="checkbox"/> TV Advertising         |
| <input type="checkbox"/> Municipal Websites                                  | <input type="checkbox"/> Radio News             |
| <input type="checkbox"/> Newspaper   | <input type="checkbox"/> Radio Advertisements   |
| <input type="checkbox"/> Municipal E-Mail                                    | <input type="checkbox"/> Outdoor Advertisements |
| <input type="checkbox"/> Police, Fire, EMS, 9-1-1                            | <input type="checkbox"/> Internet               |
| <input type="checkbox"/> Mass Notification System (e.g., NY Alert)           | <input type="checkbox"/> Social Media           |
| <input type="checkbox"/> Telephone Book                                      | <input type="checkbox"/> Chamber of Commerce    |
| <input type="checkbox"/> Informational Brochures                             | <input type="checkbox"/> Academic Institutions  |
| <input type="checkbox"/> Public Meetings, Workshops, Public Awareness Events | <input type="checkbox"/> Books                  |
| <input type="checkbox"/> Schools   | <input type="checkbox"/> Public Library         |
| <input type="checkbox"/> TV News   |   |
| <input type="checkbox"/> Other (please specify)                              |   |

4. In the past, has your home been damaged by a hazard event (i.e., flood waters entering the first floor of your home or pipes freezing during periods of cold temperatures).

- ☐ Yes
- ☐ No

Please explain the type of damage sustained and when it occurred.

5. If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?

- ☐ Yes
- ☐ No

6. To the best of your knowledge, is your property located in a designated floodplain? If you do not know, [click here](#) to find out.

- ☐ Yes
- ☐ No

7. If your property is in the floodplain, do you have flood insurance?

- ☐ Yes
- ☐ No
- ☐ N/A

8. If your property is located outside of the floodplain, do you have flood insurance?

☐ Yes

☐ No

☐ N/A



## Seneca County Hazard Mitigation Plan Update - Public Survey

### Community Vulnerabilities and Hazard Mitigation Strategies

**In order to assess community risk, we need to understand which critical facilities and community lifelines could be vulnerable to natural hazards in Seneca County. These types of facilities are essential to the community and provide resources. The next set of questions will focus on critical facilities and community lifelines in your community and your thoughts on mitigating risk to those facilities.**

9. A number of activities can reduce your community's risk from natural hazards. These activities can be both regulatory and non-regulatory. Please check the box that best represents your opinion on the following strategies to reduce the risk and loss associated with natural hazards in Seneca County.

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Not Sure
Regulatory approach to reducing risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Non-regulatory approach to reducing risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Combination of regulatory and non-regulatory approaches to reducing risk	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Policies that prohibit development in areas subject to natural hazards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use of local tax dollars to reduce risks and losses from natural hazards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Protect historical and cultural assets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Making your home more disaster-resilient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement steps to safeguard the local economy following a disaster	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Improve disaster preparedness of local schools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop local inventory of at-risk buildings and infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enforce the disclosure of natural hazard risks during real estate transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)



10. Natural hazards can have a significant impact on a community, but planning for these events can help lessen the impacts. The following statements will help us determine the priorities of our residents regarding planning for natural hazards in Seneca County. Please tell us how important each one is to you.

	Very Important	Somewhat Important	Neutral	Not Very Important	Not Important
Protecting private property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Protecting critical facilities and community lifelines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preventing development in hazard areas (e.g., restrict building in the floodplain)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enhance the functions of natural features (e.g., streams, wetlands)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Protecting historical and cultural landmarks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Protecting and reducing damages to utilities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Strengthening emergency services (e.g., police, fire, EMS)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Disclosing natural hazard risks during real estate transactions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Promoting cooperation among public agencies, residents, non-profit organizations, and local businesses	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

11. Please identify any specific vulnerabilities that you are aware of in your city/town/village (e.g., flood-prone areas or specific properties, critical facilities that lack backup power, etc.). Please list street names and other specific identifiers if possible.

12. Please identify any specific vulnerabilities that you are aware of in Seneca County outside of your city/town/village (e.g., flood-prone areas or specific properties, critical facilities that lack backup power, etc.). Please list the city/town/village, street names, and other specific identifiers if possible.

13. Do you have any other comments, questions, or concerns regarding hazard mitigation in Seneca County?

You can mitigate and prepare for natural hazards in order to reduce or prevent damages to your property, injuries, and loss of life. The precautions you take now can make a big difference when natural disasters or emergencies occur. Access to basic services, like electricity, gas, and water, may be cut off temporarily, or you may have to leave your home at a moment's notice. The following question will help us understand your household's preparedness for disaster events.

14. In the following list, please check those activities that you have done in your home, plan to do in the near future, have not done, or are unable to do. Please check one answer for each activity that you or someone in your household have done.

	Have Done	Not Done Yet, But Started	Not Started Yet, But Plan To Do	Do Not Plan To Do
Attend meetings or received information on natural disasters or emergency preparedness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Talked with members in your home about what to do in case of a natural disaster or emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developed an emergency plan for your home and family in order to decide what everyone will do in the event of a disaster or emergency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prepared a disaster supply kit with extra food, water, batteries, etc.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Become trained in first aid and/or CPR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Installed smoke detectors throughout home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Discussed or created a utility shutoff procedure in the event of a natural disaster	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

15. Do you have any relevant questions or comments for Seneca County?



## Seneca County Hazard Mitigation Plan Update - Public Survey

### General Household Information

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan. Please note that individual answers will not be published in the plan.**

16. Please indicate the municipality in which you live:

☐ Covert (T)

☐ Lodi (V)

☐ Tyre (T)

☐ Fayette (T)

☐ Ovid (T)

☐ Varick (T)

☐ Interlaken (V)

☐ Ovid (V)

☐ Waterloo (T)

☐ Junius (T)

☐ Romulus (T)

☐ Waterloo (V)

☐ Lodi (T)

☐ Seneca Falls (T)

☐ Other (please specify)

17. How long have you lived here?

☐ Less than 1 year

☐ 10 to 19 years

☐ 1 to 5 years

☐ 20 years or more

☐ 6 to 9 years

18. Do you own or rent your place of residence?

☐ Own

☐ Rent

19. What type of residence do you live in?

☐ Single-family detached

☐ Condominium

☐ Multi-family detached

☐ Apartment Complex

☐ Town Home

☐ Commercial

☐ Other (please specify)

20. What street is your property on? (optional, will be kept confidential - only used to identify hazard areas such as flood prone areas).

21. Please indicate your age range:

☐ Under 18

☐ 18 to 30

☐ 31 to 40

☐ 41 to 50

☐ 51 to 60

☐ 61+





## Seneca County Hazard Mitigation Plan - Stakeholder Survey

**Seneca County and its municipalities are in the process of updating the County's Hazard Mitigation Plan (HMP) in order to be eligible for federal grant funding for public and private mitigation projects. The HMP provides a “blueprint” by which participating jurisdictions can make coordinated, cost-effective efforts toward reducing losses from natural and human-caused disasters.**

**The following survey is designed to help identify general needs for hazard mitigation and resiliency within Seneca County from your perspective, as well as to identify specific projects that may be included in the mitigation plan.**

**Please take a few minutes to answer the following questions and provide feedback on potential mitigation that affects your assets, infrastructure, and/or services within Seneca County. Provide as much detail as possible to support your choice in the comments box. Where possible, identify specific areas that need to be improved and your suggestions for possible improvements, especially if there are other important issues that you feel are not covered by this survey.**

**The Seneca County HMP Planning Partnership thanks you for taking the time to participate in this information-gathering process.**



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### General Information

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan. Please note that individual answers will not be published in the plan.**

#### 1. Contact Information

Name	<input type="text"/>
Department/Agency	<input type="text"/>
Primary Responsibility	<input type="text"/>
Phone Number	<input type="text"/>
Email Address	<input type="text"/>

2. Which of the following sectors and areas of expertise do you represent? Mark all that apply.

- |  |  |
|--|--|
| <input type="checkbox"/> Climate Change                | <input type="checkbox"/> Infrastructure                                  |
| <input type="checkbox"/> Emergency Management          | <input type="checkbox"/> Land Use and Development                        |
| <input type="checkbox"/> Economic Development          | <input type="checkbox"/> Natural and Cultural Resources                  |
| <input type="checkbox"/> Health and Social Services    | <input type="checkbox"/> Social and Cultural Equity                      |
| <input type="checkbox"/> Housing, Food, Water, Shelter | <input type="checkbox"/> Socially Vulnerable and Underserved Populations |
| <input type="checkbox"/> Other (please specify)        |  |

3. What category does your facility operation/service fall under?

Other (please specify)

4. Based on the above category, please provide additional description and information as to what your organization does or offers (please explain)

5. Please identify the location of your facility(ies) and/or primary service area. You may choose more than one if your service area covers multiple communities, or “Seneca County (entire area)” if your service area is county-wide:

- |  |                                      |   |
|--|--------------------------------------|---|
| <input type="checkbox"/> Seneca County (entire area) | <input type="checkbox"/> Lodi (T)    | <input type="checkbox"/> Seneca Falls (T) |
| <input type="checkbox"/> Covert (T)                  | <input type="checkbox"/> Lodi (V)    | <input type="checkbox"/> Tyre (T)         |
| <input type="checkbox"/> Fayette (T)                 | <input type="checkbox"/> Ovid (T)    | <input type="checkbox"/> Varick (T)       |
| <input type="checkbox"/> Interlaken (V)              | <input type="checkbox"/> Ovid (V)    | <input type="checkbox"/> Waterloo (T)     |
| <input type="checkbox"/> Junius (T)                  | <input type="checkbox"/> Romulus (T) | <input type="checkbox"/> Waterloo (V)     |
| <input type="checkbox"/> Other (please specify)      |                                      |   |

6. Does your organization maintain or manage any of the following within your designated service area? If not, answer “No” at the bottom, otherwise check all that apply.

- |   |                                      |
|---|--------------------------------------|
| <input type="checkbox"/> Buildings              | <input type="checkbox"/> Water/Sewer |
| <input type="checkbox"/> Roads                  | <input type="checkbox"/> Stormwater  |
| <input type="checkbox"/> Bridges                | <input type="checkbox"/> No          |
| <input type="checkbox"/> Other (please specify) |                                      |

7. Does your organization work with or help support socially vulnerable populations that may be at higher risk for hazard impacts? Socially vulnerable populations may be considered "socially vulnerable" because of a variety of factors like socioeconomic status, household composition, minority status, limited proficiency to read or speak English, housing type, and transportation.

- ☐ Yes
- ☐ No

If you answered yes, please describe how your organization works with or supports socially vulnerable populations.



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Risk Overview

**A risk assessment is conducted as part of the HMP update. This is done to determine the potential impacts of hazards to the population, economy, built environment, and natural environment. To help us understand the hazards of greatest concern in Seneca County, please answer the questions below.**

8. For which hazard(s) do you feel that you or your organization have a special interest and/or expertise? Check all that apply.

- |  |  |
|--|--|
| <input type="checkbox"/> Dam Failure                             | <input type="checkbox"/> Ice Jam       |
| <input type="checkbox"/> Disease/Pandemic Outbreak               | <input type="checkbox"/> Landslide     |
| <input type="checkbox"/> Drought                                 | <input type="checkbox"/> Lightning     |
| <input type="checkbox"/> Earthquake                              | <input type="checkbox"/> Nor'easter    |
| <input type="checkbox"/> Extreme Temperature (heat/cold)         | <input type="checkbox"/> Severe Storms |
| <input type="checkbox"/> Extreme Wind                            | <input type="checkbox"/> Tornado       |
| <input type="checkbox"/> Flood (inland, flash, urban/stormwater) | <input type="checkbox"/> Wildfire      |
| <input type="checkbox"/> Hazardous Materials                     | <input type="checkbox"/> Winter Storm  |
| <input type="checkbox"/> Hurricane and Tropical Storm            |  |
| <input type="checkbox"/> Other (please specify)                  |  |

9. Looking back at previous hazard events, have buildings/facilities/structures you have worked in and/or are responsible for been impacted by a hazard (ex. damage/closures/etc.)?

- ☐ Yes
- ☐ No
- ☐ Don't Know

10. If you answered "Yes" to the above question, please describe the event that caused or is causing (if recurring) damage and loss of service/property. If quantifiable data is available, please provide that as well (number of damaged structures, monetary loss, etc.) (please explain)

11. Looking at where your facilities or services are located in Seneca County, what areas do you believe to be the most vulnerable to hazards? What are these hazards? (please explain).

12. What are your agency's primary concerns regarding hazards?

- ☐ Vulnerability of specific facilities
- ☐ Response capabilities
- ☐ Likelihood of specific hazard events
- ☐ Other (please specify)

13. What challenges or barriers to reducing vulnerability in Seneca County do you see?





## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Facility Information

**Critical facilities/infrastructure and community lifelines are part of the risk assessment of the HMP update. Facilities and infrastructure that are critical to the health and welfare of the population and that are especially important following hazard events. Critical facilities often include but are not limited to: shelters, police and fire stations, hospitals, schools, etc.**

14. Does your agency own or lease facilities?

☐ Yes

☐ No

☐ Don't Know

☐ Other (please specify)

15. Of those facilities that your agency owns or leases, are any viewed as critical facilities or community lifelines?

☐ No

☐ Yes (please specify which facilities)

16. Are your facilities susceptible to impacts from hazards, such as your fire department being in a flood prone area?

☐ Yes

☐ No

☐ Don't Know

If yes, please specify the facilities and damages sustained.

17. What support does your organization need from Seneca County to help reduce vulnerabilities to your facilities?



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Capabilities and Mitigation Strategies

**Counties, communities, agencies, and stakeholders all have different sets of capabilities, including authorities, policies, programs, staff, funding, and other resources available to accomplish mitigation. To help us understand your agency's capabilities, please answer the following questions.**

18. Is your organization covered by any of the following plans? Check all that apply

- |  |   |
|--|---|
| <input type="checkbox"/> Continuity of Operations Plan | <input type="checkbox"/> Business Continuity Plan |
| <input type="checkbox"/> Continuity of Government Plan | <input type="checkbox"/> None                     |
| <input type="checkbox"/> Emergency Operations Plan     | <input type="checkbox"/> Don't Know               |
| <input type="checkbox"/> Other (please specify)        |   |

19. What capabilities does your agency have to help address hazards?

20. What plans or studies has your agency developed that relate to hazards, the climate, new or existing facilities, vulnerable populations, or other areas related to hazard mitigation?

21. Is your agency currently involved in conducting any studies or developing any programs which would further support Seneca County's hazard mitigation program? Studies can include hazard-specific information, data gathering which supports risk assessments, including economic data, or statistical data of other types.

- ☐ Yes
- ☐ No
- ☐ Don't Know

If yes, please briefly describe the type of study underway, and list the anticipated year of completion.



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Project Identification

22. Please list any projects or programs that you have recently implemented that you believe will reduce your facility's/organization's vulnerability, damage, and losses (including loss of operation/service) due to hazard events.

23. Does your agency currently have any mitigation projects or activities underway? If so, please describe.

24. Please provide a list of any new projects or programs that your facility or organization would like to complete in order to reduce your vulnerability to damages and losses, including loss of operation/service, to hazard events.



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Social Vulnerability and Underserved Communities

**Social vulnerability is understood as the potential for loss within an individual or social group, recognizing that some characteristics influence an individual's or group's ability to prepare, respond, cope or recover from an event. These characteristics can overlap within populations to create heightened vulnerability, which may be compounded by infrastructure deficiencies within communities and historic or existing discriminatory government policies.**

**Underserved Communities refer to populations sharing a particular characteristic, as well as geographic communities that have been systematically denied a full opportunity to participate in aspects of economic, social, and civic life. The barriers to opportunity and participation these communities face have been occurring throughout history and continue today.**

25. Are you aware of the number and location of vulnerable populations in your community/operating area?

- ☐ Yes
- ☐ No
- ☐ Yes, but need better information
- ☐ Other (please specify)

26. Does your agency provide assistance to any socially vulnerable or underserved populations in Seneca County?

- ☐ Yes
- ☐ No
- ☐ Not Sure

Other (please specify)

27. If yes, what types of services do you provide?

- ☐ Establishing Personal Services
- ☐ Funding/Financial
- ☐ Human Rights
- ☐ Regulatory Oversight
- ☐ Other (please specify)

28. Please provide a list of the populations or communities served by your agency.

29. Do you provide these services during times of disaster?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ Other (please specify)

30. What barriers and community characteristics exist within Seneca County that may create additional vulnerabilities to hazards? This may include but is not limited to access to transportation, broadband access, economic disadvantages, physical health (chronic diseases), limited physical mobility, age (older adults and children), and rural communities.





## Seneca County Hazard Mitigation Plan - Stakeholder Survey

### Final Thoughts

31. Do you have any questions or comments for Seneca County?



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

**Seneca County and its municipalities are in the process of updating the County's Hazard Mitigation Plan (HMP). The HMP provides a “blueprint” by which participating jurisdictions can coordinate efforts to reduce losses from natural hazards. It is required by the Federal Emergency Management Agency (FEMA) in order to be eligible for federal grant funding for public and private mitigation projects.**

**Due to your proximity to Seneca County, the effects of many of these disasters would be similar in your community, and your involvement in this process could reap mutual benefits. By participating in the update of this plan, you will be engaging in the regional coordination of disaster mitigation planning, which is one of the intents of the Mitigation Planning Regulations (44 CFR 201).**

**The following survey is designed to help Seneca County gain a better understanding of how neighboring communities operate day-to-day and during an emergency and allows our neighbors to be included in the planning process.**

**The Seneca County HMP Planning Partnership thanks you for taking the time to participate in this information-gathering process.**



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

### General Information

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan. Please note that individual answers will not be published in the plan.**

#### \* 1. Contact Information

<b>Name</b>	<input type="text"/>
<b>Department/Agency</b>	<input type="text"/>
<b>City/Town</b>	<input type="text"/>
<b>Email Address</b>	<input type="text"/>
<b>Phone Number</b>	<input type="text"/>

#### \* 2. Please indicate the county your organization, agency, or municipality is located in.

- |  |                                       |
|--|---------------------------------------|
| <input type="radio"/> Cayuga County          | <input type="radio"/> Tompkins County |
| <input type="radio"/> Ontario County         | <input type="radio"/> Wayne County    |
| <input type="radio"/> Schuyler County        | <input type="radio"/> Yates County    |
| <input type="radio"/> Other (please specify) |                                       |



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

### Emergency Operations and Continuity of Operations Planning

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.**

3. Do you have any shared service agreements or mutual aid agreements in place with Seneca County or any Seneca municipalities for the following?

- ☐ Equipment and staff for debris cleanup and removal
- ☐ Emergency staff for evacuations/disaster response
- ☐ Damage assessments
- ☐ Sheltering
- ☐ Other
- ☐ If you checked any of the above, please explain.

4. Do you include Seneca County or any Seneca municipalities in your comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ Other (please specify)

5. Do you participate in Seneca County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ Other (please specify)

6. Do you include Seneca County or any Seneca municipalities in your Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of your community's essential functions for a period of time?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ Other (please specify)

7. Do you participate in Seneca County or any Seneca municipality's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Seneca County's essential functions for a period of time?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ Other (please specify)

8. Thinking about emergency operations and disaster response, please explain how these actions are communicated between your staff and Seneca County.





## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

### Information Sharing

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.**

9. Do your emergency officials have access to contact information for Seneca County's emergency operation centers?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.

10. Do you share risk and vulnerability assessments (e.g., flood mapping, GIS, Hazus, etc.) with Seneca County?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A

If yes, please explain.

11. Is information regarding mitigation shared during the planning and implementation phases of the projects?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A

If yes, please explain.

12. Please describe any situations or hazards that are of concern to both your jurisdiction and Seneca County. For example, would flooding along a particular waterway impact both jurisdictions, or are there any facilities or infrastructure that would affect both jurisdictions if it/they failed?

A large, empty rectangular box with a thin black border, intended for the user to provide a written response to question 12. A small diagonal line is visible in the bottom right corner of the box.

13. Please explain how information is shared between your jurisdiction and Seneca County and any Seneca municipalities regarding mitigation projects.

A large, empty rectangular box with a thin black border, intended for the user to provide a written response to question 13. A small diagonal line is visible in the bottom right corner of the box.



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

### Projects, Grants, Education, and Outreach

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.**

14. Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?

- |  |   |
|--|---|
| <input type="checkbox"/> Stormwater projects             | <input type="checkbox"/> Natural infrastructure restoration   |
| <input type="checkbox"/> Watershed projects or planning  | <input type="checkbox"/> Outreach (education and outreach campaigns, programs for public information, etc.) |
| <input type="checkbox"/> Floodplain projects or planning | <input type="checkbox"/> Other  |
| <input type="checkbox"/> Connected roadway improvements  |   |

If you selected anything above, please explain.

15. Has your jurisdiction and Seneca County or any Seneca municipalities collaborated on grant applications?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A

If yes, please explain.

16. Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Seneca County?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.

17. Are you aware of any organizations that support socially vulnerable or underserved populations in both your community and Seneca County?

☐ No

☐ Yes. Please describe the organization(s)

18. What are opportunities or ideas to optimize cooperation with Seneca County on emergency management operations and hazard mitigation projects?



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

### Evacuation and Sheltering

**The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the purpose of preparing this plan.**

19. Do you collaborate with Seneca County or any Seneca municipalities on establishing evacuation routes and alternate evacuation routes?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.

20. Do you and Seneca County or any Seneca County municipalities consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain

21. Are evacuation routes maintained to the same level of protection across jurisdictional lines?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ Other (please specify)



22. Do you collaborate with Seneca County or any Seneca municipalities on establishing shelters?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.

23. Do you and Seneca County or any Seneca municipalities consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.

24. Do you and Seneca County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.

- ☐ Yes
- ☐ No
- ☐ Don't Know
- ☐ N/A
- ☐ If yes, please explain.



## Seneca County Hazard Mitigation Plan - Neighboring Community Survey

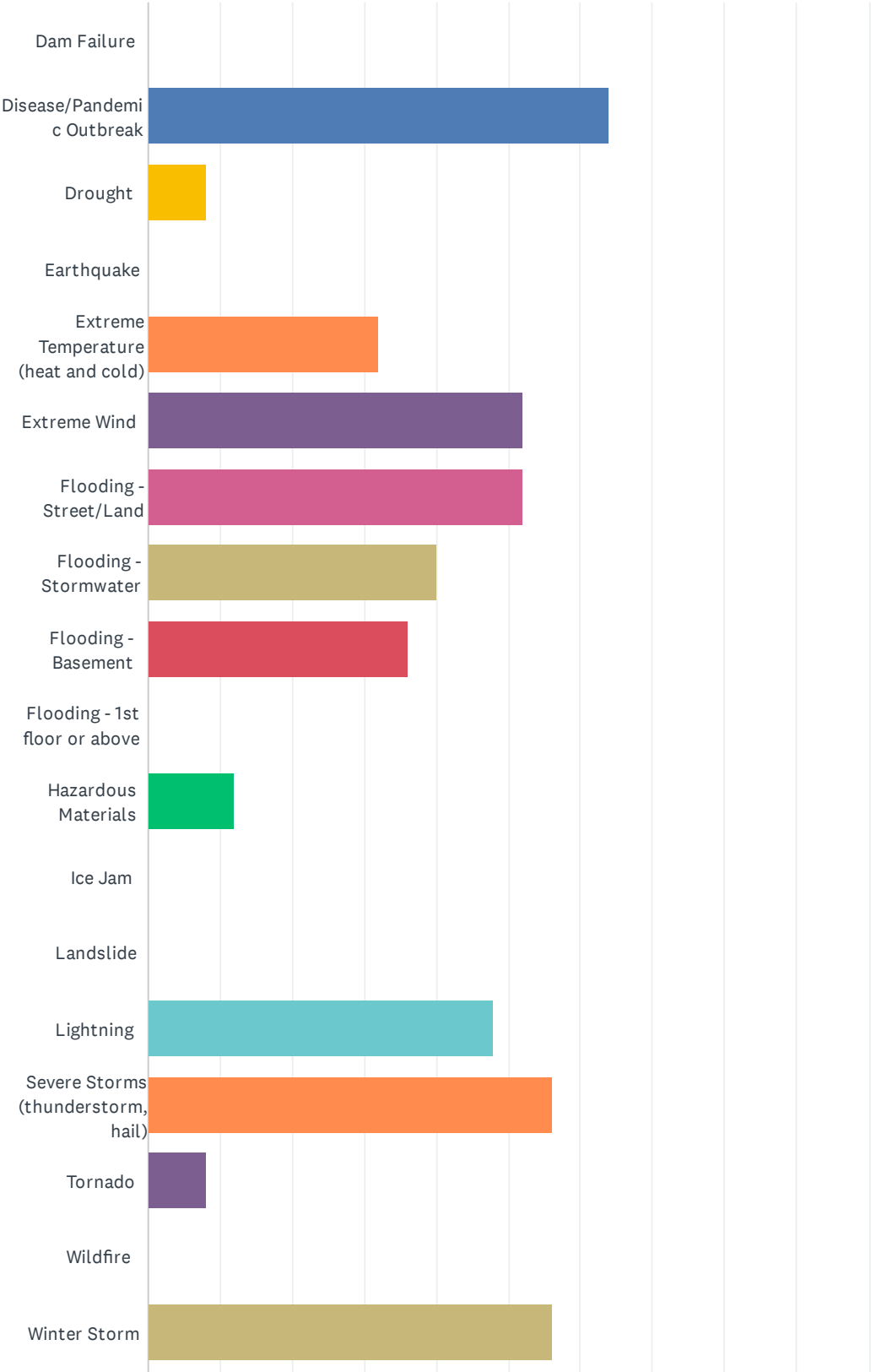
### Final Thoughts

25. Do you have any relevant questions or comments for Seneca County?

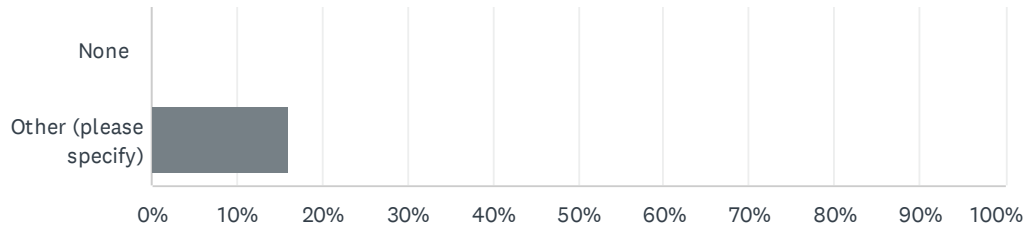
# Survey Results

Q1 In the last five years, which of the following hazard events have you experienced in Seneca County? Check all that apply.

Answered: 25    Skipped: 0



## Seneca County Hazard Mitigation Plan Update - Public Survey



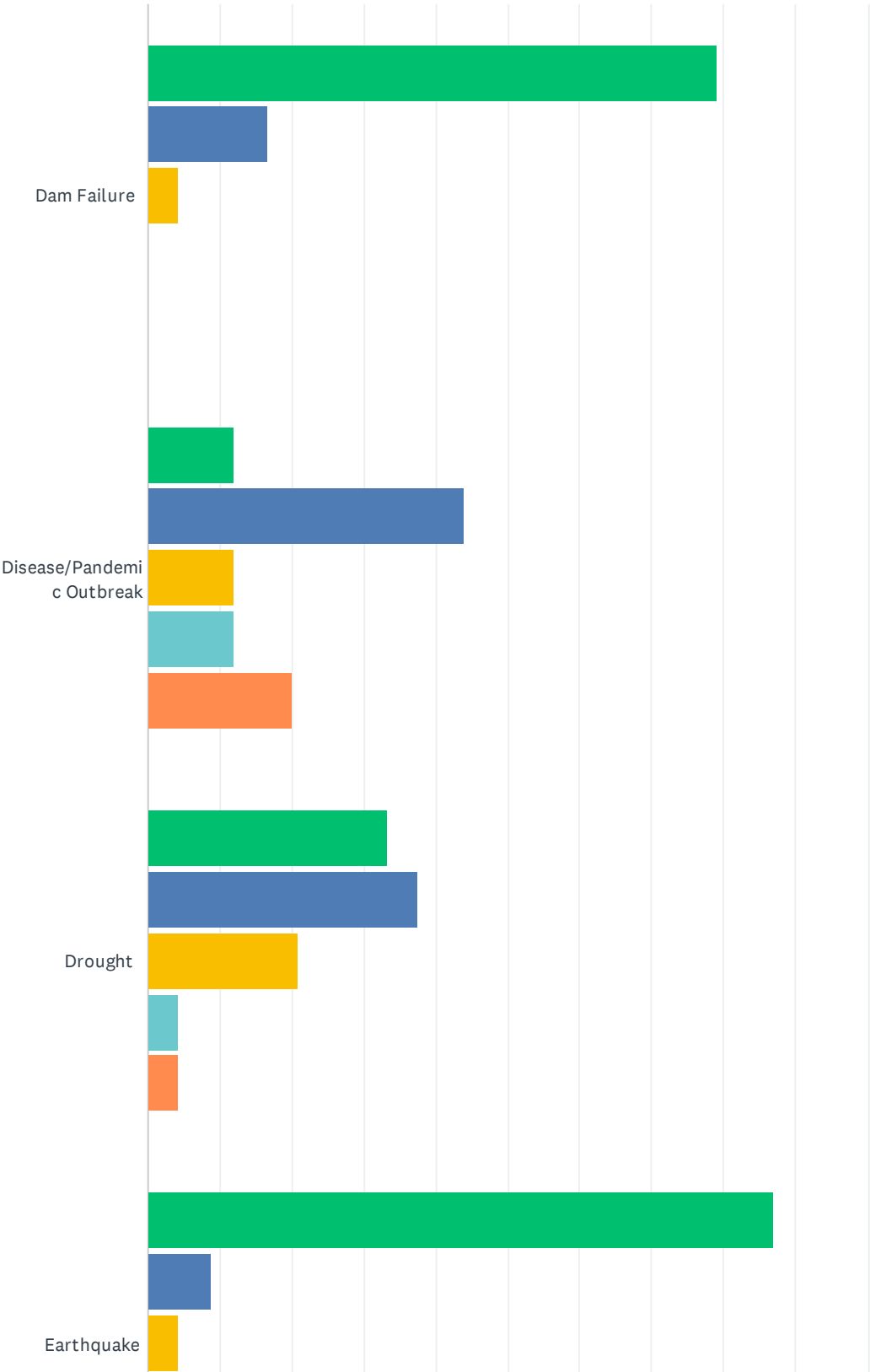
ANSWER CHOICES	RESPONSES	
Dam Failure	0.00%	0
Disease/Pandemic Outbreak	64.00%	16
Drought	8.00%	2
Earthquake	0.00%	0
Extreme Temperature (heat and cold)	32.00%	8
Extreme Wind	52.00%	13
Flooding - Street/Land	52.00%	13
Flooding - Stormwater	40.00%	10
Flooding - Basement	36.00%	9
Flooding - 1st floor or above	0.00%	0
Hazardous Materials	12.00%	3
Ice Jam	0.00%	0
Landslide	0.00%	0
Lightning	48.00%	12
Severe Storms (thunderstorm, hail)	56.00%	14
Tornado	8.00%	2
Wildfire	0.00%	0
Winter Storm	56.00%	14
None	0.00%	0
Other (please specify)	16.00%	4
Total Respondents: 25		

#	OTHER (PLEASE SPECIFY)	DATE
1	Known and unknown Hazardous waste from nearby huge landfill	12/9/2024 12:17 PM
2	Terrible air quality due to the massive landfill. We can't breathe!	12/9/2024 10:42 AM
3	Landfill emissions in the air	12/9/2024 10:01 AM
4	The dump	12/1/2024 12:58 PM

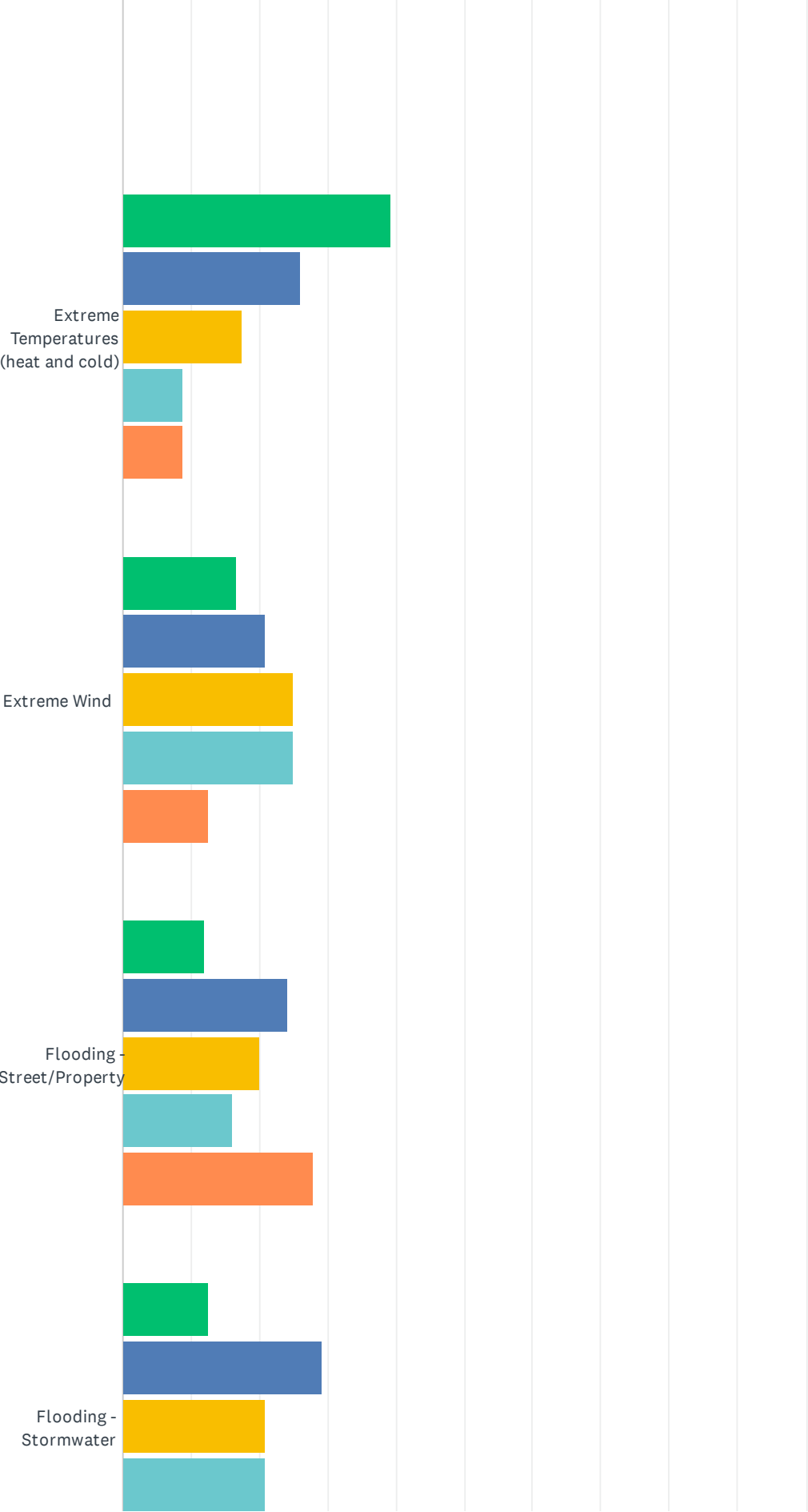


Q2 How concerned are you about the following hazards in Seneca County? Please check one for each hazard.

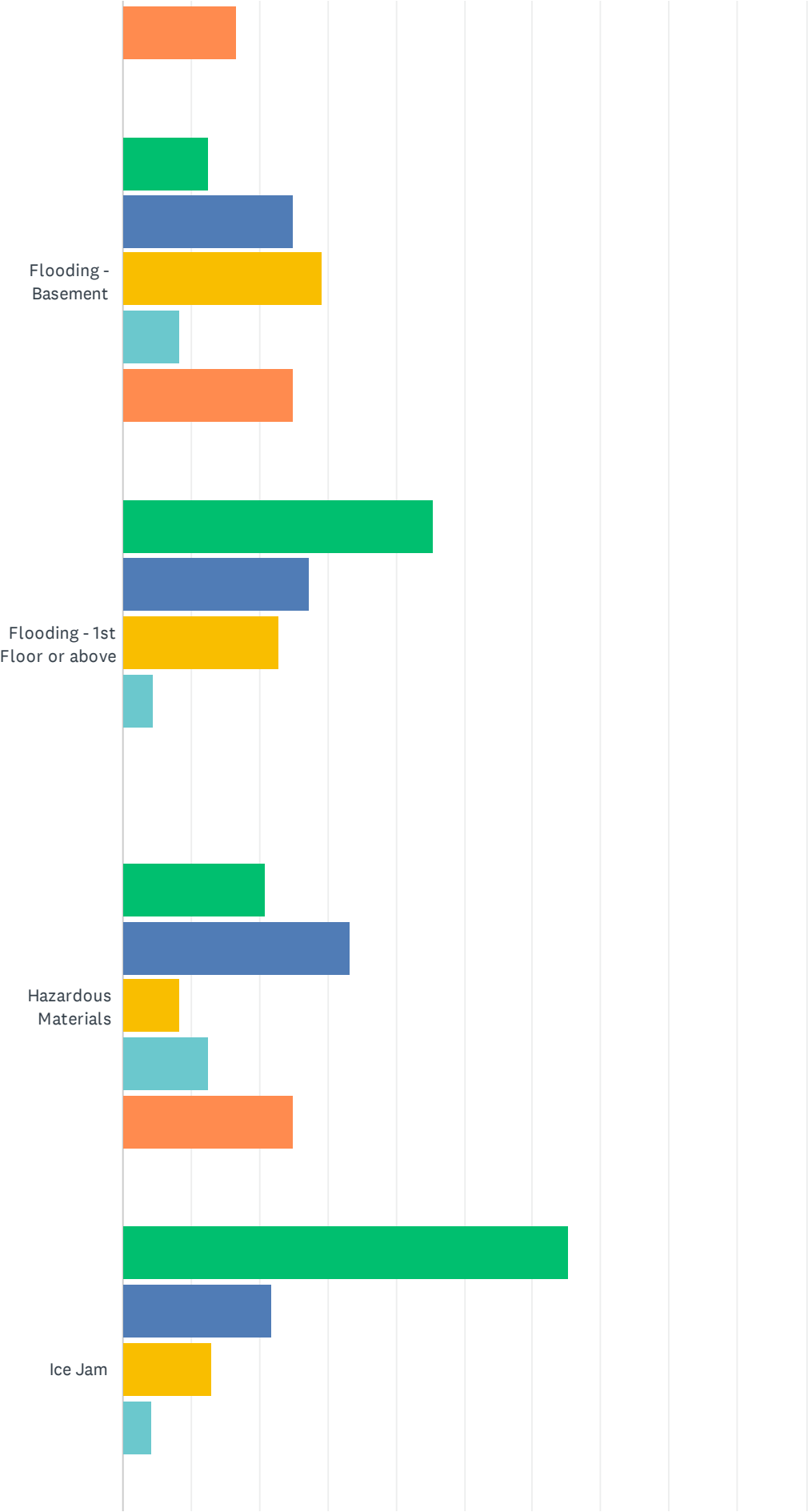
Answered: 25    Skipped: 0



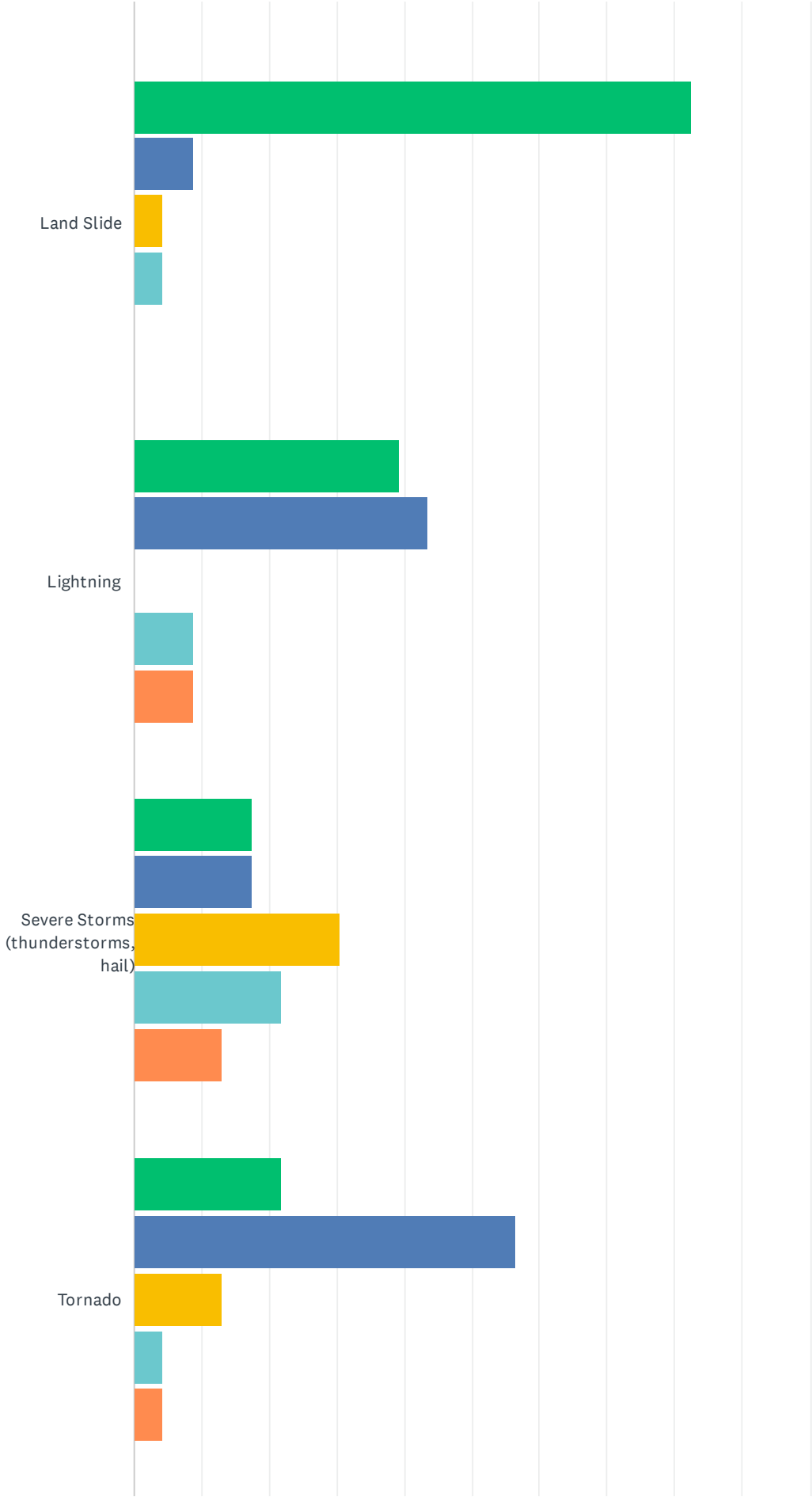
Seneca County Hazard Mitigation Plan Update - Public Survey



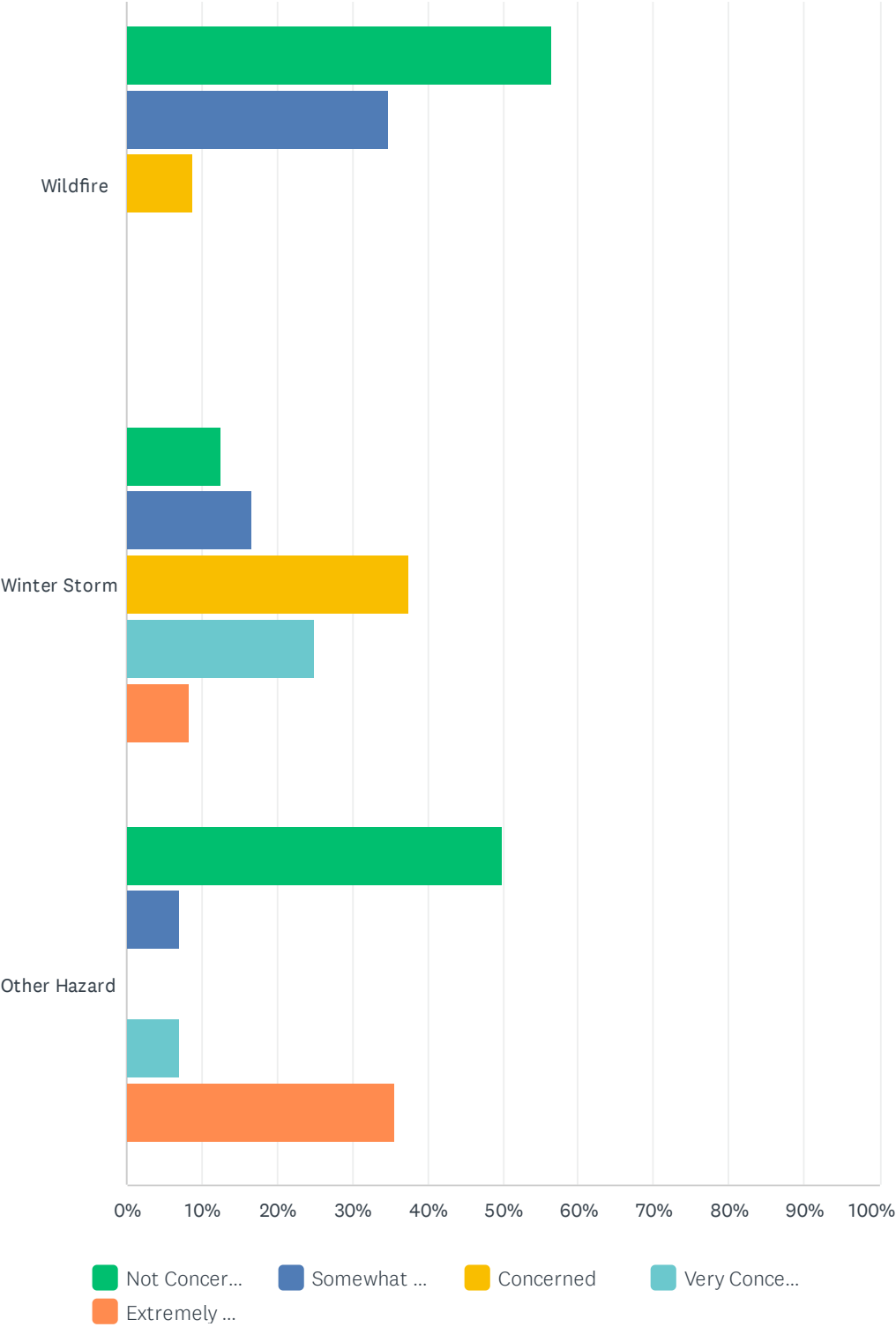
Seneca County Hazard Mitigation Plan Update - Public Survey



Seneca County Hazard Mitigation Plan Update - Public Survey



Seneca County Hazard Mitigation Plan Update - Public Survey





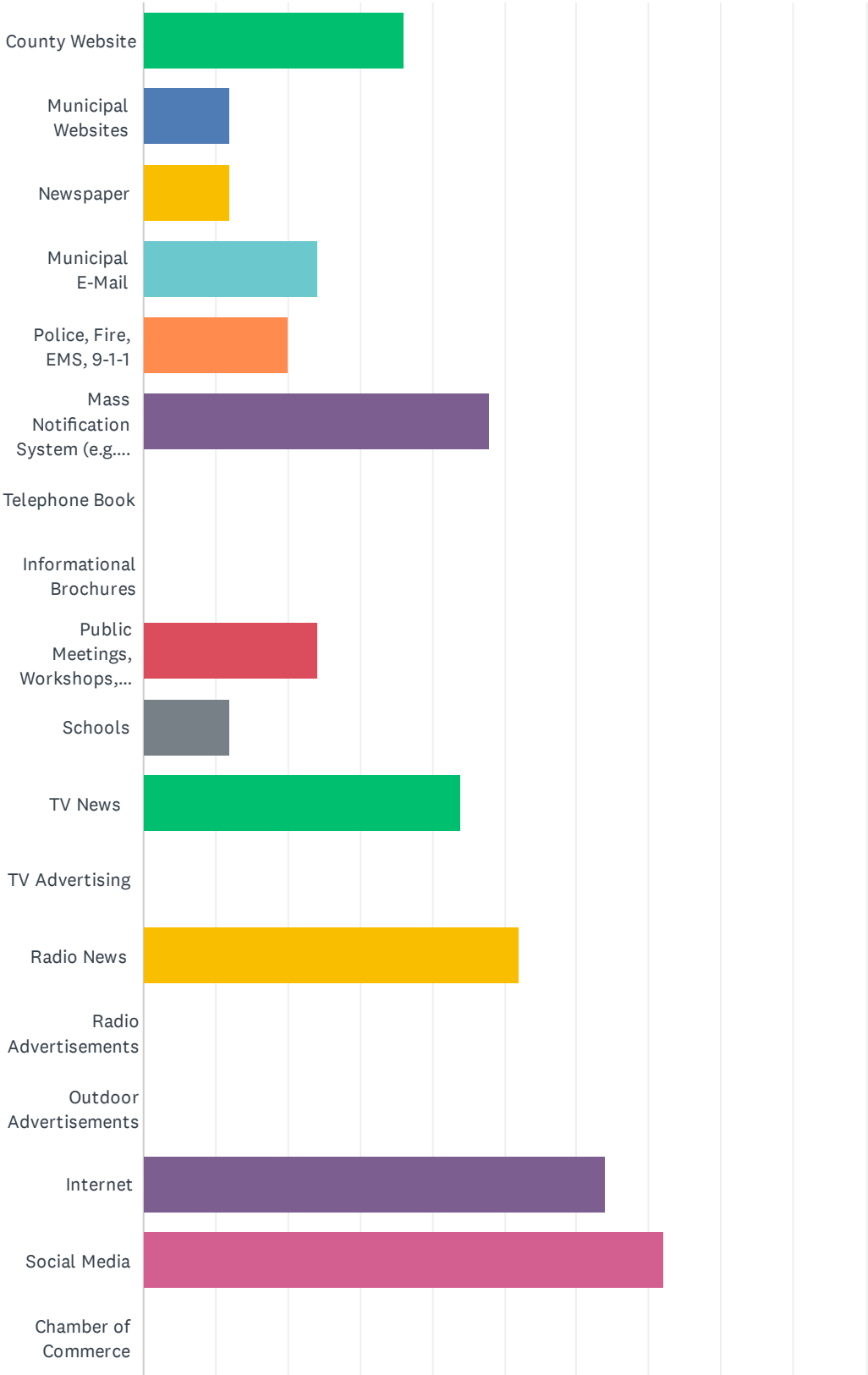
# Seneca County Hazard Mitigation Plan Update - Public Survey

	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED	VERY CONCERNED	EXTREMELY CONCERNED	TOTAL RESPONDENTS
Dam Failure	79.17% 19	16.67% 4	4.17% 1	0.00% 0	0.00% 0	24
Disease/Pandemic Outbreak	12.00% 3	44.00% 11	12.00% 3	12.00% 3	20.00% 5	25
Drought	33.33% 8	37.50% 9	20.83% 5	4.17% 1	4.17% 1	24
Earthquake	86.96% 20	8.70% 2	4.35% 1	0.00% 0	0.00% 0	23
Extreme Temperatures (heat and cold)	39.13% 9	26.09% 6	17.39% 4	8.70% 2	8.70% 2	23
Extreme Wind	16.67% 4	20.83% 5	25.00% 6	25.00% 6	12.50% 3	24
Flooding - Street/Property	12.00% 3	24.00% 6	20.00% 5	16.00% 4	28.00% 7	25
Flooding - Stormwater	12.50% 3	29.17% 7	20.83% 5	20.83% 5	16.67% 4	24
Flooding - Basement	12.50% 3	25.00% 6	29.17% 7	8.33% 2	25.00% 6	24
Flooding - 1st Floor or above	45.45% 10	27.27% 6	22.73% 5	4.55% 1	0.00% 0	22
Hazardous Materials	20.83% 5	33.33% 8	8.33% 2	12.50% 3	25.00% 6	24
Ice Jam	65.22% 15	21.74% 5	13.04% 3	4.35% 1	0.00% 0	23
Land Slide	82.61% 19	8.70% 2	4.35% 1	4.35% 1	0.00% 0	23
Lightning	39.13% 9	43.48% 10	0.00% 0	8.70% 2	8.70% 2	23
Severe Storms (thunderstorms, hail)	17.39% 4	17.39% 4	30.43% 7	21.74% 5	13.04% 3	23
Tornado	21.74% 5	56.52% 13	13.04% 3	4.35% 1	4.35% 1	23
Wildfire	56.52% 13	34.78% 8	8.70% 2	0.00% 0	0.00% 0	23
Winter Storm	12.50% 3	16.67% 4	37.50% 9	25.00% 6	8.33% 2	24
Other Hazard	50.00% 7	7.14% 1	0.00% 0	7.14% 1	35.71% 5	14

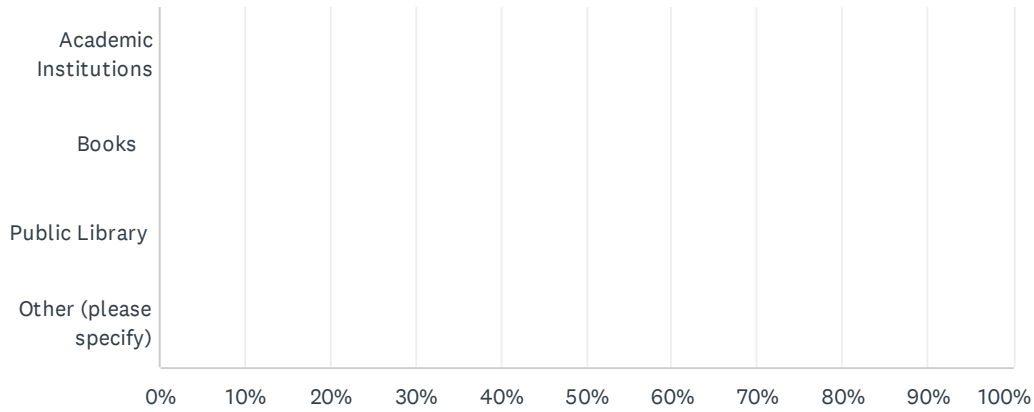
#	OTHER (PLEASE SPECIFY)	DATE
1	Toxic fumes from the dump aka SMI	12/12/2024 9:36 AM
2	Unknown hazards fro landfill	12/9/2024 12:17 PM
3	The landfills impact on our air, water, farmland and quality of life	12/9/2024 10:42 AM
4	health concerns regarding toxins from landfill on edge of town	12/9/2024 10:01 AM

Q3 How do you receive your information concerning a disaster? Check all that apply.

Answered: 25 Skipped: 0



## Seneca County Hazard Mitigation Plan Update - Public Survey



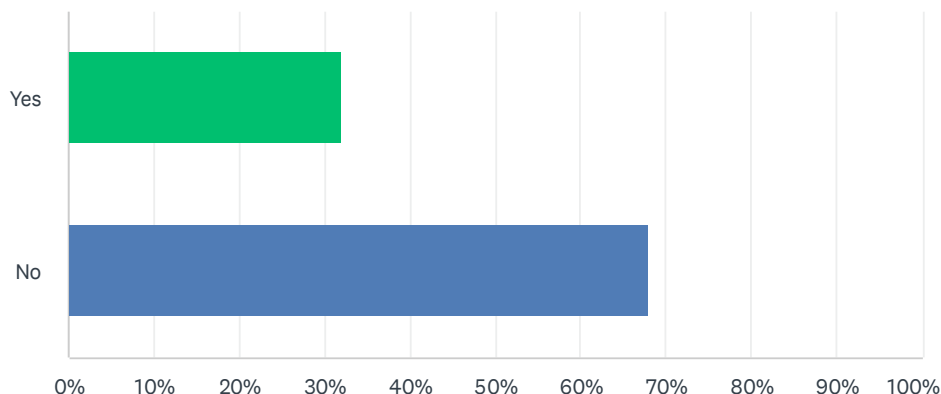
ANSWER CHOICES	RESPONSES	
County Website	36.00%	9
Municipal Websites	12.00%	3
Newspaper	12.00%	3
Municipal E-Mail	24.00%	6
Police, Fire, EMS, 9-1-1	20.00%	5
Mass Notification System (e.g., NY Alert)	48.00%	12
Telephone Book	0.00%	0
Informational Brochures	0.00%	0
Public Meetings, Workshops, Public Awareness Events	24.00%	6
Schools	12.00%	3
TV News	44.00%	11
TV Advertising	0.00%	0
Radio News	52.00%	13
Radio Advertisements	0.00%	0
Outdoor Advertisements	0.00%	0
Internet	64.00%	16
Social Media	72.00%	18
Chamber of Commerce	0.00%	0
Academic Institutions	0.00%	0
Books	0.00%	0
Public Library	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 25		

Seneca County Hazard Mitigation Plan Update - Public Survey

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

**Q4 In the past, has your home been damaged by a hazard event (i.e., flood waters entering the first floor of your home or pipes freezing during periods of cold temperatures).**

Answered: 25 Skipped: 0

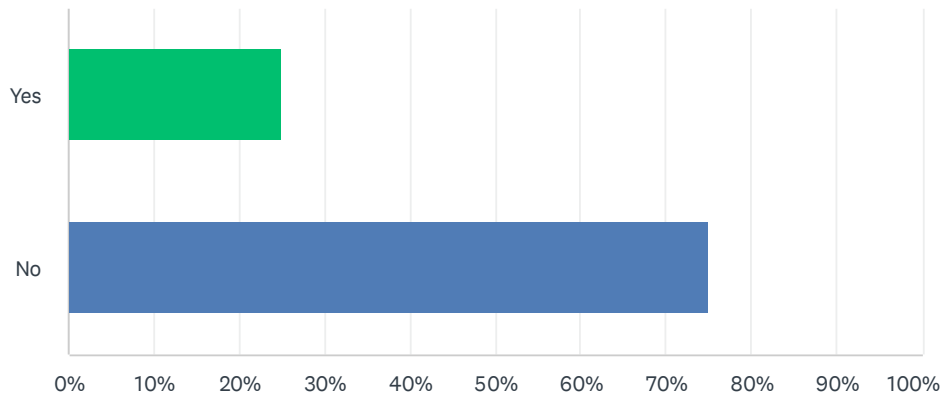


ANSWER CHOICES	RESPONSES	
Yes	32.00%	8
No	68.00%	17
TOTAL		25

#	PLEASE EXPLAIN THE TYPE OF DAMAGE SUSTAINED AND WHEN IT OCCURRED.	DATE
1	Spring of 2022 there were heavy rains, water was pumped out of neighboring properties and onto our property, which caused severe flooding of our property, including our basement, garage, and inground pool that will now need to be replaced.	1/18/2025 8:37 PM
2	My pipes froze twice, thankfully they did not crack and cause any additional damage to my home. There is are often trucks with yellow flashing lights on my street due to a water line break or flooding at the nearest cross street. The very back of my yard always has water in it when it drains. Apparently there used to be a natural flow of water that went out to a drain at the street behind me. But it was disrupted when a former county manager changed the grading on his property to build garage on his home.	12/26/2024 4:05 PM
3	Pipes freeze	12/26/2024 12:12 PM
4	Flood	12/21/2024 10:00 AM
5	Flooding from rainstorm, street overflow	12/9/2024 12:17 PM
6	Basement floods for several reasons - 1) sewer and storm drain system is 100+ years old; the entire network needs to be completely reconfigured; 2) storms are now stronger due to climate change; 3) houses on this street situated on low ground We can no longer use basement for storage at all and the washer/dryer, furnace, water heater all have been raised on concrete blocks and we have sump pumps always hooked up even during winter. Snow melt and heavy rain causes flooding as well as spring/summer storms Pipes froze one winter	11/25/2024 1:20 PM

Q5 If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?

Answered: 16 Skipped: 9

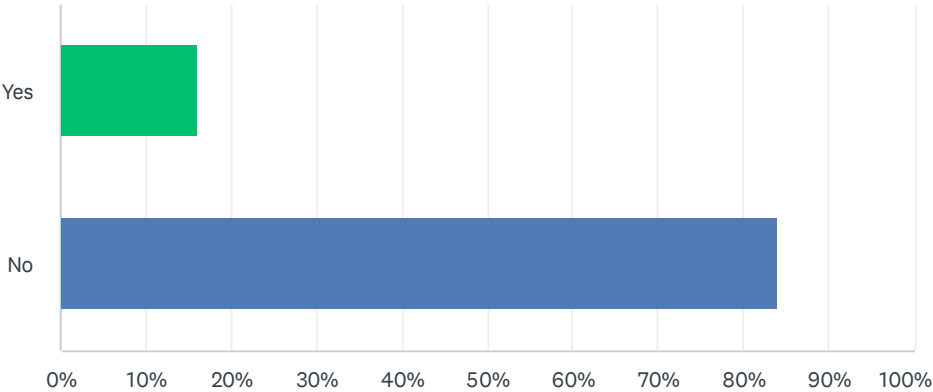


ANSWER CHOICES	RESPONSES	
Yes	25.00%	4
No	75.00%	12
TOTAL		16



Q6 To the best of your knowledge, is your property located in a designated floodplain? If you do not know, click here to find out.

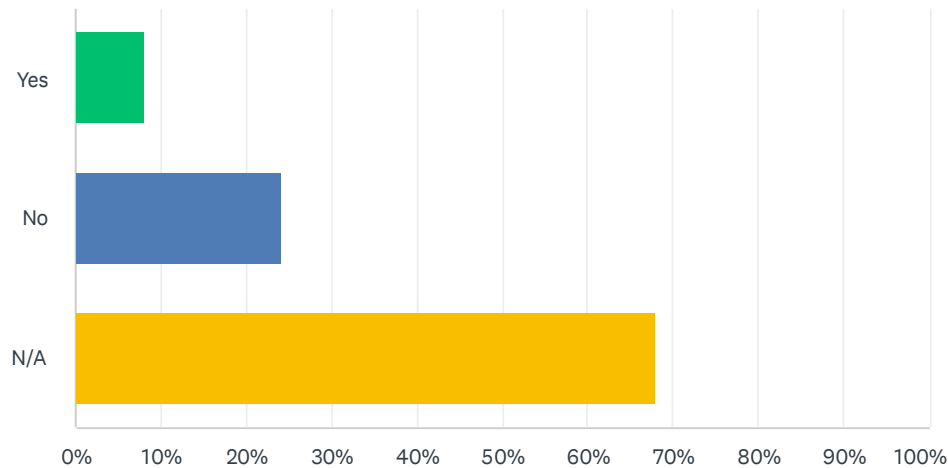
Answered: 25    Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	16.00%	4
No	84.00%	21
TOTAL		25

Q7 If your property is in the floodplain, do you have flood insurance?

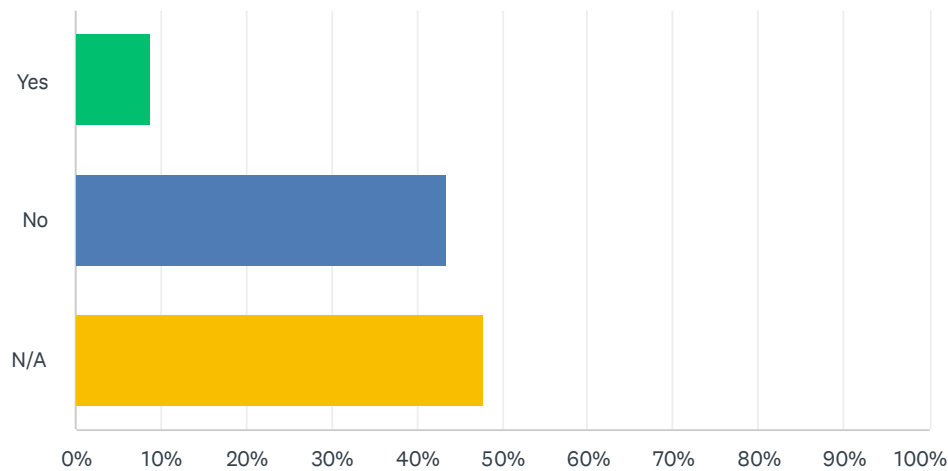
Answered: 25    Skipped: 0



ANSWER CHOICES		RESPONSES	
Yes		8.00%	2
No		24.00%	6
N/A		68.00%	17
TOTAL			25

Q8 If your property is located outside of the floodplain, do you have flood insurance?

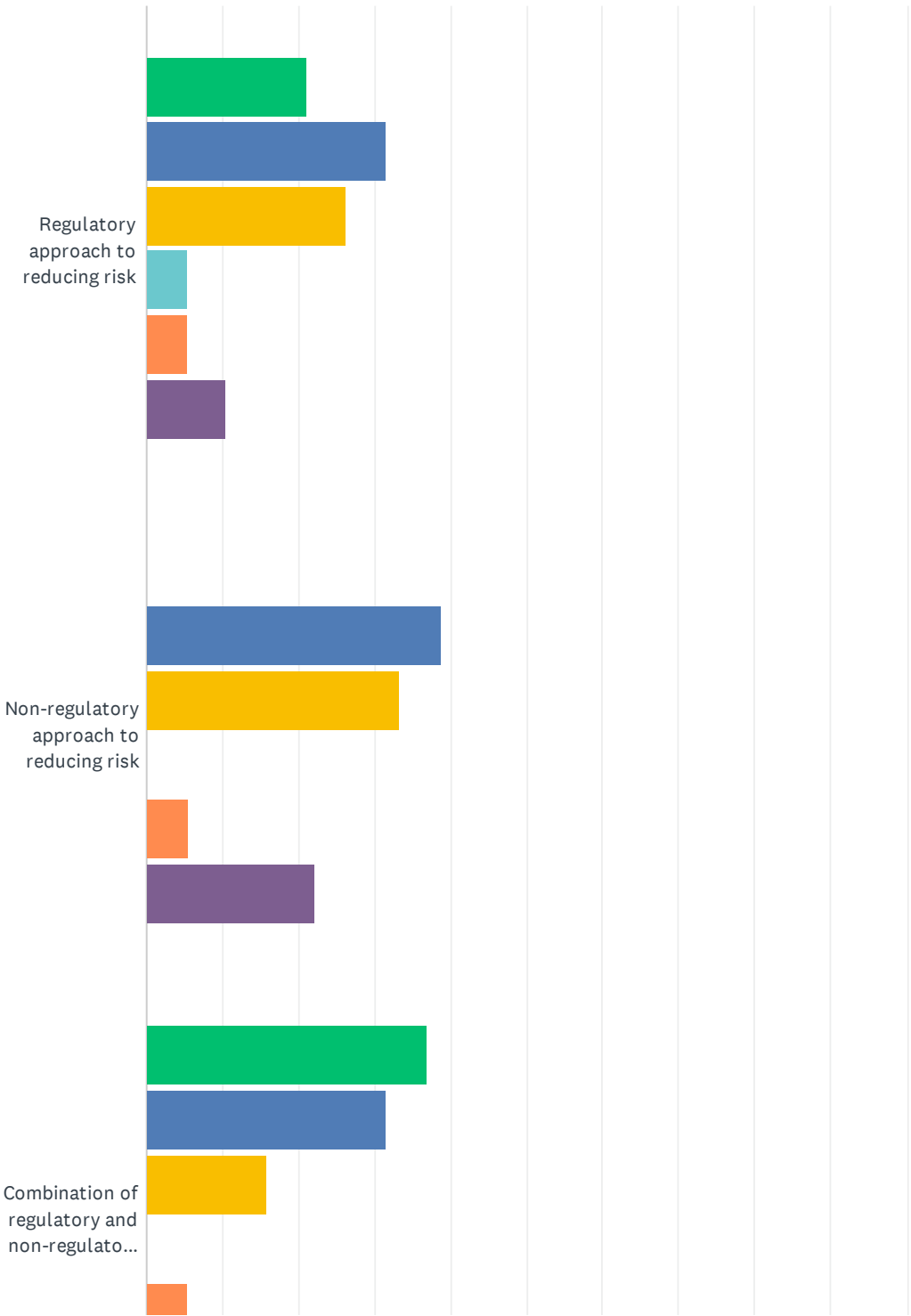
Answered: 23    Skipped: 2



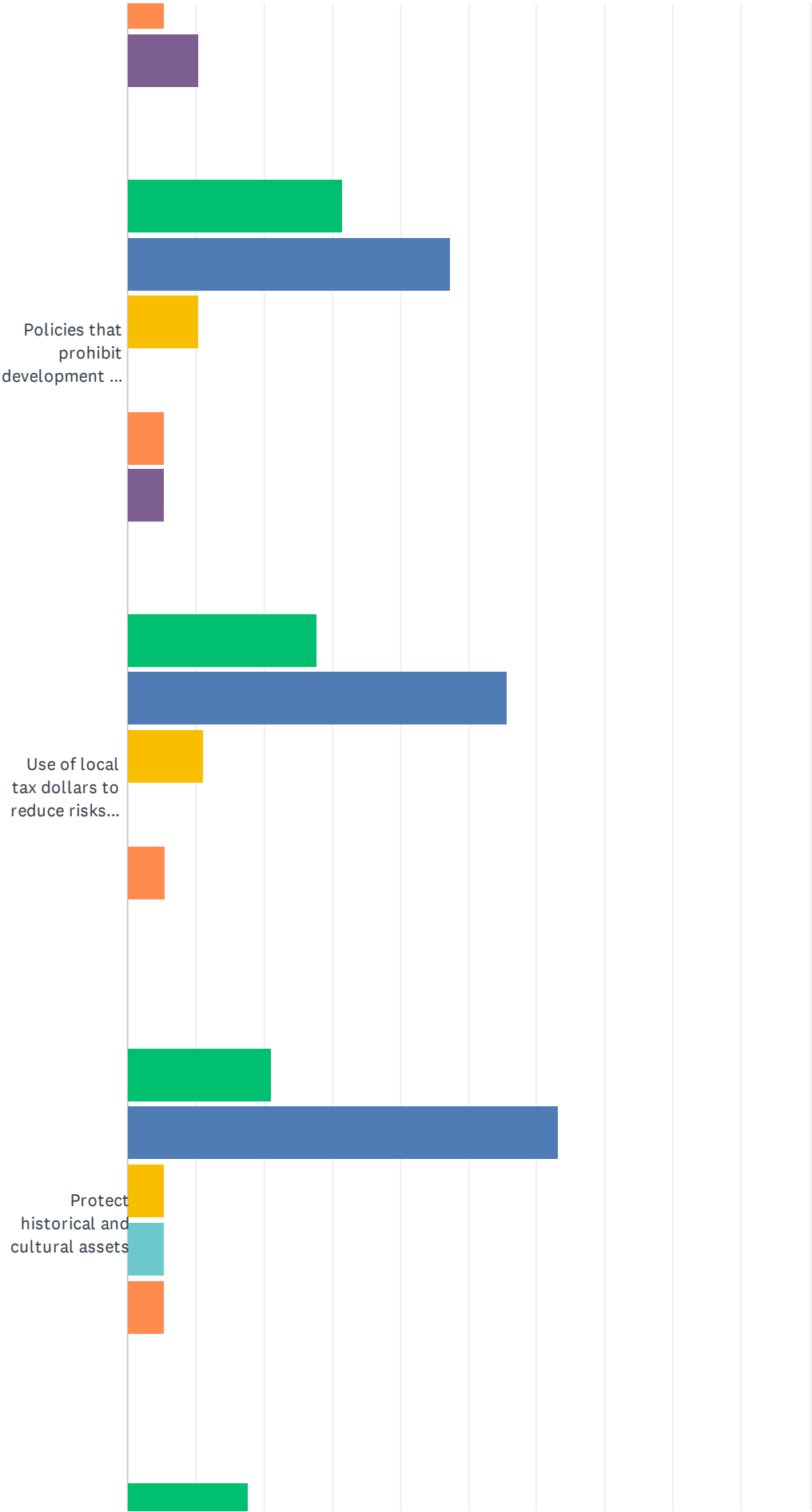
ANSWER CHOICES		RESPONSES	
Yes		8.70%	2
No		43.48%	10
N/A		47.83%	11
TOTAL			23

Q9 A number of activities can reduce your community's risk from natural hazards. These activities can be both regulatory and non-regulatory. Please check the box that best represents your opinion on the following strategies to reduce the risk and loss associated with natural hazards in Seneca County.

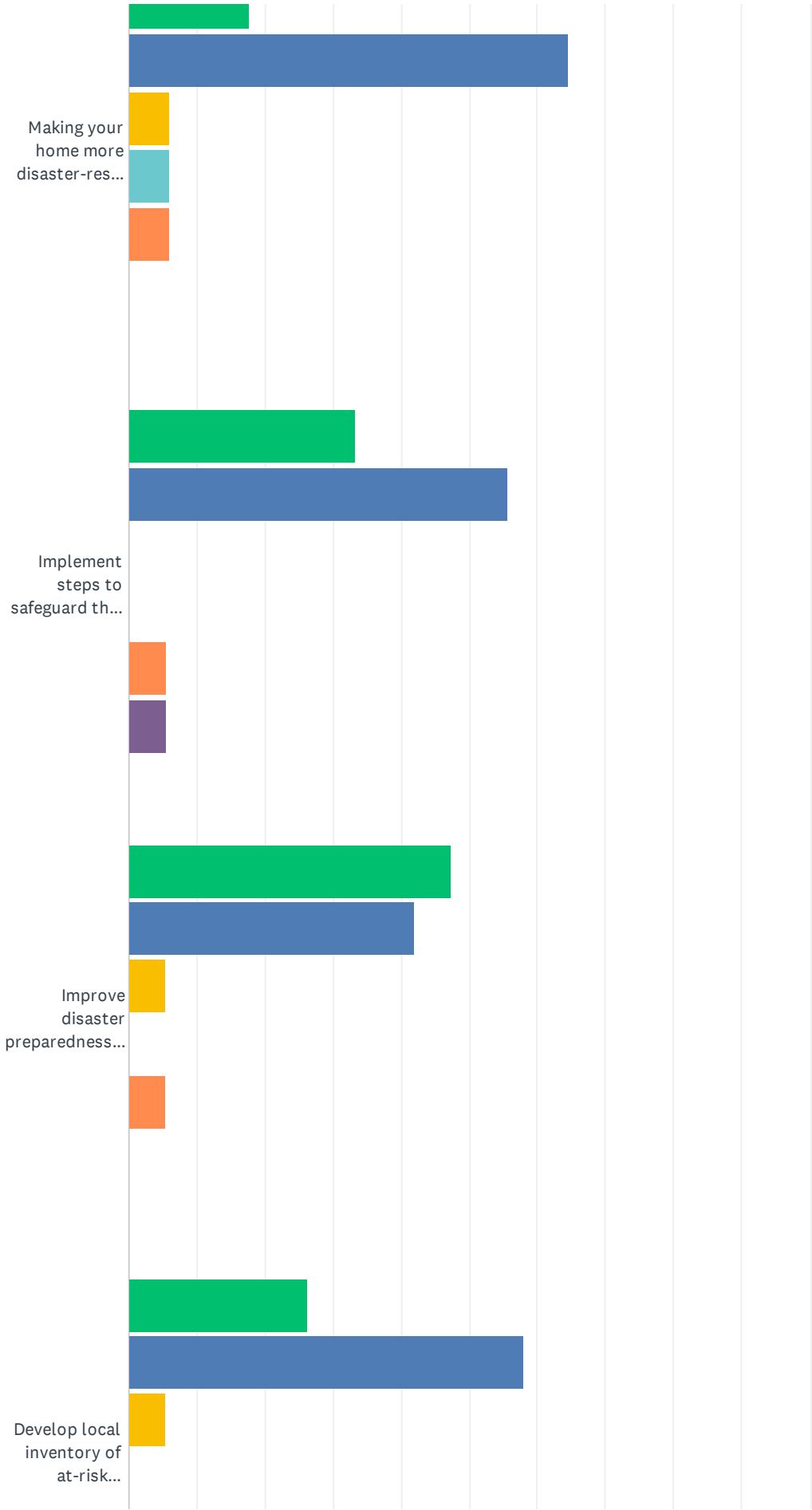
Answered: 19    Skipped: 6



Seneca County Hazard Mitigation Plan Update - Public Survey

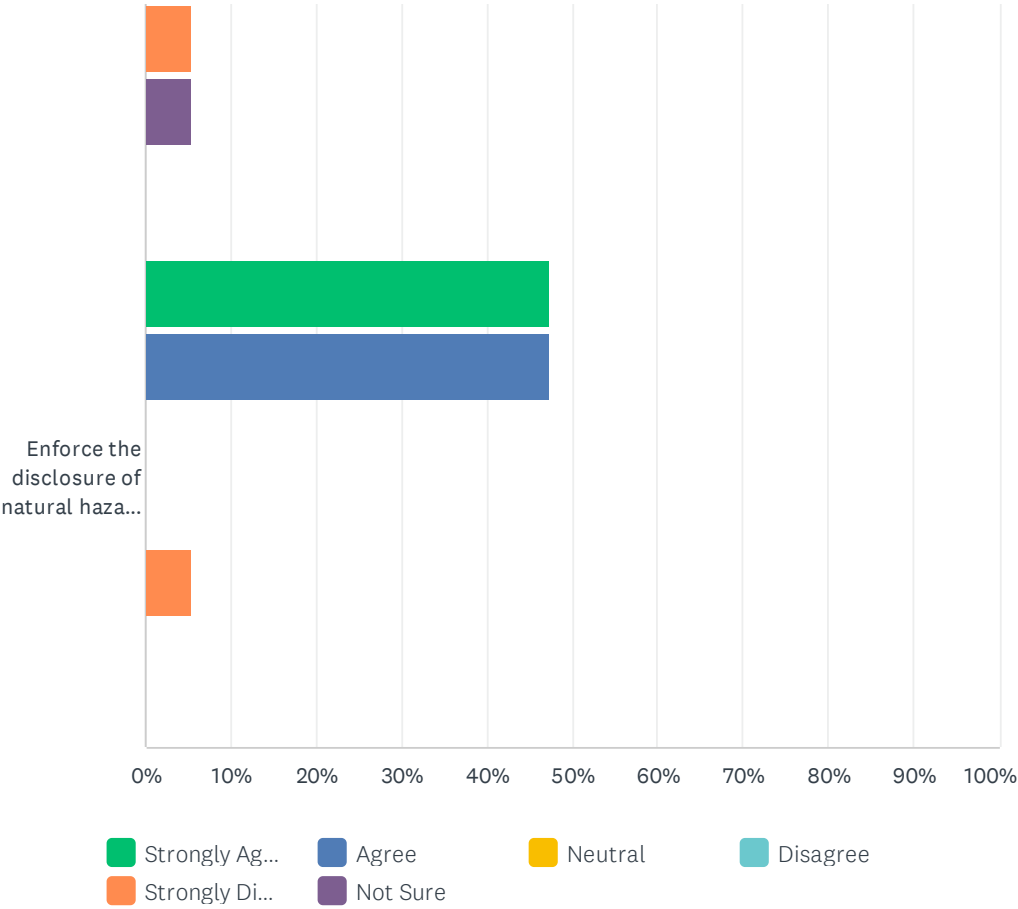


Seneca County Hazard Mitigation Plan Update - Public Survey





Seneca County Hazard Mitigation Plan Update - Public Survey



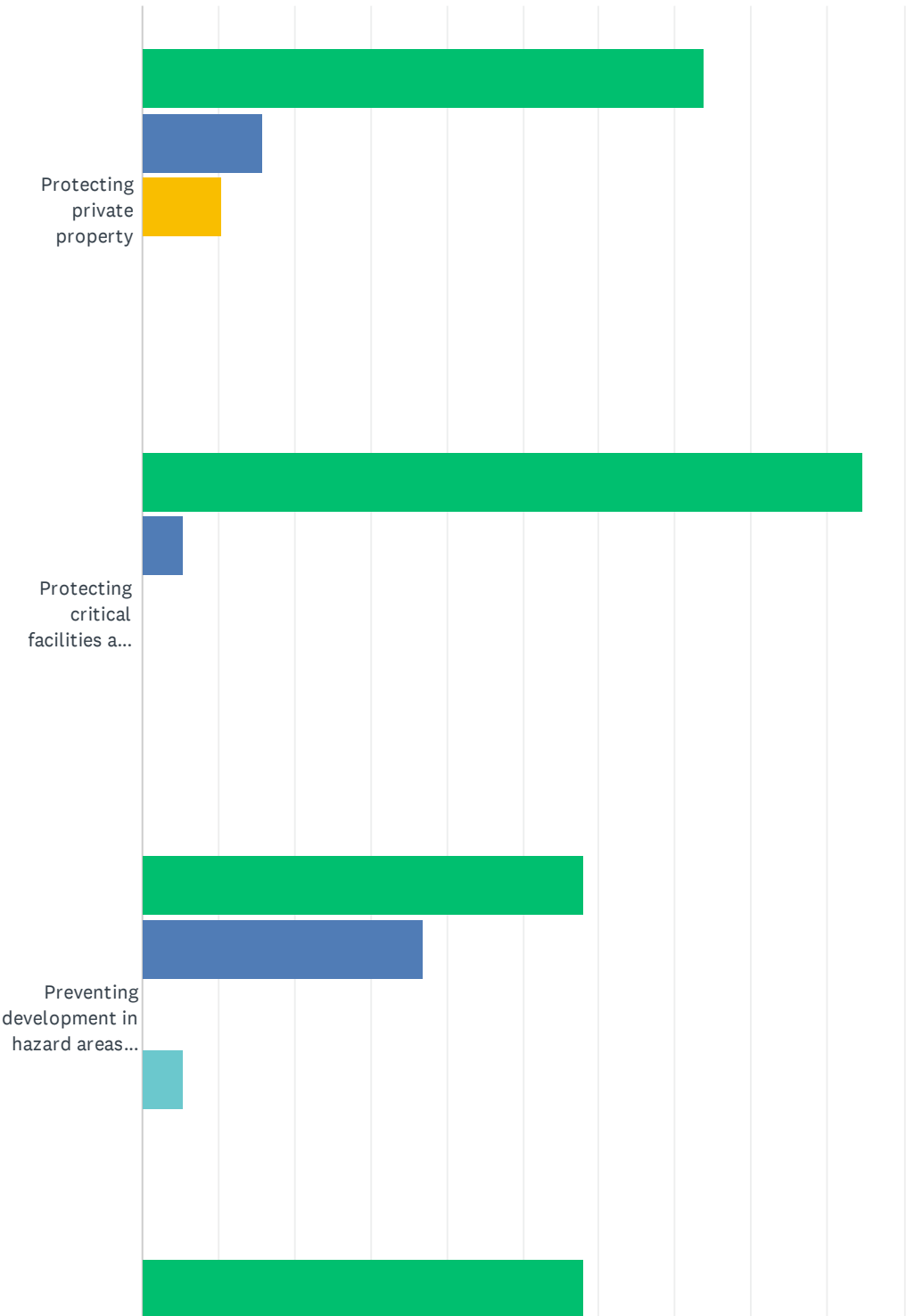
# Seneca County Hazard Mitigation Plan Update - Public Survey

	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE	STRONGLY DISAGREE	NOT SURE	TOTAL
Regulatory approach to reducing risk	21.05% 4	31.58% 6	26.32% 5	5.26% 1	5.26% 1	10.53% 2	19
Non-regulatory approach to reducing risk	0.00% 0	38.89% 7	33.33% 6	0.00% 0	5.56% 1	22.22% 4	18
Combination of regulatory and non-regulatory approaches to reducing risk	36.84% 7	31.58% 6	15.79% 3	0.00% 0	5.26% 1	10.53% 2	19
Policies that prohibit development in areas subject to natural hazards	31.58% 6	47.37% 9	10.53% 2	0.00% 0	5.26% 1	5.26% 1	19
Use of local tax dollars to reduce risks and losses from natural hazards	27.78% 5	55.56% 10	11.11% 2	0.00% 0	5.56% 1	0.00% 0	18
Protect historical and cultural assets	21.05% 4	63.16% 12	5.26% 1	5.26% 1	5.26% 1	0.00% 0	19
Making your home more disaster-resilient	17.65% 3	64.71% 11	5.88% 1	5.88% 1	5.88% 1	0.00% 0	17
Implement steps to safeguard the local economy following a disaster	33.33% 6	55.56% 10	0.00% 0	0.00% 0	5.56% 1	5.56% 1	18
Improve disaster preparedness of local schools	47.37% 9	42.11% 8	5.26% 1	0.00% 0	5.26% 1	0.00% 0	19
Develop local inventory of at-risk buildings and infrastructure	26.32% 5	57.89% 11	5.26% 1	0.00% 0	5.26% 1	5.26% 1	19
Enforce the disclosure of natural hazard risks during real estate transactions	47.37% 9	47.37% 9	0.00% 0	0.00% 0	5.26% 1	0.00% 0	19

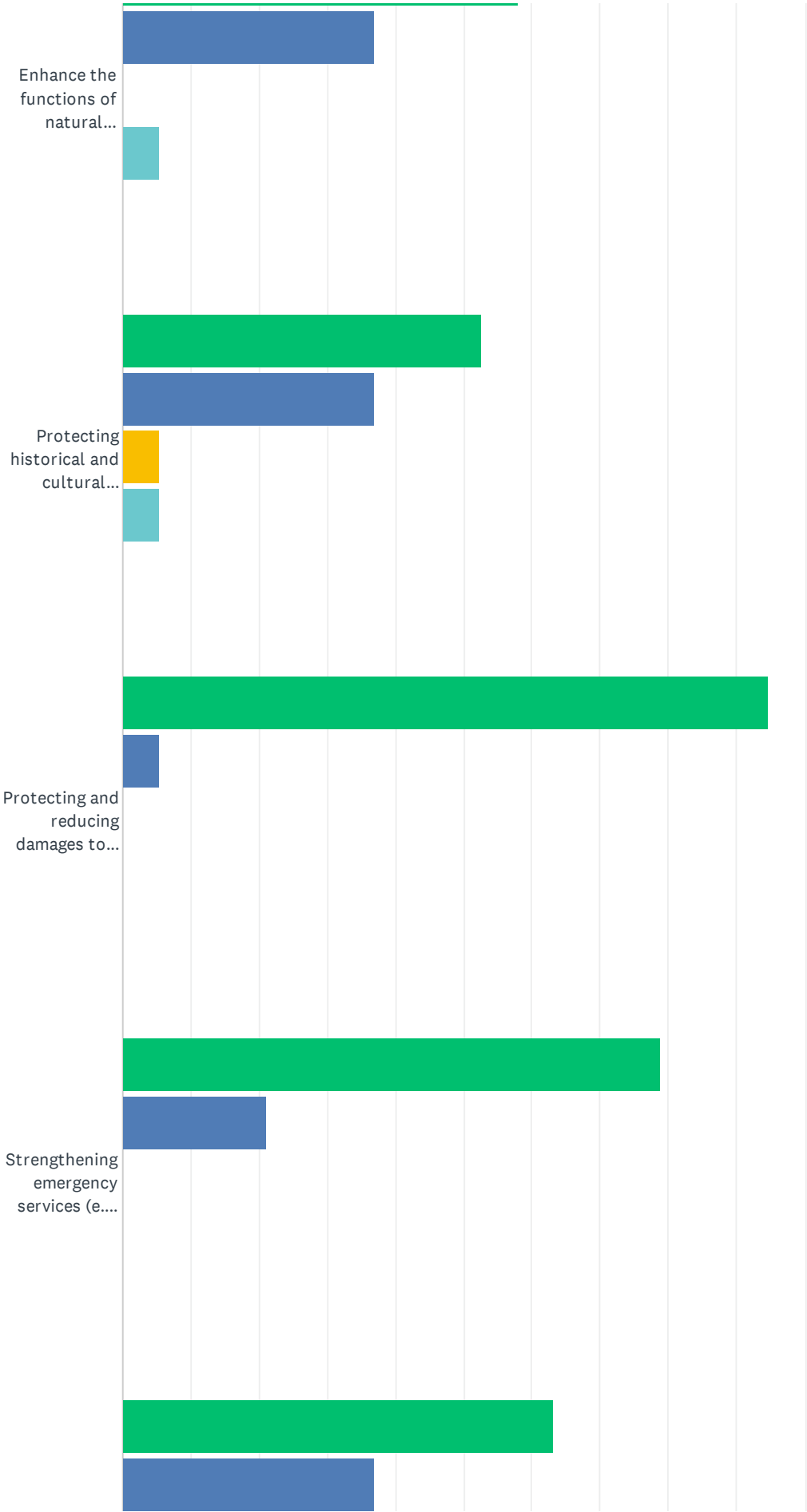
#	OTHER (PLEASE SPECIFY)	DATE
1	enforce violations on local landfill with heavy fines	12/9/2024 10:16 AM

Q10 Natural hazards can have a significant impact on a community, but planning for these events can help lessen the impacts. The following statements will help us determine the priorities of our residents regarding planning for natural hazards in Seneca County. Please tell us how important each one is to you.

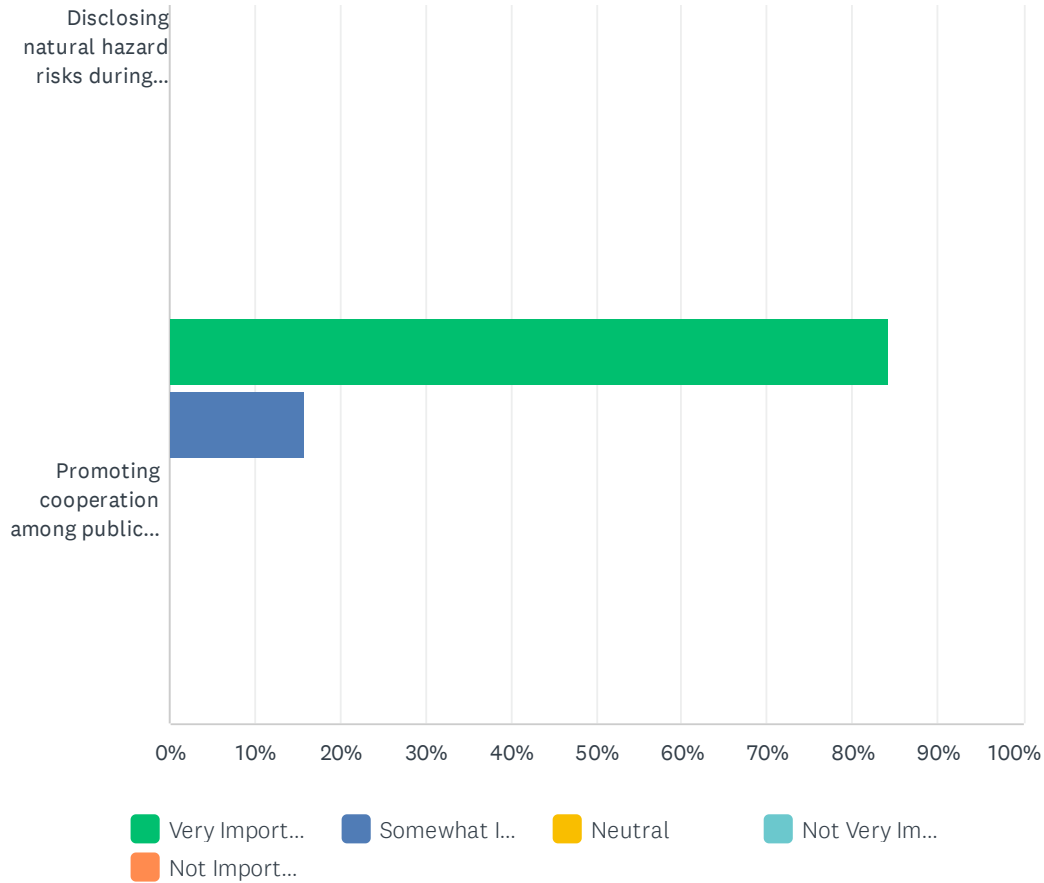
Answered: 19    Skipped: 6



Seneca County Hazard Mitigation Plan Update - Public Survey



## Seneca County Hazard Mitigation Plan Update - Public Survey



	VERY IMPORTANT	SOMEWHAT IMPORTANT	NEUTRAL	NOT VERY IMPORTANT	NOT IMPORTANT	TOTAL
Protecting private property	73.68% 14	15.79% 3	10.53% 2	0.00% 0	0.00% 0	19
Protecting critical facilities and community lifelines	94.74% 18	5.26% 1	0.00% 0	0.00% 0	0.00% 0	19
Preventing development in hazard areas (e.g., restrict building in the floodplain)	57.89% 11	36.84% 7	0.00% 0	5.26% 1	0.00% 0	19
Enhance the functions of natural features (e.g., streams, wetlands)	57.89% 11	36.84% 7	0.00% 0	5.26% 1	0.00% 0	19
Protecting historical and cultural landmarks	52.63% 10	36.84% 7	5.26% 1	5.26% 1	0.00% 0	19
Protecting and reducing damages to utilities	94.74% 18	5.26% 1	0.00% 0	0.00% 0	0.00% 0	19
Strengthening emergency services (e.g., police, fire, EMS)	78.95% 15	21.05% 4	0.00% 0	0.00% 0	0.00% 0	19
Disclosing natural hazard risks during real estate transactions	63.16% 12	36.84% 7	0.00% 0	0.00% 0	0.00% 0	19
Promoting cooperation among public agencies, residents, non-profit organizations, and local businesses	84.21% 16	15.79% 3	0.00% 0	0.00% 0	0.00% 0	19

#	OTHER (PLEASE SPECIFY)	DATE
1	local landfill continues to pose danger in many ways to population, streams, water	12/9/2024 10:16 AM

contamination, air pollution, cancer risks

---



**Q11 Please identify any specific vulnerabilities that you are aware of in your city/town/village (e.g., flood-prone areas or specific properties, critical facilities that lack backup power, etc.). Please list street names and other specific identifiers if possible.**

Answered: 9 Skipped: 16

#	RESPONSES	DATE
1	The storm drains are ineffective and there are no ditches. There is not proper grading to divert water to the storm drain systems. West Elisha St.	1/18/2025 8:43 PM
2	The lack of knowledge in Seneca County Emergency Management and minimal education levels in that office are very concerning to me. They leave grant money sitting on the table and refuse to take initiatives to improve the community and strengthen it for any emergency.	1/4/2025 1:03 PM
3	Stream flooding and pollution	12/21/2024 10:06 AM
4	We are extremely concerned about the lack of protection for the citizens, especially the vulnerable children from Seneca county in regard to the largest landfill in this state, which is owned by an out of state entity. We are also concerned about the flooding of our street from poor drainage and storm sewer. When we get hard rain for a day, the drainage ditches are too shallow to contain the rain and run off from the street. We need a bigger drain and deeper ditches. We live at 49 West Wright Ave, Waterloo	12/9/2024 1:03 PM
5	The mega landfill impacts our air quality, our water sources, and our farmland. More trash equals a major decrease in the quality of life in Seneca County. People don't want to live or work near such a toxic monstrosity.	12/9/2024 11:01 AM
6	Seneca Meadows Landfill poses risks through by polluting our community. It is located withing 1 and 1/2 miles as the crow flies or the chemicals fall within several schools, playgrounds, ball fields, community center, stores, and residents in the villages of Waterloo and Seneca Falls. The smell is offensive and the emissions are dangerous. They are in violation of their agreement each and every time the odors float beyond their boundaries. The odors get trapped in our homes, and schools. Major health concerns especially for anyone that already suffers from asthma or other respiratory issues.	12/9/2024 10:16 AM
7	Old infrastructure, especially water and sewer	12/8/2024 10:04 PM
8	Solar farms all over local counties draw storms and tornados to our area.100 year old water and sewer lines are connected and can't accommodate all the homes on it. The current pipes are clay built and and crumbling.	11/25/2024 8:33 PM
9	Village of Waterloo has very old drainage lines. These are frequently overwhelmed which causes yard and street flooding as well as basement flooding in various areas throughout the village.	11/25/2024 1:36 PM

**Q12 Please identify any specific vulnerabilities that you are aware of in Seneca County outside of your city/town/village (e.g., flood-prone areas or specific properties, critical facilities that lack backup power, etc.). Please list the city/town/village, street names, and other specific identifiers if possible.**

Answered: 7   Skipped: 18

#	RESPONSES	DATE
1	The entire former village of Seneca Falls, The Village of Waterloo and any communities along the many overgrown creeks and gorges in the south end that occur due to lack of maintenance and follow up from the county.	1/4/2025 1:03 PM
2	Unknown	12/21/2024 10:06 AM
3	The mega landfill makes our area vulnerable because it is toxic and is emitting poisonous gases into the air.	12/9/2024 11:01 AM
4	Seneca Meadows Landfill is on the edge of two towns that suffer from its emissions. This area is now a cancer hub after enduring years of dangerous chemicals in our air!	12/9/2024 10:16 AM
5	N/A	12/8/2024 10:04 PM
6	Same as last question.	11/25/2024 8:33 PM
7	Many lakeshore residents are subject to flooding should we have a year with exceptionally high water levels.	11/25/2024 1:36 PM

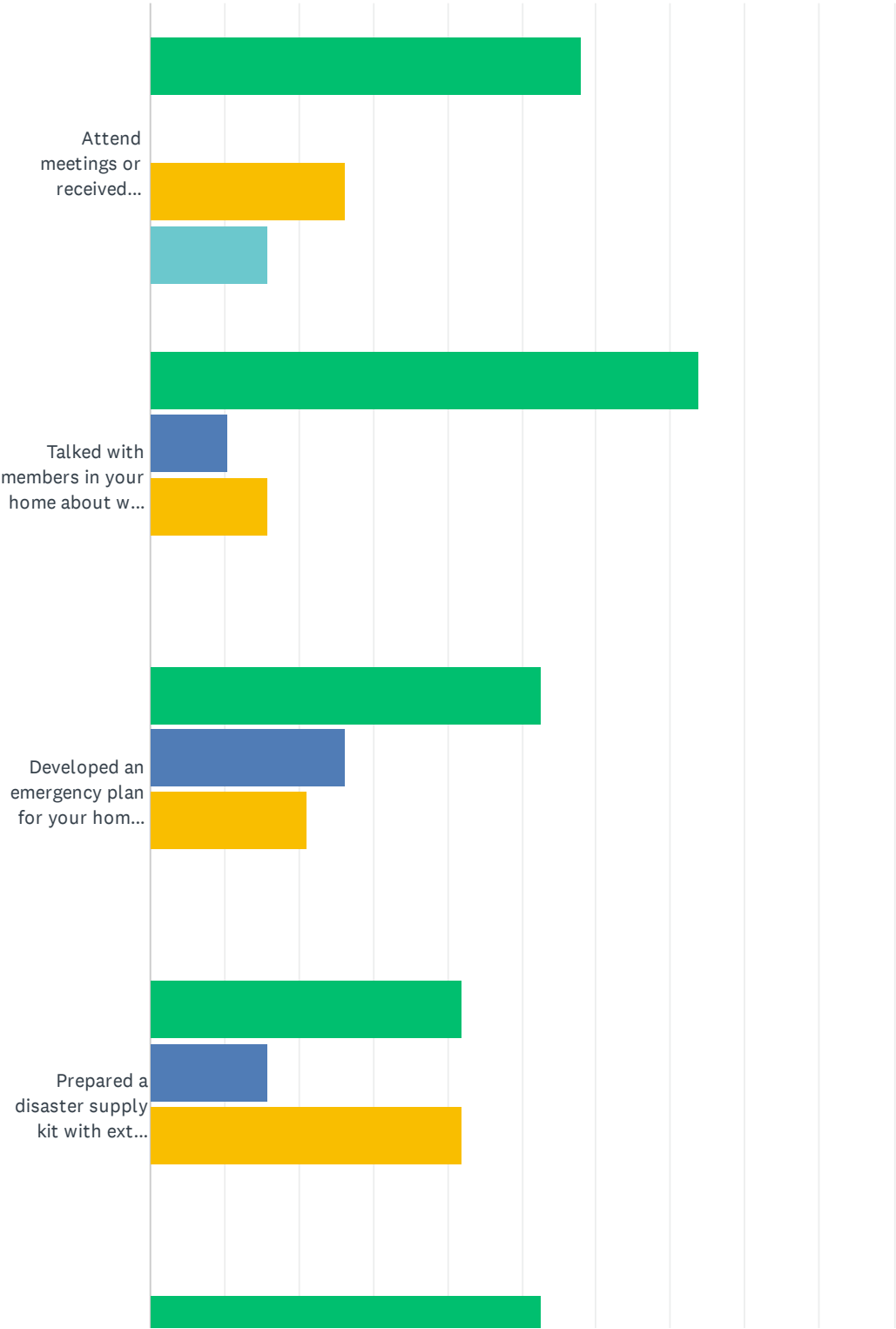
## Q13 Do you have any other comments, questions, or concerns regarding hazard mitigation in Seneca County?

Answered: 8   Skipped: 17

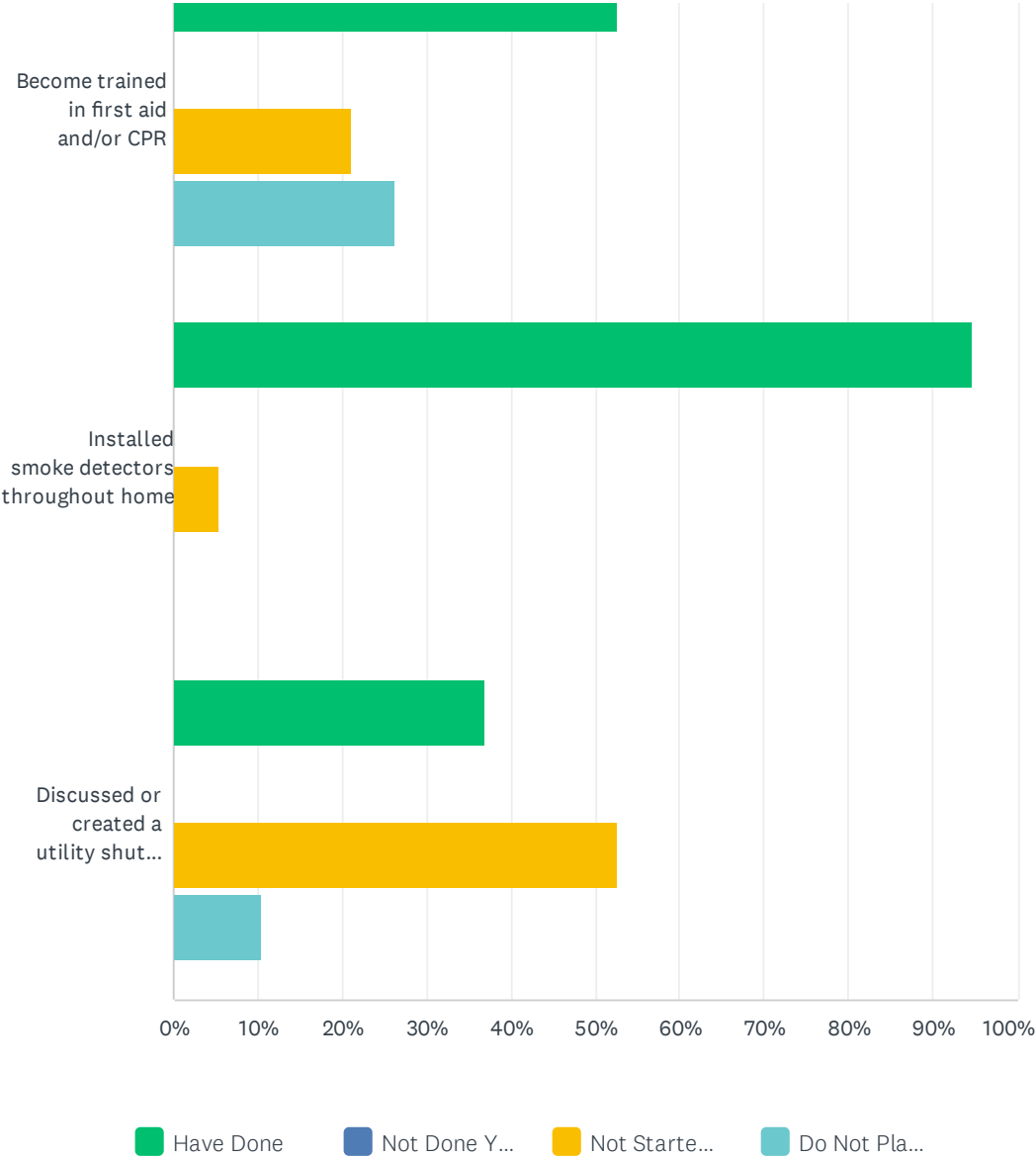
#	RESPONSES	DATE
1	The only Concern i have is mismanagement of emergency management in Seneca County.	1/4/2025 1:03 PM
2	No	12/21/2024 10:06 AM
3	We advocate closing the dump/SMI. It's been an environmental disaster and we fear the consequences of it on our and the public's health.	12/12/2024 9:42 AM
4	We have been concerned for years and years regarding the largest landfill in the state and it's proximity to our town, village and particularly, our schools. We have had no protections whatsoever from our county. In fact, there has been total disregard for many years concerning this mountain of waste and it's impact to our health and environment.	12/9/2024 1:03 PM
5	We need to close the landfill. That should be everyone's major concern.	12/9/2024 11:01 AM
6	The landfill is a danger to our environment and overall health and well-being.	12/9/2024 10:16 AM
7	We are considering moving out of seneca falls because the town says they can't afford to correct infrastructure that is devaluing our home every heavy rain.	11/25/2024 8:33 PM
8	No	11/25/2024 1:36 PM

Q14 In the following list, please check those activities that you have done in your home, plan to do in the near future, have not done, or are unable to do. Please check one answer for each activity that you or someone in your household have done.

Answered: 19    Skipped: 6



Seneca County Hazard Mitigation Plan Update - Public Survey



# Seneca County Hazard Mitigation Plan Update - Public Survey

	HAVE DONE	NOT DONE YET, BUT STARTED	NOT STARTED YET, BUT PLAN TO DO	DO NOT PLAN TO DO	TOTAL
Attend meetings or received information on natural disasters or emergency preparedness	57.89% 11	0.00% 0	26.32% 5	15.79% 3	19
Talked with members in your home about what to do in case of a natural disaster or emergency	73.68% 14	10.53% 2	15.79% 3	0.00% 0	19
Developed an emergency plan for your home and family in order to decide what everyone will do in the event of a disaster or emergency	52.63% 10	26.32% 5	21.05% 4	0.00% 0	19
Prepared a disaster supply kit with extra food, water, batteries, etc.	42.11% 8	15.79% 3	42.11% 8	0.00% 0	19
Become trained in first aid and/or CPR	52.63% 10	0.00% 0	21.05% 4	26.32% 5	19
Installed smoke detectors throughout home	94.74% 18	0.00% 0	5.26% 1	0.00% 0	19
Discussed or created a utility shutoff procedure in the event of a natural disaster	36.84% 7	0.00% 0	52.63% 10	10.53% 2	19



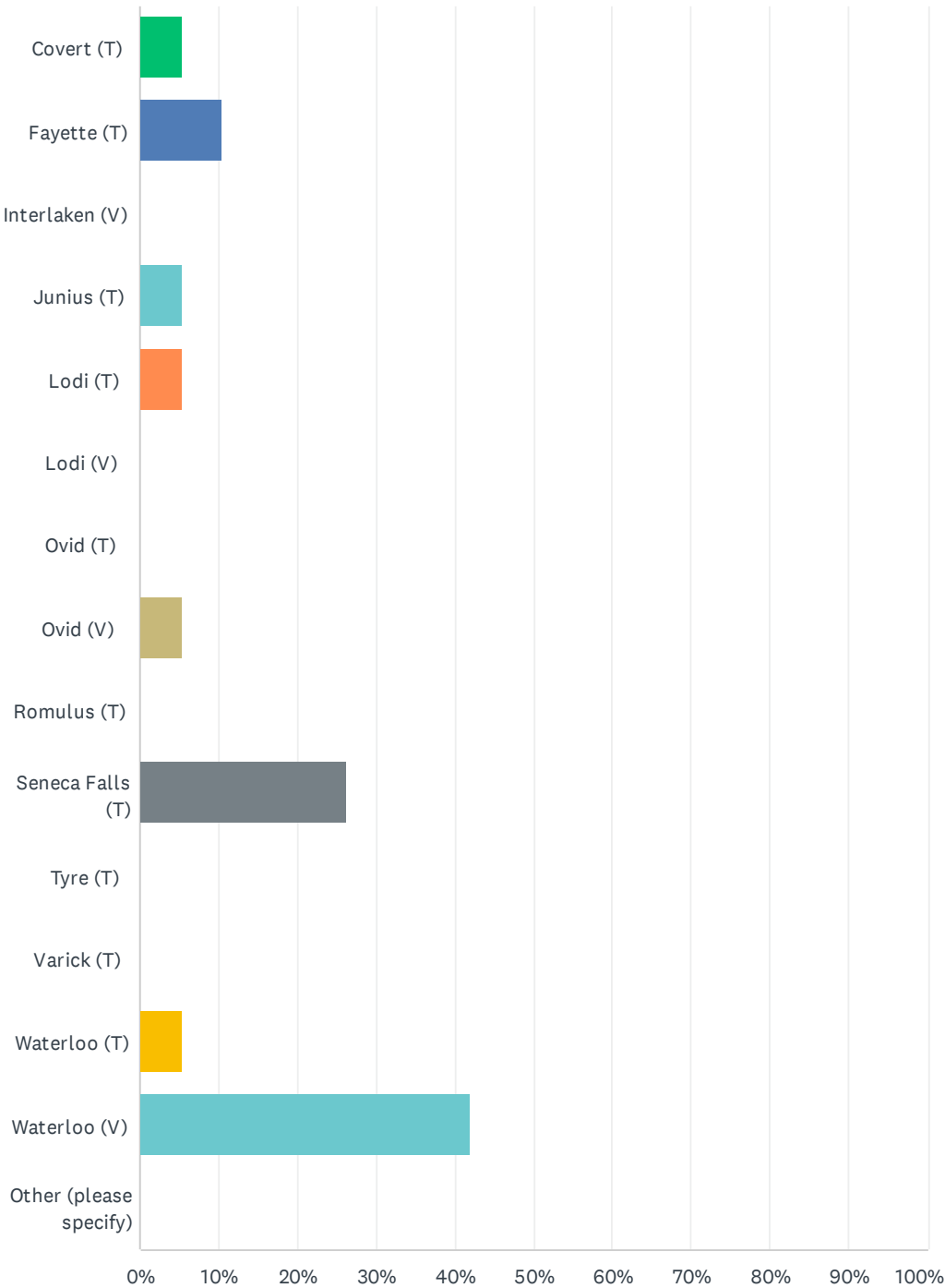
## Q15 Do you have any relevant questions or comments for Seneca County?

Answered: 9    Skipped: 16

#	RESPONSES	DATE
1	None that would be answered in an educated manner.	1/4/2025 1:03 PM
2	No	12/21/2024 10:06 AM
3	Would appreciate more public meetings on disaster response trainings.	12/12/2024 9:42 AM
4	Why has Seneca County not taken steps to protect its citizens from the hazardous waste from Mount Trashmore?	12/9/2024 1:03 PM
5	The landfill is a major concern. I don't feel safe with the size that it is. I feel that the air is not clean and we are not attracting quality people to this area because they don't want to live near a dump that smells all the time.	12/9/2024 11:01 AM
6	Seneca County is an unhealthy place to live due to the Landfill.	12/9/2024 10:16 AM
7	No	12/8/2024 10:04 PM
8	Do you know something we don't in regards to more natural disasters heading our way	11/25/2024 8:33 PM
9	No	11/25/2024 1:36 PM

Q16 Please indicate the municipality in which you live:

Answered: 19    Skipped: 6



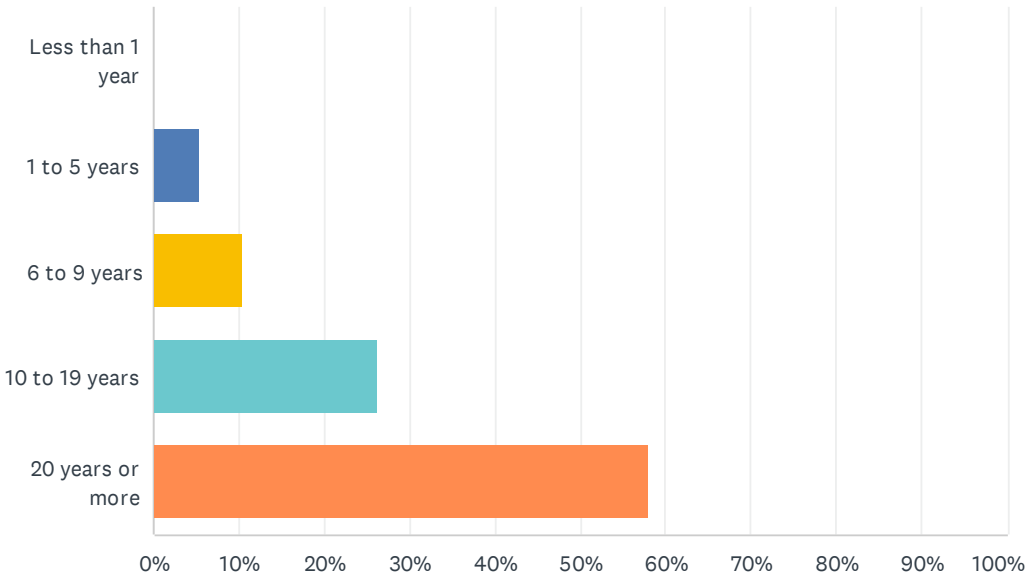
# Seneca County Hazard Mitigation Plan Update - Public Survey

ANSWER CHOICES	RESPONSES	
Covert (T)	5.26%	1
Fayette (T)	10.53%	2
Interlaken (V)	0.00%	0
Junius (T)	5.26%	1
Lodi (T)	5.26%	1
Lodi (V)	0.00%	0
Ovid (T)	0.00%	0
Ovid (V)	5.26%	1
Romulus (T)	0.00%	0
Seneca Falls (T)	26.32%	5
Tyre (T)	0.00%	0
Varick (T)	0.00%	0
Waterloo (T)	5.26%	1
Waterloo (V)	42.11%	8
Other (please specify)	0.00%	0
Total Respondents: 19		

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

Q17 How long have you lived here?

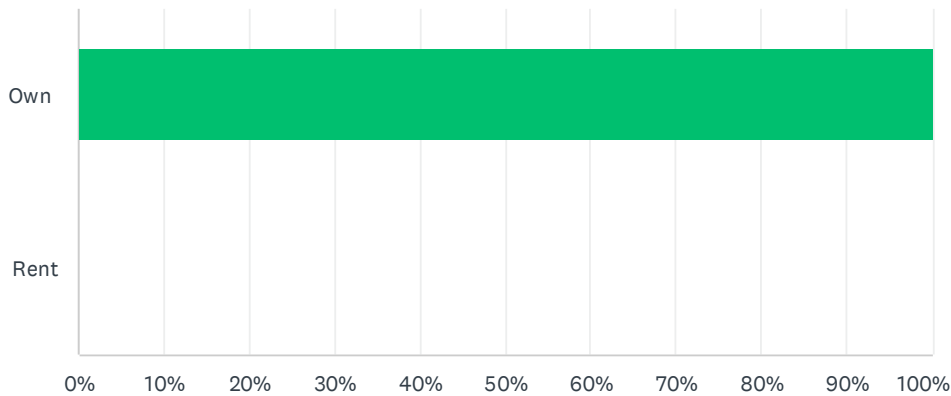
Answered: 19    Skipped: 6



ANSWER CHOICES	RESPONSES	
Less than 1 year	0.00%	0
1 to 5 years	5.26%	1
6 to 9 years	10.53%	2
10 to 19 years	26.32%	5
20 years or more	57.89%	11
TOTAL		19

Q18 Do you own or rent your place of residence?

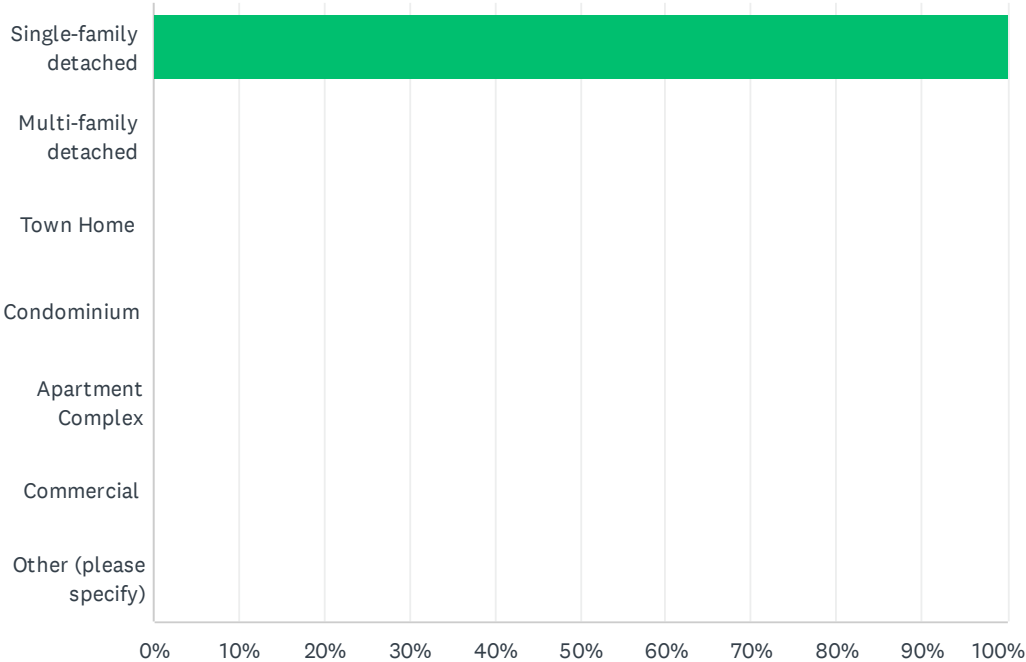
Answered: 18    Skipped: 7



ANSWER CHOICES	RESPONSES	
Own	100.00%	18
Rent	0.00%	0
TOTAL		18

Q19 What type of residence do you live in?

Answered: 19    Skipped: 6



ANSWER CHOICES		RESPONSES	
Single-family detached		100.00%	19
Multi-family detached		0.00%	0
Town Home		0.00%	0
Condominium		0.00%	0
Apartment Complex		0.00%	0
Commercial		0.00%	0
Other (please specify)		0.00%	0
TOTAL			19

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

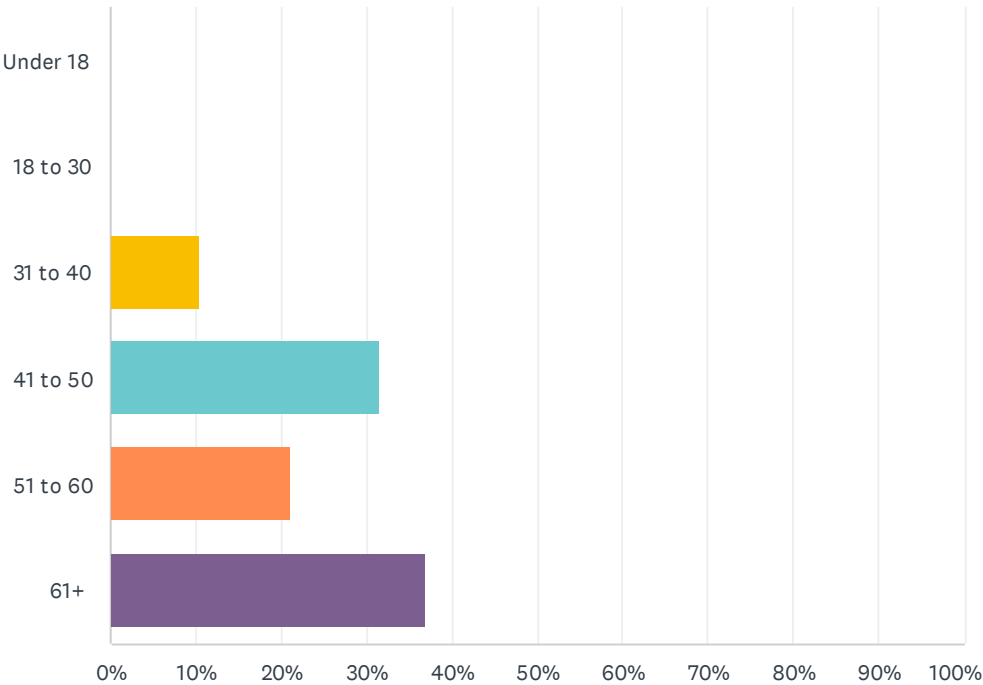


Q20 What street is your property on? (optional, will be kept confidential - only used to identify hazard areas such as flood prone areas).

Answered: 14   Skipped: 11

Q21 Please indicate your age range:

Answered: 19    Skipped: 6



ANSWER CHOICES	RESPONSES	
Under 18	0.00%	0
18 to 30	0.00%	0
31 to 40	10.53%	2
41 to 50	31.58%	6
51 to 60	21.05%	4
61+	36.84%	7
TOTAL		19

## Q1 Contact Information

Answered: 5    Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	5
Department/Agency	100.00%	5
Primary Responsibility	100.00%	5
Phone Number	100.00%	5
Email Address	100.00%	5

#	NAME	DATE
1	Julie Bub	12/26/2024 12:07 PM

2	Robert L Dwello	11/26/2024 10:32 AM
3	W. Averell H. Bauder	11/25/2024 11:38 AM
4	Patricia "Annie" Mahoney	11/25/2024 10:54 AM
5	theresa lahr	12/12/2023 7:31 AM

#	DEPARTMENT/AGENCY	DATE
1	Finance	12/26/2024 12:07 PM
2	Border City Fire District	11/26/2024 10:32 AM
3	Cornell Cooperaitve Extension of Seneca County	11/25/2024 11:38 AM
4	DHS	11/25/2024 10:54 AM
5	Seneca Towns Engaing People for Solutions (STEPS)	12/12/2023 7:31 AM

#	PRIMARY RESPONSIBILITY	DATE
1	Finances	12/26/2024 12:07 PM
2	To run the firematic side of the agency from fire to personnel	11/26/2024 10:32 AM
3	Executive Director	11/25/2024 11:38 AM
4	Administration	11/25/2024 10:54 AM
5	Director	12/12/2023 7:31 AM

#	PHONE NUMBER	DATE
1	3155391897	12/26/2024 12:07 PM
2	3155212038	11/26/2024 10:32 AM
3	315-539-9251	11/25/2024 11:38 AM
4	3155391791	11/25/2024 10:54 AM
5	315.651.9919	12/12/2023 7:31 AM

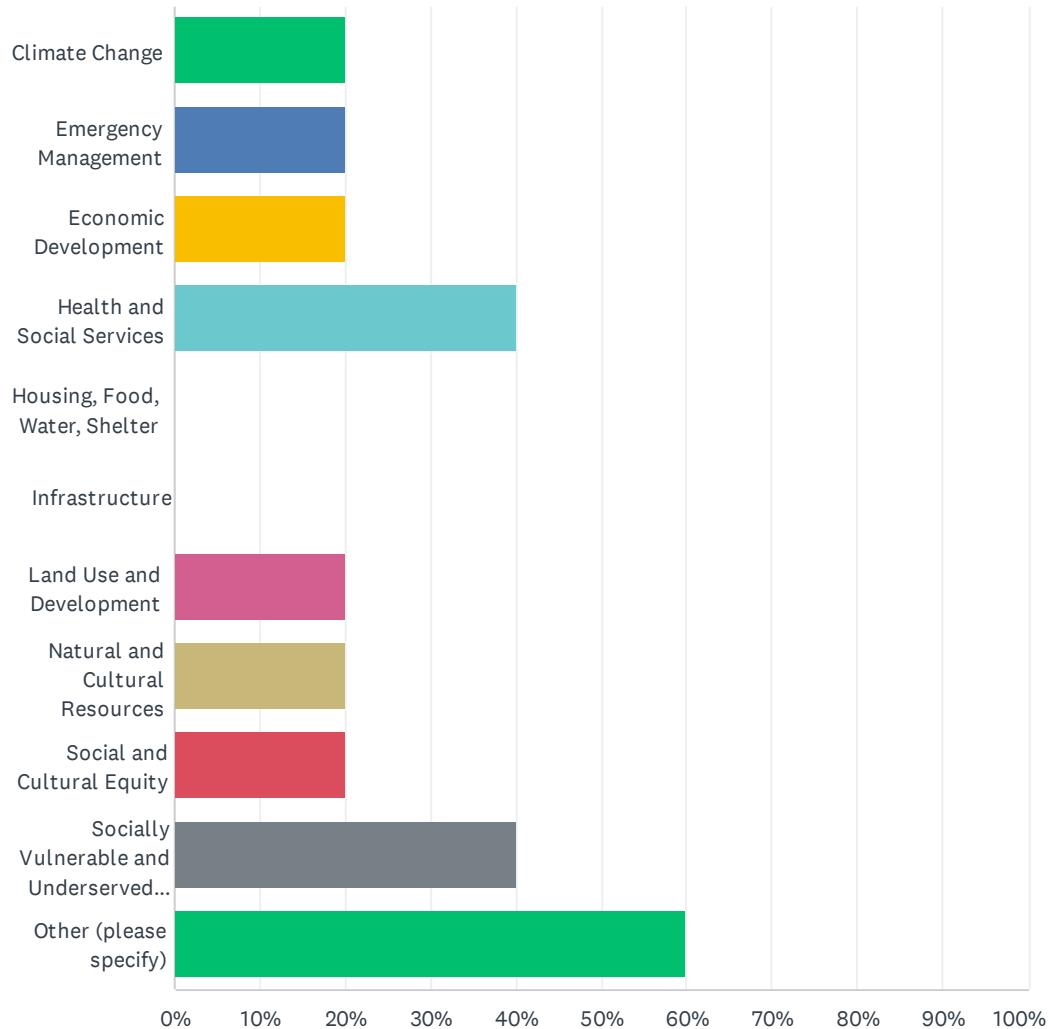
#	EMAIL ADDRESS	DATE
1	jbub@co.seneca.ny.us	12/26/2024 12:07 PM
2	rdwello@villageofinterlaken.org	11/26/2024 10:32 AM

## Seneca County Hazard Mitigation Plan - Stakeholder Survey

3	Bauder@Cornell.edu	11/25/2024 11:38 AM
4	AMahoney@co.seneca.ny.us	11/25/2024 10:54 AM
5	mtlahr@pivitalphp.org	12/12/2023 7:31 AM

## Q2 Which of the following sectors and areas of expertise do you represent? Mark all that apply.

Answered: 5 Skipped: 0



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

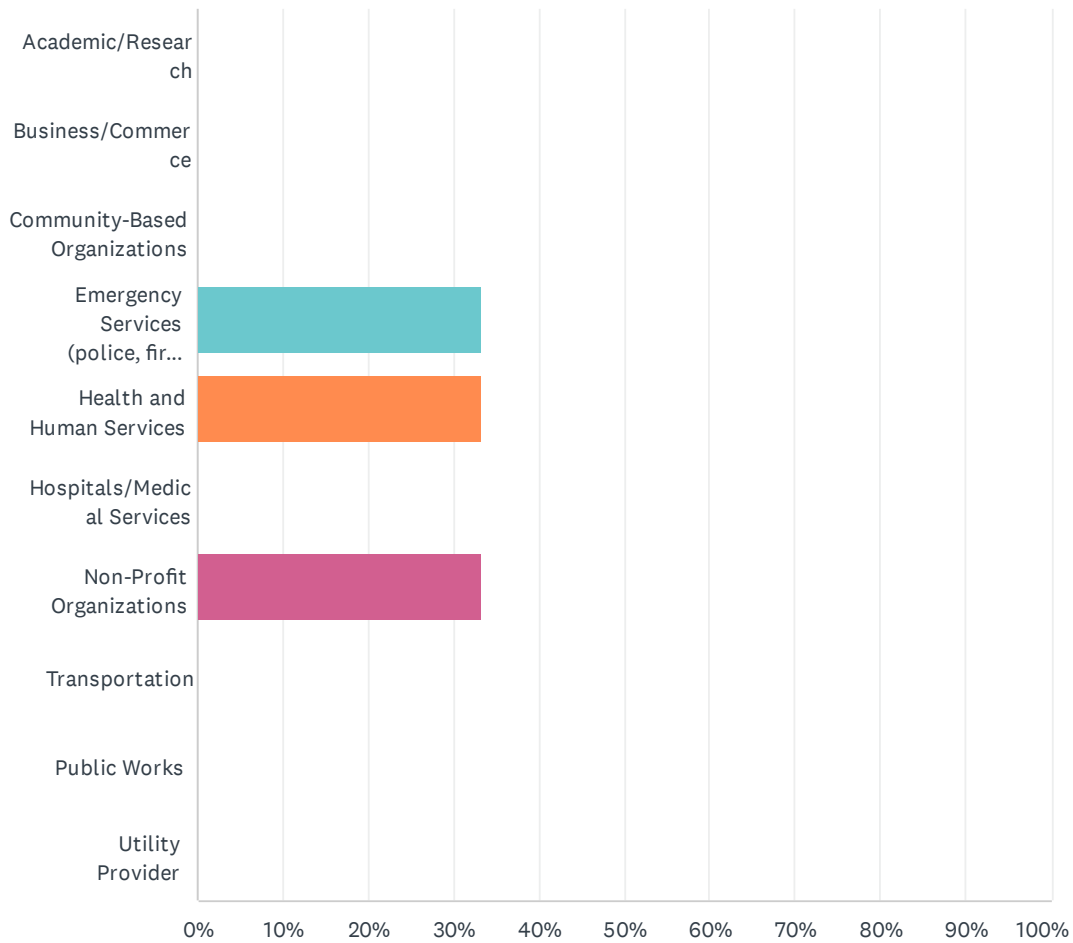
ANSWER CHOICES	RESPONSES	
Climate Change	20.00%	1
Emergency Management	20.00%	1
Economic Development	20.00%	1
Health and Social Services	40.00%	2
Housing, Food, Water, Shelter	0.00%	0
Infrastructure	0.00%	0
Land Use and Development	20.00%	1
Natural and Cultural Resources	20.00%	1
Social and Cultural Equity	20.00%	1
Socially Vulnerable and Underserved Populations	40.00%	2
Other (please specify)	60.00%	3
Total Respondents: 5		

#	OTHER (PLEASE SPECIFY)	DATE
1	Finance	12/26/2024 12:07 PM
2	Agriculture	11/25/2024 11:38 AM
3	STEPS is a resident driven, asset-based community improvement project in southern Seneca County with expertise in community engagement.	12/12/2023 7:31 AM



### Q3 What category does your facility operation/service fall under?

Answered: 3 Skipped: 2



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

ANSWER CHOICES	RESPONSES
Academic/Research	0.00% 0
Business/Commerce	0.00% 0
Community-Based Organizations	0.00% 0
Emergency Services (police, fire, EMS)	33.33% 1
Health and Human Services	33.33% 1
Hospitals/Medical Services	0.00% 0
Non-Profit Organizations	33.33% 1
Transportation	0.00% 0
Public Works	0.00% 0
Utility Provider	0.00% 0
TOTAL	3

#	OTHER (PLEASE SPECIFY)	DATE
1	Government	12/26/2024 12:07 PM
2	CCE is a sub-governmental agency/non profit orgainzation, part of the Land Grant University system that enables people to improve their lives and communities through partnerships that put experience and research knowledge to work.	11/25/2024 11:38 AM

## Q4 Based on the above category, please provide additional description and information as to what your organization does or offers (please explain)

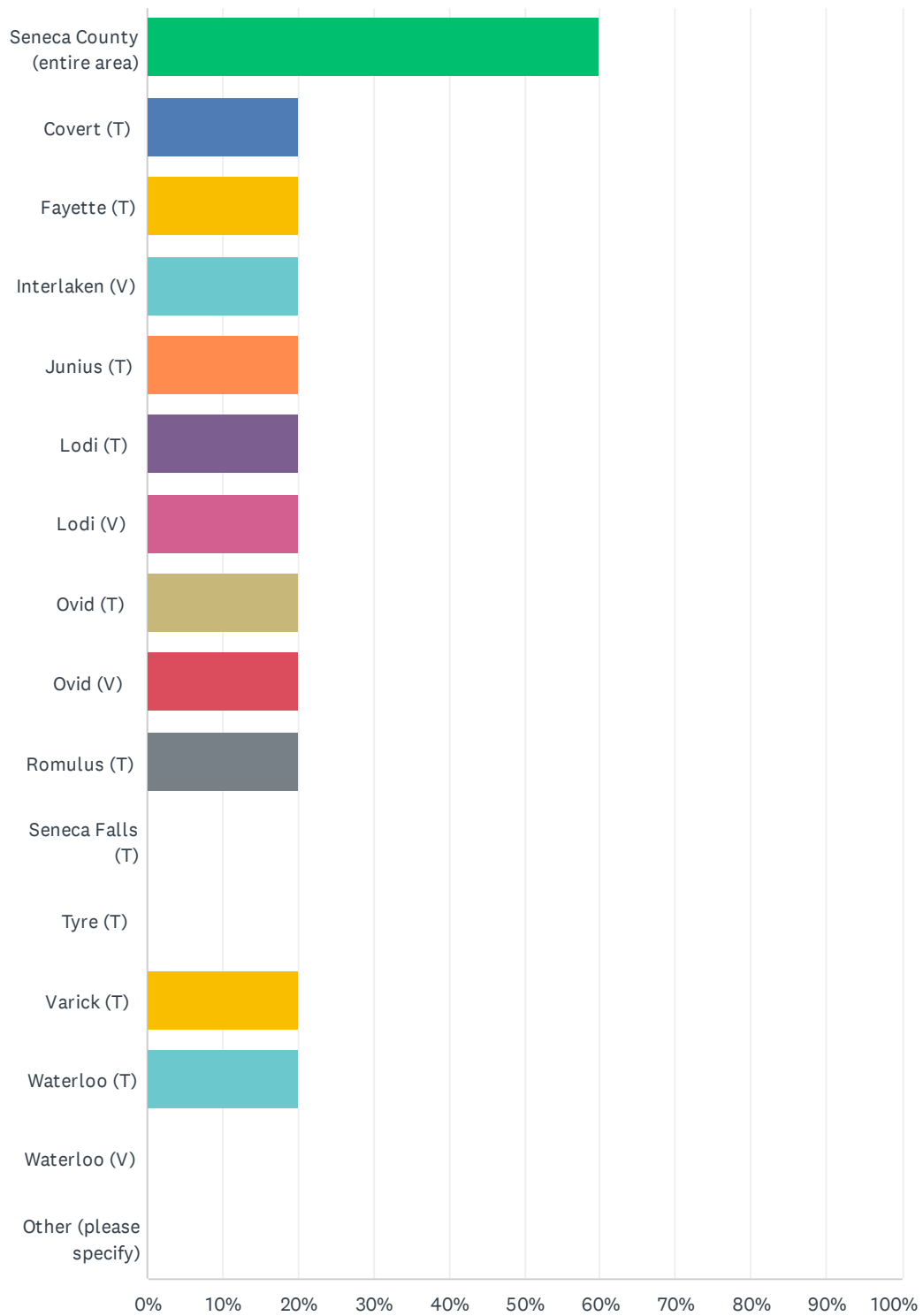
Answered: 5   Skipped: 0

#	RESPONSES	DATE
1	Seneca County	12/26/2024 12:07 PM
2	Fire suppression , Medical, and Water Rescue	11/26/2024 10:32 AM
3	Extension staff and trained volunteers deliver education programs, conduct applied research, and encourage community collaborations. Our educators connect people with the information they need on topics such as commercial and consumer agriculture; nutrition and health; youth and families; finances; energy efficiency; economic and community development; Farm to School; and sustainable natural resources. Our ability to match university resources with community needs helps us play a vital role in the lives of individuals, families, businesses, and communities throughout Seneca County.	11/25/2024 11:38 AM
4	Public Assistance including food, shelter, medicaid. Services for runaway and homeless youth. Child Welfare services including foster care, preventive and child protective services. Employment services for youth and adults both mandated and voluntary. Child Support services.	11/25/2024 10:54 AM
5	Works to improve the social determinants of health in focus areas: physical environment, education & economic and personal health and wellness.	12/12/2023 7:31 AM

Q5 Please identify the location of your facility(ies) and/or primary service area. You may choose more than one if your service area covers multiple communities, or “Seneca County (entire area)” if your service area is county-wide:

Answered: 5   Skipped: 0

## Seneca County Hazard Mitigation Plan - Stakeholder Survey



## Seneca County Hazard Mitigation Plan - Stakeholder Survey

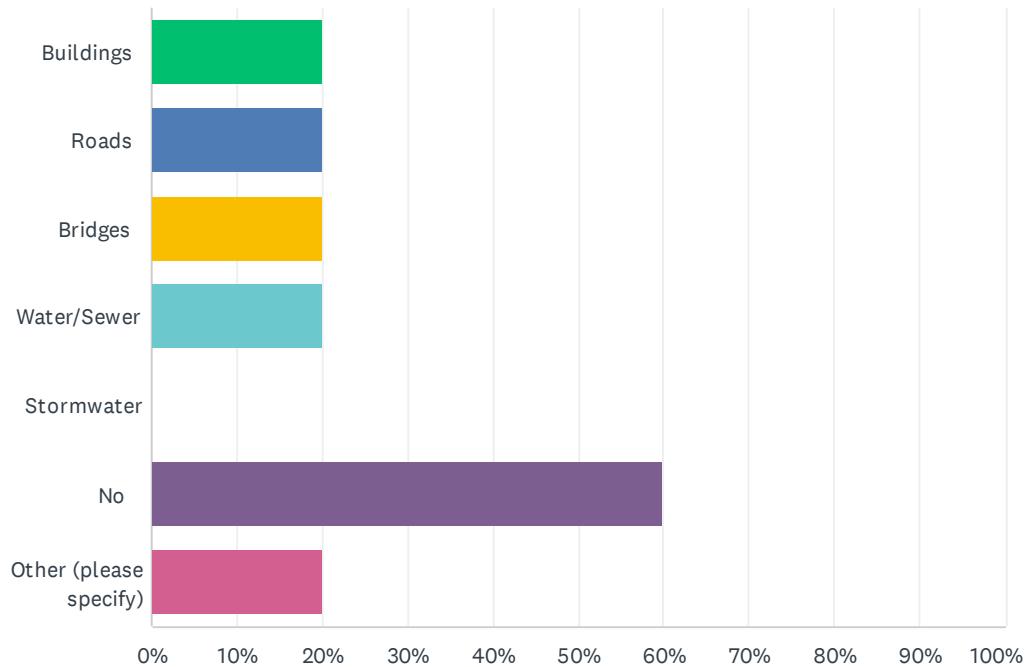
ANSWER CHOICES	RESPONSES	
Seneca County (entire area)	60.00%	3
Covert (T)	20.00%	1
Fayette (T)	20.00%	1
Interlaken (V)	20.00%	1
Junius (T)	20.00%	1
Lodi (T)	20.00%	1
Lodi (V)	20.00%	1
Ovid (T)	20.00%	1
Ovid (V)	20.00%	1
Romulus (T)	20.00%	1
Seneca Falls (T)	0.00%	0
Tyre (T)	0.00%	0
Varick (T)	20.00%	1
Waterloo (T)	20.00%	1
Waterloo (V)	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 5		

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	



**Q6 Does your organization maintain or manage any of the following within your designated service area? If not, answer “No” at the bottom, otherwise check all that apply.**

Answered: 5 Skipped: 0

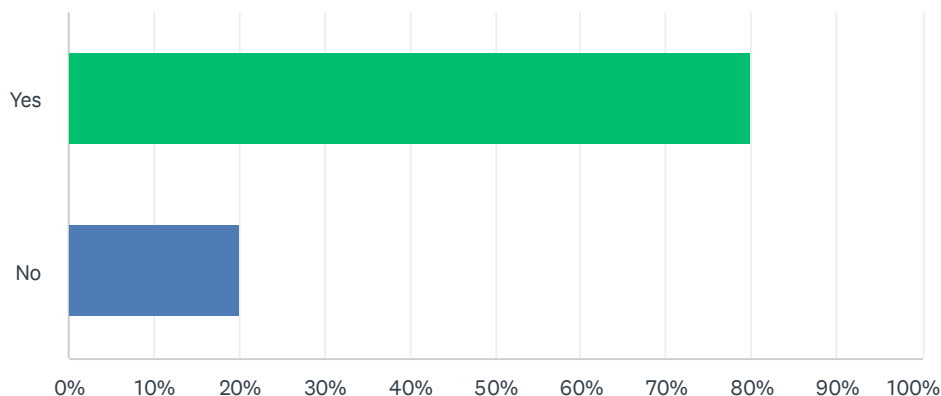


ANSWER CHOICES	RESPONSES
Buildings	20.00% 1
Roads	20.00% 1
Bridges	20.00% 1
Water/Sewer	20.00% 1
Stormwater	0.00% 0
No	60.00% 3
Other (please specify)	20.00% 1
Total Respondents: 5	

#	OTHER (PLEASE SPECIFY)	DATE
1	Rent office space in Waterloo	11/25/2024 11:38 AM

**Q7 Does your organization work with or help support socially vulnerable populations that may be at higher risk for hazard impacts? Socially vulnerable populations may be considered "socially vulnerable" because of a variety of factors like socioeconomic status, household composition, minority status, limited proficiency to read or speak English, housing type, and transportation.**

Answered: 5   Skipped: 0



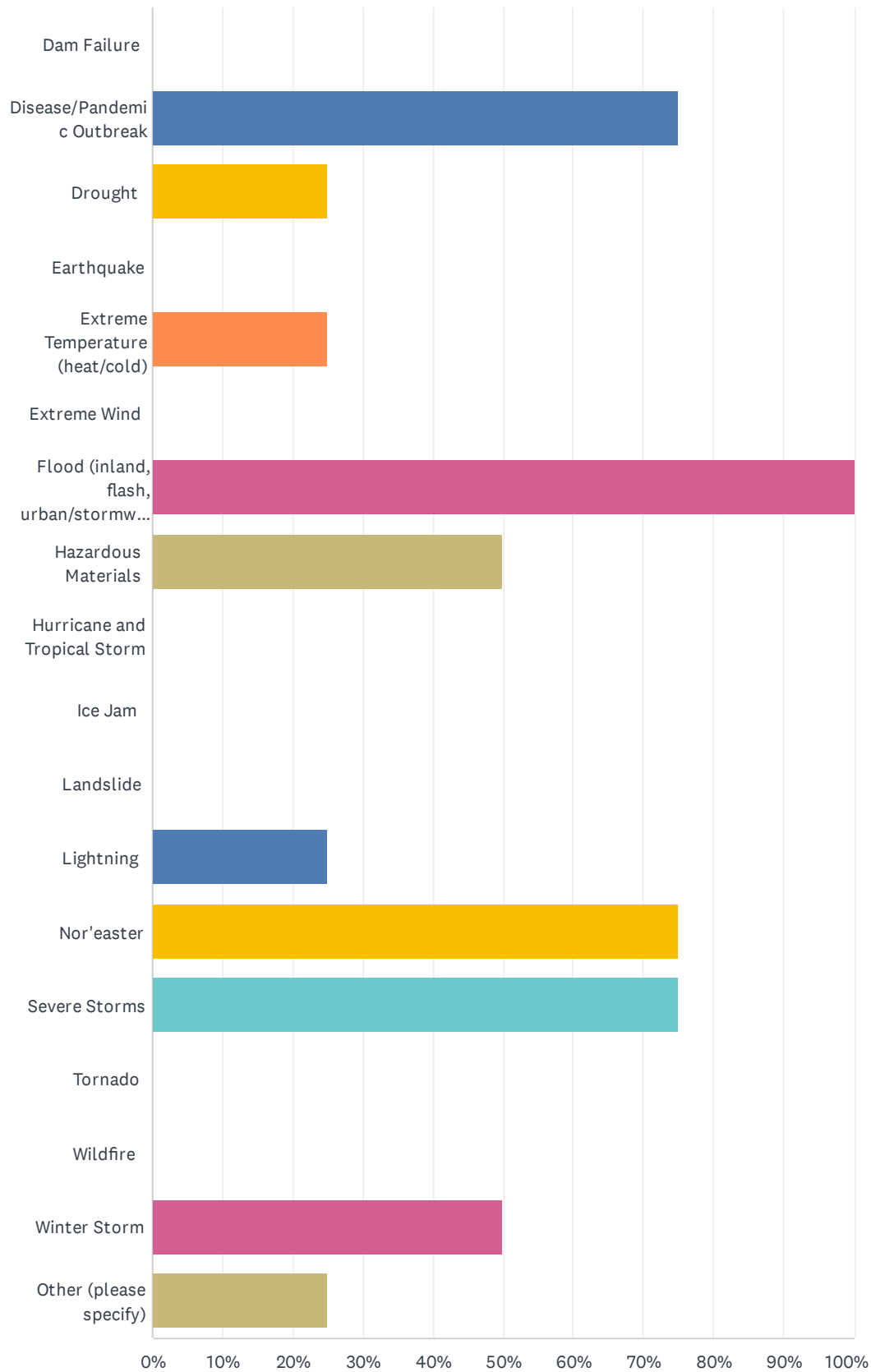
ANSWER CHOICES	RESPONSES
Yes	80.00% 4
No	20.00% 1
TOTAL	5

#	IF YOU ANSWERED YES, PLEASE DESCRIBE HOW YOUR ORGANIZATION WORKS WITH OR SUPPORTS SOCIALLY VULNERABLE POPULATIONS.	DATE
1	DHS/MH/OFA	12/26/2024 12:07 PM
2	Primarily through community and school nutrition/healthy eating programming for both adults and youth. Home garden/seed kit program through the schools and libraries. Support community gardens and Farmers' Markets. Supports county community and economic development initiatives.	11/25/2024 11:38 AM
3	Our organization assists those in need without reservation however, some of our programs do require eligibility.	11/25/2024 10:54 AM
4	Connects resident to services request. wellness check as needed. Support food insecure /pantries. Engages socially isolated in health promoting activities for example in 3 community gardens.	12/12/2023 7:31 AM

Q8 For which hazard(s) do you feel that you or your organization have a special interest and/or expertise? Check all that apply.

Answered: 4   Skipped: 1

## Seneca County Hazard Mitigation Plan - Stakeholder Survey



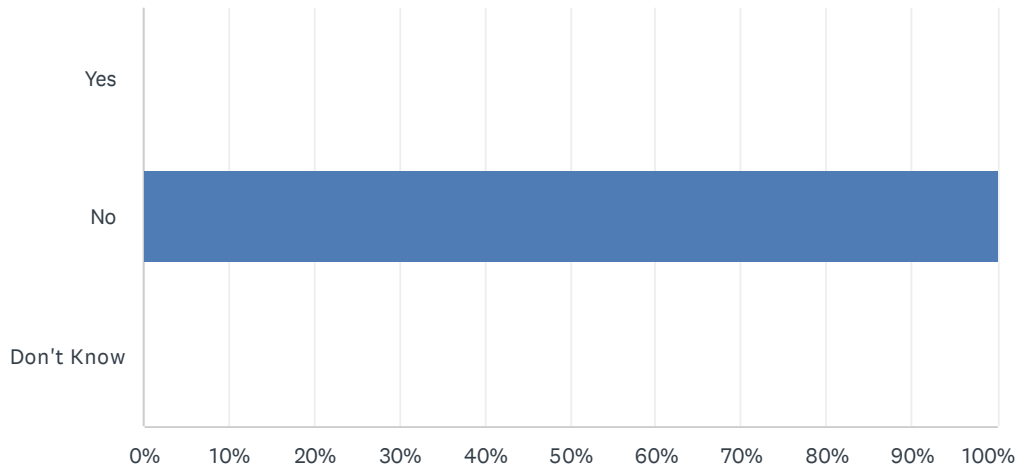
## Seneca County Hazard Mitigation Plan - Stakeholder Survey

ANSWER CHOICES	RESPONSES
Dam Failure	0.00% 0
Disease/Pandemic Outbreak	75.00% 3
Drought	25.00% 1
Earthquake	0.00% 0
Extreme Temperature (heat/cold)	25.00% 1
Extreme Wind	0.00% 0
Flood (inland, flash, urban/stormwater)	100.00% 4
Hazardous Materials	50.00% 2
Hurricane and Tropical Storm	0.00% 0
Ice Jam	0.00% 0
Landslide	0.00% 0
Lightning	25.00% 1
Nor'easter	75.00% 3
Severe Storms	75.00% 3
Tornado	0.00% 0
Wildfire	0.00% 0
Winter Storm	50.00% 2
Other (please specify)	25.00% 1
Total Respondents: 4	

#	OTHER (PLEASE SPECIFY)	DATE
1	We have particular expertise around Climate Change and severe weather in terms of education resources and mitigation suggestions	11/25/2024 11:54 AM

# Q9 Looking back at previous hazard events, have buildings/facilities/structures you have worked in and/or are responsible for been impacted by a hazard (ex. damage/closures/etc.)?

Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	5
Don't Know	0.00%	0
TOTAL		5



Q10 If you answered “Yes” to the above question, please describe the event that caused or is causing (if recurring) damage and loss of service/property. If quantifiable data is available, please provide that as well (number of damaged structures, monetary loss, etc.) (please explain)

Answered: 0   Skipped: 5

#	RESPONSES	DATE
	There are no responses.	

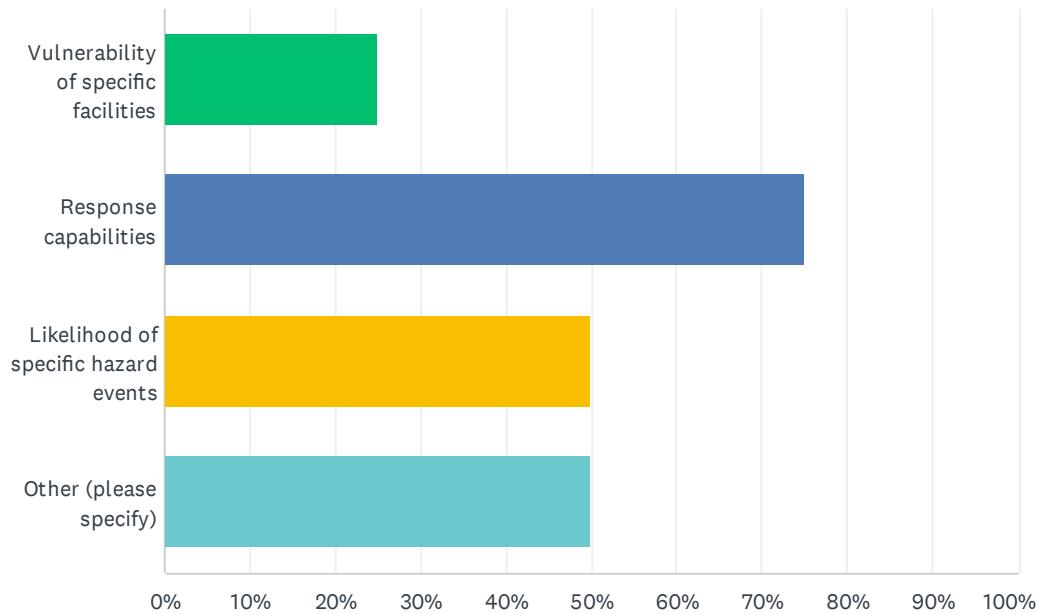
Q11 Looking at where your facilities or services are located in Seneca County, what areas do you believe to be the most vulnerable to hazards? What are these hazards? (please explain).

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	Farmland to drought, frost, severe rain events, etc. Land by streams and bodies of water to flooding.	11/25/2024 11:54 AM
2	Lodi\$ Ovid (flood drought) extreme weather	12/12/2023 7:38 AM

## Q12 What are your agency's primary concerns regarding hazards?

Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
Vulnerability of specific facilities	25.00%	1
Response capabilities	75.00%	3
Likelihood of specific hazard events	50.00%	2
Other (please specify)	50.00%	2
Total Respondents: 4		

#	OTHER (PLEASE SPECIFY)	DATE
1	Providing education before and after events. Assessing farm damage. Suggesting mitigation	11/25/2024 11:54 AM
2	Residents' health & well-being before (preparation) during and after eventafter an event	12/12/2023 7:38 AM

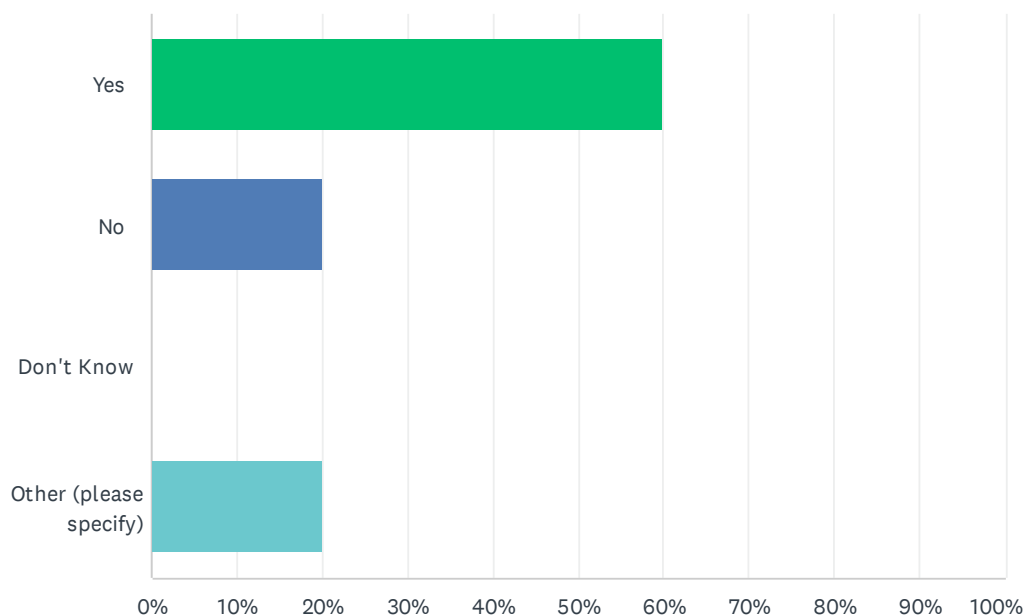
## Q13 What challenges or barriers to reducing vulnerability in Seneca County do you see?

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	Lack of knowledge/resources. Not believing that Climate Change is real.	11/25/2024 11:54 AM
2	Accessibility to services in the most rural parts of our community can sometimes be difficult for our clients. Online access has made applying for some services a bit easier but it is not a perfect solution.	11/25/2024 10:57 AM

## Q14 Does your agency own or lease facilities?

Answered: 5   Skipped: 0

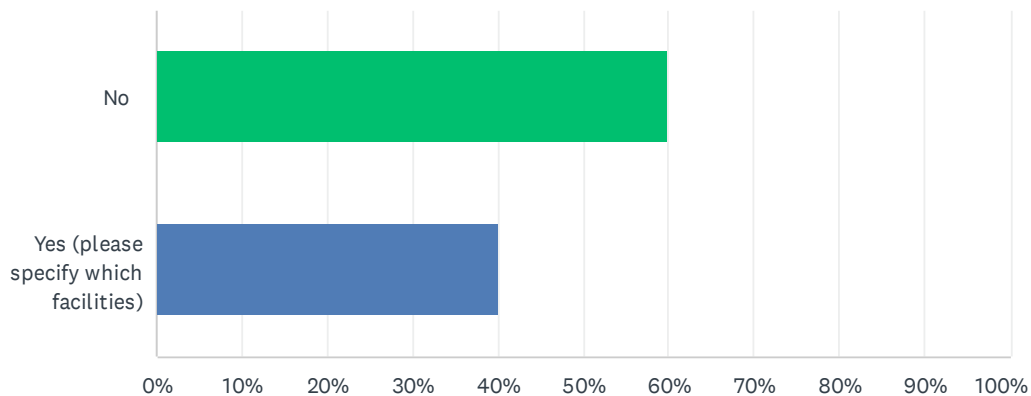


ANSWER CHOICES	RESPONSES	
Yes	60.00%	3
No	20.00%	1
Don't Know	0.00%	0
Other (please specify)	20.00%	1
TOTAL		5

#	OTHER (PLEASE SPECIFY)	DATE
1	only rent office space in Ovid	12/12/2023 7:42 AM

## Q15 Of those facilities that your agency owns or leases, are any viewed as critical facilities or community lifelines?

Answered: 5 Skipped: 0



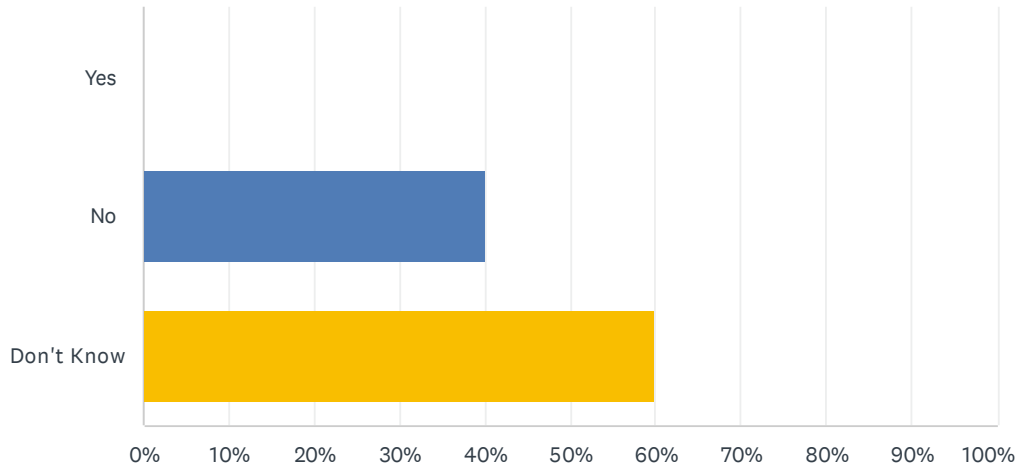
ANSWER CHOICES	RESPONSES	
No	60.00%	3
Yes (please specify which facilities)	40.00%	2
TOTAL		5

#	YES (PLEASE SPECIFY WHICH FACILITIES)	DATE
1	911 Center & Sherriff/Jail	12/26/2024 12:09 PM
2	community lifelines	11/26/2024 10:35 AM



## Q16 Are your facilities susceptible to impacts from hazards, such as your fire department being in a flood prone area?

Answered: 5 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	40.00% 2
Don't Know	60.00% 3
TOTAL	5

#	IF YES, PLEASE SPECIFY THE FACILITIES AND DAMAGES SUSTAINED.	DATE
	There are no responses.	

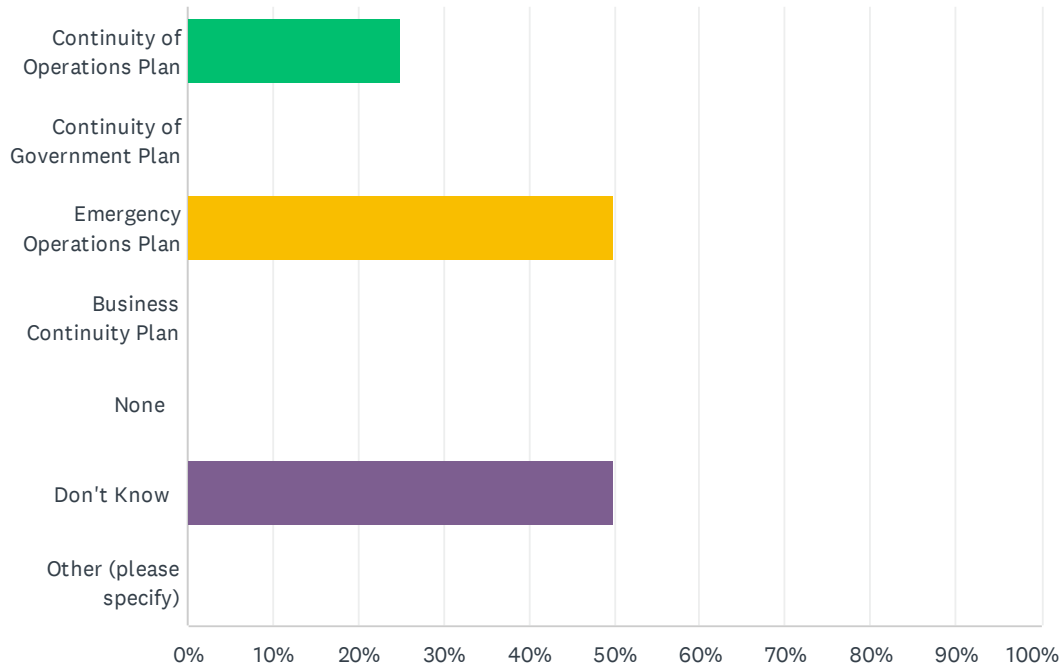
## Q17 What support does your organization need from Seneca County to help reduce vulnerabilities to your facilities?

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	None in terms of facilities	11/25/2024 11:55 AM
2	n/a	12/12/2023 7:42 AM

## Q18 Is your organization covered by any of the following plans? Check all that apply

Answered: 4 Skipped: 1



ANSWER CHOICES	RESPONSES	
Continuity of Operations Plan	25.00%	1
Continuity of Government Plan	0.00%	0
Emergency Operations Plan	50.00%	2
Business Continuity Plan	0.00%	0
None	0.00%	0
Don't Know	50.00%	2
Other (please specify)	0.00%	0
Total Respondents: 4		

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

## Q19 What capabilities does your agency have to help address hazards?

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	Materials from EDEN (Extension Disaster Education Network) on emergency/hazard preparedness and recovery. <a href="https://eden.cce.cornell.edu/">https://eden.cce.cornell.edu/</a> .	11/25/2024 4:22 PM
2	Outreach and support to resident in south end	12/12/2023 7:57 AM

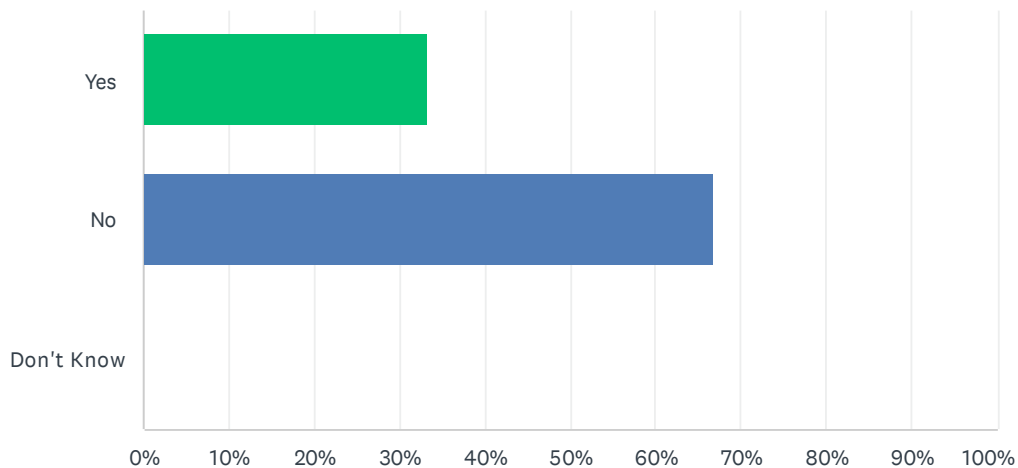
Q20 What plans or studies has your agency developed that relate to hazards, the climate, new or existing facilities, vulnerable populations, or other areas related to hazard mitigation?

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	We have at our disposal the resources of the entire Land Grant system for plans and studies on a number of subjects.	11/25/2024 4:22 PM
2	STEPS is a part Climate Action and Adaptation building initiative in Lodi.	12/12/2023 7:57 AM

**Q21 Is your agency currently involved in conducting any studies or developing any programs which would further support Seneca County's hazard mitigation program? Studies can include hazard-specific information, data gathering which supports risk assessments, including economic data, or statistical data of other types.**

Answered: 3 Skipped: 2



ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
TOTAL		3

#	IF YES, PLEASE BRIEFLY DESCRIBE THE TYPE OF STUDY UNDERWAY, AND LIST THE ANTICIPATED YEAR OF COMPLETION.	DATE
1	Fore mentioned Lodi Climate Task force who recently (12/6/2022) conducted a scenario planning exercise/workshop to formulate recommendation and prioritize climate hazards both long and short term.	12/12/2023 7:57 AM



**Q22 Please list any projects or programs that you have recently implemented that you believe will reduce your facility's/organization's vulnerability, damage, and losses (including loss of operation/service) due to hazard events.**

Answered: 0   Skipped: 5

#	RESPONSES	DATE
	There are no responses.	

## Q23 Does your agency currently have any mitigation projects or activities underway? If so, please describe.

Answered: 0 Skipped: 5

#	RESPONSES	DATE
	There are no responses.	

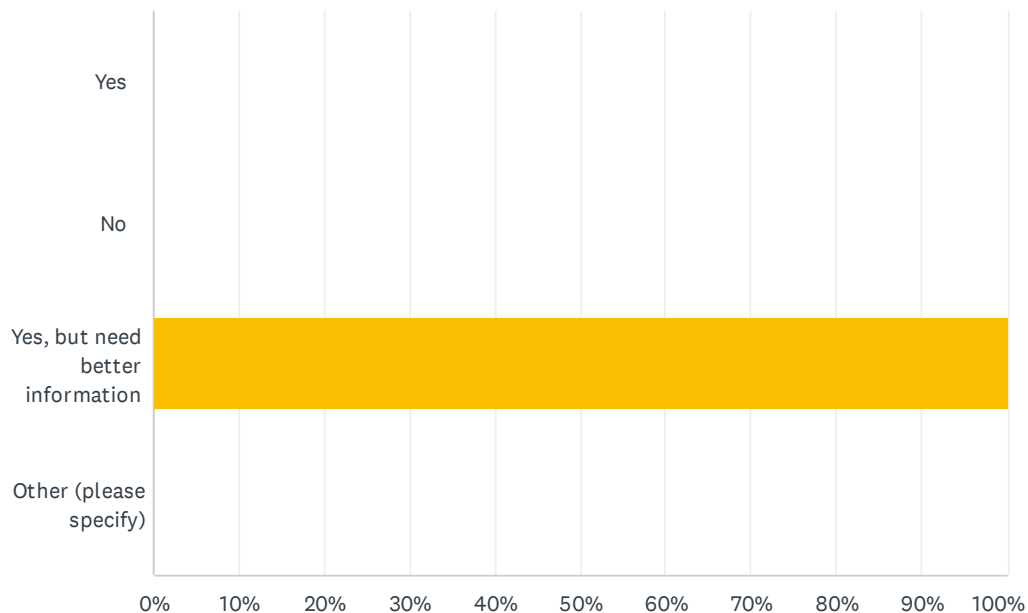
Q24 Please provide a list of any new projects or programs that your facility or organization would like to complete in order to reduce your vulnerability to damages and losses, including loss of operation/service, to hazard events.

Answered: 0 Skipped: 5

#	RESPONSES	DATE
	There are no responses.	

## Q25 Are you aware of the number and location of vulnerable populations in your community/operating area?

Answered: 2 Skipped: 3

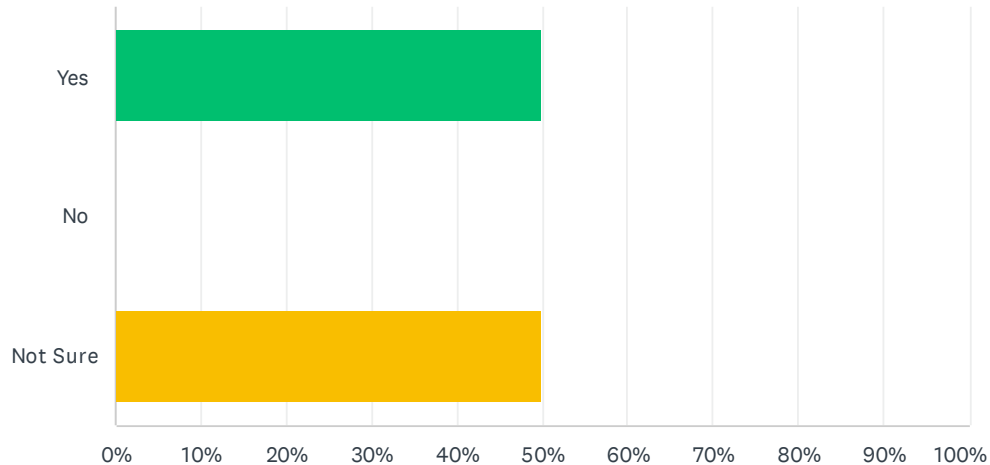


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	0.00%	0
Yes, but need better information	100.00%	2
Other (please specify)	0.00%	0
TOTAL		2

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

## Q26 Does your agency provide assistance to any socially vulnerable or underserved populations in Seneca County?

Answered: 2   Skipped: 3

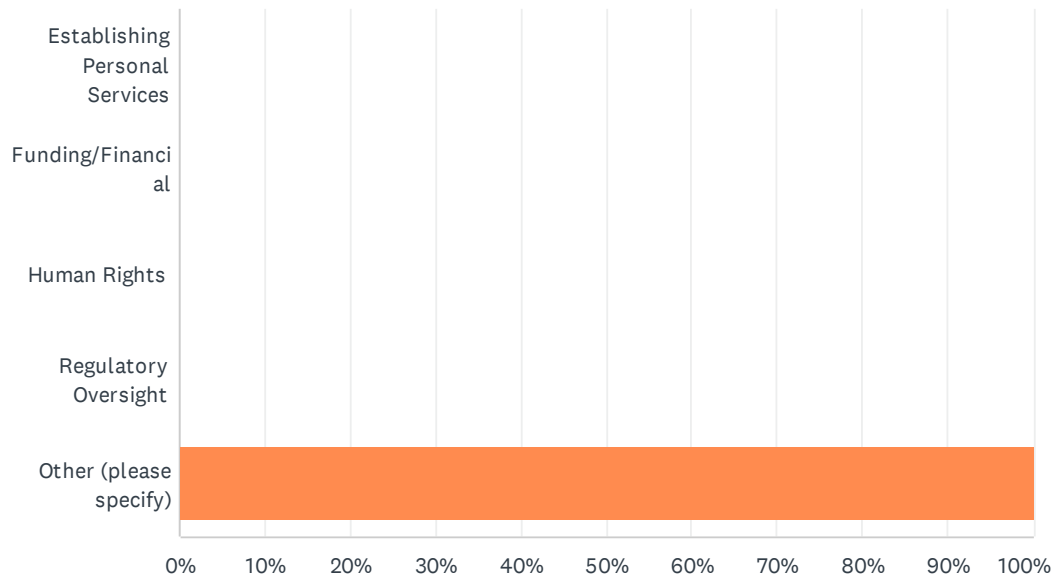


ANSWER CHOICES	RESPONSES
Yes	50.00% 1
No	0.00% 0
Not Sure	50.00% 1
TOTAL	2

#	OTHER (PLEASE SPECIFY)	DATE
1	although we are not a service organization, we do support assist our socially vulnerable neighbors on a daily basis.	12/12/2023 8:22 AM

## Q27 If yes, what types of services do you provide?

Answered: 1   Skipped: 4



ANSWER CHOICES	RESPONSES	
Establishing Personal Services	0.00%	0
Funding/Financial	0.00%	0
Human Rights	0.00%	0
Regulatory Oversight	0.00%	0
Other (please specify)	100.00%	1
Total Respondents: 1		

#	OTHER (PLEASE SPECIFY)	DATE
1	Nutrition education. Safe and supportive environments for youth. Emergency/disaster education and recovery information.	11/25/2024 5:16 PM



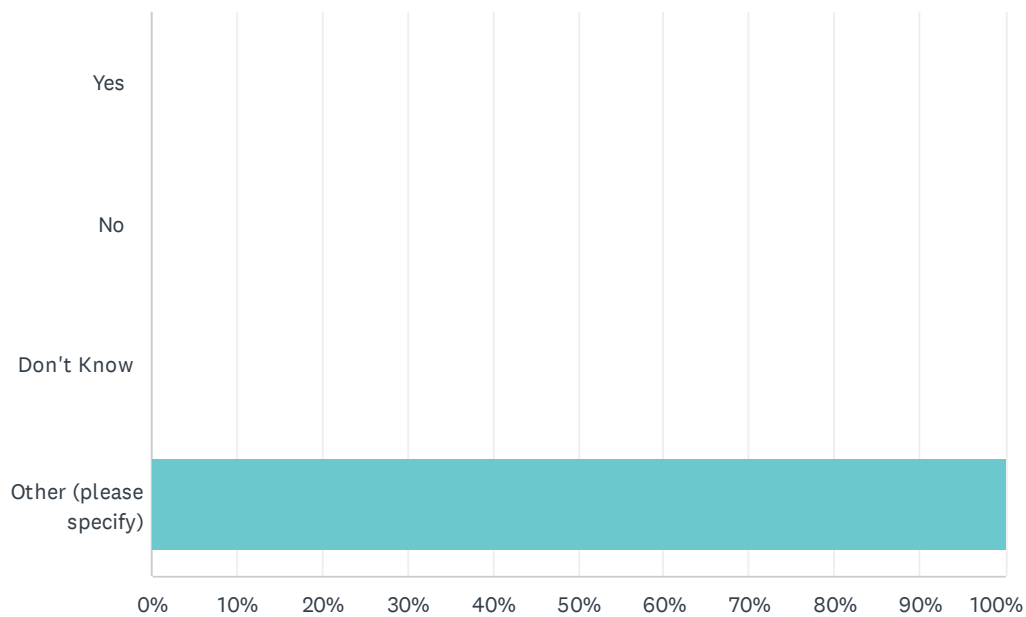
## Q28 Please provide a list of the populations or communities served by your agency.

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	Vulnerable populations include SNAP eligible populations and Youth especially through schools. Otherwise we serve all.	11/25/2024 5:16 PM
2	Everyone. All types of people from all walks of life, circumstance, ages, backgrounds and positions in the community. Everyone who lives works plays in STEPS geoegrany is part of the project	12/12/2023 8:22 AM

## Q29 Do you provide these services during times of disaster?

Answered: 1   Skipped: 4



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	0.00% 0
Don't Know	0.00% 0
Other (please specify)	100.00% 1
TOTAL	1

#	OTHER (PLEASE SPECIFY)	DATE
1	Would depend on the disaster	11/25/2024 5:16 PM

Q30 What barriers and community characteristics exist within Seneca County that may create additional vulnerabilities to hazards? This may include but is not limited to access to transportation, broadband access, economic disadvantages, physical health (chronic diseases), limited physical mobility, age (older adults and children), and rural communities.

Answered: 2   Skipped: 3

#	RESPONSES	DATE
1	You pretty much hit them!	11/25/2024 5:16 PM
2	Transportation is a key barrier. With the suspension of transportation program throughout winter 2023-2024 the situation is worsening; residents are hard pressed to find rides to medical appointments.	12/12/2023 8:22 AM

## Q31 Do you have any questions or comments for Seneca County?

Answered: 1   Skipped: 4

#	RESPONSES	DATE
1	Thank you for all the efforts to improve adaptation and resilience in Seneca County	12/12/2023 8:24 AM

## Q1 Contact Information

Answered: 8   Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	8
Department/Agency	100.00%	8
Address	0.00%	0
Address 2	0.00%	0
City/Town	100.00%	8
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	100.00%	8
Phone Number	100.00%	8

#	NAME	DATE
1	Stuart Peenstra	1/11/2024 11:19 AM
2	Marian Saks	1/3/2024 1:26 PM
3	George Bastedo	12/18/2023 9:56 AM
4	Jeremiah Shufelt	12/18/2023 7:44 AM
5	Brian Schenck	12/13/2023 7:59 AM
6	Gerry Messmer	12/11/2023 8:00 PM
7	PAMELA KELLY	12/11/2023 5:02 PM
8	Linda Woodard	12/11/2023 4:57 PM

#	DEPARTMENT/AGENCY	DATE
1	Cayuga County Sheriff's Office	1/11/2024 11:19 AM
2	Schuyler County Planning	1/3/2024 1:26 PM
3	Emergency Management	12/18/2023 9:56 AM
4	Wayne County Fire Coordinator	12/18/2023 7:44 AM
5	Cayuga County Sheriff's Office	12/13/2023 7:59 AM
6	Mayor	12/11/2023 8:00 PM
7	VILLAGE OF	12/11/2023 5:02 PM
8	Village of Cayuga Heights	12/11/2023 4:57 PM

#	ADDRESS	DATE
	There are no responses.	
#	ADDRESS 2	DATE

# Seneca County Hazard Mitigation Plan - Neighboring Community Survey

There are no responses.

#	CITY/TOWN	DATE
1	Sennett	1/11/2024 11:19 AM
2	Burdett	1/3/2024 1:26 PM
3	Wayne County	12/18/2023 9:56 AM
4	Lyons	12/18/2023 7:44 AM
5	Sennett	12/13/2023 7:59 AM
6	Odessa	12/11/2023 8:00 PM
7	ODESSA	12/11/2023 5:02 PM
8	Ithaca	12/11/2023 4:57 PM

#	STATE/PROVINCE	DATE
---	----------------	------

There are no responses.

#	ZIP/POSTAL CODE	DATE
---	-----------------	------

There are no responses.

#	COUNTRY	DATE
---	---------	------

There are no responses.

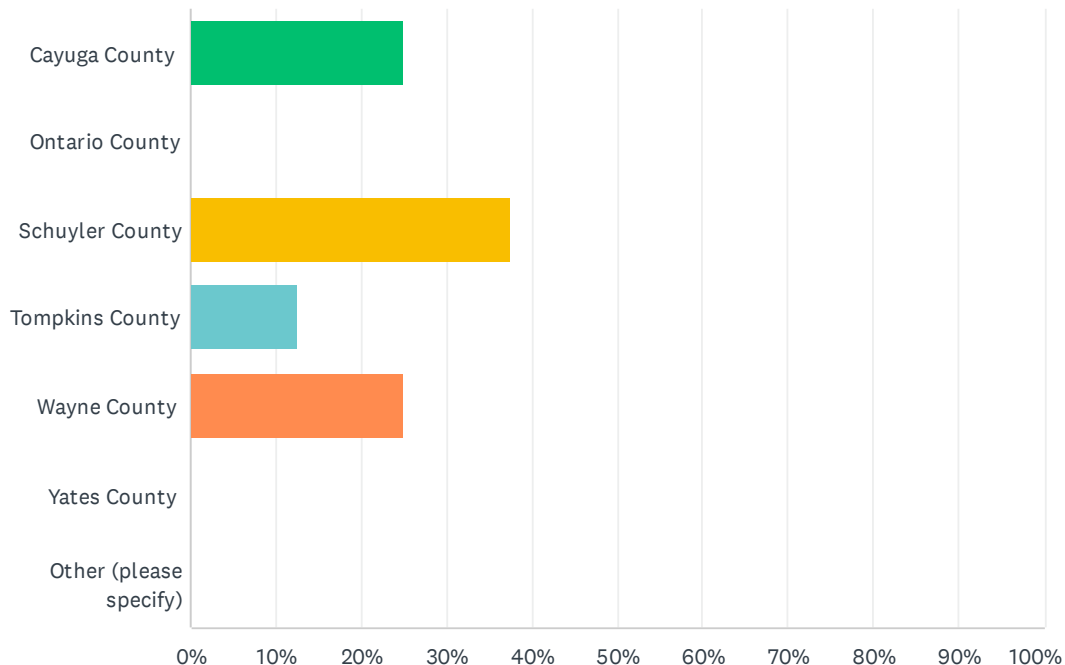
#	EMAIL ADDRESS	DATE
1	speenstra@cayugacounty.us	1/11/2024 11:19 AM
2	msaks@co.schuyler.ny.us	1/3/2024 1:26 PM
3	gbastedo@co.wayne.ny.us	12/18/2023 9:56 AM
4	jshufelt@co.wayne.ny.us	12/18/2023 7:44 AM
5	bschenck@cayugacounty.us	12/13/2023 7:59 AM
6	mayorofodessa@gmail.com	12/11/2023 8:00 PM
7	CLERK@NYVILLAGEOFODESSA.COM	12/11/2023 5:02 PM
8	lwoodard@cayuga-heights.ny.us	12/11/2023 4:57 PM

#	PHONE NUMBER	DATE
1	3152534869	1/11/2024 11:19 AM
2	16073517782	1/3/2024 1:26 PM
3	315-946-5663	12/18/2023 9:56 AM
4	315-946-5640	12/18/2023 7:44 AM
5	315-253-4337	12/13/2023 7:59 AM
6	9109642580	12/11/2023 8:00 PM
7	607-594-2100	12/11/2023 5:02 PM
8	6072571238	12/11/2023 4:57 PM



## Q2 Please indicate the county your organization, agency, or municipality is located in.

Answered: 8 Skipped: 0

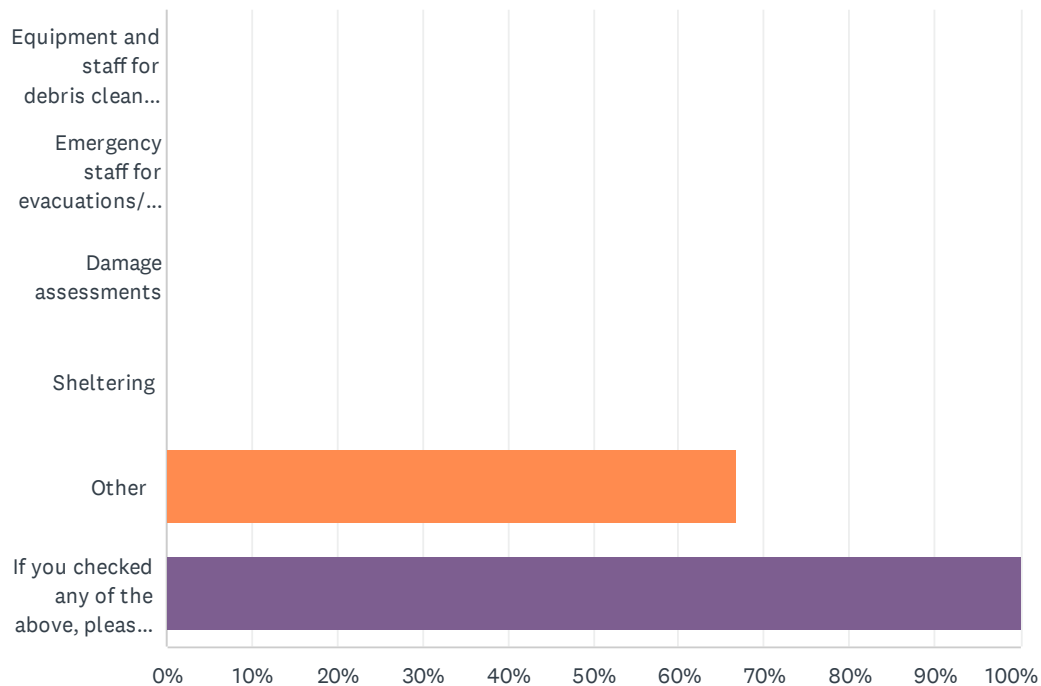


ANSWER CHOICES	RESPONSES	
Cayuga County	25.00%	2
Ontario County	0.00%	0
Schuyler County	37.50%	3
Tompkins County	12.50%	1
Wayne County	25.00%	2
Yates County	0.00%	0
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>8</b>

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

### Q3 Do you have any shared service agreements or mutual aid agreements in place with Seneca County or any Seneca municipalities for the following?

Answered: 3   Skipped: 5

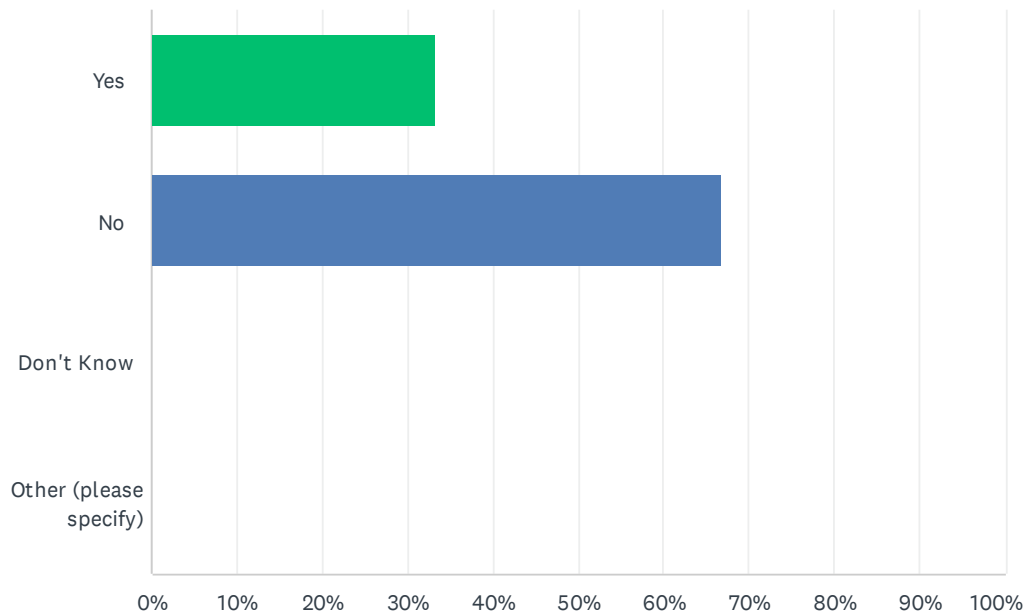


ANSWER CHOICES	RESPONSES	
Equipment and staff for debris cleanup and removal	0.00%	0
Emergency staff for evacuations/disaster response	0.00%	0
Damage assessments	0.00%	0
Sheltering	0.00%	0
Other	66.67%	2
If you checked any of the above, please explain.	100.00%	3
Total Respondents: 3		

#	IF YOU CHECKED ANY OF THE ABOVE, PLEASE EXPLAIN.	DATE
1	911 call answering backup MOU	12/18/2023 10:01 AM
2	Seneca County provides Hazardous-Materials team members as part of the 4 County consortium that includes Wayne, Ontario, Yates and Seneca.	12/18/2023 7:51 AM
3	No	12/11/2023 8:01 PM

## Q4 Do you include Seneca County or any Seneca municipalities in your comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 3   Skipped: 5

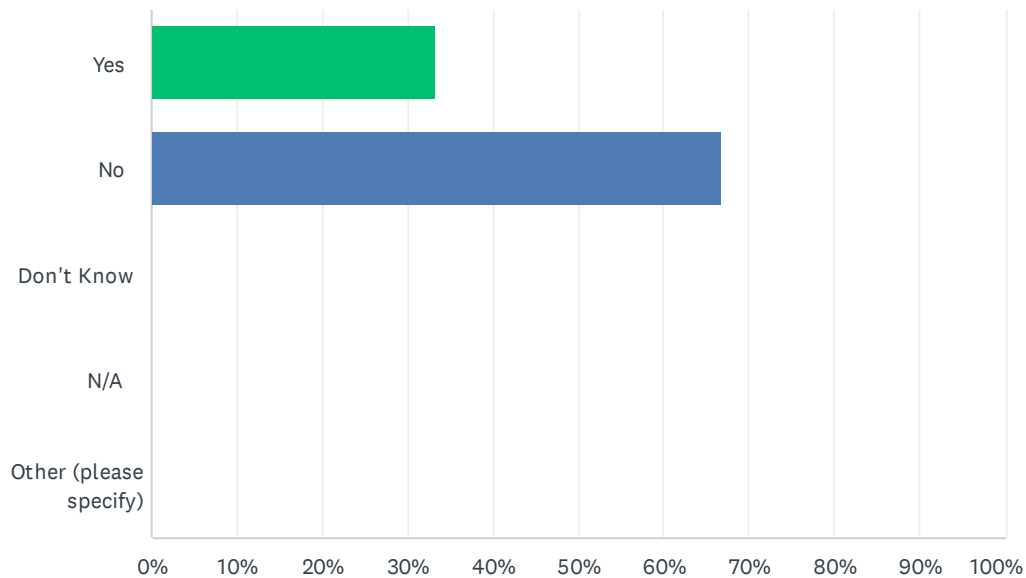


ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
Other (please specify)	0.00%	0
TOTAL		3

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

## Q5 Do you participate in Seneca County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 3   Skipped: 5

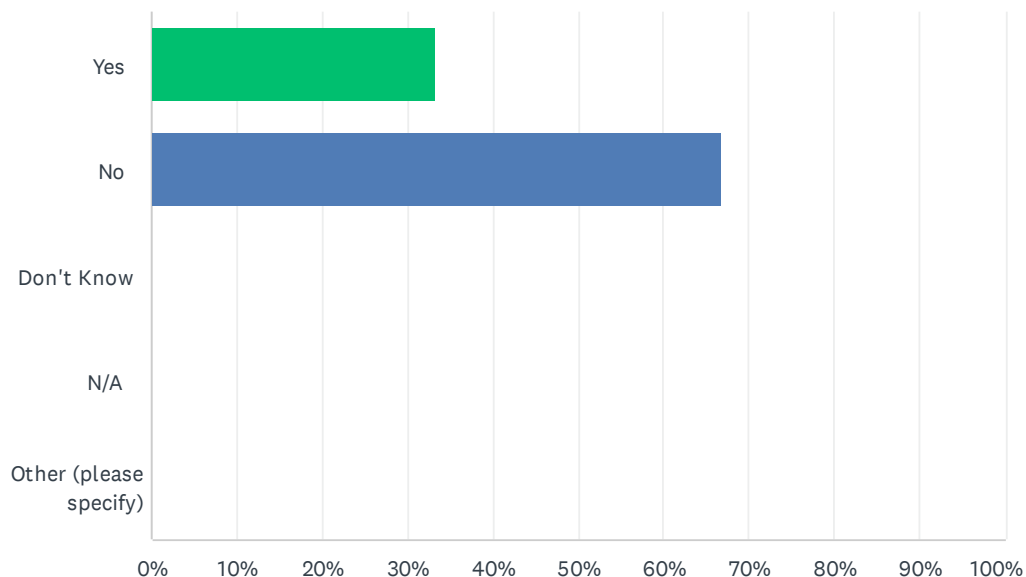


ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
N/A	0.00%	0
Other (please specify)	0.00%	0
TOTAL		3

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

**Q6 Do you include Seneca County or any Seneca municipalities in your Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of your community's essential functions for a period of time?**

Answered: 3 Skipped: 5

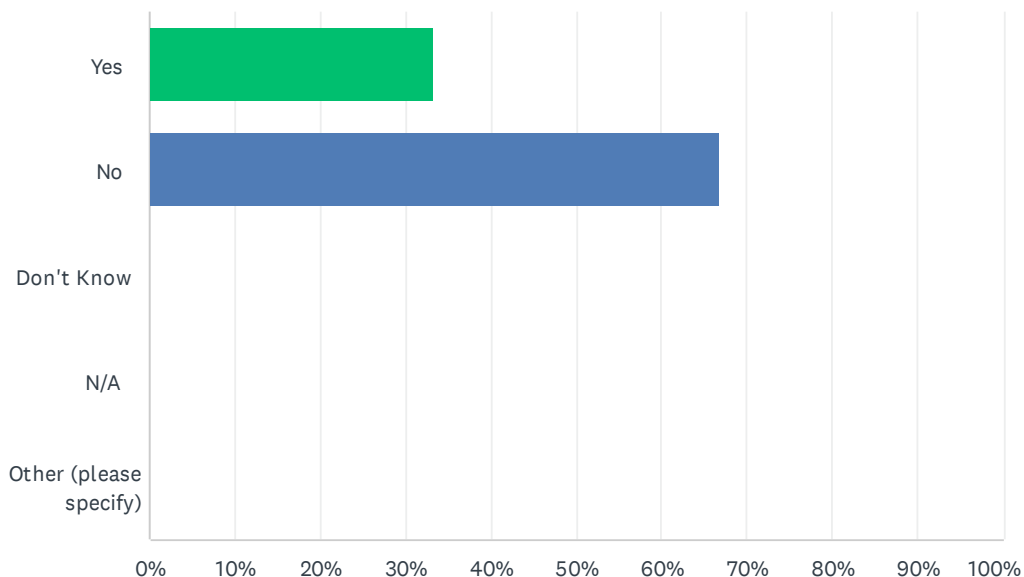


ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
N/A	0.00%	0
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>3</b>

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

**Q7 Do you participate in Seneca County or any Seneca municipality's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Seneca County's essential functions for a period of time?**

Answered: 3   Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
N/A	0.00%	0
Other (please specify)	0.00%	0
<b>TOTAL</b>		<b>3</b>

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

Q8 Thinking about emergency operations and disaster response, please explain how these actions are communicated between your staff and Seneca County.

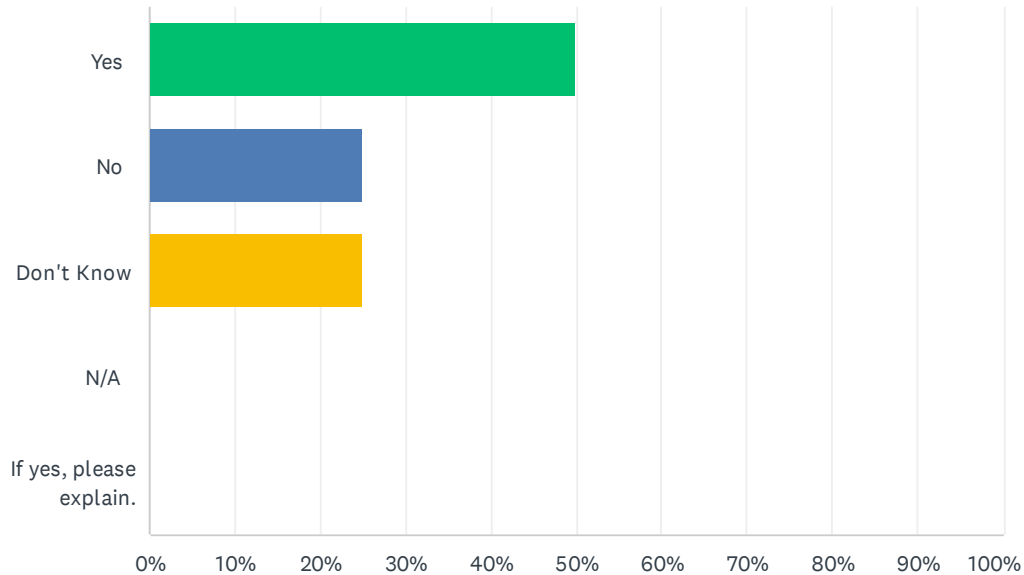
Answered: 2   Skipped: 6

#	RESPONSES	DATE
1	Excellent working relationship with Seneca County Emergency Manager. It is good to know that they would always be there for us, as we would always be there for them.	12/18/2023 10:01 AM
2	N/A	12/11/2023 8:01 PM



## Q9 Do your emergency officials have access to contact information for Seneca County's emergency operation centers?

Answered: 4 Skipped: 4

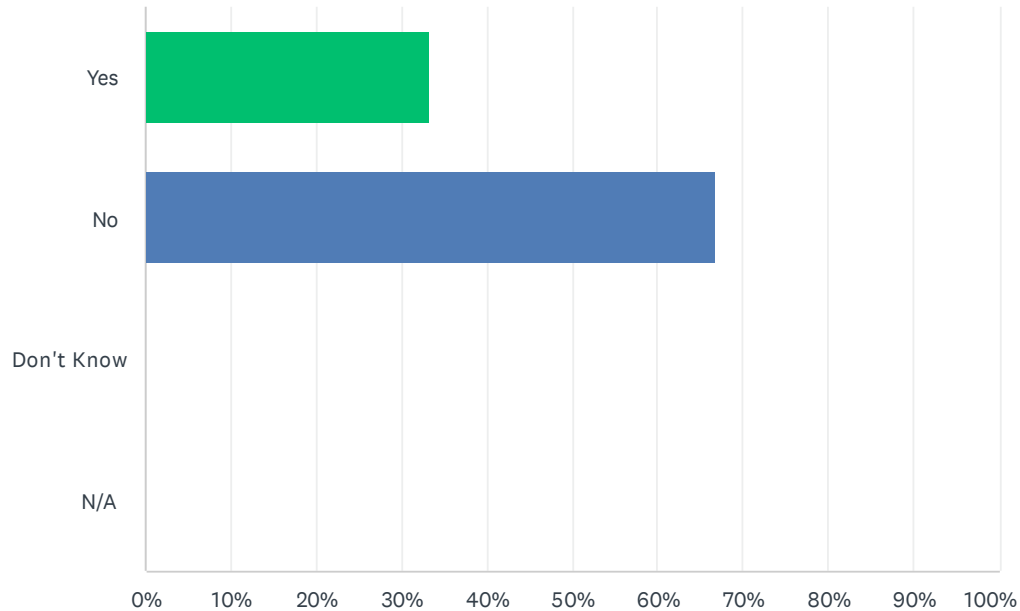


ANSWER CHOICES	RESPONSES	
Yes	50.00%	2
No	25.00%	1
Don't Know	25.00%	1
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		4

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q10 Do you share risk and vulnerability assessments (e.g., flood mapping, GIS, Hazus, etc.) with Seneca County?

Answered: 3   Skipped: 5

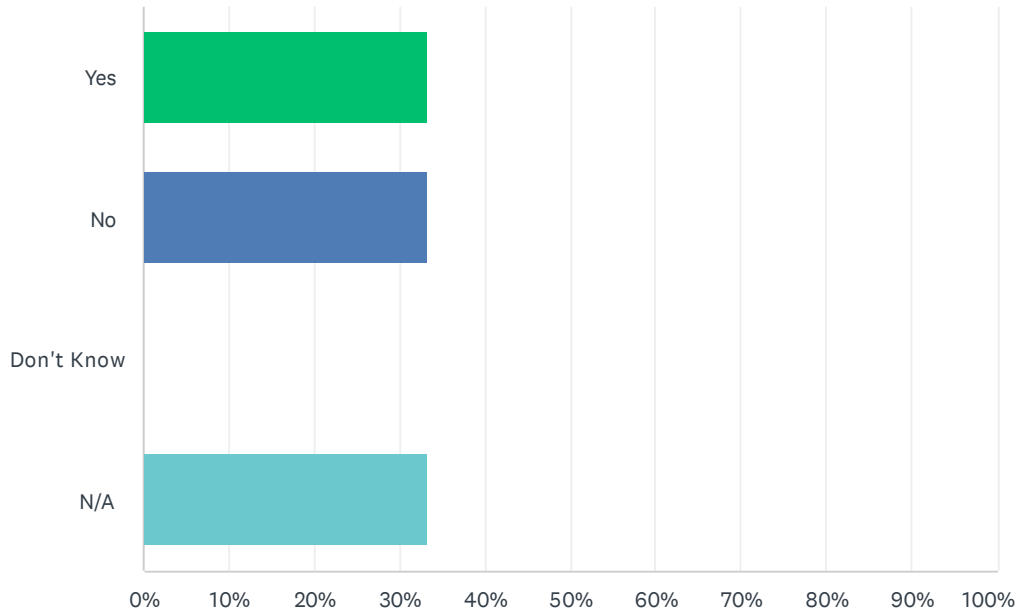


ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	66.67%	2
Don't Know	0.00%	0
N/A	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN.	DATE
1	Always available to them upon request.	12/18/2023 10:08 AM

## Q11 Is information regarding mitigation shared during the planning and implementation phases of the projects?

Answered: 3   Skipped: 5



ANSWER CHOICES		RESPONSES	
Yes		33.33%	1
No		33.33%	1
Don't Know		0.00%	0
N/A		33.33%	1
TOTAL			3

#	IF YES, PLEASE EXPLAIN.	DATE
1	Always available upon request.	12/18/2023 10:08 AM

Q12 Please describe any situations or hazards that are of concern to both your jurisdiction and Seneca County. For example, would flooding along a particular waterway impact both jurisdictions, or are there any facilities or infrastructure that would affect both jurisdictions if it/they failed?

Answered: 2   Skipped: 6

#	RESPONSES	DATE
1	Seneca County is in the Ginna 50 mile ingestion pathway.	12/18/2023 10:08 AM
2	NA	12/11/2023 8:02 PM

**Q13 Please explain how information is shared between your jurisdiction and Seneca County and any Seneca municipalities regarding mitigation projects.**

Answered: 2   Skipped: 6

#	RESPONSES	DATE
1	Verbally and via email	12/18/2023 10:08 AM
2	It's not	12/11/2023 8:02 PM

## Q14 Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?

Answered: 0   Skipped: 8

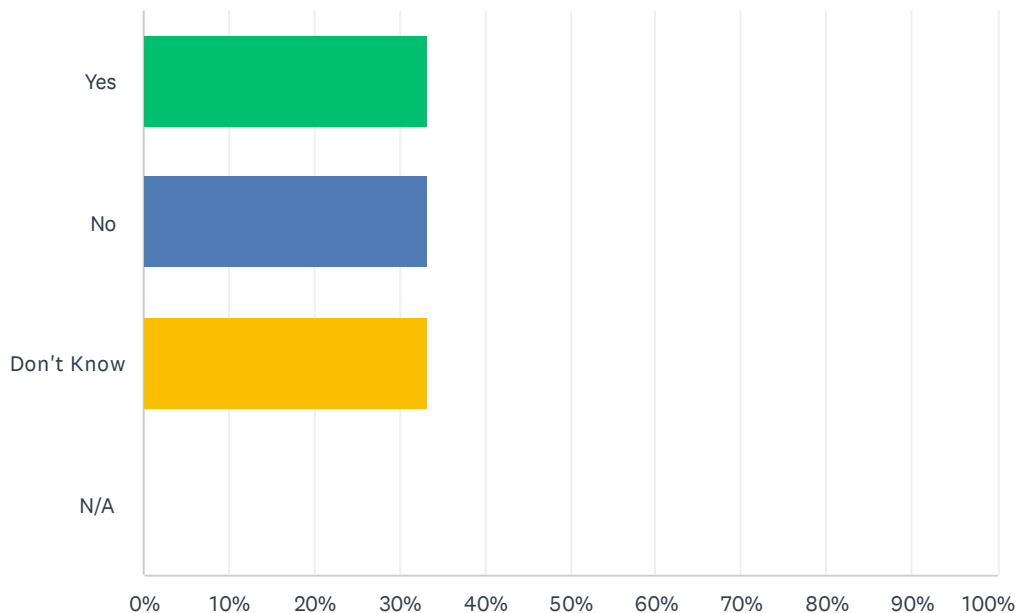
 No matching responses.

ANSWER CHOICES	RESPONSES	
Stormwater projects	0.00%	0
Watershed projects or planning	0.00%	0
Floodplain projects or planning	0.00%	0
Connected roadway improvements	0.00%	0
Natural infrastructure restoration	0.00%	0
Outreach (education and outreach campaigns, programs for public information, etc.)	0.00%	0
Other	0.00%	0
Total Respondents: 0		

#	IF YOU SELECTED ANYTHING ABOVE, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q15 Has your jurisdiction and Seneca County or any Seneca municipalities collaborated on grant applications?

Answered: 3   Skipped: 5



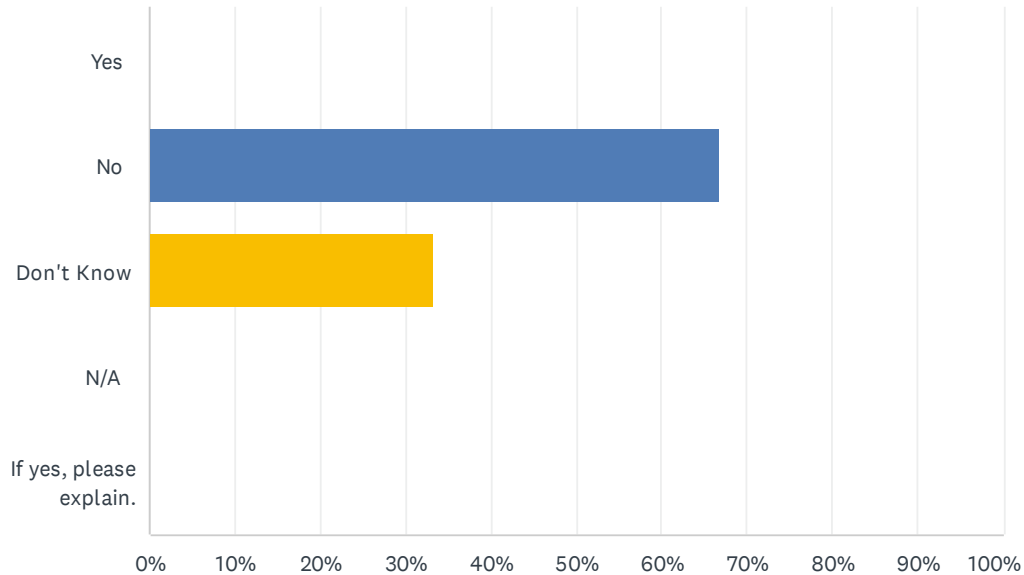
ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	33.33%	1
Don't Know	33.33%	1
N/A	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN.	DATE
1	Regional collaboration on Hazmat grant.	12/18/2023 10:09 AM



## Q16 Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Seneca County?

Answered: 3 Skipped: 5

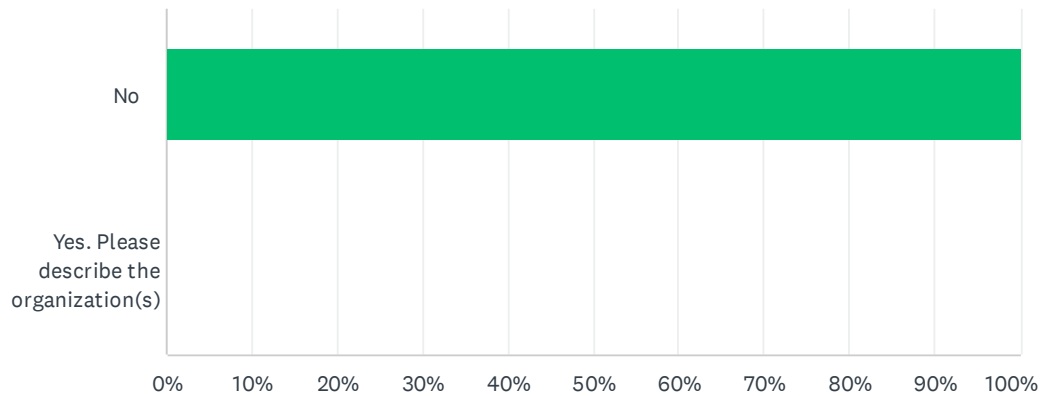


ANSWER CHOICES		RESPONSES	
Yes		0.00%	0
No		66.67%	2
Don't Know		33.33%	1
N/A		0.00%	0
If yes, please explain.		0.00%	0
TOTAL			3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q17 Are you aware of any organizations that support socially vulnerable or underserved populations in both your community and Seneca County?

Answered: 3 Skipped: 5



ANSWER CHOICES	RESPONSES	
No	100.00%	3
Yes. Please describe the organization(s)	0.00%	0
TOTAL		3

#	YES. PLEASE DESCRIBE THE ORGANIZATION(S)	DATE
	There are no responses.	

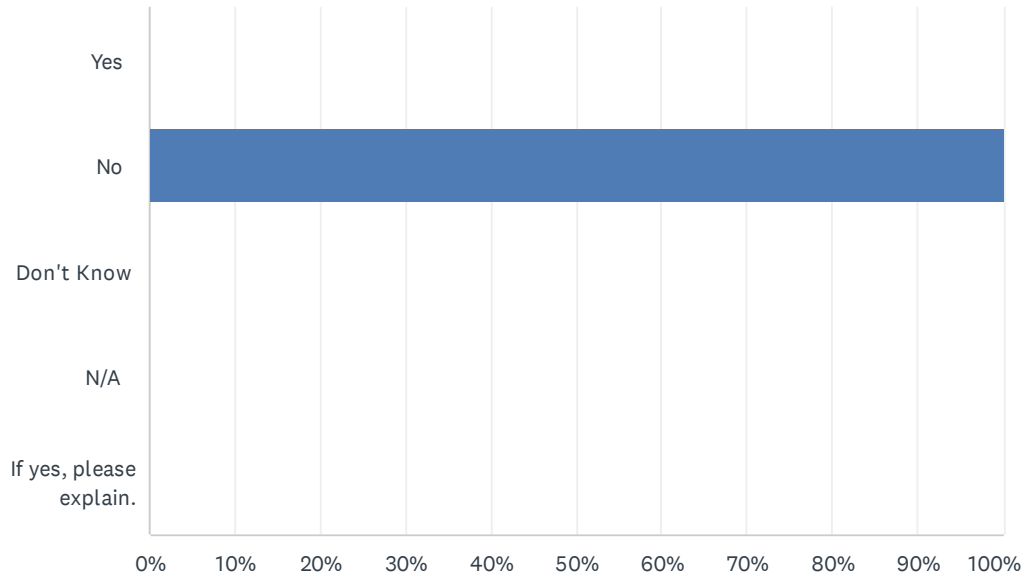
## Q18 What are opportunities or ideas to optimize cooperation with Seneca County on emergency management operations and hazard mitigation projects?

Answered: 0   Skipped: 8

#	RESPONSES	DATE
	There are no responses.	

## Q19 Do you collaborate with Seneca County or any Seneca municipalities on establishing evacuation routes and alternate evacuation routes?

Answered: 3 Skipped: 5

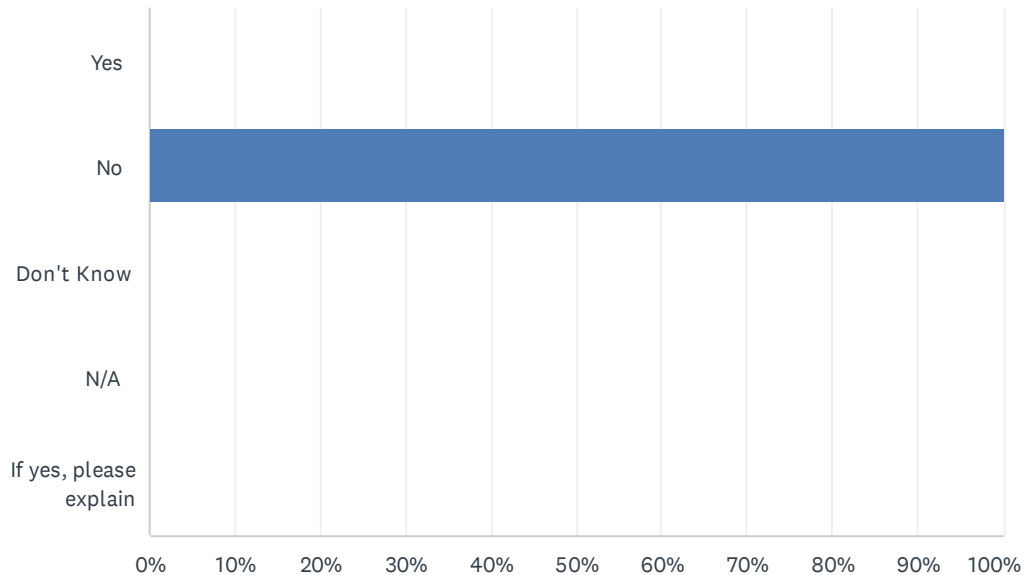


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	3
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q20 Do you and Seneca County or any Seneca County municipalities consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

Answered: 3 Skipped: 5

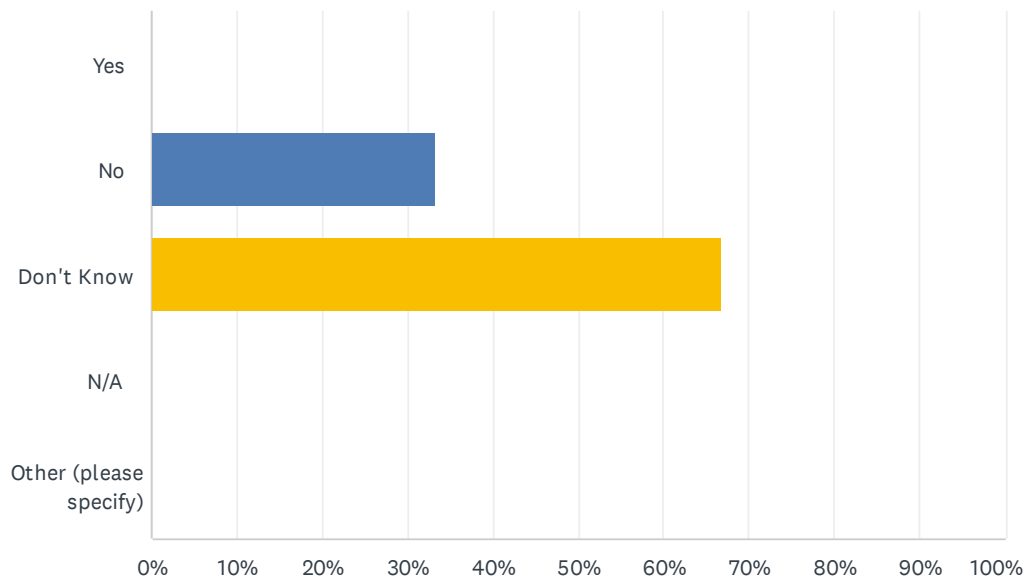


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	3
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain	0.00%	0
<b>TOTAL</b>		<b>3</b>

#	IF YES, PLEASE EXPLAIN	DATE
	There are no responses.	

## Q21 Are evacuation routes maintained to the same level of protection across jurisdictional lines?

Answered: 3   Skipped: 5

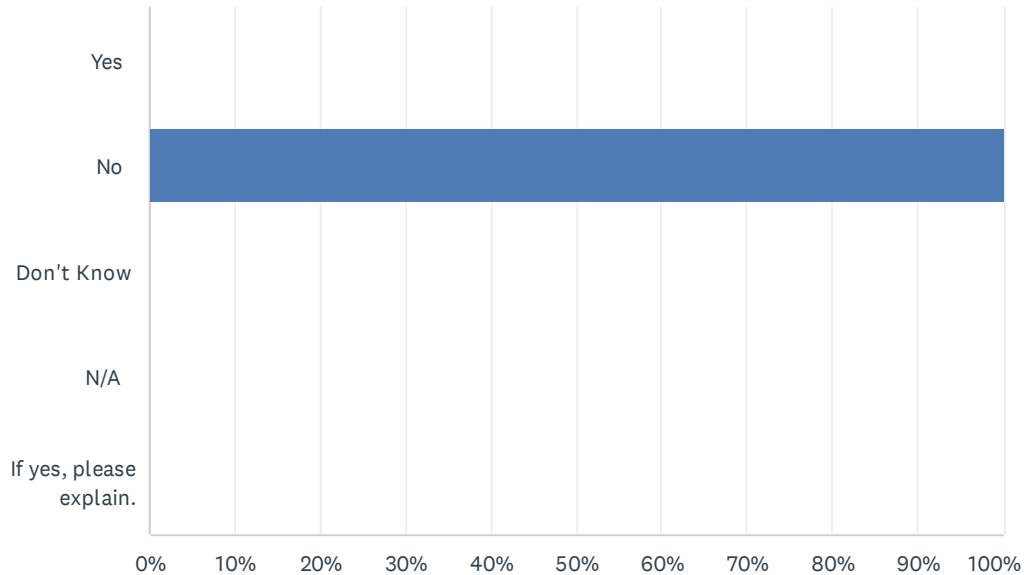


ANSWER CHOICES		RESPONSES	
Yes		0.00%	0
No		33.33%	1
Don't Know		66.67%	2
N/A		0.00%	0
Other (please specify)		0.00%	0
TOTAL			3

#	OTHER (PLEASE SPECIFY)	DATE
	There are no responses.	

## Q22 Do you collaborate with Seneca County or any Seneca municipalities on establishing shelters?

Answered: 3 Skipped: 5



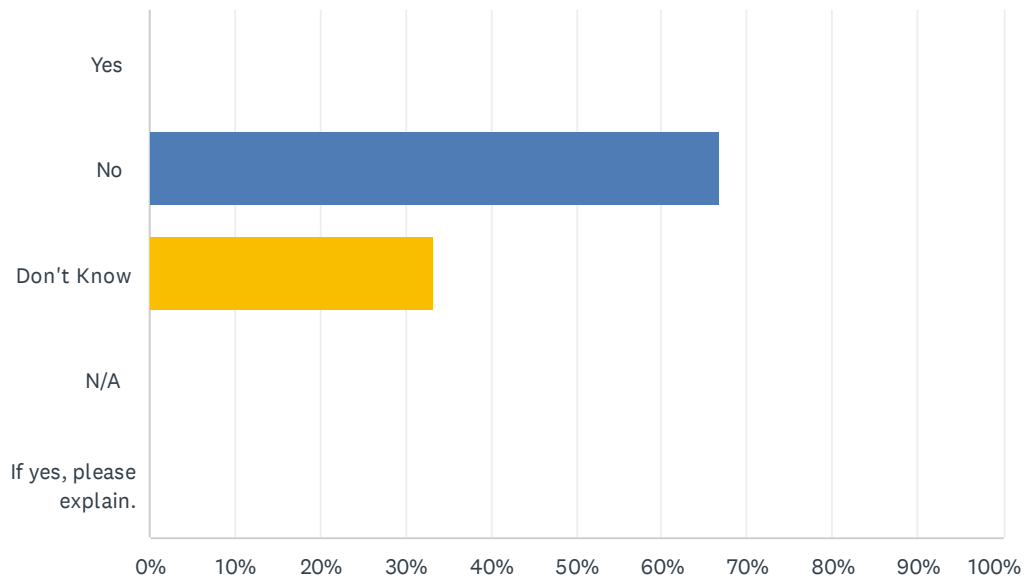
ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	100.00%	3
Don't Know	0.00%	0
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	



## Q23 Do you and Seneca County or any Seneca municipalities consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

Answered: 3 Skipped: 5

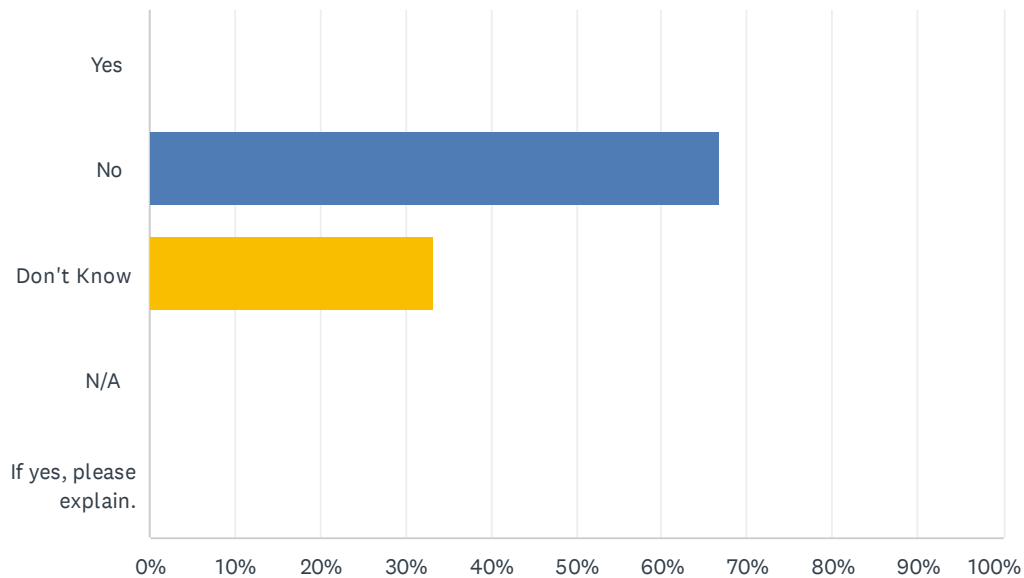


ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	66.67%	2
Don't Know	33.33%	1
N/A	0.00%	0
If yes, please explain.	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q24 Do you and Seneca County share any spaces suitable for temporary housing? This includes locations suitable to place temporary housing units to house residents displaced by a disaster.

Answered: 3 Skipped: 5



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	66.67%	2
Don't Know	33.33%	1
N/A	0.00%	0
If yes, please explain.	0.00%	0
<b>TOTAL</b>		<b>3</b>

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

## Q25 Do you have any relevant questions or comments for Seneca County?

Answered: 2   Skipped: 6

#	RESPONSES	DATE
1	No	12/18/2023 10:10 AM
2	No	12/11/2023 8:03 PM

## APPENDIX D: PARTICIPTION MATRIX



The matrix in Appendix D is intended to give a broad overview of FEMA, New York State, County, municipal and stakeholder personnel that participated in the Seneca County HMP update planning process. Meeting attendees and input provided are also included. All participants were encouraged to attend the kick-off meeting, risk assessment meeting, and mitigation strategy workshop. Participants unable to attend a Steering Committee and Planning Partnership meeting were provided access to meeting recordings and materials. During the planning process the consultant contacted each participant to offer support, explain the process, and facilitate the submittal and review of critical documents.

Participation is defined as having input to the hazard analysis (providing critical facility, hazard event, vulnerability data), and as having participated in the mitigation workshop or alternate annex meetings as described in the HMP for the purpose of creating a mitigation strategy to be included in each municipalities annex in Volume II.

DRAFT



Jurisdiction	Name	Title	Primary POC	Alternate POC	Attended SC Kickoff Meeting, 11/02/23	Attended PP Kickoff Meeting, 11/02/23	Attended SC Risk Assessment Review Meeting, 09/12/24	Attended Risk Assessment and Mitigation Strategy Meeting, 09/19/24	Attended Morning Draft Plan Review Meeting, 02/18/25	Attended Evening Draft Plan Review Meeting, 02/18/25	Individual Meetings with the County and/or Contractor
Seneca County	Mike Enslow	Chairman of the Board			X	X				X	
Seneca County	Melissa Taylor	911 and Emergency Management Director	X		X	X	X	X	X	X	X
Seneca County	Toni DiGiovanni	Deputy Emergency Management Director		X	X	X	X	X	X	X	X
Seneca County	Jeffrey Case	Fire Coordinator			X	X	X			X	
Seneca County	Amanda Forney	GIS Technician									
Seneca County	Kristopher Rodger	Public Safety Administrator			X	X		X			
Seneca County	Annie Mahoney	Deputy Commissioner, Division of Human Services			X		X				
Seneca County	Michael Whitley	Deputy Commissioner, Division of Human Services			X		X				
Seneca County	Margaret Morse	Director, Mental Health Services			X		X		X		
Seneca County	Alex McGraw	Soil and Water District					X				
Seneca County	Erin Peruzzini	District Technician, Soil and Water District			X		X		X		
Seneca County	Roy Gates	Superintendent, Highway Department			X		X		X		
Seneca County	Stacey Bennett	Highway Department			X						
Seneca County	Scott King	Director of Public Health			X						
Seneca County	Mark Shaw	Code Enforcement Officer									
Seneca County	Harriet Haynes	Senior Planner									
Seneca County	Jill Henry	Director, Planning Board						X			
Seneca County	Lee Earp	Code Enforcement Officer								X	



## Appendix D: Participation Matrix

Jurisdiction	Name	Title	Primary POC	Alternate POC	Attended SC Kickoff Meeting, 11/02/23	Attended PP Kickoff Meeting, 11/02/23	Attended SC Risk Assessment Review Meeting, 09/12/24	Attended Risk Assessment and Mitigation Strategy Meeting, 09/19/24	Attended Morning Draft Plan Review Meeting, 02/18/25	Attended Evening Draft Plan Review Meeting, 02/18/25	Individual Meetings with the County and/or Contractor
Seneca County	Jeff Shipley	President, Chamber of Commerce							X		
Town of Covert	Michael Reynolds	Town Supervisor	X			X		X			
Town of Covert	Jeffrey MacCheyne	Highway Superintendent		X							
Town of Covert	Roger Ward	Code Enforcement Officer									
Town of Covert	Susan Frykholm	Town Representative						X			
Town of Covert	Leslie Adams	Town Clerk									
Town of Fayette	Jeffrey Trout	Town Supervisor	X			X					X
Town of Fayette	Jenn Salone	Councilwoman		X		X					
Town of Fayette	Mike Combs	Land Use Officer									
Town of Fayette	Scott King	Director of Public Health									
Town of Fayette	Andrew Brown	Highway Superintendent									
Town of Junius	Ernie Brownwell	Town Supervisor	X								X
Town of Junius	David Fisk	Highway Superintendent		X							
Town of Lodi	Kyle Barnhart	Former Town Supervisor									
Town of Lodi	Luke Latini	Town Supervisor	X					X			X
Town of Lodi	Rick Jacot	Highway Superintendent		X							
Town of Ovid	Joe Borst	Town Supervisor	X			X		X		X	
Town of Ovid	Jeremy Huff	Highway Superintendent		X							
Town of Romulus	David Haynes	Town Supervisor	X			X					
Town of Romulus	Janet Lynch	Planning Board Chairperson		X							X
Town of Romulus	Tim Dorn	Code Enforcement Officer									





## Appendix D: Participation Matrix

Jurisdiction	Name	Title	Primary POC	Alternate POC	Attended SC Kickoff Meeting, 11/02/23	Attended PP Kickoff Meeting, 11/02/23	Attended SC Risk Assessment Review Meeting, 09/12/24	Attended Risk Assessment and Mitigation Strategy Meeting, 09/19/24	Attended Morning Draft Plan Review Meeting, 02/18/25	Attended Evening Draft Plan Review Meeting, 02/18/25	Individual Meetings with the County and/or Contractor
Town of Seneca Falls	Michael Ferrara	Former Town Supervisor									
Town of Seneca Falls	Frank Schmitter	Town Supervisor	X							X	
Town of Seneca Falls	Thomas Cleere	Sergeant, Police Department		X	X						
Town of Seneca Falls	Peter Porcelli	Zoning & Code Enforcement Officer									
Town of Seneca Falls	Peter Soscia	Town Manager									
Town of Tyre	Elizabeth Partee	Town Supervisor	X			X		X			
Town of Tyre	Eric Bush	Highway Superintendent		X							
Town of Varick	Robert Hayssen	Town Supervisor	X								X
Town of Varick	Ben Freier	Highway Superintendent		X							
Town of Varick	Tim Dorn	Code Enforcement Officer									
Town of Varick	Donna Karlsen	Town Clerk									
Town of Waterloo	Don Trout	Town Supervisor	X			X					
Town of Waterloo	Joe Mull	Highway Superintendent		X							X
Town of Waterloo	Jim Cleere	Assessor/Code/Zoning									
Village of Interlaken	Richard Richardson	Mayor	X			X		X			
Village of Interlaken	Nancy Swartwood	Village Clerk		X							
Village of Interlaken	Wes Ahouse	Highway Supervisor									
Village of Lodi	Rose Riley	Mayor	X								
Village of Lodi	Nancy Jones	Village Clerk		X							
Village of Ovid	Leon Kelly	Mayor	X			X					
Village of Ovid	Jeremy Huff	Superintendent of Highway		X							



Jurisdiction	Name	Title	Primary POC	Alternate POC	Attended SC Kickoff Meeting, 11/02/23	Attended PP Kickoff Meeting, 11/02/23	Attended SC Risk Assessment Review Meeting, 09/12/24	Attended Risk Assessment and Mitigation Strategy Meeting, 09/19/24	Attended Morning Draft Plan Review Meeting, 02/18/25	Attended Evening Draft Plan Review Meeting, 02/18/25	Individual Meetings with the County and/or Contractor
Village of Ovid	Cathy Kerns	Clerk and Treasurer									
Village of Ovid	Michael Snyder	Former Superintendent of Highway									
Village of Waterloo	Walter Bennett	Mayor		X							
Village of Waterloo	Don Northrup	Administrator	X			X		X		X	X
Village of Waterloo	Lee Marquart	Code Enforcement Officer									

## APPENDIX E: ACTION WORKSHEET TEMPLATE



This appendix includes the instructions and template provided for the development of Mitigation Strategy Action Worksheets. These worksheets are included in each jurisdictional annex of the plan in compliance with NYS DHSES Mitigation Guidance.

<b>Action Name:</b>			
<b>Lead Agency:</b>			
<b>Supporting Agencies:</b>			
<b>Hazard(s) of Concern:</b>	<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 type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm	
<b>Description of the Problem:</b>			
<b>Description of the Solution:</b>			
<b>Estimated Cost:</b>			
<b>Potential Funding Sources:</b>			
<b>Implementation Timeline:</b>			
<b>Goals Met:</b>			
<b>Benefits:</b>			
<b>Impact on Socially Vulnerable Populations:</b>			
<b>Impact on Future Development:</b>			
<b>Impact on Critical Facilities/Lifelines:</b>			
<b>Impact on Capabilities:</b>			
<b>Climate Change Considerations:</b>			
<b>Mitigation Category</b>	<input 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)	
<b>CRS Category</b>	<input 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 type="checkbox"/> Emergency Services (ES)	
<b>Priority</b>	<input type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
<b>Alternatives:</b>	<b>Action</b>	<b>Evaluation</b>	
	No Action	Current problem continues	



## GUIDANCE TO COMPLETE THE MITIGATION ACTION WORKSHEET

The following provides additional guidance on how to complete the Mitigation Action Worksheet. Please note that NYS DHSES requires a minimum of two proposed mitigation activities.

### Action Worksheet

**Action Name:** Each action must have a unique project number referenced here and in the Action Tables.

**Lead Agency:** Identify the name of a department or agency responsible for implementation, not the jurisdiction.

**Supporting Agencies:** Identify the name of any departments or agencies which will support the efforts of the lead agency.

**Hazard(s) of Concern:** Please identify the hazard(s) being addressed with this action. The Hazards of Concern included in the Seneca County Hazard Mitigation Plan include:

- Dam Failure
- Disease Outbreak
- Drought
- Extreme Temperature
- Flood
- Severe Storm
- Severe Winter Storm
- Wildfire

**Description of the Problem:** Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages, and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.

**Description of the Solution:** Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).

**Estimated Cost:** Provide an estimated cost for implementation; rough dollar figures are preferred, but if unknown, a specified range is acceptable. Consider all costs associated with implementation. (Low <\$10,000, Medium \$10,000-\$100,000, High >\$100,000).

**Potential Funding Source(s):** Multiple sources of potential funding should be listed when appropriate.

**Estimated Time Required for Project Implementation:** Provide the estimated time required to complete the project from start to end. (Short-term, Long-term, or On-going/Continuous)

**Goals Met:**



- Goal 1: Protect life, property, and the environment from current and future impacts.
- Goal 2: Coordinate hazard mitigation programs and other planning efforts that affect the County.
- Goal 3: Increase public preparedness and awareness of natural hazards.
- Goal 4: Enhance mitigation capabilities to reduce hazard vulnerabilities.
- Goal 5: Support continuity of operations before, during, and after hazard events.
- Goal 6: Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
- Goal 7: Address long-term vulnerabilities from high hazard dams.

**Benefits:** Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.

**Impact on Socially Vulnerable Populations:** Provide a narrative on how this action will impact socially vulnerable populations within the jurisdiction and other impacted areas. These impacts can be positive or negative.

**Impact on Future Development:** Provide a narrative on how this action will impact future development within the jurisdiction and other impacted areas. These impacts can be positive or negative.

**Impact on Critical Facilities/Lifelines:** Provide a narrative on how this action will impact critical facilities and community lifelines within the jurisdiction and other impacted areas. These impacts can be positive or negative.

**Impact on Capabilities:** Provide a narrative on how this action will impact capabilities within the jurisdiction and other impacted areas. These impacts can be positive or negative.

**Climate Change Considerations:** Provide a brief narrative on how climate change may exacerbate conditions which could impact this action.

**Mitigation Action Type:**

- 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 manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also 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.

**CRS Category:**

- 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

**Prioritization:** Please enter High/Medium/Low. Refer to the prioritization exercise and table.

**Actions/Projects Considered:** Please consider three different options to mitigate the problem identified. One alternative is always to accept the current level or risk (tolerate the vulnerability/problem) by deciding to take no action at this time. If you choose to take no action, please complete the worksheet up to and including this section and this will be noted in the Plan.

Please include the name of the action considered and a brief reason as to why the action was not selected. The reasoning documents the consideration of these alternatives.

## Guidance to Complete the Prioritization Table

Complete this table to help evaluate and prioritize each mitigation action being considered by your municipality. Please use these 14 criteria to assist in evaluating and prioritizing new mitigation actions identified. Specifically, for each new mitigation action, assign a numeric rank (-1, 0, or 1) for each of the 14 evaluation criteria in the provided table, defined as follows:

- 1 = Highly effective or feasible
- 0 = Neutral
- 1 = Ineffective or not feasible

Use the numerical results of this exercise to help prioritize your actions as “Low”, “Medium” or “High” priority. Your municipality may recognize other factors or considerations that affect your overall prioritization; these should be identified in narrative in the Priority field of the worksheet. The 14 evaluation/prioritization criteria are:

1. Life Safety—How effective will the action be at protecting lives and preventing injuries? Will the proposed action adversely affect one segment of the population?
2. Property Protection—How significant will the action be at eliminating or reducing damage to structures and infrastructure?
3. Cost-Effectiveness—Are the costs to implement the action commensurate with the benefits achieved?
4. Political—Is there overall public support for the action? Is there the political will to support it? Is the action at odds with development pressures?
5. Legal—Does the jurisdiction have the authority to implement the action?





6. Fiscal—Is funding for the action available under existing program budgets or would it require a new budget authorization or funding from another source, such as grants?
7. Environmental—What are the potential environmental impacts of the action? Will it comply with environmental regulations? Are there co-benefits of this action?
8. Social Vulnerability—Does the action benefit socially vulnerable populations and underserved communities?
9. Administrative—Does the jurisdiction have the staff and administrative capabilities to implement the action and maintain it or will outside help be necessary? Does the scale and scope of the action align with the jurisdiction's capabilities?
10. Hazards of Concern—Does the action address one or more of the jurisdiction's high-ranked hazards?
11. Climate Change—Does the action incorporate climate change projections? Is the action designed to withstand or address long-term conditions?
12. Timeline—Can the action be completed in less than five years?
13. Community Lifelines—Does the action benefit community lifelines?
14. Other Local Objectives—Does the action advance other local objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of other plans and programs?

## APPENDIX F: PLAN MAINTENANCE TOOLS

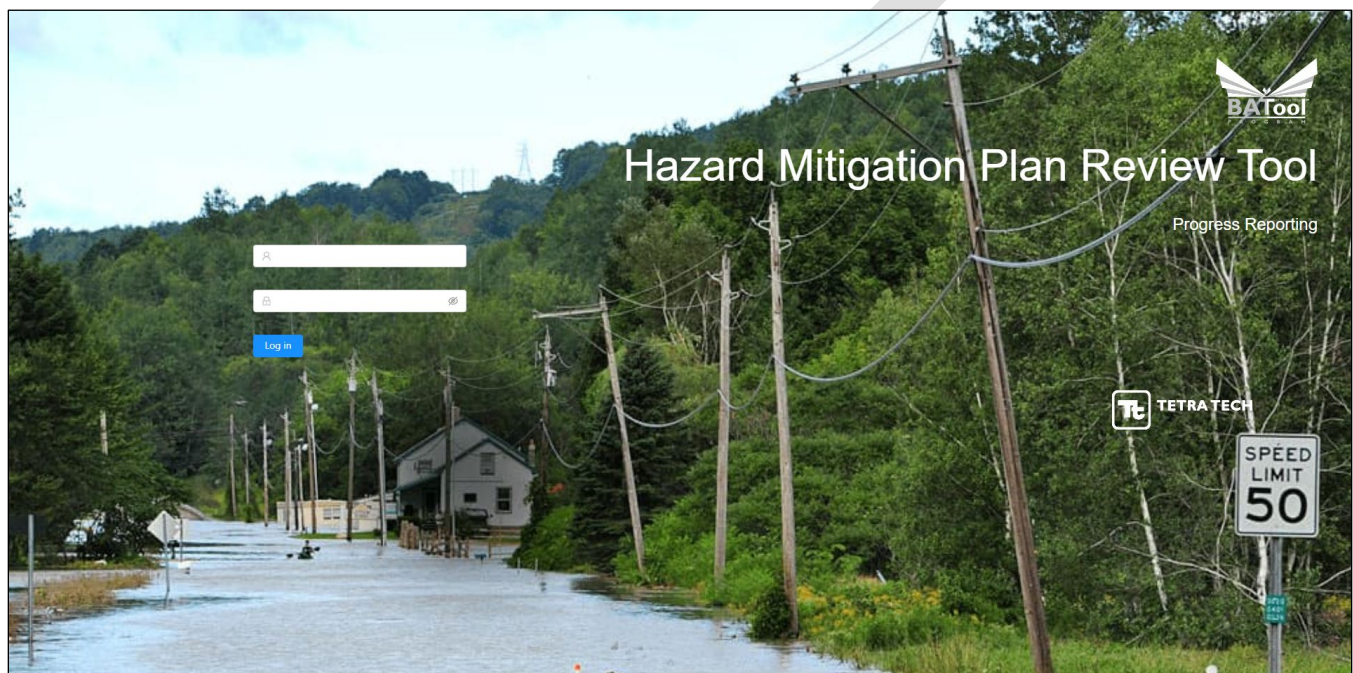


This appendix includes tools and worksheets to facilitate plan maintenance and review by the Seneca County Steering Committee and Planning Partnership.

In the first year of the performance period, an online performance progress reporting system, the BATool<sup>SM</sup> will provide municipal and county representatives direct access to their mitigation initiatives to easily update the status of each project, document successes or obstacles to implementation, add or delete projects to maintain mitigation project implementation. This online program will capture information and roll all input into a report to summarize mitigation strategy progress.



Figure F-1. BATool<sup>SM</sup> Screenshot



The FEMA 386-4 guidance worksheets are also available to assist with progress reporting. These worksheets are provided in this section for ease of access to the HMP Coordinator and Planning Partnership to maintain the 2025 HMP throughout its period of performance.



Worksheet #1

Progress Report

step 2

Page 1 of 3

Progress Report Period: \_\_\_\_\_ to \_\_\_\_\_  
(date) (date)

Project Title: \_\_\_\_\_ Project ID#: \_\_\_\_\_

Responsible Agency: \_\_\_\_\_

Address: \_\_\_\_\_

City/County: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_

Phone #(s): \_\_\_\_\_ email address: \_\_\_\_\_

List Supporting Agencies and Contacts:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Project Cost: \_\_\_\_\_

Anticipated Cost Overrun/Underrun: \_\_\_\_\_

Date of Project Approval: \_\_\_\_\_ Start date of the project: \_\_\_\_\_

Anticipated completion date: \_\_\_\_\_

Description of the Project (include a description of each phase, if applicable, and the time frame for completing each phase): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Milestones	Complete	Projected Date of Completion



**Plan Goal(s)/Objective(s) Addressed:**

Goal: \_\_\_\_\_

Objective: \_\_\_\_\_

**Indicator of Success** (e.g., losses avoided as a result of the acquisition program):

*In most cases, you will list losses avoided as the indicator. In cases where it is difficult to quantify the benefits in dollar amounts, you will use other indicators, such as the number of people who now know about mitigation or who are taking mitigation actions to reduce their vulnerability to hazards.*

\_\_\_\_\_  
\_\_\_\_\_

**Status** (Please check pertinent information and provide explanations for items with an asterisk. For completed or canceled projects, see Worksheet #2 — to complete a project evaluation):

**Project Status**

☐ Project on schedule

☐ Project completed

☐ Project delayed\*

\*explain: \_\_\_\_\_

☐ Project canceled

**Project Cost Status**

☐ Cost unchanged

☐ Cost overrun\*

\*explain: \_\_\_\_\_

☐ Cost underrun\*

\*explain: \_\_\_\_\_

**Summary of progress on project for this report:**

A. What was accomplished during this reporting period?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. What obstacles, problems, or delays did you encounter, if any?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. How was each problem resolved?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Next Steps:** What is/are the next step(s) to be accomplished over the next reporting period?

Other comments:





## Worksheet #2 Evaluate Your Planning Team **step 3**

*When gearing up for the plan evaluation, the planning team should reassess its composition and ask the following questions:*

	YES	NO
Have there been local staffing changes that would warrant inviting different members to the planning team?		
<b>Comments/Proposed Action:</b>		
Are there organizations that have been invaluable to the planning process or to project implementation that should be represented on the planning team?		
<b>Comments/Proposed Action:</b>		
Are there any representatives of essential organizations who have not fully participated in the planning and implementation of actions? If so, can someone else from this organization commit to the planning team?		
<b>Comments/Proposed Action:</b>		
Are there procedures (e.g., signing of MOAs, commenting on submitted progress reports, distributing meeting minutes, etc.) that can be done more efficiently?		
<b>Comments/Proposed Action:</b>		
Are there ways to gain more diverse and widespread cooperation?		
<b>Comments/Proposed Action:</b>		
Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?		
<b>Comments/Proposed Action:</b>		

*If the planning team determines the answer to any of these questions is "yes," some changes may be necessary.*



**Worksheet #3 Evaluate Your Project Results****step 3**

page 1 of 2

Project Name and Number: \_\_\_\_\_

Project Budget: \_\_\_\_\_

Project Description: \_\_\_\_\_

Associated Goal and Objective(s): \_\_\_\_\_

Indicator of Success (e.g., losses avoided): \_\_\_\_\_

*Insert location map.  
Include before and after  
photos if appropriate.*

Was the action implemented? ☐ YES ☐ NOIF **NO****Why not?**

Was there political support for the action?

Were enough funds available?

Were workloads equitably or realistically distributed?

Was new information discovered about the risks or community that made implementation difficult or no longer sensible?

Was the estimated time of implementation reasonable?

Were sufficient resources (for example staff and technical assistance) available?

YES NO

☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐☐ ☐IF **YES**

What were the results of the implemented action? \_\_\_\_\_

---

---

---

---

---

---





page 2 of 2

	YES	NO
Were the outcomes as expected? If No, please explain:		
Did the results achieve the goal and objective(s)? Explain how:		
Was the action cost-effective? Explain how or how not:		
What were the losses avoided after having completed the project?		
If it was a structural project, how did it change the hazard profile?		
Additional comments or other outcomes:		

Date: \_\_\_\_\_

Prepared by: \_\_\_\_\_



## Worksheet #4 Revisit Your Risk Assessment **step 4**

Risk Assessment Steps	Questions	YES	NO	COMMENTS
<b>Identify hazards</b>	Are there new hazards that can affect your community?			
<b>Profile hazard events</b>	Are new historical records available?			
	Are additional maps or new hazard studies available?			
	Have chances of future events (along with their magnitude, extent, etc.) changed?			
	Have recent and future development in the community been checked for their effect on hazard areas?			
<b>Inventory assets</b>	Have inventories of existing structures in hazard areas been updated?			
	Is future land development accounted for in the inventories?			
	Are there any new special high-risk populations?			
<b>Estimate losses</b>	Have loss estimates been updated to account for recent changes?			

*If you answered "Yes" to any of the above questions, review your data and update your risk assessment information accordingly.*

**Worksheet #5****Revise the Plan****step 4***page 1 of 4***Prepare to update the plan.***When preparing to update the plan:**Check the box when addressed:*

1. Gather information, including project evaluation worksheets, progress reports, studies, related plans, etc.	<input type="checkbox"/>
Comments:	
2. Reconvene the planning team, making changes to the team composition as necessary (see results from Worksheet #2).	<input type="checkbox"/>
Comments:	

**Consider the results of the evaluation and new strategies for the future.***When examining the community consider:**Check the box when addressed:*

1. The results of the planning and outreach efforts.	<input type="checkbox"/>
Comments:	
2. The results of the mitigation efforts.	<input type="checkbox"/>
Comments:	



page 2 of 4

3. Shifts in development trends.	
Comments:	
4. Areas affected by recent disasters.	
Comments:	
5. The recent magnitude, location, and type of the most recent hazard or disaster.	
Comments:	
6. New studies or technologies.	
Comments:	
7. Changes in local, state, or federal laws, policies, plans, priorities, or funding.	
Comments:	



page 3 of 4

8. Changes in the socioeconomic fabric of the community.	
Comments:	
9. Other changing conditions.	
Comments:	

**Incorporate your findings into the plan.**

*When examining the plan consider:*

*Check the box when addressed:*

1. Revisit the risk assessment. (See Worksheet #4)	
Comments:	
2. Update your goals and strategies.	
Comments:	
3. Recalculate benefit-cost analyses of projects to prioritize action items.	
Comments:	

## APPENDIX G: CRITICAL FACILITY INVENTORY





Due to the sensitive nature of this information, details of critical facilities have been redacted for the public document. A full list of critical facilities identified for the vulnerability analysis is available at the Seneca County Emergency Management Office. Contact the Seneca County Emergency Management Office Director, Melissa Taylor, to view the list.

DRAFT

## APPENDIX H: RISK ASSESSMENT SUPPLEMENTARY DATA



This appendix contains information and details to support information provided in Chapters 6 through 13 (Hazard Profiles).

## HISTORY OF HAZARD EVENTS WITHIN THE COUNTY

To supplement the information provided in this plan, events prior to the update of this plan are included below by hazard of concern type. Many sources provided historical information regarding previous occurrences and losses associated with hazards throughout New York and Seneca County. It is noted that, with a number of sources reviewed for the purpose of this HMP, loss and impact information for many events could vary depending on the sources.

For more information on past events and impacts, refer to the 2018 Seneca County Hazard Mitigation Plan.

### Dam Failure

Known dam failure events that have impacted New York State and Seneca County between 2008 and 2017 are identified in Table H-1. Many sources were researched for historical information regarding dam failure events in Seneca County; therefore, Table H-1 may not include all dam failure events that have impacted the County.

Table H-1. Dam Failure Events in Seneca County Between 2008 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
March 30, 2008	Dam Incident	N/A	No	Smoke condition in powerhouse due to problem with Unit #12.
March 31, 2008	Dam Incident	N/A	No	On March 31, 2008, the Licensee was contacted to confirm a report by the NYS Canal Corp that there was a fire at the Seneca Falls powerhouse. The Licensee's representative stated that a smoke condition occurred at one of the units during the morning of Sunday, March 30. Their operator was alerted to the situation and preceded to the powerhouse. The unit shut itself down automatically when this problem arose. It appears that there was a hot spot between the rotor and stator of this unit that caused the smoke condition. The Licensee stated that they also contacted the local fire department as a precaution. The other two units are operating properly and there is a cylinder gate that can be opened to release more flow from the reservoir. The Obermeyer gate on top of the spillway and the four bottom gate operated by the NYS Canal Corp are operable and not affected by the incident. The incident did not result in an uncontrolled release of water.

Sources: Stanford University 2018; Association of State Dam Safety Officials 2021

Notes:

N/A Not Applicable



## Drought

The drought hazard has not been profiled in previous updates of the Seneca County HMP; therefore, a historical collection of this information is unavailable.

## Earthquake

Known earthquake events that have impacted New York State and Seneca County between 1857 and 2017 are identified in Table H-2. Many sources were researched for historical information regarding earthquake events in Seneca County; therefore, Table H-2 may not include all earthquake events that have impacted the County.

Table H-2. Earthquake Events in Seneca County Between 1972 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
September 10, 2013	Earthquake	N/A	No	A magnitude 1.7 earthquake occurred 7 kilometers west-southwest of Lodi in Seneca Lake. The earthquake was 5.0 kilometers in depth.

Sources: USGS 2023

## Extreme Temperature

Known extreme temperature events that have impacted New York State and Seneca County between 2000 and 2017 are identified in Table H-3. Many sources were researched for historical information regarding extreme temperature events in Seneca County; therefore, Table H-3 may not include all extreme temperature events that have impacted the County.

Table H-3. Extreme Temperature Events in Seneca County Between 2000 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
September 28-29, 2000	Extreme Cold	N/A	No	On the evening of the 28th and the morning of the 29th a widespread killing freeze occurred across central New York. Observations had low temperatures below 30° F.
July 21-23, 2011	Extreme Heat	N/A	No	High temperatures across much of Seneca County rose to 90° F, with many areas exceeding 100° F.

Sources: FEMA 2023; NOAA NCEI 2023

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

(2): Events without a narrative were not included in the table.



N/A Not Applicable

## Flood

Known flood events that have impacted New York State and Seneca County between 1972 and 2017 are identified in Table H-4. Many sources were researched for historical information regarding flood events in Seneca County; therefore, Table H-4 may not include all flood events that have impacted the County.

Table H-4. Flood Events in Seneca County Between 1972 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 23, 1972	Flood	DR-338-NY	Yes	Tropical Storm Agnes caused levels of all the Finger Lakes to be higher than any previously recorded, and extensive flooding of lakeside properties resulted.
January 19-20, 1996	Flash Flood	N/A	No	Heavy rain and melting snow caused flooding in communities across the County. There was a reported \$500,000 in property damages incurred from this event.
April 30, 1996	Flash Flood	N/A	No	Showers and thunderstorms brought torrential rainfall to Seneca County. Up to one and a half inches of rain caused several streams and creeks to rise out of their banks. Many roads in Waterloo were also flooded. There was a reported \$3,000 in property damages incurred from this event.
November 8-9, 1996	Flash Flood	N/A	No	Flash flooding paralyzed many communities in Seneca County. Dozens of roads were washed out and traffic was backed up for miles due to flooding. Many urban problems were caused by autumn leaves clogging ditches and storm sewers. Stream banks eroded, bridges and culverts washed out, and pipelines were exposed. There was a reported \$100,000 in property damages incurred from this event.
July 31 - August 1, 2000	Flash Flood	N/A	No	Thunderstorms produced several reports of flooding, mainly in Fayette, Varick, Waterloo, Seneca Falls, and Romulus. Flood damage to crops was also reported. A health care facility in Waterloo was struck by lightning, forcing a switch to generator power. Backyards and basements were flooded throughout the region as was Route 98 near Deans Cove. There was no reported damages incurred from this event.
August 5-6, 2003	Flash Flood	N/A	No	Slow-moving thunderstorms produced flash flooding of numerous roads, culverts, and low-lying underpasses in southern Seneca County. A state of emergency was declared in Seneca County due to the flash flooding as many roads were either flooded or impassable. The flooding included the towns of Covert and Ovid, and the village of



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				Interlaken. There were several flooded basements in the town of Ovid. An estimated 3 to 4 inches of rain fell. There was a reported \$100,000 in property damages incurred from this event.
May 13 - June 17, 2004	Flood	DR-1534-NY	Yes	Severe weather in the County caused flooding impacts.
July 14, 2004	Flash Flood	N/A	No	4 to 6 inches of rain fell causing ponding of water on roads and numerous flooded basements in several towns including Waterloo and Varick. There was a reported \$5,000 in property damages incurred from this event.
April 2-3, 2005	Flash Flood	N/A	No	A slow-moving storm brought 1 to 4 inches of rain. Before this storm, the rivers and streams had high flows due to a previous rainstorm and snowmelt. There was some road closures and flooded basements. 1 road and 1 bridge were damaged. The hardest hit areas were Waterloo and Seneca Falls. Streams and creeks were out of their banks. There was a reported \$50,000 in property damages incurred from this event.
May 14, 2014	Flash Flood	N/A	No	Thunderstorms produced 4 to 5 inches of rain over the central portion of Yates and Seneca counties. A road was washed out on County Route 131 in Ovid. There was a reported \$15,000 in property damages incurred from this event.
August 3, 2014	Flash Flood	N/A	No	Thunderstorms with torrential downpours occurred across Seneca County. Water was flowing over numerous roads and into several basements throughout the central part of the county, including the hardest hit area of Fayette. There was a reported \$135,000 in property damages incurred from this event.

Sources: FEMA 2023; NOAA NCEI 2023

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

N/A Not Applicable

## Landslide

The landslide hazard has not been profiled in previous updates of the Seneca County HMP; therefore, a historical collection of this information is unavailable.

## Severe Weather

Known severe weather events that have impacted New York State and Seneca County between 1973 and 2017 are identified in Table H-5. Many sources were researched for historical information regarding severe weather



events in Seneca County; therefore, Table H-5 may not include all severe weather events that have impacted the County.

Table H-5. Severe Storm Weather in Seneca County Between 1973 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
June 5, 1973	Thunderstorm	N/A	No	Several houses were struck by lightning. Winds downed several utility poles and trees, causing power failure and damage to property.
July 27, 1978	Thunderstorm, Hail	N/A	No	Thunderstorms brought high winds into the County, causing a 100-foot tree to crash onto a boat and producing further damages to seven properties. Hail up to 1 inch in diameter was reported.
October 25, 1980	Thunderstorm	N/A	No	High winds of up to 50 miles per hour were produced by a thunderstorm, downing power lines, which resulted in a house fire. Thousands were without power for multiple hours. Trees were uprooted and blocked roads.
July 18, 1982	Thunderstorm	N/A	No	A strong thunderstorm caused multiple fallen trees and broken power lines. There was a widespread blackout due to numerous powerlines being impacted. There were reports of slight damages to houses.
August 25, 1982	Thunderstorm	N/A	No	Strong winds from a thunderstorm downed trees and power lines. In Ovid, barns and shacks were destroyed.
June 16, 1983	Hail	N/A	No	Hail up to 1 inch in diameter was reported.
July 21, 1983	Thunderstorm	N/A	No	Thunderstorms with strong winds, accompanied by lightning, toppled many trees, broke power lines, and damaged a few homes. Large tree limbs blocked roads.
July 31, 1983	Thunderstorm	N/A	No	Strong winds and lightning toppled trees. A few homes were damaged. Electrical wires snapped and rendered hundreds without power for three hours or more.
August 1, 1983	Thunderstorm	N/A	No	Lightning and strong winds severed power lines; many communities were without electricity for various lengths of time.
September 11, 1984	Thunderstorm	N/A	No	A severe storm with high winds knocked down trees and power lines. The power outage lasted several hours. A few homes were damaged by falling trees. During the height of the storm, a motorist pulled off a street and parked near a tree; the tree was blown down and crushed the car's roof, resulting in one passenger injury.
August 7, 1986	Hail	N/A	No	Hail up to 1 inch in diameter was reported.





Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
August 15, 1986	Thunderstorm	N/A	No	Thunderstorms toppled trees and snapped electrical lines.
August 17, 1987	Thunderstorm	N/A	No	Strong winds from a thunderstorm broke tree limbs and powerlines in Seneca County.
July 4, 1990	Thunderstorm	N/A	No	Severe thunderstorms downed trees and power lines. Falling trees and limbs damaged several homes and cars.
May 17, 1991	Thunderstorm	N/A	No	Severe thunderstorms uprooted trees and downed power lines.
June 12, 1991	Thunderstorm	N/A	No	Thunderstorms produced damaging winds and heavy downpours. Downed trees and power lines resulted in numerous power outages.
July 25, 1994	Hail	N/A	No	Hail up to .75 inches in diameter was reported.
May 10, 1996	Thunderstorm	N/A	No	Severe thunderstorms downed trees and wires in Waterloo and Seneca Falls and blew a shed into a truck. There was a reported \$18,000 in property damages incurred from this event.
August 15, 1996	Thunderstorm	N/A	No	Severe thunderstorms moved across central Seneca county. These storms downed numerous trees and telephone poles in the town of Fayette. There was a reported \$5,000 in property damages incurred from this event.
February 22, 1997	Thunderstorm	N/A	No	Strong, gusty winds associated with impending thunderstorms caused widespread power outages occurred in the late morning from downed trees and power lines. There was a reported \$20,000 in property damages incurred from this event.
July 3, 1997	Thunderstorm	N/A	No	A thunderstorm quickly became severe over southern portions of Seneca county. Downed trees and wires were reported in the town of Ovid. There was a reported \$10,000 in property damages incurred from this event.
July 27, 1997	Thunderstorm	N/A	No	An isolated thunderstorm reached severe levels briefly along Cayuga Lake in eastern portions of the county. Strong winds downed many trees and power lines. Falling tree limbs caused minor damage to some boats anchored near the docks. There was a reported \$40,000 in property damages incurred from this event.
May 31 - June 2, 1998	Thunderstorm	N/A	No	A severe thunderstorm moved across the southern part of the County during the midafternoon. Large trees and power poles were blown down in Covert. Numerous trees and wires were downed in



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				Waterloo. There was a reported \$65,000 in property damages incurred from this event.
September 6-7, 1998	Thunderstorm	N/A	No	Widespread wind damage occurred in the town of Waterloo and across Seneca Falls. Most of the damage was in the form of downed trees and power lines. Many roads in the center of Waterloo had to be closed due to fallen trees, live wires, and damaged traffic signals. In Seneca Falls, similar damage was reported. Trees were blown down on Cayuga Lake and inflicted damage on several small boats. Several vacation homes in this area incurred minor roof and siding damage from large tree limbs which succumbed to the wind. There was a reported \$250,000 in property damages incurred from this event.
November 10, 1998	Thunderstorm	N/A	No	Strong gusts from a severe thunderstorm caused trees, large branches, and utility poles to come down on a widely scattered basis. There was a reported \$10,000 in property damages incurred from this event.
July 9, 1999	Thunderstorm	N/A	No	Strong thunderstorm winds uprooted trees and caused power outages across the southern portion of the County. There was a reported \$10,000 in property damages incurred from this event.
November 2-3, 1999	Thunderstorm	N/A	No	Strong winds from a severe thunderstorm caused widespread minor damages and power outages. There was a reported \$33,000 in property damages incurred from this event.
July 14, 2000	Thunderstorm, Hail	N/A	No	Trees and wires were blown down by thunderstorm winds across the northern portion of Seneca county, mainly around Waterloo. 0.5-inch diameter hail was also reported.
July 31, 2000	Thunderstorm	N/A	No	Thunderstorm winds produced scattered reports of downed trees across Seneca County, mainly in Ovid, Romulus, Fayette, Varick, and Waterloo.
December 12, 2000	Thunderstorm	N/A	No	Winds associated with a thunderstorm produced wind gusts of 62 miles per hour. Numerous power lines and trees were brought down. Power outages were widespread. Other damage included roofs collapsed and blown off, signs were blown over, a mobile home was moved off its pad, a mobile home was flipped onto its side while being moved, a barn collapsed, a silo was damaged, and trees falling onto houses, cars, and wires. There was a reported \$50,000 in property damages incurred from this event.
February 10, 2001	Thunderstorm	N/A	No	Thunderstorms produced fast moving, high winds which knocked down numerous trees and power lines resulting in thousands without power.



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
October 10, 2001	Thunderstorm, Hail	N/A	No	Thunderstorm knocked down trees and wires in Fayette and Varick. Dime sized hail was reported.
March 9, 2002	Thunderstorm	N/A	No	Severe thunderstorms scattered trees and small limbs down on power lines.
September 19, 2003	Thunderstorm, Hurricane	N/A	No	Remnants of Hurricane Isabel brought with it high winds. Scattered reports of trees and wires down were common. Tens of thousands of electric customers were without power. A few trees and wires fell on cars and houses, and closed roads. There was a reported \$50,000 in property damages incurred from this event.
October 15, 2001	Thunderstorm	N/A	No	Severe weather caused numerous trees and power lines to be downed. A few trees fell on houses and cars. Tens of thousands of electric customers were without power. There was a reported \$50,000 in property damages incurred from this event.
November 13, 2003	Thunderstorm	N/A	No	Severe weather caused tens of thousands of electric customers lost power due to wires and utility poles coming down. There was a reported \$20,000 in property damages incurred from this event.
April 18, 2004	Thunderstorm	N/A	No	Thunderstorm winds blew down trees and wires especially on the east side of Seneca Lake. In Romulus a radio tower was bent over onto a building. Minor property damage occurred. Some utility poles were blown over or damaged. There was a reported \$200,000 in property damages incurred from this event.
May 13 - June 17, 2004	Severe Weather	DR-1534-NY	Yes	Severe weather in the County caused flooding impacts.
December 23, 2004	Thunderstorm	N/A	No	Passing storms produced strong winds with gusts up to 50 mph downed trees, wires, and utility poles. The damage was isolated. There was a reported \$5,000 in property damages incurred from this event.
June 8, 2007	Thunderstorm	N/A	No	Scattered showers and thunderstorms blew down trees and wires in the eastern portion of the County.
June 19, 2007	Thunderstorm	N/A	No	Showers and thunderstorms developed with numerous reports of large hail and wind damage. Trees were blown down in Interlaken and Trumansburg on the Seneca County side.
June 21, 2007	Thunderstorm, Hail, Tornado	N/A	No	Widespread severe thunderstorms developed, with many reports of large hail (up to 1 inch in diameter) and damaging winds. One thunderstorm produced a brief EF-1 tornado in Sheldrake, near the



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				northern end of Wyers Point Road, just east of State Route 89. Trees, wires, and utility poles were blown down county-wide. There was a reported \$10,000 in property damages incurred from this event.
August 18, 2007	Thunderstorm, Hail	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (0.75 inches) and wind damage from these thunderstorms.
August 16, 2007	Thunderstorm, Hail	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (1.75 inches) and wind damage from these thunderstorms.
July 16, 2008	Thunderstorm, Hail	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (0.88 inches) and wind damage from these thunderstorms.
July 26, 2008	Thunderstorm, Hail	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (1.75 inches) and wind damage from these thunderstorms.
June 25-26, 2009	Thunderstorm, Hail	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (1 inch) and wind damage from these thunderstorms.
October 7, 2009	Thunderstorm	N/A	No	Isolated thunderstorms caused scattered wind damage across the area. Trees and power lines were brought down. Schools were delayed due to power outages.
July 17, 2010	Thunderstorm	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (1 inch) and wind damage from these thunderstorms.
July 21, 2010	Thunderstorm	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (0.88 inch) and wind damage from these thunderstorms.
February 18-19, 2011	Thunderstorm	N/A	No	High winds occurred across the region with gusts between 50 and 60 miles per hour. Numerous trees were blown down and many customers were without power.
June 9, 2011	Thunderstorm	N/A	No	Showers and thunderstorms developed with numerous reports of large hail (1 inch) and wind damage from these thunderstorms.
May 29, 2012	Thunderstorm	N/A	No	Showers and thunderstorms developed with many storms becoming severe and producing large hail and damaging winds. A barn was destroyed with estimated wind speeds of 80 to 90 miles per hour in the Town of Fayette. Numerous tree branches were down, and some isolated areas had uprooted trees. The pattern of damage was consistent with a microburst in that the damage of the trees was laid out in a divergent or a fan shaped pattern.
September 8, 2012	Thunderstorm	N/A	No	Several storms produced damaging wind gusts. A barn was damaged in Lodi on Keady Road. A tin



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				roof was blown off the barn and landed in the road. A house was damaged due to numerous trees that fell on it.
May 21, 2013	Thunderstorm	N/A	No	A line of storms produced hail, along with wind damage. Trees reported down at the intersection of State Route 96 and Burgess Road in the Village of Waterloo. Numerous trees, power poles and electrical lines were blown down in and around Fayette by thunderstorm winds.
July 5, 2013	Thunderstorm	N/A	No	Severe thunderstorms caused several trees to be uprooted, including one fairly large walnut, corn flattened, and a six-inch diameter tree was snapped.
June 16, 2014	Thunderstorm	N/A	No	Severe thunderstorms caused trees to be blown down on Powell Road and Railroad Avenue in the Village of Interlaken. Pea size hail also fell.
June 8, 2015	Thunderstorm	N/A	No	Strong to severe thunderstorms developed and produced wind damage, causing trees and wires to fall down.
June 10, 2015	Thunderstorm	N/A	No	Strong to severe thunderstorms developed producing wind damage and small hail. Several trees fell across the County. Two homes were damaged due to falling trees in the Town of Romulus.
June 12, 2015	Thunderstorm	N/A	No	Showers and thunderstorms developed. These storms produced damaging winds and large hail and caused fallen trees.
August 4, 2017	Thunderstorm	N/A	No	A thunderstorm moved across the region and became severe. This thunderstorm produced severe winds and knocked over trees and wires in the vicinity of 2190 Lake Road.

Sources: FEMA 2023; NOAA NCEI 2023

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

(2): Events without a narrative were not included in the table.

N/A Not Applicable

## Severe Winter Weather

Known severe winter weather events that have impacted New York State and Seneca County between 1993 and 2017 are identified in Table H-6. Many sources were researched for historical information regarding severe winter weather events in Seneca County; therefore, Table H-6 may not include all severe winter weather events that have impacted the County.



Table H-6. Severe Winter Weather Events in Seneca County Between 1993 and 2017

Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
March 13-17, 1993	Blizzard	EM-3107-NY	Yes	A nor'easter impacted much of the east coast. Snow totals ranged in Seneca County between 13 and 18 inches, and temperatures dropped in 5 degrees Fahrenheit.
January 2, 1996	Heavy Snow	N/A	No	A major winter storm with snowfall amounts of 8 to 12 inches was observed, but as much as 16 inches fell across the Finger Lakes.
March 6, 1996	Heavy Snow	N/A	No	A winter storm brought snowfall accumulations ranging from 6 to 12 inches. During the height of the storm, many accidents were reported due to poor visibility.
May 11, 1996	Winter Weather	N/A	No	A late season snowfall blanketed much of the region with 3 to 5 inches of wet, slushy snow.
November 26, 1996	Heavy Snow	N/A	No	A storm system brought a period of heavy wet snow to much of central New York. Amounts were heaviest from portions of the central southern tier across the Finger Lakes region and into the Mohawk Valley. Snow loading from the heavy wet nature of the snowfall resulted in downed power lines and isolated roof collapses.
January 2-3, 1999	Ice Storm	N/A	No	A mixture of snow, sleet, and freezing rain spread across the Finger Lakes. Freezing rain resulted in a substantial buildup of ice. Ice accumulations brought down trees and power lines. Power outages were widespread. Department of Transportation and State Police officials reported treacherous travel conditions.
January 8-9, 1999	Winter Storm	N/A	No	Snow fell over much of central New York. The heaviest and steadiest snow fell from the Finger Lakes. A stripe of 4-to-7-inch amounts extended from Auburn and Seneca Falls in the Finger Lakes east to Sherburne, Cooperstown, Cortland, and Utica in the northern Susquehanna and Mohawk Valley regions. Many areas received a thin glaze of ice on top of already fallen snow as the snow changed to sleet, freezing rain, and even light rain overnight.
January 13-15, 1999	Winter Storm	N/A	No	Steady and heavy snow at times affected the County. Snowfall rates of 1 to 2 inches per hour were observed on occasion. Storm total snow accumulations ranged from 6 to 12 inches.
March 6-7, 1999	Heavy Snow	N/A	No	Snow accumulations reached well over a foot throughout much of the Finger Lakes.
January 12, 2000	Heavy Snow	N/A	No	5 to 8 inches of snow fell over the Finger Lakes, Central Southern Tier, Susquehanna Region and Western Catskills. Many automobile accidents were



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				reported throughout the region, but none were serious. Numerous schools closed.
January 20, 2000	Heavy Snow	N/A	No	6 to 7 inches of snow fell in in the region. Scores of motor vehicle accidents were reported, including one fatality. There were also a number of school closings.
January 25-16, 2000	Heavy Snow	N/A	No	A winter storm produced 3 to 6 inches of snow in Yates, Seneca, Steuben and northern Oneida counties.
January 30-31, 2000	Heavy Snow	N/A	No	Snowfall totals ranged from 3 to 8 inches in the western Mohawk Valley, central Southern Tier, and Finger Lakes region of central New York.
February 13, 2000	Ice Storm	N/A	No	Ice accumulations generally between a quarter to a half an inch were observed. There were numerous automobile accidents, but no serious injuries reported. Many area schools were closed or delayed.
February 18-19, 2000	Heavy Snow	N/A	No	Snow began to mix with or change over to freezing rain and sleet, adding a coating of ice to the snowpack. The heaviest snow (5 to 10 inches) fell over the Finger Lakes, western Mohawk Valley, Susquehanna Region and northern Oneida county. Many motor vehicle accidents were reported throughout the area, but most were minor. Schools were once again closed in some of the districts due to the inclement weather.
February 25, 2001	Ice Storm	N/A	No	Snow and sleet changed to freezing rain in the central southern tier and finger lakes. Water equivalent amounts of the freezing rain were between a quarter and a half of an inch.
March 4-6, 2001	Heavy Snow	N/A	No	A winter storm moved slowly north along the east coast of the United States. The snow reached the Finger Lakes and Mohawk Valley and fell continuously for two days. Snowfall totals were 10 to 30 inches.
March 16-18, 2001	Heavy Snow	N/A	No	Snowfall amounts at the higher elevations were 6 to 12 inches from northeast Steuben County east to southern Seneca County and northeast Schuyler County.
January 31, 2002	Winter Storm	N/A	No	Precipitation started as snow then changed over to sleet then freezing rain then finally rain. Steady freezing rain, at times moderate, fell during the daytime. Ice accumulations up to half an inch. Total water equivalents were over one inch in the Finger Lakes.
December 25, 2002	Heavy Snow	N/A	No	Snowfall amounts in the Finger Lakes and Chemung Valley were 6 to 12 inches. Due to the snow amounts and snowfall rates the New York





Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
				State Thruway closed for part of the evening. The heavy snow also caused power outages. Many counties declared state of emergencies.
January 3-4, 2003	Heavy Snow	N/A	No	A slow-moving nor'easter produced snowfall amounts between 8 to 14 inches in the central southern tier, Finger Lakes region, and northern Oneida County. The weight of the snow combined with the weight of ice caused additional power outages. At least 20,000 customers were without power at some time. Some customers were without power for up to a week. Emergency shelters were set up in some areas. All the major roads had motor vehicle accidents. Some were serious enough to close the interstate highways.
February 17, 2003	Heavy Snow	N/A	No	Snowfall amounts were a widespread 10 to 20 inches. Accidents were fewer due to the Presidents Day holiday and due to the early start of the snow.
April 3-5, 2003	Ice Storm	DR-1467-NY	Yes	An ice storm affected the County April 3 to April 5 as sleet and freezing rain reports were common. Most ice accumulations occurred on elevated surfaces, such as trees and powerlines. Tree damage and power outages occurred.
December 14-15, 2003	Heavy Snow	N/A	No	A widespread 8-to-12-inch snow event occurred across south central New York. Across south central New York, sleet and freezing rain mixed in. The snow caused numerous automobile accidents and closed schools.
February 3, 2004	Heavy Snow	N/A	No	Snowfall amounts were mostly 4 to 8 inches. The highest amounts were at the highest elevations. In the valleys snow amounts were cut by some rain, freezing rain, and sleet. Snow to water ratios were around 10 to 1. Numerous accidents occurred in the afternoon and evening when people tried to return home from work.
March 16-17, 2004	Heavy Snow	N/A	No	Snow started between 5 and 9 AM on the 16th. The snow had some effect on the morning commute. The snow was at its heaviest from the late morning into the afternoon on the 16th. This snow intensity hindered drivers getting home during the afternoon and early evening. The snow was a widespread 8 to 11 inches.
January 22-23, 2005	Heavy Snow	N/A	No	A winter storm brought a widespread snow. Snowfall amounts were 8 to 20 inches. Despite occurring on a weekend, it still caused major travel problems. It was also unusual in that most temperatures during the event were between 0 and 15 above zero Fahrenheit.
March 1, 2005	Heavy Snow	N/A	No	A strong winter storm brought 8 to 14 inches of snow to all central New York. Isolated snow amounts were as much as two feet.



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
October 25, 2005	Winter Weather	N/A	No	Snow fell mainly over the higher elevations of central New York and the Catskills. Across the Central Southern Tier, and the Finger Lakes region, the valleys saw rain with the higher terrain, above 1600 feet, seeing only a few inches of snow.
January 15, 2007	Ice Storm	N/A	No	A mix of snow and sleet changed to freezing rain across most of the area during the morning. The precipitation changed over to all rain across the Finger Lakes and south-central New York around midday. Total ice accumulations ranged from one-half to three-quarters of an inch in many locations. The weight of the ice brought down trees and power lines in scattered localities. Roads also became very slippery, and travel was impacted.
February 13-15, 2007	Winter Storm	N/A	No	Snow became heavy with near blizzard conditions at times over the Finger Lakes and central southern tier of New York. Gusty winds to 40 mph developed behind the storm which led to considerable blowing and drifting snow. This hampered snow plowing and snow cleanup operations. As a result, many roads and highways were closed during the height of the snowstorm. Many counties and municipalities declared snow emergencies. Storm total snowfall amounts across much of central New York ranged between 15 and 30 inches. The weight of the snow caused several roofs to collapse.
April 15-16, 2007	Winter Storm	N/A	No	A major spring storm brought about 12 inches of snow to the county. The snow was heavy and wet bringing down many trees and power lines causing scattered power outages.
December 15-17, 2007	Winter Storm	N/A	No	A mix of precipitation across the county was followed by heavy wrap-around snow. Snowfall totals up to one foot were measured.
February 26-27, 2008	Winter Storm	N/A	No	Snowfall amounts across the county averaged around 7 inches.
March 4, 2008	Ice Storm	N/A	No	Several locations from the Finger Lakes region to the central southern tier of New York received one half inch of ice, bringing down trees and power lines.
March 7-9, 2008	Ice Storm	N/A	No	A major ice storm occurred across much of the Finger Lakes Region of New York, with mainly snow north of here, and heavy rain to the south. Ice accumulations ranged from one half to three quarters of an inch bringing down many trees and power lines in the Finger Lakes region.
December 19, 2008	Winter Storm	N/A	No	As much as 11 inches of snow fell across parts of the county, with general snowfall amounts averaging 5 to 9 inches.



Date(s) of Event	Event Type	FEMA Declaration Number	County Designated?	Losses / Impacts
December 31, 2008	Winter Storm	N/A	No	Snow amounts ranging from 5 to 10 inches across much of the Finger Lakes region.
January 27-28, 2009	Winter Storm	N/A	No	A winter storm brought snowfall amounts of 6 to 8 inches to the county.
February 25-26, 2010	Winter Storm	N/A	No	Heavy snow fell across the county, with amounts ranging from 10 to 15 inches.
December 4-8, 2010	Lake-effect Snow	N/A	No	Persistent lake effect snow bands brought very heavy snow to much of the county.
February 25, 2011	Winter Storm	N/A	No	Snowfall totals across the county ranged from 6 to 10 inches.
March 6-7, 2011	Heavy Snow	N/A	No	Snowfall totals across the county ranged generally from 6 to 12 inches.
December 26-27, 2012	Winter Storm	N/A	No	Snowfall amounts across the county ranged from 6 to 8 inches.
January 1-3, 2014	Winter Storm	N/A	No	Snowfall amounts ranged from 9-10 inches across the county. Windy conditions resulted in significant blowing snow and cold temperatures.
February 5, 2014	Winter Storm	N/A	No	Snowfall amounts ranged from 8-10 inches across the county.
March 12-13, 2014	Winter Storm	N/A	No	Snowfall amounts averaged around 7 inches across the county. The highest amount of 7.2 inches fell 2 miles west-southwest of Ovid.
December 10-11, 2014	Winter Storm	N/A	No	Snowfall amounts ranged from 9-14 inches across the county. The highest amount of 14 inches fell in Seneca Falls.
February 1-2, 2015	Heavy Snow	N/A	No	Snowfall of 6 to 12 inches occurred with this winter storm.
November 19-22, 2016	Lake-effect Snow	N/A	No	Snowfall totals ranged from 8 to 16 inches in the south, to between 1 and 2 feet in the north.
March 14-15, 2017	Heavy Snow	N/A	No	Snowfall ranged between 11 and 21 inches in Seneca County.

Sources: FEMA 2023; NOAA NCEI 2023

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

(2): Events without a narrative were not included in the table.

N/A Not Applicable

## APPENDIX I: MITIGATION STRATEGY SUPPLEMENTARY DATA



This appendix summarizes additional activities and resources provided to plan participants to support the update of the mitigation strategy.

## 2018 GOALS AND OBJECTIVES REVIEW

Seneca County's planning documents and recent policies changes were reviewed and discussed with the Planning Team to help inform the review and update of the goals and objectives. Table I-1 and Table I-2 summarize the goals and objectives for the 2025 HMP update, respectively.

Table I-1. 2025 Goals

Goal Number	2025 Goals
1	Protect life, property, and the environment from current and future impacts.
2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
3	Increase public preparedness and awareness of natural hazards.
4	Enhance mitigation capabilities to reduce hazard vulnerabilities.
5	Support continuity of operations pre-, during, and post-hazard events.
6	Reduce the risk of natural hazards for socially vulnerable populations and underserved communities.
7	Address long-term vulnerabilities from High Hazard Dams.

Table I-2. 2025 Objectives

Objective Number	2025 Objectives
1	Reduce the impact of disasters on currently developed property, especially residential, commercial, and critical public facilities that are near the lake shores and canal corridor.
2	Improve the stability of creek banks and improve the water flow of creek beds to lessen flooding events.
3	Lessen the impact of flooding on roads.
4	Use the community's land use plans, ordinances, subdivision regulations and site plan review processes to enhance loss reduction.
5	Ensure that future development is not vulnerable to the impact of natural, technological, or man-made disasters.
6	Coordinate and integrate the hazard mitigation activities with existing local Emergency Service Agencies Emergency Operations Plans.
7	Analyze the need for and procure any specialized equipment or training to enhance the Emergency Services response to specific hazards.
8	Review current evacuation routes to determine if they are adequate.
9	Ensure that county residents and businesses are aware of potential hazards and are knowledgeable of their roles in limiting the effects of hazards on their personal property, health, and safety.
10	Use appropriate public information and education strategies to increase public awareness of various hazard mitigation options.
11	Continue to educate the public about emergency preparedness, response, and recovery activities.
12	Encourage all residents and businesses to purchase NOAA Weather radios for timely alert warnings.



Objective Number	2025 Objectives
13	Reduce the possibility of damage and losses due to natural hazards affecting the county and its municipalities.
14	Increase communications before, during, and after natural hazard events.
15	Retrofit, acquire, or relocate vulnerable property in high hazard areas including those known to be subject to repetitive damages.
16	Utilize the best available information on hazard exposure and vulnerability to support appropriate land use decisions within Seneca County.
17	Increase local government official awareness regarding funding opportunities for mitigation and participating/contributing to plan updates.
18	Identify, and provide additional resources to, vulnerable and marginalized populations that have reduced capacity to respond to hazards compared with the general population.
19	Ensure dam infrastructure is maintained.
20	Support the identification and access to funding to repair/replace dams.
21	Ensure Emergency Action Plans are developed and updated.
22	Acquire and maintain detailed data regarding critical facilities and lifelines such that these sites can be prioritized and risk-assessed for possible mitigation actions.
23	Support increased participation in the National Flood Insurance Program and Community Rating System.
24	Promote sustainable and equitable land development practices that direct future development away from vulnerable areas.
25	Encourage and support multi-jurisdictional mitigation projects that leverage funding and support from multiple levels of government and community organizations.
26	Strengthen inter-jurisdiction and inter-agency communication, coordination, and partnerships to foster hazard mitigation actions and/or projects.
27	Encourage the establishment of policies to help ensure the prioritization and implementation of mitigation actions and/or projects designed to benefit essential facilities, services, and infrastructure.
28	Encourage residents to register their Cell phone numbers with the county's Hyper-Reach alert system.

## MITIGATION STRATEGY WORKSHOP RESOURCES

In September 2024, a Mitigation Strategy Workshop was held for all plan participants. The workshop was held in-person at the Seneca County Emergency Management (1 Dipronio Dr, Waterloo, NY 13165) and was led by the contract consultant. Following the meeting, participating jurisdictions had the opportunity to work in-person with the contracting consultant. Furthermore, this meeting was supplemented by emails and phone calls between Seneca County and the contract consultant, for all participants to support the development of focused problem statements based on the impacts of natural hazards in the county and their communities. These problem statements were intended to provide a detailed description of the problem area, including its impacts to the jurisdiction; past damages; loss of service; etc. An effort was made to include the street address of the property/project location, adjacent streets, water bodies, and well-known structures as well as a brief description of existing conditions (topography, terrain, hydrology) of the site. These problem statements formed a bridge between the hazard risk assessment which quantifies impacts to each community with the development of actionable mitigation strategies. Resources available at the workshop and follow up discussions included the following to assist with the identification of mitigation alternatives and the development of the mitigation strategy workshops found in Section 9 (Annexes).

- FEMA Local Mitigation Handbook



- Public Survey Results
- FEMA Mitigation Action Types (Table I-3)
- FEMA Mitigation Ideas
- FEMA Project Useful Life Factsheet
- Mitigation Funding Sources at the Federal, State, and Local levels (Table I-4)
- FEMA Region 2 Funding Sources for New York
- FEMA Ecosystem Services
- Mitigation Catalog

## TYPES OF MITIGATION ACTIONS

A mitigation action is a specific action, project, activity, or process taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan's mission and goals. The actions to reduce vulnerability to threats and hazards form the core of the plan and are a key outcome of the planning process.

The primary types of mitigation actions to reduce long-term vulnerability are:

- Local Plans and Regulations (LPR)
- Structure and Infrastructure Projects (SIP)
- Natural Systems Protection (NSP)
- Education and Awareness Programs (EAP)

Table I-3. FEMA Mitigation Action Types

Mitigation Type	Description	Examples
Local Plans and Regulations	These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built.	<ul style="list-style-type: none"><li>• Comprehensive plans</li><li>• Land use ordinances</li><li>• Subdivision regulations</li><li>• Development review</li><li>• Building codes and enforcement</li><li>• NFIP Community Rating System</li><li>• Capital improvement programs</li><li>• Open space preservation</li><li>• Stormwater management regulations and master plans</li></ul>
Structure and Infrastructure Projects	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 manmade structures to reduce the impact of hazards. Many of these types of actions are projects eligible for funding through the FEMA Hazard Mitigation Assistance program.	<ul style="list-style-type: none"><li>• Acquisitions and elevations of structures in flood prone areas</li><li>• Utility undergrounding</li><li>• Structural retrofits</li><li>• Floodwalls and retaining walls</li><li>• Detention and retention structures</li><li>• Culverts</li><li>• Safe rooms</li></ul>





Mitigation Type	Description	Examples
Natural Systems Protection	These are actions that minimize damage and losses and also preserve or restore the functions of natural systems.	<ul style="list-style-type: none"><li>• Sediment and erosion control</li><li>• Stream corridor restoration</li><li>• Forest management</li><li>• Conservation easements</li><li>• Wetland restoration and preservation</li></ul>
Education and Awareness Programs	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 or Firewise Communities. Although this type of mitigation reduces risk less directly than structural projects or regulation, it is an important foundation. A greater understanding and awareness of hazards and risk among local officials, stakeholders, and the public is more likely to lead to direct actions.	<ul style="list-style-type: none"><li>• Radio or television spots</li><li>• Websites with maps and information</li><li>• Real estate disclosure</li><li>• Presentations to school groups or neighborhood organizations</li><li>• Mailings to residents in hazard-prone areas</li><li>• StormReady</li><li>• Firewise Communities</li></ul>



## POTENTIAL MITIGATION FUNDING SOURCES

While it is important to recognize the mitigation strategies for Seneca County to help achieve the mitigation goals and objectives of the HMP, it is also important to provide sources for funding to implement these strategies. The table below provides a list of programs, descriptions, and links for those seeking funding sources. Please note that this table is not intended to be a comprehensive list, but rather a starting point to help identify potential sources of funding for the identified mitigation strategies.

Table I-4. New York Mitigation Funding Sources

Program	Description	Lead Agency	Website
<b>Federal</b>			
Hazard Mitigation Assistance (HMA)	Grants to provide funding for eligible mitigation activities that reduce disaster losses and protect life and property from future disaster damages – includes FMA, HMGP, PDM	FEMA	<a href="https://www.fema.gov/hazard-mitigation-assistance">https://www.fema.gov/hazard-mitigation-assistance</a>
Flood Mitigation Assistance (FMA)	Program Grants to States and communities for pre-disaster mitigation planning and projects to help reduce or eliminate the long-term risk of flood damage to structures insurable under the National Flood Insurance Program	FEMA	<a href="https://www.fema.gov/flood-mitigation-assistance-grant-program">https://www.fema.gov/flood-mitigation-assistance-grant-program</a>
Hazard Mitigation Grant Program (HMGP)	Grants to States and communities for planning and projects providing long-term hazard mitigation measures following a major disaster declaration	FEMA	<a href="https://www.fema.gov/hazard-mitigation-grant-program">https://www.fema.gov/hazard-mitigation-grant-program</a>
Building Resilient Infrastructure and Communities (BRIC)	Supports states, local communities, tribes, and territories to undertake hazard mitigation projects by reducing the risks they face from disasters and natural hazards. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program.	FEMA	<a href="https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities">https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities</a>
Individual Assistance	FEMA's Individual Assistance (IA) program provides financial assistance and direct services to eligible individuals and households who have uninsured and underinsured necessary expenses and serious needs. FEMA makes these funds available after any major disaster declarations and some programs available under emergency declarations. IA supports seven types of activities through the following programs: Mass Care/Emergency Services, Individuals and Households Program, Disaster Case Management, Crisis Counseling Assistance and Training Program, Disaster Legal Services, Disaster Unemployment Assistance, and Voluntary Agency Coordination.	FEMA	<a href="https://www.fema.gov/individual-disaster-assistance">https://www.fema.gov/individual-disaster-assistance</a>
Public Assistance	FEMA's Public Assistance (PA) provides cost reimbursement aid to local governments (state, county, local, municipal authorities, and school districts) and certain non-profit agencies that were involved in disaster response and recovery programs or that suffered loss or damage to facilities or property used to deliver government-like services. This program is largely funded by FEMA with both local and state matching contributions required.	FEMA	<a href="https://www.fema.gov/public-assistance-local-state-tribal-and-non-profit">https://www.fema.gov/public-assistance-local-state-tribal-and-non-profit</a>



Program	Description	Lead Agency	Website
Assistance to Firefighters Grant Program	The primary goal of the Assistance to Firefighters Grants (AFG) is to enhance the safety of the public and firefighters with respect to fire-related hazards by providing direct financial assistance to eligible fire departments, nonaffiliated Emergency Medical Services organizations, and State Fire Training Academies. This funding is for critically needed resources to equip and train emergency personnel to recognized standards, enhance operations efficiencies, foster interoperability, and support community resilience.	FEMA	<a href="https://www.fema.gov/welcome-assistance-firefighters-grant-program">https://www.fema.gov/welcome-assistance-firefighters-grant-program</a>
High Hazard Potential Dams (HHPD) Rehabilitation Grant	The Rehabilitation of High Hazard Potential Dams Grant Program (HHPD) provides technical, planning, design, and construction assistance in the form of grants to non-Federal governmental organizations or nonprofit organizations for rehabilitation of eligible high hazard potential dams.	FEMA	<a href="https://www.grants.gov/web/grants/view-opportunity.html?oppld=316238">https://www.grants.gov/web/grants/view-opportunity.html?oppld=316238</a>
Fire Management Assistance Grant Program	Assistance for the mitigation, management, and control of fires on publicly or privately-owned forests or grasslands that threaten such destruction as would constitute a major disaster. Provides a 75% Federal cost share and the State pay the remaining 25% for actual cost.	FEMA	<a href="https://www.fema.gov/fire-management-assistance-grant-program">https://www.fema.gov/fire-management-assistance-grant-program</a>
Disaster Housing Program	Emergency assistance for housing, including minor repair of home to establish livable conditions, mortgage, and rental assistance	HUD	<a href="https://www.hud.gov/program_offices/public_indian_housing/publications/dhap">https://www.hud.gov/program_offices/public_indian_housing/publications/dhap</a>
HOME Investment Partnerships Program	Grants to local and state government and consortia for permanent and transitional housing, (including financial support for property acquisition and rehabilitation for low-income persons)	HUD	<a href="https://www.hud.gov/program_offices/comm_planning/affordablehousing/programs/home/">https://www.hud.gov/program_offices/comm_planning/affordablehousing/programs/home/</a>
HUD Disaster Recovery Assistance	Grants to fund gaps in available recovery assistance after disasters (including mitigation)	HUD	<a href="https://www.hud.gov/info/disasterresources">https://www.hud.gov/info/disasterresources</a>
Section 108 Loan Guarantee	Enables states and local governments participating in the Community Development Block Grant (CDBG) program to obtain federally guaranteed loans for disaster-distressed areas	HUD	<a href="https://www.hudexchange.info/programs/section-108/">https://www.hudexchange.info/programs/section-108/</a>
Smart Growth Implementation Assistance (SGIA) program	The SGIA program focuses on complex or cutting-edge issues, such as stormwater management, code revision, transit-oriented development, affordable housing, infill development, corridor planning, green building, and climate change. Applicants can submit proposals under 4 categories: community resilience to disasters, job creation, the role of manufactured homes in sustainable neighborhood design or medical and social service facilities siting.	EPA	<a href="https://www.epa.gov/smartgrowth">https://www.epa.gov/smartgrowth</a>
Partners for Fish and Wildlife	Financial and technical assistance to private landowners interested in pursuing restoration projects affecting wetlands and riparian habitats	U.S. Fish and Wildlife Service	<a href="https://www.fws.gov/partners/">https://www.fws.gov/partners/</a>



Program	Description	Lead Agency	Website
Federal Highway Administration Emergency Relief	Fund for the repair or reconstruction of Federal-aid highways that have suffered serious damage as a result of (1) natural disasters or (2) catastrophic failures from an external cause	U.S. Department of Transportation (DOT)	<a href="https://www.fhwa.dot.gov/programadmin/erelief.cfm">https://www.fhwa.dot.gov/programadmin/erelief.cfm</a>
Transportation Investment Generating Economic Recovery (TIGER)	Investing in critical road, rail, transit, and port projects across the nation	U.S. DOT	<a href="https://www.transportation.gov/tags/tiger-grants">https://www.transportation.gov/tags/tiger-grants</a>
Community Facilities Direct Loan & Grant Program	This program provides affordable funding to develop essential community facilities in rural areas. An essential community facility is defined as a facility that provides an essential service to the local community for the orderly development of the community in a primarily rural area, and does not include private, commercial, or business undertakings.	USDA	<a href="https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program">https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program</a>
Emergency Loan Program	USDA's Farm Service Agency (FSA) provides emergency loans to help producers recover from production and physical losses due to drought, flooding, other natural disasters, or quarantine	USDA	<a href="https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/emergency-farm-loans/index">https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/emergency-farm-loans/index</a>
Emergency Watershed Protection (EWP) Program	Provide assistance to relieve imminent hazards to life and property caused by floods, fires, drought, windstorms, and other natural occurrences	NRCS	<a href="https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/landscape/ewpp/">https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/landscape/ewpp/</a>
Financial Assistance	Financial assistance to help plan and implement conservation practices that address natural resource concerns or opportunities to help save energy, improve soil, water, plant, air, animal and related resources on agricultural lands and non-industrial private forest land	NRCS	<a href="https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/">https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/</a>
Emergency Management Performance Grants (EMPG) Program	Assist local, tribal, territorial, and state governments in enhancing and sustaining all-hazards emergency management capabilities	FEMA, U.S. DHS	<a href="https://www.fema.gov/emergency-management-performance-grant-program">https://www.fema.gov/emergency-management-performance-grant-program</a>
Reimbursement for Firefighting on Federal Property	Provides reimbursement only for direct costs and losses over and above normal operating costs.	U.S. DHS	<a href="https://www.usfa.fema.gov/grants/firefighting_federal_property.html">https://www.usfa.fema.gov/grants/firefighting_federal_property.html</a>
Department of Homeland Security Grant Program (HSGP)	HSGP is composed of three interconnected grant programs including the State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), and the Operation Stonegarden (OPSG). Together, these competitive grant programs fund a range of preparedness activities, including planning, organization, equipment purchase, training, exercises, and management and administration.	U.S. DHS	<a href="https://www.dhs.gov/homeland-security-grant-program-hsgp">https://www.dhs.gov/homeland-security-grant-program-hsgp</a>
Land & Water Conservation Fund	Matching grants to states and local governments for the acquisition and development of public outdoor recreation areas and facilities (as well as funding for shared federal land acquisition and conservation strategies)	National Park Service	<a href="https://www.nps.gov/subjects/lwcf/index.htm">https://www.nps.gov/subjects/lwcf/index.htm</a>



Program	Description	Lead Agency	Website
Land and Water Conservation Fund	Funding to states, local and conservation organizations for outdoor recreational development, renovation, land acquisition, and planning.	U.S. Department of the Interior	<a href="https://www.doi.gov/lwcf">https://www.doi.gov/lwcf</a>
Small Business Administration Loan	Small Business Administration (SBA) provides low-interest disaster loans to homeowners, renters, business of all sizes, and most private nonprofit organizations. SBA disaster loans can be used to repair or replace the following items damaged or destroyed in a declared disaster: real estate, personal property, machinery and equipment, and inventory and business assets.	Small Business Administration (SBA)	<a href="https://www.sba.gov/funding-programs/disaster-assistance">https://www.sba.gov/funding-programs/disaster-assistance</a>
Community Development Block Grant Program	Community Development Block Grants (CDBG) are federal funds intended to provide low- and moderate-income households with viable communities, including decent housing, a suitable living environment, and expanded economic opportunities. Eligible activities include community facilities and improvements, roads and infrastructure, housing rehabilitation and preservation, development activities, public services, economic development, and planning and administration. Public improvements could include flood and drainage improvements. In limited instances and during the times of "urgent need" (e.g., post-disaster) as defined by the CDBG National Objectives, CDBG funding could be used to acquire a property located in a floodplain that was severely damaged by a recent flood, demolish a structure severely damaged by an earthquake, or repair a public facility severely damaged by a hazard event.	U.S. Department of Housing and Urban Development	<a href="https://www.hudexchange.info/programs/cdbg-entitlement/">https://www.hudexchange.info/programs/cdbg-entitlement/</a>
Federal Transit Administration—Emergency Relief	Federal Transit Authority Emergency Relief is a grant program that funds capital projects to protect, repair, reconstruct, or replace equipment and facilities of public transportation systems.	Federal Transit Authority at the U.S. DOT	<a href="https://www.transit.dot.gov/funding/grant-programs/emergency-relief-program/emergency-relief-program">https://www.transit.dot.gov/funding/grant-programs/emergency-relief-program/emergency-relief-program</a>
<b>State, Local, and Private</b>			
Acres for America	The National Fish and Wildlife Foundation's Acres for America program works to permanently conserve wildlife habitat. Since 2005, the Acres for America program has conserved almost 1.5 million acres across the United States and provided almost \$4 million in emergency funding to protect fish and wildlife after the 2010 Gulf of Mexico oil spill and Hurricane Sandy. The Acres for America program prioritizes conserving critical wildlife habitats, minimizing habitat fragmentation, providing public access, and maintaining natural resource-based economic activities. Eligible projects conserve a substantial amount of land and/or land of critical importance to its region. The program prioritizes applications for projects that are endorsed by national, state, and/or nonprofit entities as being a conservation priority.	National Fish and Wildlife Foundation	<a href="https://www.nfwf.org/programs/acres-america-program">https://www.nfwf.org/programs/acres-america-program</a>



<b>Program</b>	<b>Description</b>	<b>Lead Agency</b>	<b>Website</b>
Environmental Protection Fund: Local Waterfront Revitalization Program Grants	The NYS Department of State awards funding to local governments to revitalize coasts and inland waterways by preparing, updating, or implementing an LWRP. LWRPs serve as an opportunity to plan for coastal climate resilience to flooding, sea level rise, and storm surge via natural resource protection and waterfront land use.	NYS Department of State	<a href="https://dos.ny.gov/local-waterfront-revitalization-program">https://dos.ny.gov/local-waterfront-revitalization-program</a>
Partners for Places Funding Program	The Partners for Place program supports local government efforts toward climate preparedness and mitigation in the United States and Canada. Funding is given to teams including at least one local government sustainability office and one local place-based foundation.	Funders' Network for Smart Growth and Livable Communities and the Urban Sustainability Directors Network	<a href="https://www.fundersnetwork.org/partners-for-places/">https://www.fundersnetwork.org/partners-for-places/</a>
Climate Adaptation Fund	The Wildlife Conservation Society's Climate Adaptation Fund provides grant awards to conservation non-profits across the United States to catalyze innovative, science-driven projects responding to the impacts of climate change on wildlife and people.	Wildlife Conservation Society	<a href="https://www.wcsclimateadaptationfund.org/">https://www.wcsclimateadaptationfund.org/</a>



## MITIGATION CATALOG

The tables below provide a list of potential personal, corporate, and government scale mitigation actions for each of the identified natural hazards in the Seneca County HMP. Please note that these tables are not intended to be a comprehensive list, but rather a starting point to help identify potential actions for participating jurisdictions. This catalog of potential actions was provided to participating jurisdictions at the Mitigation Strategy Workshop.

Table I-5. Seneca County Mitigation Catalog

DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Relocate out of dam failure inundation areas.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Elevate home to appropriate levels.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Learn about risk reduction for the dam failure hazard.</li><li>• Learn the evacuation routes for a dam failure event.</li><li>• Educate yourself on early warning systems and the dissemination of warnings.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the hazard:<ul style="list-style-type: none"><li>• Remove dams.</li><li>• Harden dams.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Replace earthen dams with hardened structures.</li><li>• Relocate facilities out of dam failure inundation areas.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Floodproof facilities within dam failure inundation areas.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Educate employees on the probable impacts of a dam failure.</li><li>• Develop a continuity of operations plan.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the hazard:<ul style="list-style-type: none"><li>• Remove dams.</li><li>• Harden dams.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Replace earthen dams with hardened structures.</li><li>• Relocate critical facilities out of dam failure inundation areas.</li><li>• Consider open space land use in designated dam failure inundations areas.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Adopt higher floodplain standards in mapped dam failure inundation areas.</li><li>• Retrofit critical facilities within dam failure inundation areas.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Map dam failure inundation areas.</li><li>• Enhance emergency operations plans to include a dam failure component.</li><li>• Institute monthly communications checks with dam operators.</li><li>• Inform the public on risk reduction techniques.</li><li>• Adopt real-estate disclosure requirements for the re-sale of property located within dam failure inundation areas.</li></ul></li></ul>





DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Consider the probable impacts of climate change in assessing the risk associated with the dam failure hazard.</li><li>• Establish early warning capability downstream of listed high-hazard dams.</li><li>• Consider the residual risk associated with protection provided by dams in future land use decisions.</li></ul>



DROUGHT		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Consider stored water/captured water techniques during dry seasons.</li><li>• Establishing an irrigation time/scheduling program or process so that all agricultural land gets the required amount of water. Through incremental timing, each area is irrigated at different times so that all water is not consumed at the same time. Spacing usage may also help with recharge of groundwater.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Drought resistant landscapes.</li><li>• Reduce water system losses.</li><li>• Regularly check for leaks to minimize water supply losses.</li><li>• Install low-flow water saving showerheads and toilets.</li><li>• Turn water flow off while brushing teeth or during other cleaning activities.</li><li>• Adjust sprinklers to water the lawn and not the sidewalk or street.</li><li>• Run the dishwasher and washing machine only when they are full.</li><li>• Check for leaks in plumbing or dripping faucets.</li><li>• Install rain-capturing devices for irrigation.</li><li>• Install graywater systems in homes to encourage water reuse.</li><li>• Rotate crops by growing a series of different types of crops on the same fields every season to reduce soil erosion.</li><li>• Planting “cover crops,” such as oats, wheat, and buckwheat, to prevent soil erosion.</li></ul></li><li>• Increase Capability:</li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Consider stored water/captured water techniques during dry seasons.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Drought resistant landscapes.</li><li>• Reduce private water system losses.</li><li>• Identify alternate water supply sources.</li><li>• Install low-flow water saving showerheads and toilets.</li><li>• Adjust sprinklers to water the lawn and not the sidewalk or street.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Practice active water conservation.</li><li>• Develop a COOP.</li><li>• Create a water conservation plan.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Ground Water Recharge through stormwater management.</li><li>• Implement cloud seeding techniques during dry seasons.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Identify and create ground water back up sources.</li><li>• Create /identify new impounded water supply points.</li><li>• Developing new or upgrading existing water delivery systems to eliminate breaks and leaks.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Water use conflict regulations.</li><li>• Reduce water system losses.</li><li>• Distribute water saving kits.</li><li>• Identify sites ideally suited for ground water recharge.</li><li>• Implement stormwater retention in regions ideally suited for groundwater recharges.</li><li>• Utilize drought resistant landscapes on community owned facilities.</li><li>• Encourage citizens to take water-saving measures.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Public education on drought resistance.</li><li>• Identify alternative water supplies for time of drought. Mutual aid agreements with alternative suppliers.</li><li>• Develop a drought contingency plan.</li><li>• Develop criteria-“triggers” for drought related actions.</li><li>• Improve accuracy of water supply forecasts.</li><li>• Provide incentives to influence active water conservation techniques such as water user rate reductions.</li></ul></li></ul>



DROUGHT		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Practice active water conservation techniques.</li><li>• Seek ways to operate wells in such a way to enhance their functional longevity and supply capability.</li></ul>		<ul style="list-style-type: none"><li>• Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes.</li><li>• Use of water buffalo tankers.</li><li>• Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells.</li><li>• Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc.</li></ul>



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>Manipulate the Hazard:<ul style="list-style-type: none"><li>None</li></ul></li><li>Reduce exposure to the hazard:<ul style="list-style-type: none"><li>Locate outside of hazard area (off soft soils).</li></ul></li><li>Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>Retrofit structure (anchor house structure to foundation).</li><li>Secure household items that can cause injury or damage such as water heaters, bookcases, and other appliances.</li><li>Build to higher design standards.</li></ul></li><li>Increase Capability:<ul style="list-style-type: none"><li>Practice "drop, cover and hold"</li><li>Develop household mitigation plan, such as creating a retrofit savings account, communication capability with outside, 72 hr. self-sufficiency during an event.</li><li>Increase capability by having cash reserves for reconstruction.</li><li>Become informed on the hazard and risk reduction alternatives available.</li><li>Develop a post-disaster action plan for your household.</li></ul></li></ul>	<ul style="list-style-type: none"><li>Manipulate the Hazard:<ul style="list-style-type: none"><li>None</li></ul></li><li>Reduce exposure to the hazard:<ul style="list-style-type: none"><li>Locate/relocate mission critical functions outside hazard area where possible.</li></ul></li><li>Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>Build redundancy for critical functions/facilities.</li><li>Retrofit critical buildings/areas housing mission critical functions.</li></ul></li><li>Increase Capability:<ul style="list-style-type: none"><li>Adopt higher standard for new construction -- Consider "performance-based design" when building new structures.</li><li>Increase capability by having cash reserves for reconstruction.</li><li>Inform your employees on the possible impacts of earthquake and how to deal with them at your work facility.</li><li>Develop a Continuity of Operations Plan (COOP).</li></ul></li></ul>	<ul style="list-style-type: none"><li>Manipulate the Hazard:<ul style="list-style-type: none"><li>None</li></ul></li><li>Reduce exposure to the hazard:<ul style="list-style-type: none"><li>Locate critical facilities or functions outside of hazard area where possible.</li></ul></li><li>Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>Harden infrastructure.</li><li>Provide redundancy for critical functions.</li><li>Adopt higher regulatory standards for structures.</li><li>Conduct "rapid screening" programs for critical facilities to identify facilities that may be particularly prone to EQ damage, then develop investigation/action plans to address such structures.</li></ul></li><li>Increase Capability:<ul style="list-style-type: none"><li>Provide better hazard maps.</li><li>Provide technical information and guidance.</li><li>Enact tools to help manage development in hazard areas: tax incentives, information.</li><li>Include retrofitting/replacement of critical system elements in CIP.</li><li>Develop strategy to take advantage of post disaster opportunities.</li><li>Warehouse critical infrastructure components such as pipe, power line, and road repair material.</li><li>Develop and adopt a Continuity of Operations / Continuity of Government Plan (COOP/COG).</li><li>Initiate triggers guiding improvements such as: (&lt; 50% substantial damage/improvements).</li><li>Further enhance seismic risk assessment to target high hazard buildings for mitigation opportunities.</li></ul></li></ul>



EARTHQUAKE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Develop a post disaster action plan that includes a grant funding and debris removal components.</li><li>• Utilize warning systems.</li><li>• Educate builders and developers on seismic construction standards.</li></ul>



Extreme Temperature		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Increase tree plantings</li><li>• Installation of green roofs to provide shade and remove heat</li><li>• Use cool roofing products that reflect sunlight and heat away from a building</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• None</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Increase tree plantings</li><li>• Installation of green roofs to provide shade and remove heat</li><li>• Use cool roofing products that reflect sunlight and heat away from a building</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Set rules restricting outdoor work during extreme temperature events</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Increase tree plantings</li><li>• Encourage the installation of green roofs to provide shade and remove heat</li><li>• Encourage the use of cool roofing products that reflect sunlight and heat away from a building</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Require minimum temperatures in housing/landlord codes</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur</li><li>• Establish warming and cooling centers</li><li>• Establish extreme temperature planning in emergency operation plans</li><li>• Create a database to track those individuals at high risk of death such as the elderly, homeless, etc.</li></ul></li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Clear stormwater drains and culverts.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Locate or re-locate outside of hazard area.</li><li>• Institute low impact development techniques on property.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Retrofit existing structures and utilities above Base Flood Elevation (BFE).</li><li>• Floodproof existing structures (wet- or dry floodproofing).</li><li>• Store hazardous materials above BFE or outside of floodprone areas.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Develop household mitigation plan, such as retrofit savings, communication capability with outside, 72-hr. self-sufficiency during and after an event.</li><li>• Buy flood insurance.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Clear stormwater drains and culverts.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Locate business critical facilities or functions outside hazard area.</li><li>• Institute low impact development techniques on property.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Build redundancy for critical functions/ retrofit critical buildings.</li><li>• Provide flood-proofing measures when new critical infrastructure must be located in floodplains.</li><li>• Harden structures and infrastructure (wet and dry-floodproofing).</li><li>• Store hazardous materials above BFE or outside of floodprone areas.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Increase capability by having cash reserves for reconstruction.</li><li>• Develop and adopt a Continuity of Operations Plan (COOP).</li><li>• Solicit 'cost-sharing" through partnerships with private sector stakeholders on projects with multiple benefits.</li><li>• Dam owner/operators should continue to be aware of and understand dam inspection and reporting requirements.</li><li>• Ensure that all dam EAP's are kept in compliance with State Regulations.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Clear stormwater drains and culverts</li><li>• Dredging, levee construction, providing retention areas.</li><li>• Structural flood control: levee's, dams, channelization, revetments.</li><li>• Construct regional stormwater control facilities.</li><li>• Lead and develop a county-wide stream clearing strategy including the development of thresholds for response/action.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Locate/re-locate critical facilities outside of hazard area.</li><li>• Acquire or relocate identified repetitive loss properties.</li><li>• Promote open space uses in identified high hazard areas via techniques such as: PUD's, easements, setbacks, greenways, sensitive area tracks.</li><li>• Adopt land development criteria such as PUD's, Density transfers, clustering.</li><li>• Institute low impact development techniques on property.</li><li>• Acquire vacant land or promote open space uses in developing watersheds to control increases in runoff.</li><li>• Pass an ordinance to incorporate additional zoning classifications into flood zones within each municipality.</li><li>• Increase floodplain standards within municipal ordinances and include provisions for enforcing best practice standards.</li><li>• Consider increasing minimum freeboard beyond state requirements.</li></ul></li></ul>





FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Continue development application reviews by County Planning Board to reduce risky development practices.</li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Harden structures and infrastructure (wet and dry-floodproofing).</li><li>• Provide redundancy for critical functions and infrastructure.</li><li>• Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage.</li></ul></li><li>• Stormwater management regulations and master planning.</li><li>• Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities.</li><li>• Participate in the Community Rating System (CRS).</li><li>• Implement as-built regulatory requirements.</li><li>• Implement site review ordinances/requirements.</li><li>• Establish stream maintenance programs with stakeholders (e.g. Soil and Water Conservation District) - support county leads of such efforts.</li><li>• Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs).</li><li>• Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding.</li><li>• Work with environmental groups to address removal of debris, log jams, etc. in flood vulnerable stream sections.</li><li>• Increase Capability:</li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Produce better hazard maps, and improve access to flood hazard mapping</li><li>• Capture/survey "high-water" marks during flood events.</li><li>• Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners.</li><li>• Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information).</li><li>• Establish an additional layer of zoning within flood hazard areas.</li><li>• Develop strategy to take advantage of post disaster opportunities.</li><li>• Improve compliance with and enforcement of the NFIP.</li><li>• Develop mitigation partnerships with regional stakeholders.</li><li>• Join Community Rating System (CRS) program, or improve level of participation in CRS.</li><li>• Develop and implement a public information strategy for flood hazard awareness, flood insurance (NFIP) and mitigation.</li><li>• Maintain existing data as well as gather new data needed to define risks and vulnerability.</li><li>• Create a building and elevation inventory of structures in the floodplain</li><li>• Identify flood prone areas that may be in need of new flood studies.</li><li>• Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations).</li><li>• Charge a hazard mitigation fee on all new permits to create a hazard mitigation</li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<p>funding source for initiatives or grant cost share requirements.</p> <ul style="list-style-type: none"><li>• Integrate floodplain management policies into other planning mechanisms within the planning area.</li><li>• Establish a Stormwater Utility to deal with urban drainage/flooding issues.</li><li>• Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers).</li><li>• Adopt ordinances/standards for cumulative damages and/or improvements.</li><li>• Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current state and federal standards.</li><li>• Develop and adopt a COOP.</li><li>• Join "Storm Ready" Program.</li><li>• Participate in county and regional training programs.</li><li>• Provide additional training/certification to NFIP floodplain administrators and code officials.</li><li>• Implement annual training to account for turnover of municipal officials.</li><li>• Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages.</li><li>• Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability.</li><li>• Promote awareness and participation in alert systems.</li><li>• Support and participate in regional flood management efforts.</li></ul>



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.</li><li>• Provide continued and enhanced training for emergency responders.</li><li>• Establish a revolving "bank" or budget line item to fund grant application support.</li><li>• Continue to review updated Flood Insurance Rate Maps to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.</li><li>• Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's.</li><li>• Build and maintain relationships to develop regional watershed/floodplain mitigation solutions.</li><li>• Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis.</li><li>• Explore grant funding opportunities related to climate change to fund mitigation projects.</li></ul>



LANDSLIDE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep slopes.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• None</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• None</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• Implement reinforcement measures in high-risk areas.</li><li>• Use debris flow measures that may reduce damage in sloping areas, such as stabilization, emergency dissipation, and flow control measures.</li><li>• Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep, publicly owned slopes.</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Consider hazard areas in land-use planning, zoning, and development siting.</li><li>• Acquire structures in highest hazard areas (demolish and convert to restricted open space).</li><li>• Relocation of Structures.</li><li>• Open Space Preservation.</li><li>• Create or increase setback limits on parcels near high-risk parcels.</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Consider hazard areas in land-use planning and development siting.</li><li>• Stabilize vulnerable slopes near structures and infrastructure.</li><li>• Work with stakeholders such as USGS to develop appropriate risk reduction strategies.</li><li>• Install catch-fall nets for rocks at steep slopes near roadways.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Increase understanding of hazard areas (e.g. Landslide Susceptibility Maps) - geotechnical surveys, LIDAR and mapping.</li><li>• Assessing vegetation in wildfire-prone areas to prevent landslides after fires (e.g. encourage plants with strong root systems).</li></ul></li></ul>



LANDSLIDE		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Work with stakeholders such as USGS to develop appropriate risk reduction strategies.</li><li>• Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.</li><li>• Develop county-level programs to document slide events (landslide inventory), and maintain its currency.</li></ul>



SEVERE WEATHER		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> <li>Manipulate the Hazard:               <ul style="list-style-type: none"> <li>Increase tree plantings.</li> <li>Installation of green roofs to provide shade and remove heat.</li> <li>Use cool roofing products that reflect sunlight and heat away from a building.</li> </ul> </li> <li>Reduce exposure to the hazard:               <ul style="list-style-type: none"> <li>None</li> </ul> </li> <li>Reduce vulnerability to the hazard:               <ul style="list-style-type: none"> <li>Retrofit structures (improved roofing, glazing, insulation, etc.).</li> <li>Provide for redundant heat and power.</li> <li>Contact municipality or utilities to trim or remove trees that could affect power lines.</li> <li>Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation Program.</li> <li>Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold.</li> </ul> </li> <li>Increase Capability:               <ul style="list-style-type: none"> <li>Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio).</li> <li>Promote 72-hour self-sufficiency.</li> <li>Provide for redundant heat and power.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Manipulate the Hazard:               <ul style="list-style-type: none"> <li>Increase tree plantings.</li> <li>Installation of green roofs to provide shade and remove heat.</li> <li>Use cool roofing products that reflect sunlight and heat away from a building.</li> </ul> </li> <li>Reduce exposure to the hazard:               <ul style="list-style-type: none"> <li>None</li> </ul> </li> <li>Reduce vulnerability to the hazard:               <ul style="list-style-type: none"> <li>Relocate critical infrastructure, such as power lines, underground.</li> <li>Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations.</li> <li>Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold.</li> </ul> </li> <li>Increase Capability:               <ul style="list-style-type: none"> <li>Contact municipality or utilities to trim or remove trees that could affect power lines.</li> <li>Create redundancy (e.g. backup generators).</li> <li>Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio).</li> <li>Develop a Continuity of Operations Plan (COOP).</li> <li>Monitor impending storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services.</li> <li>Set rules restricting outdoor work during extreme temperature events.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Manipulate the Hazard:               <ul style="list-style-type: none"> <li>Increase tree plantings.</li> <li>Encourage installation of green roofs to provide shade and remove heat.</li> <li>Encourage the use of cool roofing products that reflect sunlight and heat away from a building.</li> </ul> </li> <li>Reduce exposure to the hazard:               <ul style="list-style-type: none"> <li>None</li> </ul> </li> <li>Reduce vulnerability to the hazard:               <ul style="list-style-type: none"> <li>Harden infrastructure such as locating utilities underground.</li> <li>Trimming trees back from power lines.</li> <li>Designate and strengthen critical road sections and bridges.</li> <li>Adopt ordinances that regulate the type and quantity of trees planted near utility lines.</li> <li>Relocate critical infrastructure, such as power lines, underground.</li> <li>Require minimum temperatures in housing/landlord codes.</li> </ul> </li> <li>Increase Capability:               <ul style="list-style-type: none"> <li>Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.</li> <li>Enforce building codes.</li> <li>Increase communication alternatives.</li> <li>Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.</li> <li>Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines.</li> <li>Promote awareness and participation in alert systems.</li> <li>Provide NOAA weather radios to the public.</li> </ul> </li> </ul>





SEVERE WEATHER		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"><li>• Create/Enhance "mutual aid" agreements for response to all emergencies.</li><li>• Create/identify evacuation routes to be utilized during severe storm events.</li><li>• Develop debris management plans.</li><li>• Join "Storm-Ready" program.</li><li>• Provide early warning of impending severe storm events to identified critical or essential facilities. This would include facilities such as large employment centers, schools, hospitals.</li><li>• Promote emergency power supplies to private property.</li><li>• Improve, expand, or harden communications facilities and services.</li><li>• Recruit additional emergency personnel or use mutual aid agreements.</li><li>• Increase sheltering capabilities.</li><li>• Increase capability to respond to power outages and downed power lines. Establish partnerships with utility providers through pro-active planning.</li><li>• Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur.</li><li>• Establish warming and cooling centers.</li><li>• Establish extreme temperature planning in emergency operation plans.</li><li>• Create a database to track those individuals at high risk of death such as the elderly, homeless, etc.</li></ul>



SEVERE WINTER WEATHER		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• Plant appropriate trees near home and power lines (“Right tree, right place” National Arbor Day Foundation).</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Insulate House to provide greater thermal efficiency and reduce heat loss.</li><li>• Provide redundant heat and power.</li><li>• Insulate Structure.</li><li>• Ensure natural gas input/release valves do not get covered in snow.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Trim or remove trees that could affect power lines.</li><li>• Prepare emergency food and supplies to be self-sufficient for at least 72 hours in the event of a severe winter storm.</li><li>• Be aware of inclement weather conditions and move your vehicles off the street as severe weather systems approach.</li><li>• Retrofit structures.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Relocate critical infrastructure, such as power lines, underground.</li><li>• Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations.</li><li>• Install tree wire.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Trim or remove trees that could affect power lines.</li><li>• Create redundancy in utilities and communications.</li><li>• Develop a Continuity of Operations Plan (COOP) to address operations before, during and after coastal storm events.</li><li>• Utilize weather radios at the work place to keep your employees aware of severe weather conditions.</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Manipulate the Hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce exposure to the hazard:<ul style="list-style-type: none"><li>• None</li></ul></li><li>• Reduce vulnerability to the hazard:<ul style="list-style-type: none"><li>• Harden infrastructure such as locating utilities underground where appropriate.</li><li>• Trimming trees back from power lines.</li><li>• Designate snow routes and strengthen critical road sections and bridges.</li><li>• Adopt codes and regulations that address the issues of parking of vehicles along roadways during severe weather events.</li><li>• Develop or enhance the capacity/capability of stormwater conveyance systems.</li><li>• Provide backup power sources at vital critical facilities.</li></ul></li><li>• Increase Capability:<ul style="list-style-type: none"><li>• Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc.</li><li>• Establish and enforce building codes that require all roofs to withstand snow loads-- Develop/Improve/Enforce building Codes in Hazard Areas.</li><li>• Increase communication alternatives.</li><li>• Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors.</li><li>• Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines.</li><li>• Provide weather radios to vulnerable populations.</li><li>• Enhance public awareness campaigns to address those issues of alert and warning</li></ul></li></ul>



SEVERE WINTER WEATHER		
Personal Scale	Corporate Scale	Government Scale
		<p>and actions to take during severe weather events.</p> <ul style="list-style-type: none"><li>• Utilize the best available technology to enhance the warning systems for all severe weather events (i.e.: tornado warning systems).</li><li>• Coordinate severe weather warning capabilities and the dissemination of warning amongst those agencies within the planning are with the highest degree of capability.</li><li>• Encourage local ordinances for planting tree near lines and join Tree City USA.</li><li>• Increase tree management programs.</li><li>• Join the Community Rating System.</li><li>• Join "Storm-Ready".</li><li>• Retrofit critical structures and promote hazard resistant construction.</li><li>• Keep open communications and education of hazards for mobile home communities.</li><li>• Retrofit above-ground utilities to underground facilities if appropriate.</li><li>• Create a salt reserve or research alternates to stretch salt reserve.</li><li>• Ensure accessibility to hospitals.</li><li>• Provide better debris logistics and removal.</li><li>• Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event.</li></ul>

## APPENDIX J: NYS DHSES PLANNING STANDARDS



This appendix includes the 2022 NYS DHSES planning standards and guidelines for hazard mitigation planning.

DRAFT



## 2022 New York State Hazard Mitigation Planning Standards

*(Supersedes the 2017 NYS Hazard Mitigation Planning Standards)*

Congratulations on taking the first steps to update a multi-hazard mitigation plan for your community!

The goal of both the New York State Division of Homeland Security and Emergency Services (NYS DHSES) and FEMA is that all jurisdictions develop robust mitigation plans and tangible mitigation actions that will contribute to long-term risk reduction.

The 2022 NYS Hazard Mitigation Planning Standards reduce the 2017 Hazard Mitigation Planning Standards. Any plan currently in development, regardless of date funded, will be held *only* to these reduced standards.

---

### PLEASE NOTE:

On April 19, 2023, FEMA's new Local Mitigation Planning Policy will take effect. Plans approved on or after this date **must meet requirements** as outlined in the linked [Policy Guide](#).

[https://www.fema.gov/sites/default/files/documents/fema\\_local-mitigation-planning-policy-guide\\_042022.pdf](https://www.fema.gov/sites/default/files/documents/fema_local-mitigation-planning-policy-guide_042022.pdf)

---

The additional state requirements detailed below are intended to improve the quality of hazard mitigation plans and encourage the development of the most appropriate and effective mitigation projects for your community. It is recognized that many jurisdictions have inherent constraints and certain information may be difficult to provide. NYS DHSES and FEMA will work with you throughout the entire planning process to ensure the successful development of your community's hazard mitigation plan.

There are a multitude of resources that exist to provide guidance and support throughout the planning process, developed by Federal and State agencies, as well as private and research-based groups. We urge you to contact us so that we may direct you to additional resources and provide you with the most comprehensive technical assistance possible.

For questions and comments, please call our offices at 518-292-2304.

Additional contact information will be provided to sub-recipients for more direct assistance.



**Please note:**

**Jurisdiction** is used to describe all government entities within the boundaries set forth in the Multi-Jurisdictional Plan (typically County-wide), including the County itself, as well as cities, towns, villages and potentially tribes that choose to join a multi-jurisdictional plan.

**Special Flood Hazard Area (SFHA)** is defined as the area that will be inundated by the flood event having a 1-percent change of being equaled or exceeded in a given year (previously known as the 100-year flood event).

---

**1. Assess Critical Facilities**

*Critical facilities must remain accessible and functional before, during and after disasters to meet the jurisdictions Continuity of Government (COG) and Continuity of Operations (COOP) standards, and to support important emergency, government and sheltering functions.*

Jurisdictions must identify all critical facilities, assess their vulnerabilities, and evaluate and ensure they are protected to a 0.02% chance (500-year) flood event. Critical facilities that are located in an SFHA and/or have been previously flooded, must be protected against a repeat of that flood or to the 0.02% chance flood event, whichever provides the greater protection.

- The plan must document the name of facility, type of facility, jurisdictional location, and exposure to a 1% (100-year) and 0.02% chance event.
- The plan must document those critical facilities are protected to a 0.02% flood event, or previous worst case flood event. For those that do not meet this level of protection, the plan must include an action to meet or go beyond this criterion or explain why it is not feasible to do so. Going beyond this criterion is optional but may be wise to protect against a future worst case due to climate change.

**2. Include Jurisdictional Annexes**

*Jurisdictional annexes provide a unique, stand-alone guide to mitigation planning for each jurisdiction.*

The plan must be organized so that there is an annex for every jurisdiction within the county's borders, including the County.

- The plan must include a table in the Introduction section clearly identifying all jurisdictions and which are seeking FEMA approval.
- The annex for each jurisdiction seeking FEMA approval must include the following:
  - Contact Information;
  - Jurisdiction Profile;
  - Hazard Identification (specific to the jurisdiction);
  - Hazard Event History;
  - National Flood Insurance Program (NFIP) Summary (to meet Federal Standards);
  - Critical Facilities Information (to meet F1);
  - Jurisdiction/public identified vulnerabilities;
  - Additional public involvement;
  - Capabilities Assessment;
  - Mitigation Strategy:
    - All identified previous mitigation activities with current status;
    - All proposed mitigation activities (both new and carried forward, to meet F3)
- The annex for each non-participating jurisdiction (those not seeking FEMA approval at this time), must include a cover sheet and should include as much information as is available.





### 3. Develop Mitigation Actions

*Projects that are well developed and documented in one place are more quickly identifiable for selection when grants become available, making implementation that much more likely.*

Within each jurisdictional annex, jurisdictions must develop a minimum of two (2) new or carryover (not started) proposed mitigation actions that include all information requested in the NYS DHSES LHMP Proposed Action spreadsheet. For jurisdictions containing an SFHA, one (1) of these actions must be for a project that addresses flooding.

### 4. Post Draft Plan Online

*Allowing the public to comment on the draft plan increases awareness about how mitigation saves lives and reduces risk and allows a final opportunity for public input.*

The public must have an opportunity to view and comment on the draft plan prior to submittal.

- The draft plan must be posted in full (except for discretionary sensitive information) on an existing county/jurisdiction website, or one created for the purpose of soliciting comments, for 30 days or the time prescribed by local law, whichever is greater, and the plan must describe efforts made to solicit public comments from potentially underserved areas where residents may not have access to a computer to view the website. The website must clearly identify how the public can comment on the plan, to include either specific contact information to send comments or a user-friendly form or survey.

### After NYS DHSES and FEMA Approval

- Once designated Approvable Pending Adoption (APA) or Approved by FEMA, the final plan must be placed on the same website (cited above) in its entirety (except for discretionary sensitive information).
- Final payment will occur only after 50% of the participating jurisdictions have adopted the plan and provided adoption resolutions to NYS DHSES. For county-led hazard mitigation planning efforts, the county must be one of the adopting jurisdictions.

The chart below shows the requirements as they appear on the plan review tool used by NYS DHSES and FEMA Region II to determine whether a submitted plan meets federal and state requirements.

1. REGULATION CHECKLIST		Location in Plan	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)		(section and/or page number)		
ELEMENT F. ADDITIONAL STATE REQUIREMENTS – NYS HAZARD MITIGATION PLANNING STANDARDS				
These are required actions for plans developed with NYS DHSES-administered funds.				
H1. Do jurisdictions identify critical facilities, assess vulnerabilities, and ensure protection to a 0.02% flood event or worst-case scenario?				
H2. Does the plan include an annex for every jurisdiction within the County's boundaries?				
H3. Within each jurisdictional annex, are projects developed in accordance with the NYS DHSES Proposed Projects Table?				
H4. Was the draft plan posted for public comment?				
<b>Note:</b> The applicant is required to address the 2022 NYS Hazard Mitigation Planning Standards as required actions for a hazard mitigation plan developed with funds administered by NYS DHSES.				
<b>ELEMENT H: REQUIRED REVISIONS</b>				
<b><u>Please see opportunities for improvement</u></b>				

## APPENDIX K: LINKAGE PROCEDURES



This Appendix contains the linkage procedures for the Seneca County Hazard Mitigation Plan.

## ADMINISTRATIVE PROCESS FOR “LINKAGE” TO THE SENECA COUNTY HAZARD MITIGATION PLAN

---

The development of the Seneca County Hazard Mitigation Plan 2025 Update (the Plan) included the County and all eligible local governments within the defined planning area are included in this plan. Completed jurisdictional annexes are presented in Volume II. Any non-participating local jurisdictions such as Fire Districts, Utility Districts, School Districts, and any other eligible local government as defined in 44 CFR 201.2 within the Seneca County planning area can join this plan as a participating jurisdiction and to ultimately achieve approved status by following the linkage procedures defined in this appendix.

It is assumed that some or all these local jurisdictions may choose to "link" to the Plan at some point in time to gain eligibility for programs under the DMA. In addition, some of the current partnership may not continue to meet eligibility requirements due to the lack of active participation as prescribed by the plan. These "linkage" procedures will define the requirements established by the Seneca County HMP Steering Committee and all planning partners for dealing with the increase or decrease in planning partners linked to this plan. It should be noted that currently non-participating jurisdictions within the defined planning area are not obligated to link to this plan. These jurisdictions can choose to do their own "complete" plan that addresses all required elements of section 201.6 of 44CFR.

## INCREASING THE PARTNERSHIP THROUGH LINKAGE

---

### Eligibility

Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period. Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period (5 years after final approval). Eligibility will be determined by the following factors:

- The linking jurisdiction is a local government as defined by the Disaster Mitigation Act.
- The boundaries or service area of the linking jurisdiction is completely contained within the boundaries of the planning area established during the 2025 hazard mitigation plan development process.
- The linking jurisdiction's critical facilities were included in the critical facility and infrastructure risk assessment completed during the 2025 plan development process.

### Requirements

It is expected that linking jurisdictions will complete the requirements outlined below and submit their completed template to the lead agency Seneca County Department of Public Safety – Emergency Management Office for review within six months of beginning the linkage process:

1. The Seneca County Hazard HMP Steering Committee has established an annual window for which linkage to the plan can occur. Linking jurisdictions are instructed to complete the following procedures during this time frame.
2. The current non-participating jurisdiction contacts the Seneca County HMP Coordinator for the Plan and requests a "Linkage Package". The Seneca County HMP Coordinator is:



Melissa Taylor, Director  
Emergency Management Office  
Seneca County Public Safety Department  
1 DiPronio Drive  
Waterloo, New York 13165  
(315) 539-1756  
mtaylor@co.seneca.ny.us

3. The Seneca County HMP Coordinator will provide a linkage package that includes:
  - Copy of Volume I and II of the Plan (CDROM).
  - Planning Partner's Expectations Sheet.
  - A Sample "Letter of Intent" to Link to the Plan.
  - A Jurisdictional Template and Instructions.
  - Catalog of Hazard Mitigation Alternatives or the Mitigation Catalog.
  - A copy of Section 201.6 of Chapter 44, the Code of Federal Regulations (44CFR), which defines the federal requirements for a local hazard mitigation plan.
4. The new jurisdiction will be required to review both volumes of the Plan which includes the following key components for the planning area:
  - The Seneca County risk assessment;
  - The plan's goals and objectives;
  - Plan implementation and maintenance procedures;
  - Catalog of potential mitigation actions; and
  - County-wide initiatives.

Once this review is complete, the jurisdiction will complete its specific jurisdictional annex by following the template and its instructions for completion provided by the Seneca County HMP Coordinator. Technical assistance can be provided upon request by completing the request for technical assistance (TA) form provided in the linkage package. This TA may be provided by the Seneca County HMP Coordinator or any other resource within the Planning Partnership such as a member of the HMP Steering Committee or a currently participating jurisdiction. The Seneca County HMP Coordinator will determine who will provide the TA and the possible level of TA based on resources available at the time of the request.

5. The new jurisdiction will also be required to develop a public involvement strategy that ensures their public's ability to participate in the plan development process. At a minimum, the new jurisdiction must make an attempt to solicit public opinion on hazard mitigation at the onset of this linkage process and a minimum of one public meeting to present their draft jurisdiction specific annex for comment, prior to adoption by the governing body. The Planning Partnership will have available resources to aid in the public involvement strategy such as the Plan website. However, it will be the new jurisdiction's responsibility to implement and document this strategy for incorporation into their annex.

It should be noted that the Jurisdictional Annex templates do not include a section for the description of the public process. This is because the original partnership was covered under a uniform public involvement strategy that covered the operational area that is described in Volume I of the plan. Since the new partner was not addressed by that strategy, they will have to initiate a new strategy, and add a description of that strategy



to their annex. For consistency, new partners are encouraged to follow the public involvement format utilized by the initial planning effort as described in Volume I of the Plan.

6. Once their public involvement strategy is completed and they have completed their template, the new jurisdiction will submit the completed package to the Seneca County HMP Coordinator for a pre-adoption review to ensure conformance with the regional plan format.
7. The Seneca County HMP Coordinator will review for the following:
  - Documentation of public involvement and mitigation action development strategies;
  - Conformance of template entries with guidelines outlined in instructions;
  - Chosen actions are consistent with goals, objectives, and mitigation catalog of Seneca County Hazard Mitigation Plan; and
  - Designated point of contact.

The Seneca County HMP Coordinator may utilize members of the HMP Steering Committee or other resources to complete this review. All proposed linked annexes will be submitted to the HMP Planning Committee for their review and comment prior to submittal to the New York State Division of Homeland Security and Emergency Services (NYS DHSES).

8. Plans approved and accepted by the HMP Steering Committee will then be forwarded to NYS DHSES for review with cover letter stating the forwarded plan meets local approved plan standards and whether the plan is submitted with local adoption or for criteria met/plan not adopted review.
9. NYS DHSES will review plans for state and federal compliance. Non-compliant plans are returned to the jurisdiction for correction. Compliant plans are forwarded to FEMA Region II office for review with annotation as to the adoption status.
10. FEMA Region II reviews the new jurisdiction's plan in association with the approved plan to ensure DMA compliance. Region II notifies new jurisdiction of results of review with copies to NYS DHSES and approved planning authority.
11. New jurisdiction corrects plan's shortfalls (if necessary) and resubmits to NYS DHSES through the approved plan lead agency.
12. For plans with no shortfalls that have not been adopted from the Region II review or outstanding corrected shortfalls, the new jurisdiction governing authority adopts the plan (if not already accomplished) and forwards adoption resolution to Region II with copies to lead agency and NYS DHSES.
13. Region II Director notifies new jurisdiction governing authority of plan approval.
14. The new jurisdiction plan is then included with the Seneca County HMP and the linking jurisdiction is committed to participate in the ongoing plan implementation and maintenance identified in Volume I of the HMP.