



Cattaraugus County, New York

Hazard Mitigation Plan

Volume III - Appendices



September 2025



Cattaraugus County Hazard Mitigation Plan

September 2025
#105s039526

PREPARED FOR

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APPENDIX A: ADOPTION RESOLUTION



The Cattaraugus 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 Cattaraugus County and participating jurisdictions authorizing adoption of the 2025 Cattaraugus County Hazard Mitigation Plan Update.



Sample Resolution

(LOCAL GOVERNMENT, INCLUDING SPECIAL DISTRICTS), New York

RESOLUTION NO. _____

A RESOLUTION OF THE (LOCAL GOVERNMENT) ADOPTING THE 2025 Cattaraugus 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. 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 Cattaraugus County Hazard Mitigation Plan Update.



MEETING NOTES

Meeting	Cattaraugus County, New York Hazard Mitigation Plan (HMP) Update Core Planning Group (CPG) Kickoff Meeting		
Date	November 2, 2023	Time	2:00 – 3:30 p.m.
Location	Cattaraugus County Department of Public Works (DPW) Conference Room, 8810 Route 242, Jack Ellis Drive, Little Valley, NY		
Attendees	Kathy Ellis, Commissioner, Cattaraugus County DPW		
	Kimberly A. Merrill, HMP Coordinator, Secretary to the Commissioner, Cattaraugus County DPW		
	Michael S. Prinino, Deputy Commissioner, Cattaraugus County DPW		
	Thomas Ruper, Safety Engineer, Cattaraugus County Attorney's Office Risk Management Division		
	Mary O'Leary, Director, Cattaraugus County Department of Community Services		
	Chris Baker, Director, Cattaraugus County Office of Emergency Services		
	Naomi Gennings, NIMS Coordinator, Cattaraugus County Office of Emergency Services		
	James Lawrence, Emergency Preparedness Director, Cattaraugus County Health Department		
	Chris Holewinski, GIS Coordinator, Cattaraugus County Office of Real Property & GIS Services		
	Tony Subbio, Project Manager, Tetra Tech		

Discussion Points

This section summarizes each discussion point addressed during the CPG Kickoff Meeting.

Introductions

Ms. Merrill welcomed the group. Attendees introduced themselves. A few attendees were new to hazard mitigation and the planning process. Most were involved in the 2020 HMP update.

Overview of Hazard Mitigation

Mr. Subbio provided a brief overview of hazard mitigation and the funding available from the Federal Emergency Management Agency (FEMA). He described the requirements of the Disaster Mitigation Act of 2000 (DMA 2000) and the New York State Division of Homeland Security and Emergency Services (NYS DHSES) for HMPs.

Project Scope Review

Mr. Subbio summarized the project scope, which is organized into the following tasks:

- Task 1: Organize the Planning Effort – This task includes formation of the CPG and the Steering Committee and conducting outreach to stakeholders and the general public. Jurisdictions will form teams of officials to compile information for the HMP update. Tetra Tech will develop a project website and a set of stakeholder surveys to collect information to feed the planning process. This task also includes data collection. Mr. Subbio sent Tetra Tech's GIS Data Wish List to Ms. Merrill on October 10, 2023.
- Task 2: Hazard Identification and Risk Assessment – This task includes analyzing the hazards of concern and how they impact the County and its communities. Following the completion of the risk assessment, Tetra Tech will conduct a public risk assessment review meeting.



MEETING NOTES

- Task 3: Vulnerability Assessment – This task analyzes the people, property, and other assets that could be impacted by the hazards.
- Task 4: Capability Assessment and Resource Integration – Under this task, planners will identify what programs and resources can be leveraged to reduce vulnerability. Tetra Tech will document each jurisdiction’s participation in the National Flood Insurance Program (NFIP) under this task.
- Task 5: Mitigation Strategy and Actions and Plan Integration – This task includes updating the goals and objectives of the HMP, developing specific actions for inclusion in the updated HMP, and documenting how mitigation is integrated with other community plans.
- Task 6: Implementation and Plan Maintenance – Under Task 6, planners will document how the updated HMP will be maintained for the next 5 years. Tetra Tech will again deploy the BAToolSM program to support ongoing plan maintenance.
- Task 7: Draft Plan – This task captures progress on writing the updated HMP and the layers of review before the completed HMP is approved by FEMA.
- Task 8: Plan Adoption – Under this task, the County and participating jurisdictions will formally adopt the HMP.

FEMA Review of the 2020 HMP

Mr. Subbio facilitated the review of FEMA’s comments from the 2020 HMP. Ms. Merrill pointed out that the use of the BAToolSM program worked well for five of the 38 municipalities. In 2023, Ms. Merrill conducted two virtual meetings to review the HMP. Approximately half of the municipalities attended the meetings. The County conducted one-on-one outreach with the rest of the municipalities. Ms. Merrill will send notes from each annual review meeting to Mr. Subbio.

Hazards of Concern

The following hazards will be profiled in the updated HMP:

- Dam Failure
- Flood
- Landslide
- Pandemic
- Severe Storm
- Severe Winter Storm
- Utility Failure
- Wildfire

There have been landslides in Ashford, Otto, Point Peter, and along NY-353 in the Village of Cattaraugus.

Mr. Baker stated that the New York State Department of Environmental Conservation’s records on wildfires inflate the number of instances of wildfires such that wildfire is rated worse in the County than it is in the State of California. Mr. Baker will put together data on wildfires in the County.

Steering Committee

Mr. Subbio described the Steering Committee and the groups to be represented on it. He explained that school districts, multi-municipal authorities, and other special districts will be jurisdictions of their own in this HMP update. There are several fire districts and a few private water districts in the County.



MEETING NOTES

Mr. Subbio also described FEMA's recently updated requirements related to addressing social vulnerability in HMPs. Mr. Lawrence stated that he has data on economic status, health status, and vulnerability of the general population. Attendees stated that there are many organizations in the County that provide services to socially vulnerable populations. The Department of Social Services, Department of the Aging, and Department of Community Services actively serve these populations. Mr. Holewinski reported that the County maintains databases on vulnerable populations; he will work with Information Services to obtain the data.

Attendees will send lists of points of contact for Steering Committee organizations to Ms. Merrill.

Public and Stakeholder Outreach

Attendees discussed outreach to stakeholder organizations and the general public. Tetra Tech will conduct meetings with jurisdiction officials after the Steering Committee Kickoff Meeting and after the Risk Assessment Review Meeting. Tetra Tech will develop a project website, a problem identification survey on which individuals can pinpoint hazard impacts, and a set of stakeholder surveys. The stakeholder surveys will collect information from the general public, neighboring jurisdictions, and other stakeholder organizations. Ms. Merrill stated that the County may conduct outreach at in-person events as well.

Project Schedule Review

Mr. Subbio provided a brief overview of the project schedule. The risk assessment will be complete in March 2024. The mitigation strategy will be completed in July 2024. The draft of the HMP will be available for public comment by late July 2024. Public, State, and FEMA reviews of the plan will occur after that.

Mr. Subbio stressed that the project timeline depends on receiving data and information from the County and jurisdictions in a timely manner. Delays in receiving these data and information will delay the overall project timeline.

Next Steps

- Ms. Merrill will send the County's notes from the annual HMP reviews to Mr. Subbio.
- The County will update the GIS Data Wish List and return it to Tetra Tech.
- CPG members will send any relevant plans, studies, or documents to Mr. Subbio.
- Mr. Baker will compile wildfire data and provide them to Mr. Subbio.
- Mr. Holewinski will work with Information Services to obtain data on vulnerable populations.
- Attendees will send lists of points of contact for stakeholder organizations to Ms. Merrill.
- Tetra Tech will develop the survey tools.
- Tetra Tech will develop the project website.
- The CPG will schedule the Steering Committee Kickoff Meeting in early 2024.
- Tetra Tech will assess the risks faced by the County and its communities.

The meeting adjourned at 3:30 p.m.



AGENDA

CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Core Planning Group Kickoff Meeting

Thursday, November 2, 2023 | 2:00 – 4:00 p.m.

1. Introductions

2. Overview of Hazard Mitigation

3. Project Scope Review

- a. Task 1: Organize the Planning Effort
- b. Task 2: Hazard Identification and Risk Assessment
- c. Task 3: Vulnerability Assessment
- d. Task 4: Capability Assessment and Resource Integration
- e. Task 5: Mitigation Strategy and Actions and Plan Integration
- f. Task 6: Implementation and Plan Maintenance
- g. Task 7: Draft Plan
- h. Task 8: Plan Adoption

4. FEMA Review of the 2020 HMP

5. Hazards of Concern

- | | |
|----------------|------------------------|
| a. Dam Failure | h. Severe Storm |
| b. Flood | i. Severe Winter Storm |
| c. Landslide | j. Utility Failure |
| d. Pandemic | k. Wildfire |

6. Steering Committee

- a. Municipal officials
- b. Districts
- c. Authorities
- d. Socially vulnerable populations and service providers
- e. Others

7. Public and Stakeholder Outreach

- a. Jurisdictional Meetings
 - i. Following Steering Committee Kickoff Meeting
 - ii. Following Risk Assessment Review Meeting
 - b. Website
 - c. Problem Identification Survey
 - d. Stakeholder Surveys
-





AGENDA

8. Project Schedule Review

9. Next Steps

- a. Document Request
 - b. GIS Data
 - c. Develop Website and Surveys
 - d. Steering Committee Kickoff Meeting
 - e. Risk Assessment Update
-

10. Questions



SECTION 2: PLAN ASSESSMENT

This section provides a discussion of the strengths of the planning process/plan document and identifies areas where this plan or subsequent updates of the plan could be improved beyond minimum requirements.

General

- Section 8, Planning Partnership, is a very nice introduction to the Annexes. Many plans do not provide this introduction.

Element A: Planning Process

Strengths

- This plan was developed while COVID-19 was disrupting normal operations. The County is to be commended for completing this plan in a virtual environment.
- The listing of expectation each jurisdiction was expected to meet was good to see because it helps ensure those expectations are met.
- It was excellent to see that in defining the role of jurisdictional representatives, one task was to involve in the planning process others from their jurisdiction representing the viewpoint of their department or function. A planning process that includes various points of view helps ensure better decisions are reached.

Opportunity for Improvement

- Sections 7.1, Plan Maintenance Section, describes an intent to meet annually in mid-October to review and evaluate progress and in October 2022 a detailed approach for updating the plan will be developed. The HMP coordinator will document progress with implementation of the plan and post the results on the County Office of Emergency Services website. It is important that this commitment be met, and it will be a challenge without the full cooperation of each jurisdiction, as there are about 550 mitigation actions. Upon approval of the plan the County should meet virtually with the Planning Partnership (participating jurisdictions) to reinforce the importance of keeping the plan up to date. The extent that the county and jurisdictions follow through on these commitments will likely a factor in the awarding of future FEMA planning and project grants and will help ensure the plan is next updated before it expires in five years.

Element B: Hazard Identification and Risk Assessment

Strengths

- The inundation maps for various dams, starting with Figure 5.4.1 – 4, were an excellent way to present risk information, and the discussion of levees was quite informative.
- Several tables provide risk information by jurisdiction, such as % of people exposed; % of buildings expose; and the replacement value of exposed building. Other tables calculated to probability of an event occurring in any year. Taken together they presented information that allowed the risks from different hazards to be compared.
- The specifics given on past landslides helped in understanding the breath of the risk.

Opportunity for Improvement

- Significant improvements are not needed.

Element C: Mitigation Strategy

Strengths

- All but one of the towns and villages have a population below 3,000 (Table 4-2). The least populated town is Red House, where there are only 31 people between the ages of 5 and 65. The plan does a good job in including them in the process and in selecting mitigation actions for specific risks.

Opportunity for Improvement

- It is good that the 2020 planning process had each community identify their many risks and then identify mitigation actions to address these risk, but this should be balanced against their capacity to implement all of the actions. The small towns and villages mentioned above often found it difficult to make significant progress on implementing their actions from the 2014 plan. This makes it important that when prioritizing actions as high, medium, and low, the number of actions assigned a high priority be realistic. Several jurisdictions have identified every action as a high priority. These jurisdictions should revisit their prioritization to ensure they can reasonably expect to accomplish their highest priorities.
- The proposed mitigation actions sometime lump several problems together, which may be appropriate if the action is to study a type of problem or several problems that may be interrelated, but if the proposed action calls for multiple projects, in most cases there should be one mitigation action for each project. The exception to this would be if a group of projects are to be treated as a package when seeking budget or grant funding, or the work is to be contracted out under a single contract.
- Integration of plans and policies is an important contributor to sustainability and resilience. In jurisdictions with small populations, such as most communities are in Cattaraugus County, integration is more like to occur, albeit in an informal way. Nevertheless, the plan would be strengthened if it were clearer on how mitigation concepts and information are factored into decisions affecting land use, including deciding which capital improvement should be made because they can indirectly induce land use patterns.

Project Schedule

Task	Timeframe
Task 1: Organize the Planning Effort	<ul style="list-style-type: none"> • Core Planning Group Kickoff Meeting conducted on November 2, 2023 • Municipal participation confirmed by early December 2023 • Steering Committee members identified by the end of November 2023 • Steering Committee Kickoff Meeting conducted in early December 2023 • Jurisdictional Team members identified by mid-December 2023 • Develop public outreach strategy by late December 2023 • Project website developed by the middle of December 2023 and maintained throughout the project • Jurisdictional Meetings to collect initial information conducted in mid-January 2024 • Data and documents collected by the end of January 2024 • Jurisdictional meetings to review risks, capabilities, and actions conducted in early May 2024 • Public and stakeholder surveys available online through early May 2024 • Public outreach conducted with the County through early May 2024 and documented in the HMP
Task 2: Hazard Identification and Risk Assessment	<ul style="list-style-type: none"> • List of hazards of concern developed within one week of the Core Planning Group Kickoff Meeting • Update hazard profiles through March 2024 • Steering Committee risk assessment review meeting conducted in late March 2024
Task 3: Vulnerability Assessment	<ul style="list-style-type: none"> • Risk and vulnerability assessment conducted through March 2024
Task 4: Capability Assessment and Resource Integration	<ul style="list-style-type: none"> • Review existing plans and other resources from jurisdictions and outside stakeholders by the end of March 2024 • Review and assess capabilities and current integration for the County and municipalities by early April 2024 • Describe ability to expand capabilities, including floodplain management, through April 2024
Task 5: Mitigation Strategy and Actions and Plan Integration	<ul style="list-style-type: none"> • Decide which vulnerabilities present an unacceptable risk and for which capabilities do not exist, and develop problem statements through March 2024 • Document criteria for evaluating options to solve problems and identify options to address each problem by early April 2024 • Confirm/update draft goals and objectives, and describe shifts in priorities (if applicable), in early April 2024 • Goals and objectives meeting conducted in mid-April 2024 • Steering Committee mitigation strategy workshop conducted in late May 2024 • Mitigation actions finalized, action worksheets populated, and jurisdictional annexes developed by the beginning of July 2024

Task	Timeframe
Task 6: Implementation and Plan Maintenance	<ul style="list-style-type: none"> • Document funding sources by the end of April 2024 • Plan maintenance procedures developed by the beginning of March 2024 • Develop the BAToolSM Program with identified mitigation actions by November 2024 • Launch the BAToolSM Program and hold training with Steering Committee and Jurisdictional Team by February 2025
Task 7: Draft Plan	<ul style="list-style-type: none"> • Draft developed and posted to the project and County websites by late July 2024 • Public comment period running from the end of March to the end of August 2024 • Public Draft Plan Review Meeting conducted at the end of August 2024 • Comments documented and draft finalized by the beginning of September 2024 • Draft submitted to NYS DHSES in early September 2024 • NYS DHSES Review Period from early September to mid-October 2024 • Draft HMP updated and submitted to FEMA Region II in early November 2024 • FEMA Review Period from early November to the middle of December 2024 • APA granted in the beginning of January 2025
Task 8: Plan Adoption	<ul style="list-style-type: none"> • Resolutions adopting the HMP passed in November 2024 – January 2025 • Final deliverable to County by the end of January 2025
Project Management	<ul style="list-style-type: none"> • Project Kickoff Meeting conducted on August 17, 2023 • Project Closeout Meeting conducted in February 2025



HAZARD MITIGATION PLAN UPDATE | CORE PLANNING GROUP SIGN-IN

Thursday November 2, 2023

Start time: 2:00 pm End time: 3:30 pm

NAME	TITLE	EMAIL	PHONE	SIGNATURE
James Lawrence	Public Health	Cattaraug	x3419 (716) 938-2980	[Signature]
Shirley Miller	HMP Coordinator Secretary for the Committee	kmiller@cattco.org	716-938-2398	[Signature]
Tony Subbia	PM	tony.subbia@cattco.org	717-531-5654	[Signature]
Heom. Greenberg	WMS coordinator	reganmg@cattco.org	716-938-2912	[Signature]
Thomas Ruper	Safety Engineer	fruper@cattco.org	716-938-2398	[Signature]
Chavis Barta	DIRECTOR	C.BARTA@cattco.org	716-938-2240	[Signature]
MICHAEL S PRINNO	DEPUTY	MSPRINNO@cattco.org	716 938 2483	[Signature]
Mark Edes	Commissioner	medes@cattco.org	716-938-2460	[Signature]
Chris Holvinski	GIS Coordinator	cholvinski@cattco.org	716 938 2322	[Signature]
Mary O'Leary	Director (Admin Serv)	mholvanski@cattco.org	716-701-3294	[Signature]





MEETING NOTES

Meeting	Cattaraugus County, New York Hazard Mitigation Plan (HMP) Update Steering Committee Kickoff Meeting		
Date	March 7, 2024	Time	5:30 – 6:35 p.m.
Location	Cattaraugus County Legislative Chambers, 303 Court Street, Little Valley, NY 14755		
Attendees	Kathleen Ellis, Commissioner, Cattaraugus County DPW		
	Michael Prinino, Deputy Commissioner, Cattaraugus County DPW		
	Kimberly Merrill, Secretary to the Commissioner, Cattaraugus County DPW		
	Naomi Gennings, NIMS Coordinator, Cattaraugus County OES		
	Chris Holewinski, GIS Coordinator, Cattaraugus County Real Property		
	Thomas Ruper, Safety Engineer, Cattaraugus County Risk Management (virtual)		
	Chris McPherson, Supervisor, Town of Allegany		
	Tony Papasergi, Highway Superintendent, Town of Allegany (virtual)		
	John Helgager, Code Enforcement, Villages of Allegany, Franklinville, and Little Valley		
	Michael Fox, Highway Superintendent, Town of Carrollton		
	Anthony Nagel, Mayor, Village of Cattaraugus		
	Jonathon Wolfe, Public Works Superintendent, Village of Cattaraugus		
	Tina Hyde, Supervisor, Town of Coldspring		
	Kirk Hayes, Highway Superintendent, Town of Coldspring		
	Aaron Huber, Supervisor, Town of Dayton (virtual)		
	Matthew McAndrew, Supervisor, Town of Ellicottville (virtual)		
	Kelly Fredrickson, Code Enforcement, Town of Ellicottville (virtual)		
	Gregory Keyser, Planner, Town of Ellicottville (virtual)		
	Mark Chudy, Public Works Superintendent, Village of Ellicottville (virtual)		
	Pam Tilton, Supervisor, Town of Farmersville		
	Heather Stevens, Councilwoman, Town of Franklinville (virtual)		
	Donna Vickman, Representative, Town of Farmersville		
	Dan Brown, Supervisor, Town of Great Valley (virtual)		
	Rebecca Kruszynski, Councilwoman, Town of Great Valley (virtual)		
	Fred Filock, Supervisor, Town of Leon		
	Megan Morganstern, Clerk, Town of Little Valley (virtual)		
	Susan Koch, Clerk Emeritus, Town of Little Valley (virtual)		
	Jim Bowen, Mayor, Village of Little Valley (virtual)		
	Tim Byroads, Highway Superintendent, Town of Machias		
	Carl Calarco, Supervisor, Town of Mansfield (virtual)		
	Patrick Murphy, Supervisor, Town of New Albion (virtual)		
	Pat Zink, Highway Superintendent, Town of Olean (virtual)		
	Robert Barber, Highway Superintendent, Town of Otto (virtual)		



MEETING NOTES

Dan Stang, Highway Superintendent, Town of Perrysburg
Dan Ackley, Highway Superintendent, Town of Persia
Anthony Evans, Mayor, Village of Portville
Cody Uhl, Highway Superintendent, Town of Randolph
Robert Killock, Mayor, Village of South Dayton (virtual)
Steve Pollock, Public Works Superintendent, Village of South Dayton (virtual)
Heather Lamberson, Supervisor, Town of South Valley (virtual)
Mary Ruth, Clerk, Town of South Valley (virtual)
Marcia Lexer, Supervisor, Town of Yorkshire
Christopher Lexer, Highway Superintendent, Town of Yorkshire
Sharon Huff, Superintendent, Catt-Little Valley Central School District (virtual)
Kale Luce, School Resource Officer, Randolph Central School
Tom Sturdevant, Fire Chief, Salamanca Fire District (virtual)
Roland Paperman, DHSES Representative, New York State Division of Homeland Security and Emergency Services (virtual)
Tony Subbio, Project Manager, Tetra Tech

Discussion Points

This section summarizes each discussion point addressed during the Steering Committee Kickoff Meeting.

Introductions

Ms. Merrill welcomed attendees to the meeting. Attendees introduced themselves. Most attendees were part of the 2019-2020 update of the Cattaraugus County HMP.

Overview of Hazard Mitigation

Mr. Subbio provided an orientation to hazard mitigation. He described the requirements of the Disaster Mitigation Act of 2000 (DMA 2000) as they relate to development of the Cattaraugus County HMP. He also reviewed the NYS DHSES requirements for the HMP.

Project Scope Review

Mr. Subbio reviewed the project scope and tasks of the HMP update.

Task 1: Organize the Planning Effort

Mr. Subbio described the roles of the Core Planning Group (CPG) and the Steering Committee. He summarized the change since the last HMP planning effort that school districts, authorities, and other districts will be treated as their own jurisdictions this time. Ms. Merrill had sent Letters of Intent to Participate (LOIs) to jurisdiction officials; she will resend the letters to jurisdictions. Mr. Subbio described the methods of outreach that will be used in the HMP update. He reported that the project website, www.cattcohmp.com, is live, and stakeholder surveys have been developed.



MEETING NOTES

Task 2: Hazard Identification and Risk Assessment

Mr. Subbio reviewed the list of hazards of concern, shown in the following list:

- Dam failure
- Flood
- Landslide
- Pandemic
- Severe storm
- Severe winter storm
- Utility failure
- Wildfire

Task 3: Vulnerability Assessment

Mr. Subbio described the analysis that will be conducted for each hazard of concern. For the flood hazard, Tetra Tech will model losses from the 1 percent annual chance event. For the severe storm hazard, Tetra Tech will model losses from the 500-year mean return period wind event. Tetra Tech will conduct a quantitative exposure analysis of the dam failure, landslide, and wildfire hazards.

Following the completion of the risk assessment, there will be a Steering Committee meeting to review the results with the committee and general public.

Task 4: Capability Assessment and Resource Integration

Mr. Subbio described the capability assessment. Tetra Tech's planners will review plans, regulations, and other documents. Evaluating jurisdictions' ability to adapt to future hazard conditions (i.e., adaptive capacity) will be part of the assessment as well. The HMP will document how different plans and programs are integrated to reduce long-term vulnerability.

Task 5: Mitigation Strategy and Actions and Plan Integration

The CPG and Tetra Tech will develop the goals and objectives and then review them with the Steering Committee. Tetra Tech and the County will facilitate a Mitigation Strategy Workshop. During the workshop, officials will work to further develop their jurisdictions' mitigation actions for inclusion in the HMP.

Each jurisdiction will have its own annex in the HMP. Tetra Tech will assign a planner to each jurisdiction to guide local officials through development of the annexes. Mr. Subbio introduced the information gathering worksheet that each jurisdiction will be asked to complete to capture information for the annex updates.

Task 6: Implementation and Plan Maintenance

The Plan Maintenance section will define procedures for maintaining the HMP over the next five years. Tetra Tech will load each jurisdiction's mitigation actions into the BAToolSM software tool to facilitate the annual review process.

Task 7: Draft Plan

Throughout the planning process, Tetra Tech will develop the HMP document. The main body will profile the county, explain the planning process, include the risk assessment and mitigation strategy, and discuss maintenance of the plan. Each jurisdiction will have its own annex in the HMP, which will provide information specific to that jurisdiction.

The draft plan will be shared with the Steering Committee for review and comment throughout the planning process. After making any required changes, Tetra Tech will post the HMP for public review. The public review period will be advertised and will last for 30 days. Tetra Tech will then conduct a public meeting with the Steering Committee to gather feedback on the draft plan and make any required changes.



MEETING NOTES

Tetra Tech will submit the draft for the State’s formal review. NYS DHSES will review the draft. If changes are required, Tetra Tech will make the changes and resubmit the document to the State. After the State is satisfied with the draft, the State will forward it to Federal Emergency Management Agency (FEMA) Region II for review.

Task 8: Adoption

Once NYS DHSES determines that the HMP meets state and federal requirements, NYS DHSES expects that FEMA Region 2 will not identify any required revisions, so the HMP will be ready for adoption by the jurisdictions. The County will work with the jurisdictions to pass adoption resolutions while the HMP is being reviewed by FEMA.

When FEMA is satisfied with the HMP, FEMA will grant the HMP “approvable pending adoption” status to indicate that it meets all requirements and will approve the HMP for all jurisdictions that have adopted the plan.

Project Schedule Review

Mr. Subbio reviewed the project schedule with the Steering Committee. He stated that the draft plan will be completed in August 2024 to allow for FEMA review, adoption, and formal approval by February 2025. Interim milestones of the planning process include the following:

- The risk assessment will be complete by June 2024.
- The Mitigation Strategy Workshop will be conducted in late July 2024.

Next Steps

Mr. Subbio reviewed the following next steps in the HMP update process with attendees:

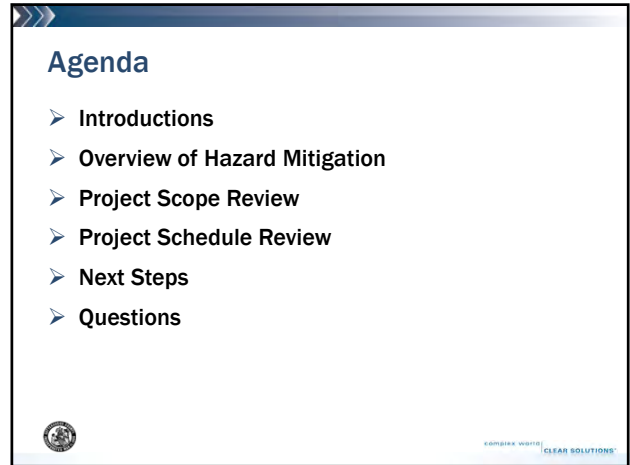
- The information-gathering worksheet will be sent to jurisdictional officials once Tetra Tech receives contact information for each jurisdiction.
- Jurisdictional officials will gather and provide existing plans and ordinances to Tetra Tech’s planners.
- Tetra Tech will complete the risk assessment.

With no further questions, Mr. Subbio thanked attendees for their time and participation.

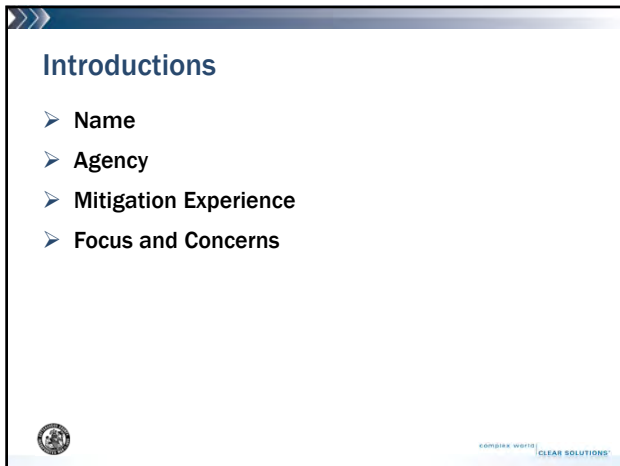
The meeting adjourned at 6:35 p.m.



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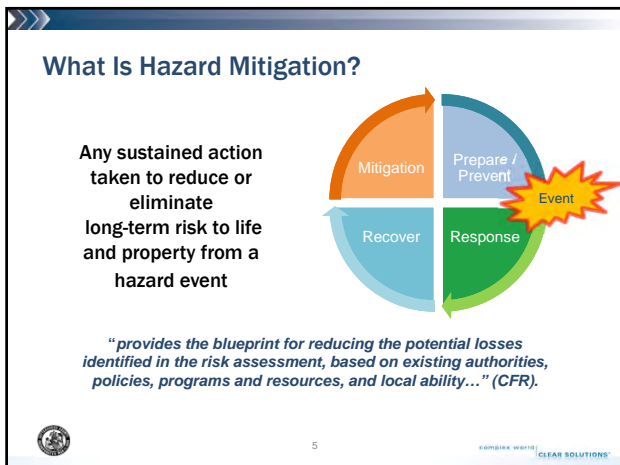
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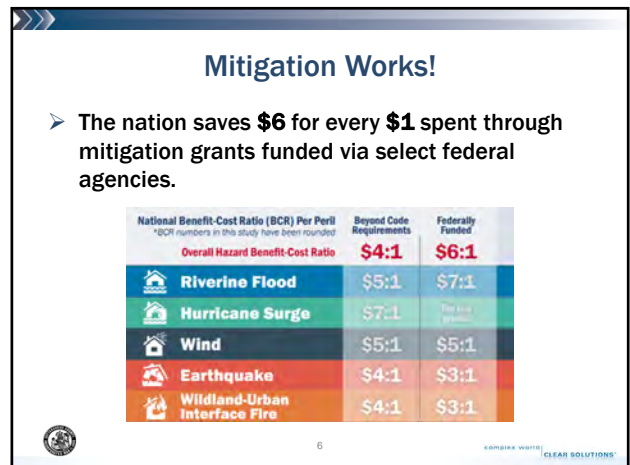
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4





5



6

Federal Requirements



- **Disaster Mitigation Act of 2000**
 - Risk assessment
 - Public outreach and participation
 - Process for update
 - Formal state and FEMA review
 - Documentation of acceptance by the community

7

New York State Requirements

- Assess critical facilities
- Include jurisdictional annexes
- Develop mitigation actions
- Post draft plan online

8





Project Scope Review



9

Project Scope Review

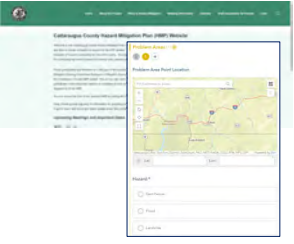


- **Task 1 – Organize the Planning Effort**
 - Core Planning Group – strategic oversight
 - Steering Committee
 - Jurisdictional officials
 - Stakeholders
 - General public

10

Project Scope Review

- **Task 1 – Organize the Planning Effort (continued)**
 - Outreach Strategy
 - Letter of Intent to Participate
 - Project website
 - Problem areas survey
 - Information gathering surveys
 - Individuals
 - Neighboring Counties
 - Stakeholders







11

Project Scope Review (Continued)

- **Task 2: Hazard Identification and Risk Assessment**
 - Hazards of Concern

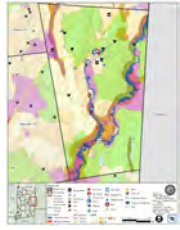


▪ Dam failure	▪ Severe storm
▪ Flood	▪ Severe winter storm
▪ Landslide	▪ Utility failure
▪ Pandemic	▪ Wildfire

12

Project Scope Review (Continued)


- **Task 3: Vulnerability Assessment**
 - HAZUS-MH Analysis
 - Flood: 1-percent annual chance floodplain
 - Wind: 500-year MRP events
 - Quantitative Analysis for Geographic Hazards
 - Review Risk Assessment with Steering Committee (open to the public)


13

Project Scope Review (Continued)

- **Task 4: Capability Assessment and Resource Integration**
 - Review plans, regulations, and other documents
 - Assess adaptive capacity
 - Document integration of plans and programs
 - Assess local floodplain management capabilities





14



14

Project Scope Review (Continued)




- **Task 5: Mitigation Strategy and Actions and Plan Integration**
 - Develop goals and objectives
 - Conduct Mitigation Strategy Workshop
 - Develop annexes

15

Project Scope Review (Continued)



- **Task 6: Implementation and Plan Maintenance**
- **Task 7: Draft Plan**
 - Develop the document
 - Review throughout the planning process
 - Public review
 - Draft Plan Review Meeting (open to the public)

16

Project Scope Review (Continued)




- **Task 7: Draft Plan (continued)**
 - Submittal to the New York State Division of Homeland Security and Emergency Services (NYS DHSES)
 - Update as Necessary
 - FEMA Review

17

Project Scope Review (Continued)

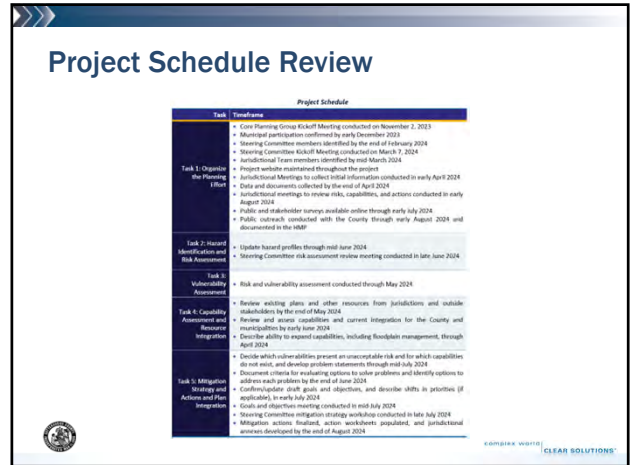
- **Task 8: Plan Adoption**
 - Adoption
 - Approval
 - Final Deliverables

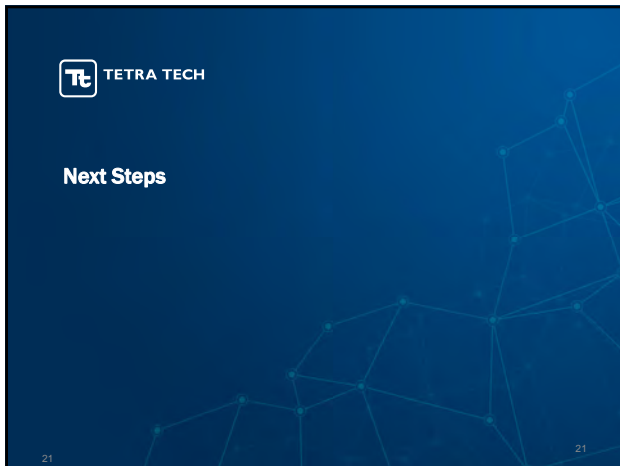
18



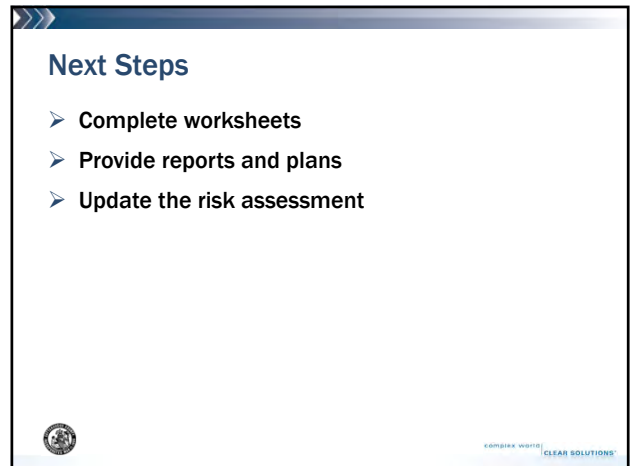
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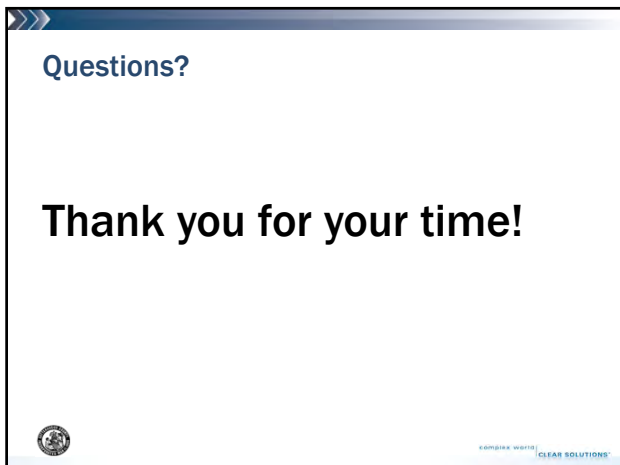
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24



AGENDA

CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE Steering Committee Kickoff Meeting

Thursday, March 7, 2024 | 5:30 – 7:30 p.m.

-
1. **Introductions**

 2. **Overview of Hazard Mitigation**

 3. **Project Scope Review**
 - a. Task 1: Organize the Planning Effort
 - b. Task 2: Hazard Identification and Risk Assessment
 - c. Task 3: Vulnerability Assessment
 - d. Task 4: Capability Assessment and Resource Integration
 - e. Task 5: Mitigation Strategy and Actions and Plan Integration
 - f. Task 6: Implementation and Plan Maintenance
 - g. Task 7: Draft Plan
 - h. Task 8: Plan Adoption

 4. **Project Schedule Review**

 5. **Next Steps**
 - a. Complete worksheets
 - b. Provide reports and plans
 - c. Update the risk assessment

 6. **Questions**



Project Schedule

Task	Timeframe
Task 1: Organize the Planning Effort	<ul style="list-style-type: none"> • Core Planning Group Kickoff Meeting conducted on November 2, 2023 • Municipal participation confirmed by early December 2023 • Steering Committee members identified by the end of February 2024 • Steering Committee Kickoff Meeting conducted on March 7, 2024 • Jurisdictional Team members identified by mid-March 2024 • Project website maintained throughout the project • Jurisdictional Meetings to collect initial information conducted in early April 2024 • Data and documents collected by the end of April 2024 • Jurisdictional meetings to review risks, capabilities, and actions conducted in early August 2024 • Public and stakeholder surveys available online through early July 2024 • Public outreach conducted with the County through early August 2024 and documented in the HMP
Task 2: Hazard Identification and Risk Assessment	<ul style="list-style-type: none"> • Update hazard profiles through mid-June 2024 • Steering Committee risk assessment review meeting conducted in late June 2024
Task 3: Vulnerability Assessment	<ul style="list-style-type: none"> • Risk and vulnerability assessment conducted through May 2024
Task 4: Capability Assessment and Resource Integration	<ul style="list-style-type: none"> • Review existing plans and other resources from jurisdictions and outside stakeholders by the end of May 2024 • Review and assess capabilities and current integration for the County and municipalities by early June 2024 • Describe ability to expand capabilities, including floodplain management, through April 2024
Task 5: Mitigation Strategy and Actions and Plan Integration	<ul style="list-style-type: none"> • Decide which vulnerabilities present an unacceptable risk and for which capabilities do not exist, and develop problem statements through mid-July 2024 • Document criteria for evaluating options to solve problems and identify options to address each problem by the end of June 2024 • Confirm/update draft goals and objectives, and describe shifts in priorities (if applicable), in early July 2024 • Goals and objectives meeting conducted in mid-July 2024 • Steering Committee mitigation strategy workshop conducted in late July 2024 • Mitigation actions finalized, action worksheets populated, and jurisdictional annexes developed by the end of August 2024

Task	Timeframe
Task 6: Implementation and Plan Maintenance	<ul style="list-style-type: none"> • Document funding sources by the end of August 2024 • Plan maintenance procedures developed by the beginning of April 2024 • Develop the BAToolSM Program with identified mitigation actions by December 2024 • Launch the BAToolSM Program and hold training with Steering Committee and Jurisdictional Team by March 2025
Task 7: Draft Plan	<ul style="list-style-type: none"> • Draft developed and posted to the project and County websites by the end of August 2024 • Public comment period running from the end of August to the end of September 2024 • Public Draft Plan Review Meeting conducted at the end of September 2024 • Comments documented and draft finalized by the beginning of October 2024 • Draft submitted to NYS DHSES in early October 2024 • NYS DHSES Review Period from early October to mid-November 2024 • Draft HMP updated and submitted to FEMA Region II in early December 2024 • FEMA Review Period from early December 2024 to the middle of January 2025 • APA granted in the beginning of February 2025
Task 8: Plan Adoption	<ul style="list-style-type: none"> • Resolutions adopting the HMP passed in December 2024 – February 2025 • Final deliverable to County by the end of February 2025
Project Management	<ul style="list-style-type: none"> • Project Kickoff Meeting conducted on August 17, 2023 • Project Closeout Meeting conducted in March 2025



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee Kickoff Meeting

SIGN-IN

Thursday, March 7, 2024 | 5:30 – 7:30 p.m.

NAME/TITLE	AGENCY/ORGANIZATION	E-MAIL ADDRESS	TELEPHONE
Kirk Hayes Hwy Supt/indent	Town of Coldspring	Coldspring Hwy@hotmail	716 499-0030
John Helgager CEO	Village of Allegany <small>Village of Little Valley Village of Franklinville</small>	jhelgager@allegany.org	(716)790-0073
Chris Nolewista	Real Property	cdnolewista@comcast.net	716-938-2322
Cody Uhl Highway Superintendent	Town of Randolph	Highway@randolphny.net	716-485-6037
Chris McPherson Town Supervisor	Town of Allegany	supervisor@townofallegany.com	716-790-1444
Dan Stang Highway Super	Town of Perryburg	townofperryburg@gmail.com	716-359-5517
Kathy Edele	CC DPW	kzedele@catco.org	716-938-2460
Pamela Jones Town Supervisor	Town of Farmersville	pamela.jones@townoffarmersville.com	716-498-4150
Christopher Loner	Town of Yorkshire	yorkshirecode@yahoo.com	716-560-8964
Tony Subbio/PM	Tetra Tech	tony.subbio@tetratech.com	717-839-5654





CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee Kickoff Meeting

SIGN-IN

Thursday, March 7, 2024 | 5:30 – 7:30 p.m.

NAME/TITLE	AGENCY/ORGANIZATION	E-MAIL ADDRESS	TELEPHONE
Kimberly Merrill Secretary to Comm/DPW	CattCo DPW	kamerril@cattco.org	(716) 9382480
Mike Prininio Deputy Commissioner	CattCo DPW	mjprininio@cattco.org	716 938 2483
Noomi Giennig NIMS coordinator	catt co OES	Nagenings@cattco.org	716-512-8665
Kate Lutz School Resource Officer	Randolph Central School	klutz3@randolphcsd.org	716-358-7054
MICHAEL P. FOX HIGHWAY SUPT DPW ACKLEY	T.O. CARROLLTON	mikepfox@hotmail.com	716 378 3302
Highway Supt. FRED F. LOCK TOWN SUPERVISOR	Town of Persia	persiahighway@roadrunner.com	716 353 6304
TOWN SUPERVISOR	TOWN OF LEON	FRADO@NETSYN.NET	716 548 5087
Anthony Nagel Mayor	Town of Cold Spring	townofcoldspring supervisor@outlook.com	716-969-3567
Anthony Nagel Mayor	Village of Cattaraugus	m2405@villagecattaraugus.com	716-946-9618
Janet Ann Wolfe	Village of Cattaraugus	cattdpw@gmail.com	716 257 0151





CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee Kickoff Meeting

SIGN-IN

Thursday, March 7, 2024 | 5:30 – 7:30 p.m.

NAME/TITLE	AGENCY/ORGANIZATION	E-MAIL ADDRESS	TELEPHONE
Anthony Evans	Village of Portville	portvillemayor@gmail.com	(716) 342-7366
Donna Vickinaw	Farmersville	donnvi@aon.com	716-498-5209
Marcia Lexer	Yorkshire Supv	supervisor@yorkshireny.org	
Tim Byroads	Machias highwaysup	machias Hwy 2015@Yahoo	716-353-8911



Hazard Mitigation Meeting Kickoff

(716) 3 * * * 60

Heather Zamberson

? (716) 4 * * * 21

Pat Yunk

? (716) 5 * * * 47

→ Baker? *



* Dan Braun

Gregory Keizer

Heather Stevens

Jim Bowen

Kelly Fredrickson

Mark Chudz

Mary Ruth

Megan Morgenstein

Patrick Murphy

Robert Barse

Robert Killen

Roland Paperman

Sharon Huff

South Valley (Heather)

Steve Polien

Thomas Rupp

Tom Sturdevant

Tony Papasergo

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?

Kimberly A. Merrill

From: Daniel Brown <danbrown5346@gmail.com>
Sent: Thursday, March 7, 2024 5:50 PM
To: Kimberly A. Merrill
Subject: (EXTERNAL) Re: HMP Update | Steering Committee Kickoff Meeting (Virtual Option)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Kim, attending in great valley are
Matt McCandrew Ellicottville
Aaron Huber from Dayton
CARL Clarco Mansfield
Becky Krysinski great valley board.
Thank you

On Tue, Mar 5, 2024, 11:41 AM Kimberly A. Merrill <kamerrill@cattco.org> wrote:

This meeting invitation provides the sign-in details for virtual attendance at the Cattaraugus County Hazard Mitigation Plan Update Steering Committee Kickoff Meeting, scheduled to take place Thursday, March 7 at 5:30 pm.

If there are any questions, please contact Kimberly Merrill at kamerrill@cattco.org or 716.938.2480. Thank you!

-- Do not delete or change any of the following text. --

**When
it's
time,
join
your
Webex
meeting
here.**



More ways to join:

Join from the meeting link

<https://cattcounty.webex.com/cattcounty/j.php?MTID=m381c9249b5b82dac548ebd65fd429f96>



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Planning Partnership Risk Assessment Meeting – AGENDA
MEETING DATE/TIME: September 17, 9:00AM – 10:00AM



In-Person Meeting
Little Valley Fire Hall (101 3rd St, Little Valley, NY 14755)

- 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**

Cattaraugus County Project Contacts

Kimberly Merrill, Secretary to the Commissioner
Cattaraugus County Department of Public Works
(716) 938-9121 ext. 2480 | kamerrill@cattco.org

Naomi Gennings, NIMS Coordinator
Cattaraugus County Office of Emergency Services
(716) 938-2221 ext. 2480 | nagennings@cattco.org

Tetra Tech Project Contacts

Jessica Stokes, MSEM, NJCEM; Project Manager
Tetra Tech, Inc.
(973) 630-8017 | jessica.stokes@tetrattech.com

Emily Vassallo, Lead Planner
Tetra Tech, Inc.
717)-839-5655 | emily.vassallo@tetrattech.com



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Workshop – AGENDA
MEETING DATE/TIME: September 17, 10:15AM – 11:45AM



In-Person Meeting
Little Valley Fire Hall (101 3rd St, Little Valley, NY 14755)

- 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

Cattaraugus County Project Contacts

Kimberly Merrill, Secretary to the Commissioner
Cattaraugus County Department of Public Works
(716) 938-9121 ext. 2480 | kamerrill@cattco.org

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Tetra Tech, Inc.
717)-839-5655 | emily.vassallo@tetrattech.com

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



Purpose of Meeting:	Risk Assessment and Mitigation Strategy Meeting	
Location of Meeting:	Teleconference	
Date of Meeting:	September 17, 2024 @ 9:00 A.M.	
Attendees:	<ul style="list-style-type: none"> • Cattaraugus County Public Works <ul style="list-style-type: none"> ○ Kim Merrill, Secretary to the Commissioner ○ Kathy Ellis, Commissioner • Cattaraugus County Health Department <ul style="list-style-type: none"> ○ James Lawrence, Preparedness Director • Cattaraugus County Emergency Services <ul style="list-style-type: none"> ○ Naomi Gennings, NIMS Coordinator • Cattaraugus County Sheriff Department <ul style="list-style-type: none"> ○ Kristy Sicignano, Deputy Sheriff • Town of Coldspring <ul style="list-style-type: none"> ○ Tina Hyde, Supervisor ○ Randall Brooks, Code Enforcement Officer ○ Kirk Hayes, Highway Supervisor • Town of Ellicottville <ul style="list-style-type: none"> ○ Gregory Keyser, Engineer • Village of Ellicottville <ul style="list-style-type: none"> ○ Gregory Keyser, Engineer • Village of Little Valley <ul style="list-style-type: none"> ○ Jim Bowen, Mayor • Town of Humphrey <ul style="list-style-type: none"> ○ Margo Pearl, Supervisor 	<ul style="list-style-type: none"> • Town of Leon <ul style="list-style-type: none"> ○ Fred Filock, Supervisor • Town of Machias <ul style="list-style-type: none"> ○ Tim Byroads, Highway Superintendent • City of Olean <ul style="list-style-type: none"> ○ Eric Maurouard, Fire Chief • Town of Randolph <ul style="list-style-type: none"> ○ Cody Uhl, Highway Superintendent • Town of Perrysburg <ul style="list-style-type: none"> ○ David Hekman, Code Enforcement Officer • Town of South Valley <ul style="list-style-type: none"> ○ Kim Ramsdell, Councilperson • Allegany-Limestone CSD <ul style="list-style-type: none"> ○ Paige Kinnaird, Director of Instruction • Randolph CSD <ul style="list-style-type: none"> ○ Charles Shevlin, School Business Executive • NYS DHSES <ul style="list-style-type: none"> ○ Kevin Clapp, Planning Manager • Tetra Tech <ul style="list-style-type: none"> ○ Jessica Stokes, Project Manager ○ Emily Vassallo, Lead Planner
Agenda Summary:	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	Introductions	-
2	Project Status <ul style="list-style-type: none"> • Review jurisdictions with outstanding worksheets • Public Outreach and Engagement <ul style="list-style-type: none"> ○ Post links on social media and department/agency websites ○ Stakeholder and neighboring municipalities surveys have been distributed ○ Make efforts to reach out to: <ul style="list-style-type: none"> ▪ General Public ▪ Stakeholders ▪ Neighbors 	Planning Partnership <ul style="list-style-type: none"> • Complete and submit outstanding worksheets • Post links on social media and department/agency websites • Make efforts to reach out to general public, stakeholders, neighbors, and socially vulnerable populations



3	<p>Risk Assessment Overview</p> <ul style="list-style-type: none"> • Risk is defined as a function of : <ul style="list-style-type: none"> ○ Hazard <ul style="list-style-type: none"> ▪ Source of potential danger or adverse condition ○ Exposure <ul style="list-style-type: none"> ▪ Manmade or natural features that are exposed to the hazard ○ Vulnerability <ul style="list-style-type: none"> ▪ Damage susceptibility of the exposed features ○ Adaptive Capacity (or capability) <ul style="list-style-type: none"> ▪ Plans/policies ▪ Response/recovery ○ Financial resources 	-
4	<p>Risk Assessment Results</p> <ul style="list-style-type: none"> • Provided an overview of the results from the risk assessment for each hazard. Results were a combination of qualitative and quantitative data. 	-
5	<p>Hazard Rankings</p> <ul style="list-style-type: none"> • The calculated probability of a hazard occurring based on historical data • <i>Impacts to people, property, and the economy</i> based on GIS data and analysis of exposure. • The degree to which <i>climate change</i> will affect future occurrences based on best available data. • The degree to which existing <i>capabilities</i> (the ability of your community to respond to the hazard based on ordinances, mitigation strategies and procedures, and readiness) decrease overall risk. • Ranking: <ul style="list-style-type: none"> ○ High: Severe Winter Weather, Severe Weather ○ Medium: Flood, Utility Failure, Pandemic, Landslide ○ Low: Wildfire, Dam and Levee Failure 	-
6	<p>Identifying and Developing Mitigation Strategies</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ○ 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. • What is a Mitigation Strategy? <ul style="list-style-type: none"> ○ A group of projects or actions to reduce the impacts of the hazards of concern on your community <ul style="list-style-type: none"> ▪ Plans and Regulations ▪ Structure and Infrastructure Studies and Projects ▪ Natural Systems Protection Studies and Projects ▪ Education and Awareness Programs • Terms to describe the <i>Mitigation Strategy</i> include: <ul style="list-style-type: none"> ○ Mitigation Action Plan or Action Plan 	-



	<ul style="list-style-type: none"> ○ Mitigation Projects or Initiatives or Actions • 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 the results of the risk and capability assessments (<i>this shouldn't be a wish list!</i>) 	
7	<p>Developing New Potential Actions</p> <ul style="list-style-type: none"> • Quality not quantity <ol style="list-style-type: none"> 1. Each action needs detailed information on the why, who, what, and when of the action. • Previous Projects <ol style="list-style-type: none"> 1. If a project is not finished and still a priority, include in 2025 HMP 2. Remove general projects or make more specific 3. 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) • Four types of Mitigation Actions <ol style="list-style-type: none"> 1. Plans and regulations 2. Structure and Infrastructure 3. Natural systems protection 4. Education and awareness 	
8	<p>2025 Proposed Goals</p> <ol style="list-style-type: none"> 1. Protect life, property, the environment, and critical infrastructure from hazard impacts. 2. Coordinate hazard mitigation programs and other planning efforts that affect the County. 3. Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts. 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. 	
9	<p>Workshop</p> <p><i>Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)</i></p> <ul style="list-style-type: none"> • 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). • Opportunities - actions or projects to mitigate issues or improve resilience. <p><i>Review Preliminary Rankings</i></p>	<p>Planning Partnership</p> <ul style="list-style-type: none"> • Complete outstanding worksheets and submit to Emily Vassallo.



	<ul style="list-style-type: none"> 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. <p><i>Review Previous Actions</i></p> <ul style="list-style-type: none"> 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"> 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. 	
10	<p>Next Steps</p> <ul style="list-style-type: none"> Share information about the HMP Update via social media, community groups, and networks. Work with Tetra Tech planners to complete annexes and finalize actions. 	-
11	<p>Questions/Discussion</p> <ul style="list-style-type: none"> Are the dams both public and private? <i>Jessica Stokes: Yes</i> What data is used for the flood maps? There has been a significant change in flooding areas within the municipality. <i>Jessica Stokes: FEMA's current, most restrictive FIRM data has been utilized. The FIRM maps are currently being updated and are not available for use, so unfortunately this data is not available for this plan update.</i> Are there any additional resources available that we can look at to identify financial resources? <i>Jessica Stokes: Yes! I will attach them in the meeting follow-up email, along with this presentation and meeting notes.</i> 	-



Cattaraugus County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: September 17, 2024
Time: 9:00 AM – 11:45 AM



Name	Jurisdiction/Title	Email	Phone Number
Jessica Stokes	Tetra Tech, PM	jessica.stokes@tetratech.com	(973) 630-8017
Emily Vassallo	Tetra Tech, Lead Planner	emily.vassallo@tetratech.com	
Kimberly Meruli	Cattaraugus County DPW	kameruli@cattco.org	716 938 2480
Kevin Clapp	NYS D H S E S	Kevin.Clapp@dhses.ny.gov	518 493 2866
Kristy Sicignano	Deputy, CCSO	ksicignano@cattco.org	631-681-5363
Charles Shevlin	Randolph CSD	cshvlin@randolphcsd.org	716 358 7606
Tina Hyde	Supervisor - Cold Spring	townofcoldspring-supervisors@outlook.com	716 969 3567
RANDALL BEARDS	COLDSPRING CEO	RJBEEKS02@HOTMAIL.COM	716 665 8924
Rink Hayes	11 Hwy sup.	coldspringhwy@hotmail.com	716.449.0030
Greg Keyser	T/V ELKOTVILLE	greg.keyser@elkottville.net	716 801-3016
Jim Bowen	Village of Little Valley / Mayor	Mayor@villageoflittlevalley.org	(716) 244-1031
Margo Reed	T Humphrey	humphreysuper150@gmail.com	716 244-8974
James Lawrence	County Health Dept.	Jelawrence@csny.org	716 469 4408
FRED Flock	LEDN	FRADO@NETSYNC.NET	716 548 5087
Paige Finnaird	Allegheny-Limestone C.S.D.	pfinnaird@alcsny.org	716-375-6000
Tim Budd	Town of Machias	MachiasHwy2015@yahoo.com	716-353-8911



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Planning Partnership Risk Assessment Meeting – AGENDA
MEETING DATE/TIME: September 17, 5:00PM – 6:00PM



In-Person Meeting
Little Valley Fire Hall (101 3rd St, Little Valley, NY 14755)

- 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**

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Emily Vassallo, Lead Planner
Tetra Tech, Inc.
717)-839-5655 | emily.vassallo@tetrattech.com

In-Person Meeting



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Workshop – AGENDA
MEETING DATE/TIME: September 17, 6:15PM – 7:45PM



Little Valley Fire Hall (101 3rd St, Little Valley, NY 14755)

- 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

Cattaraugus County Project Contacts

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



Purpose of Meeting:	Risk Assessment and Mitigation Strategy Meeting	
Location of Meeting:	Teleconference	
Date of Meeting:	September 17, 2024 @ 5:00 P.M.	
Attendees:	<ul style="list-style-type: none"> • Cattaraugus County Public Works <ul style="list-style-type: none"> ○ Kim Merrill, Secretary to the Commissioner ○ Kathy Ellis, Commissioner • Cattaraugus County Emergency Services <ul style="list-style-type: none"> ○ Naomi Gennings, NIMS Coordinator • Village of Cattaraugus <ul style="list-style-type: none"> ○ Jonathan Wolfe, Public Works Superintendent • Village of Gowanda <ul style="list-style-type: none"> ○ Carol Sheibley, Deputy Mayor • Village of Portville <ul style="list-style-type: none"> ○ Anthony Evan, Mayor 	<ul style="list-style-type: none"> • Village of South Dayton <ul style="list-style-type: none"> ○ Stephen Pollock, • Town of Yorkshire <ul style="list-style-type: none"> ○ Chris Lexter, Code Enforcement Officer ○ Marcia Lexter, Supervisor • USACE - Buffalo <ul style="list-style-type: none"> ○ Laura Ortiz, Project Manager • NYS DHSES <ul style="list-style-type: none"> ○ Kevin Clapp, Planning Manager • Tetra Tech <ul style="list-style-type: none"> ○ Jessica Stokes, Project Manager ○ Emily Vassallo, Lead Planner
Agenda Summary:	<p>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.</p>	
Item No.	Description	Action item(s):
1	Introductions	-
2	Project Status <ul style="list-style-type: none"> • Review jurisdictions with outstanding worksheets • Public Outreach and Engagement <ul style="list-style-type: none"> ○ Post links on social media and department/agency websites ○ Stakeholder and neighboring municipalities surveys have been distributed ○ Make efforts to reach out to: <ul style="list-style-type: none"> ▪ General Public ▪ Stakeholders ▪ Neighbors 	Planning Partnership <ul style="list-style-type: none"> • Complete and submit outstanding worksheets • Post links on social media and department/agency websites • Make efforts to reach out to general public, stakeholders, neighbors, and socially vulnerable populations
3	Risk Assessment Overview <ul style="list-style-type: none"> • Risk is defined as a function of : <ul style="list-style-type: none"> ○ Hazard <ul style="list-style-type: none"> ▪ Source of potential danger or adverse condition ○ Exposure <ul style="list-style-type: none"> ▪ Manmade or natural features that are exposed to the hazard ○ Vulnerability <ul style="list-style-type: none"> ▪ Damage susceptibility of the exposed features ○ Adaptive Capacity (or capability) <ul style="list-style-type: none"> ▪ Plans/policies ▪ Response/recovery ○ Financial resources 	-



4	<p>Risk Assessment Results</p> <ul style="list-style-type: none"> • Provided an overview of the results from the risk assessment for each hazard. Results were a combination of qualitative and quantitative data. 	-
5	<p>Hazard Rankings</p> <ul style="list-style-type: none"> • The calculated probability of a hazard occurring based on historical data • <i>Impacts to <u>people</u>, <u>property</u>, and the <u>economy</u></i> based on GIS data and analysis of exposure. • The degree to which <i><u>climate change</u></i> will affect future occurrences based on best available data. • 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. • Ranking: <ul style="list-style-type: none"> ○ High: Severe Winter Weather, Severe Weather ○ Medium: Flood, Utility Failure, Pandemic, Landslide ○ Low: Wildfire, Dam and Levee Failure 	-
6	<p>Identifying and Developing Mitigation Strategies</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> ○ 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. • What is a Mitigation Strategy? <ul style="list-style-type: none"> ○ A group of projects or actions to reduce the impacts of the hazards of concern on your community <ul style="list-style-type: none"> ▪ Plans and Regulations ▪ Structure and Infrastructure Studies and Projects ▪ Natural Systems Protection Studies and Projects ▪ Education and Awareness Programs • Terms to describe the <i><u>Mitigation Strategy</u></i> include: <ul style="list-style-type: none"> ○ Mitigation Action Plan or Action Plan ○ Mitigation Projects or Initiatives or Actions • 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 the results of the risk and capability assessments (<i>this shouldn’t be a wish list!</i>) 	-
7	<p>Developing New Potential Actions</p> <ul style="list-style-type: none"> • Quality not quantity <ol style="list-style-type: none"> 1. Each action needs detailed information on the why, who, what, and when of the action. • Previous Projects 	-



	<ol style="list-style-type: none"> 1. If a project is not finished and still a priority, include in 2025 HMP 2. Remove general projects or make more specific 3. Remove ongoing capabilities like maintenance or annual outreach <ul style="list-style-type: none"> • 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) • Four types of Mitigation Actions <ol style="list-style-type: none"> 1. Plans and regulations 2. Structure and Infrastructure 3. Natural systems protection 4. Education and awareness 	
<p>8</p>	<p>2025 Proposed Goals</p> <ol style="list-style-type: none"> 1. Protect life, property, the environment, and critical infrastructure from hazard impacts. 2. Coordinate hazard mitigation programs and other planning efforts that affect the County. 3. Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts. 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. 	
<p>9</p>	<p>Workshop</p> <p><i>Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)</i></p> <ul style="list-style-type: none"> • 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). • Opportunities - actions or projects to mitigate issues or improve resilience. <p><i>Review Preliminary Rankings</i></p> <ul style="list-style-type: none"> • 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. <p><i>Review Previous Actions</i></p> <ul style="list-style-type: none"> • 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"> ○ 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! 	<p>Planning Partnership</p> <ul style="list-style-type: none"> • Complete outstanding worksheets and submit to Emily Vassallo.



	<ul style="list-style-type: none"> ○ Actions that are COMPLETE or ONGOING will not be carried forward. 	
10	<p>Next Steps</p> <ul style="list-style-type: none"> • Share information about the HMP Update via social media, community groups, and networks. • Work with Tetra Tech planners to complete annexes and finalize actions. 	-
11	<p>Questions/Discussion</p> <ul style="list-style-type: none"> • <i>Anthony Evan:</i> Can you explain the wildfire map and what it is showing? IS it all high hazard areas? • <i>Jessica Stokes:</i> So, the map does not show a hazard area to the extent that it's labelled as 'high', 'medium', or 'low, but instead shows the locations of the WUI interface and intermix areas. These areas are where the urban or built environment meet wooded or forested areas. • <i>Anthony Evan:</i> Can you explain the point of this plan? Is it just to get funding? • <i>Kim Merrill:</i> A main point of the plan is to be eligible to FEMA mitigation funding, yes. The other part of this plan is to update the County and municipal capabilities so we can improve ourselves, altogether, and become more resilient to these hazards. 	-



Cattaraugus County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: September 17, 2024
Time: 5:30 PM – 7:45 PM



Name	Jurisdiction/Title	Email	Phone Number
Kimberly Menni	CCDPW	kamenni@cattco.ny	716-938-2460
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Emily Vassallo	Tetra Tech, Lead Planner	Emily.Vassallo@tetrattech.com	



Cattaraugus County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

**Risk Assessment Meeting and Mitigation Strategy
Workshop**

September 17, 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



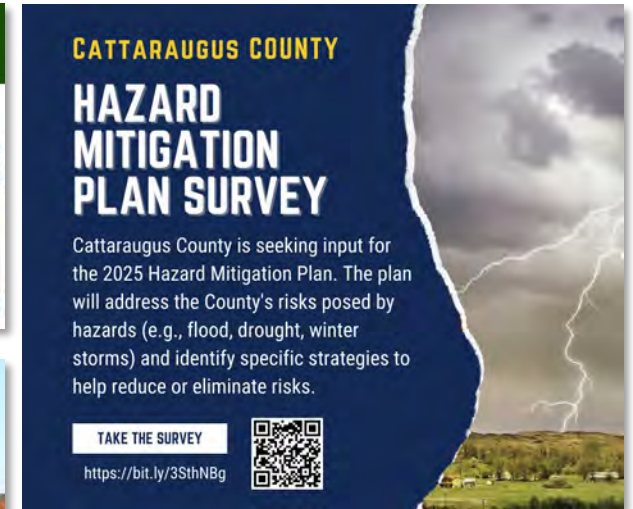
- To date, we have not received all municipal worksheets. The below jurisdictions still have outstanding worksheets to submit. Your Tetra Tech planner will be sending a summary of information needed.

Jurisdiction			
County of Cattaraugus	Village of Delevan	Hinsdale CSD	Town of Red House
Town of Allegany	Town of East Otto	Town of Humphrey	City of Salamanca
Village of Allegany	Ellicottville CSD	Town of Ischua	Salamanca City School District
Allegany-Limestone CSD	Town of Farmersville	Village of Little Valley	West Valley CSD
Town of Ashford	Franklinville CSD	Town of Lyndon	Town of Yorkshire
Town of Carrollton	Village of Franklinville	Town of Napoli	Yorkshire-Pioneer CSD
Village of Cattaraugus	Town of Freedom	Town of Perrysburg	
Town of Conewango	Gowanda CSD	Town of Persia	
Town of Dayton	Town of Hinsdale	Town of Portville	



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 and Levee Failure

Dam failures in Cattaraugus 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

40

- 12 high hazard
- 14 significant hazard
- 14 low hazard

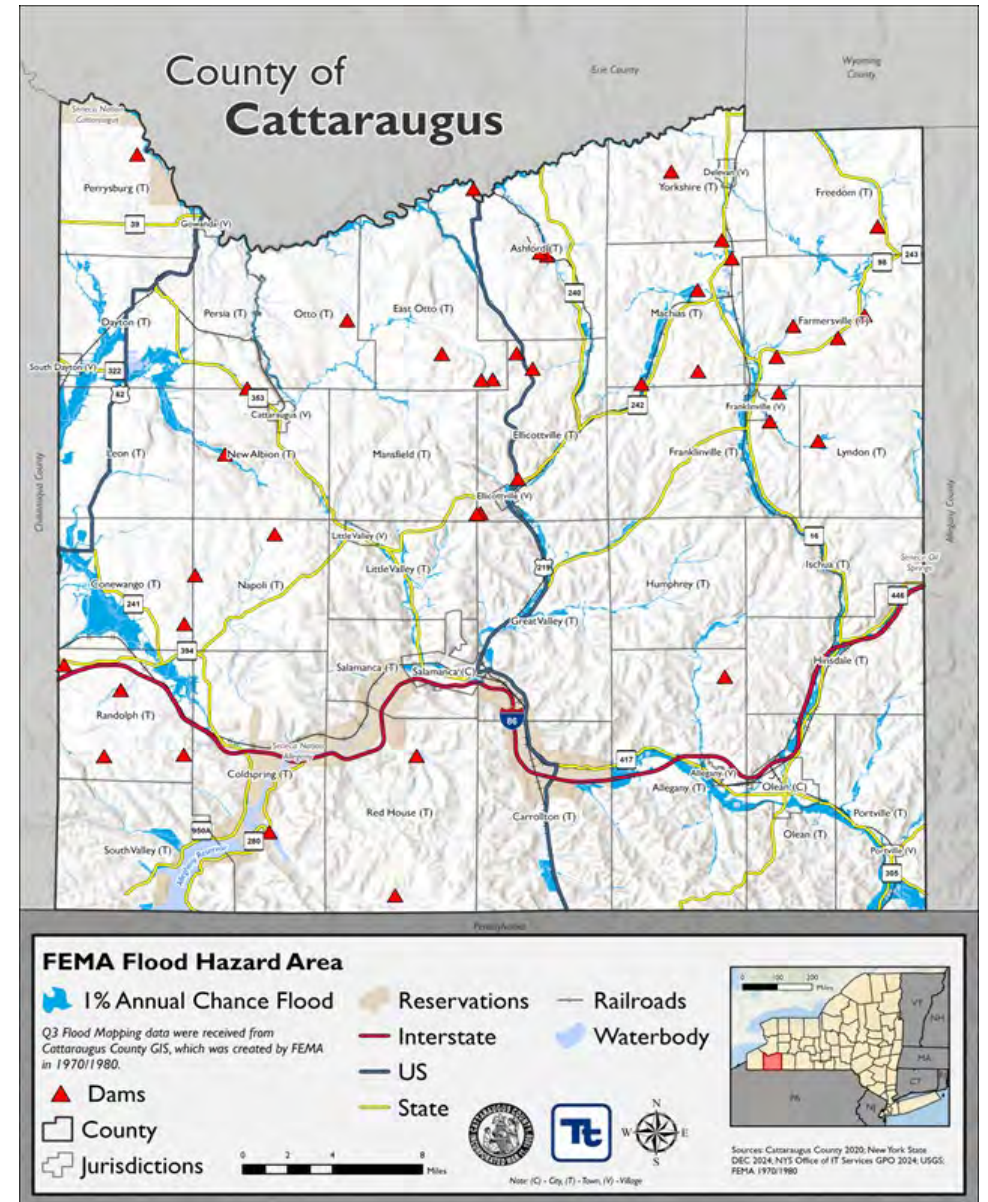
Impacts

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

Climate Change

Most studies project that New York will see increased annual precipitation, mainly as heavy rainfalls. This could stress dam walls and exceed the capacity of existing dams, leading to more frequent overtopping and flooding. However, the probable maximum flood used in dam design may still accommodate these changes.

Special Flood Hazard Area and Dams Located in Cattaraugus County



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.

Hazard Types



Riverine / Inland



Flash Flood



Ice Jam



Urban / Stormwater

Population Exposed

3,937

In 1% Annual Chance Flood Area

Land Exposed to Flood Hazard



38,163

acres

Number of Buildings Exposed

2,543

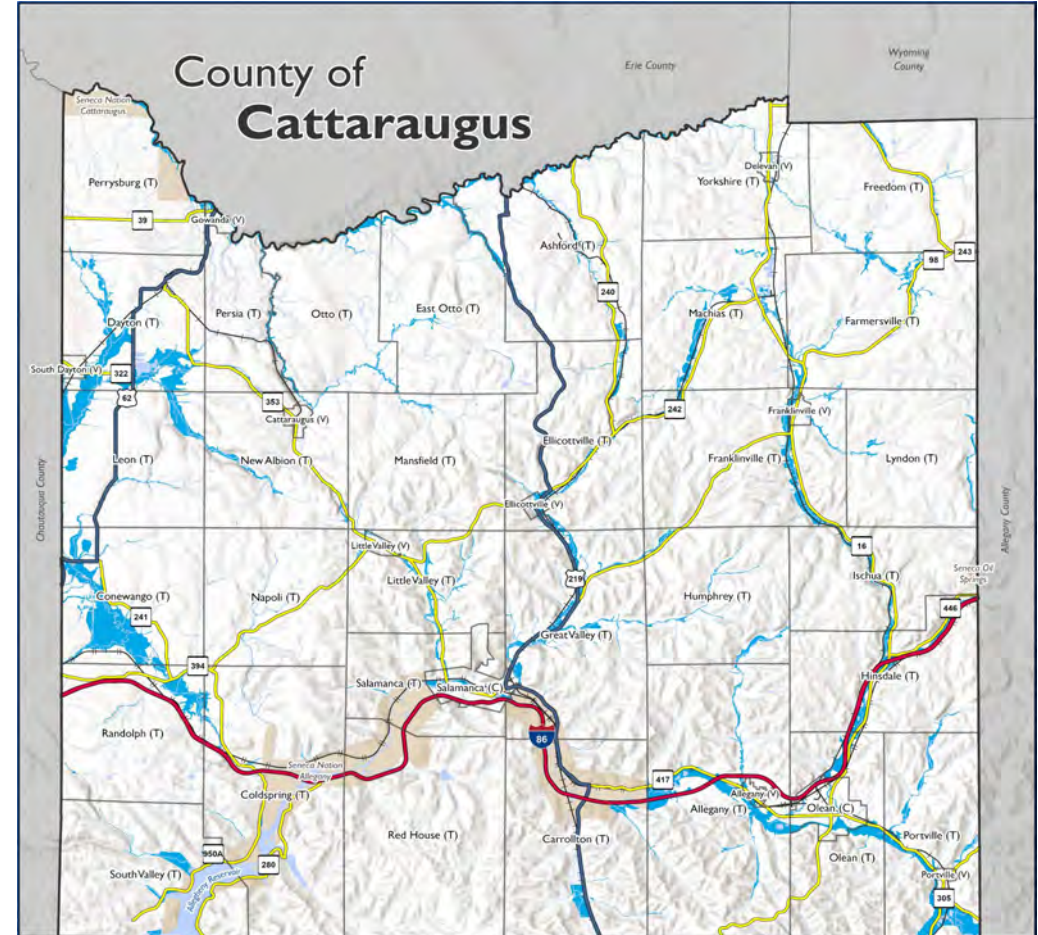
In 1% Annual Chance Flood Area

Flood Building Replacement Cost Value

\$2,360,658,117

In 1% Annual Chance Flood Area

FEMA Flood Hazard Areas in Cattaraugus County



FEMA Flood Hazard Area

- 1% Annual Chance Flood
- Interstate
- Railroads
- US
- Waterbody
- State

Q3 Flood Mapping data were received from Cattaraugus County GIS, which was created by FEMA in 1970/1980.

- County
- Jurisdictions
- Reservations



Note: (C) - City, (T) - Town, (V) - Village



Sources: Cattaraugus County 2020; New York State DEC 2024; NYS Office of IT Services GPO 2024; USGS FEMA 1970/1980

Landslide

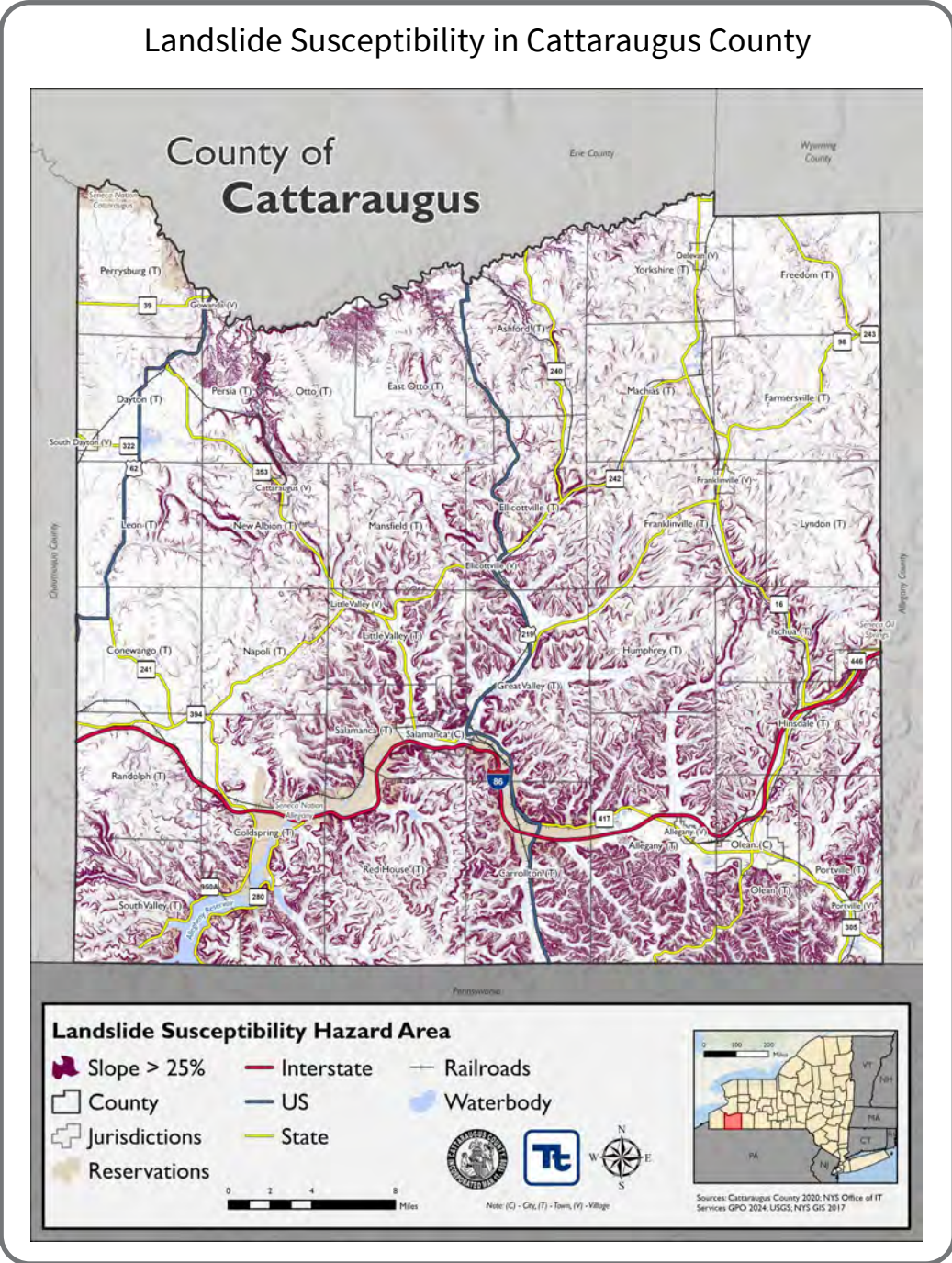
The potential for landslides exists throughout New York State, including Cattaraugus County. Generally, the highest potential for landslides is located along major rivers and lake valleys that were previously glacial lakes resulting in glacial lake deposits (glacial lake clays) and areas associated with steeper slopes.

Population Exposed
2,412
In areas with slope degrees > 25%

Climate Change Impacts
Projected increases in precipitation events may result in the oversaturation of the ground, causing it to become unstable. Conversely, increases in temperature may result in dried vegetation which could fuel wildfires in the County.

Number of Buildings Exposed
1,488
In areas with slope degrees > 25%

Building Replacement Cost Value
\$2,567,902,936
In areas with slope degrees > 25%



Pandemic

Disease outbreaks can impact the entirety of Cattaraugus County. Emerging diseases are difficult to contain or treat and present significant challenges to risk communication since the mechanics of transmission, laboratory identification, and effective treatment protocols may be unknown.

Population Exposed

75,690

(100%)

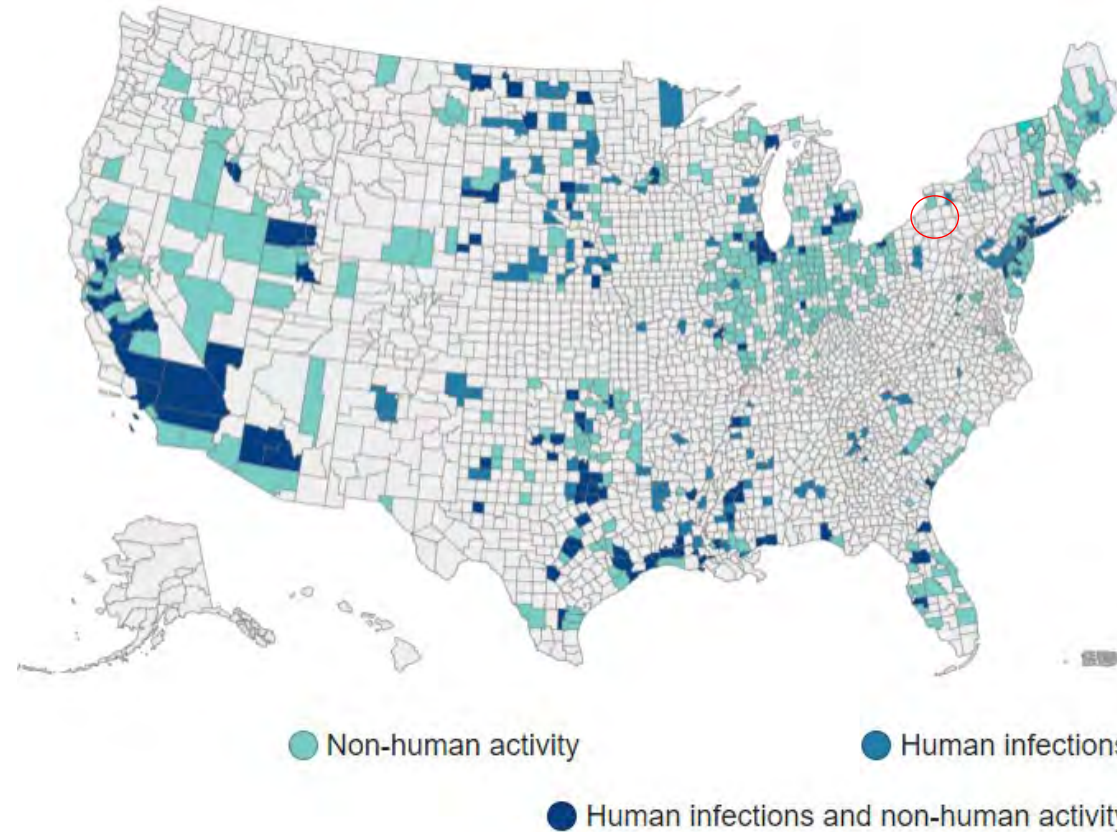
The entire County is susceptible

Notable Occurrences



- Flu Season 2022-2023, Cattaraugus County confirmed 2,960 cases of Influenza A and 86 cases of Influenza B.
- In 2022, Cattaraugus County confirmed 114 cases of Lyme Disease.
- In 2021, Cattaraugus County reported 9,145 positive cases of Covid-19 and 145 deaths.

West Nile Virus Human and Non-Human Activity by County, 2024



Source: [CDC 2024](#)

Hazard Types

- Coronavirus
- Influenza
- West Nile Virus
- Lyme Disease

Climate Change

Warmer temperatures and changing rainfall patterns provide an environment where mosquitos can remain active longer, greatly increasing the risk for animals and humans. Lyme disease could also expand throughout the United States as temperatures warm, allowing ticks to move into new areas of the country. An increase in temperature and humidity may also lead to a larger number of influenza outbreaks, as studies have shown that warmer winters led to an increase in influenza cases.

Severe Storm and Extreme Temperatures

Severe storms 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

75,690

(100%)

The entire County is susceptible

Notable Occurrences

July 13, 2021, Severe thunderstorm produced downpours and knocked trees and wires down. \$153,000 in property damage were reported.

October 31 through November 1, 2019, a high wind event led to \$520,000 in property damages.

Potential Impacts

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

Storm Damage in Cattaraugus



Source: [Olean Times Herald 2020](#)

Hazard Types



High Wind



Tornado



Thunderstorm and Lightning



Hailstorms



Hurricanes and Tropical Storms



Extreme Cold



Extreme Heat

Severe Winter Storm

Severe winter storms 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

75,690

(100%)

The entire County is susceptible

Hazard Types

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

Severe Winter Storm Event



Source: [Olean Times Herald 2015](#)

Notable Occurrence



In December 2022, a historic lake effect blizzard occurred northeast of Lake Erie and Lake Ontario. A combination of high winds and heavy lake effect snow resulted in devastating impacts across western New York.

Climate Change Impacts

In the County, temperatures are estimated to increase by 3.6 °F to 7.4 °F by the 2050s. Snowfall is likely to become less frequent and the snow season shorter. While warming winters may initially increase lake-effect snow due to more atmospheric moisture, long-term projections suggest more precipitation will fall as rain.

Utility Failure

Utility Failures 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 which may result in utility failures.

Population Exposed

75,690
(100%)

The entire County is susceptible

FEMA Declaration

August 14 to August 16, 2003
New York Power Outage
EM-3186-NY

Climate Change Impacts

New York State has warmed more rapidly than the national average, and winter is warming faster than other seasons. Evidence shows that extremely hot days are happening more often, and multiday heat waves are expected to occur more often and last longer in the upcoming decades which may impact utilities in the County.

Power Restoration in Cattaraugus County



Source: [Olean Times Herald 2024](#)

Cascading Impacts



Fires

Temperature-Related Illnesses



Traffic Accidents

Loss of Food, Water, and Medical Resources



Wastewater and Potable Water Utility Interruption

Wildfire

Wildfire events are not confined to a any specific geographic location and can vary greatly in terms of size, location, intensity, and duration. Wildfires can have impacts on critical services, utilities, and properties, and may cause injury. Many areas in the State, particularly those that are heavily forested or contain large tracts of brush and shrubs, are prone to fires.

Building Replacement Cost Value

\$15,287,789,467

In the Wildland Urban Interface Hazard Area

\$11,232,926,763

In the Wildland Urban Intermix Hazard Area

Number of Buildings Exposed

18,024
(40.4%)

In the Wildland Urban Interface Hazard Area

13,028
(29.2%)

In the Wildland Urban Intermix Hazard Area

Population Exposed

36,689

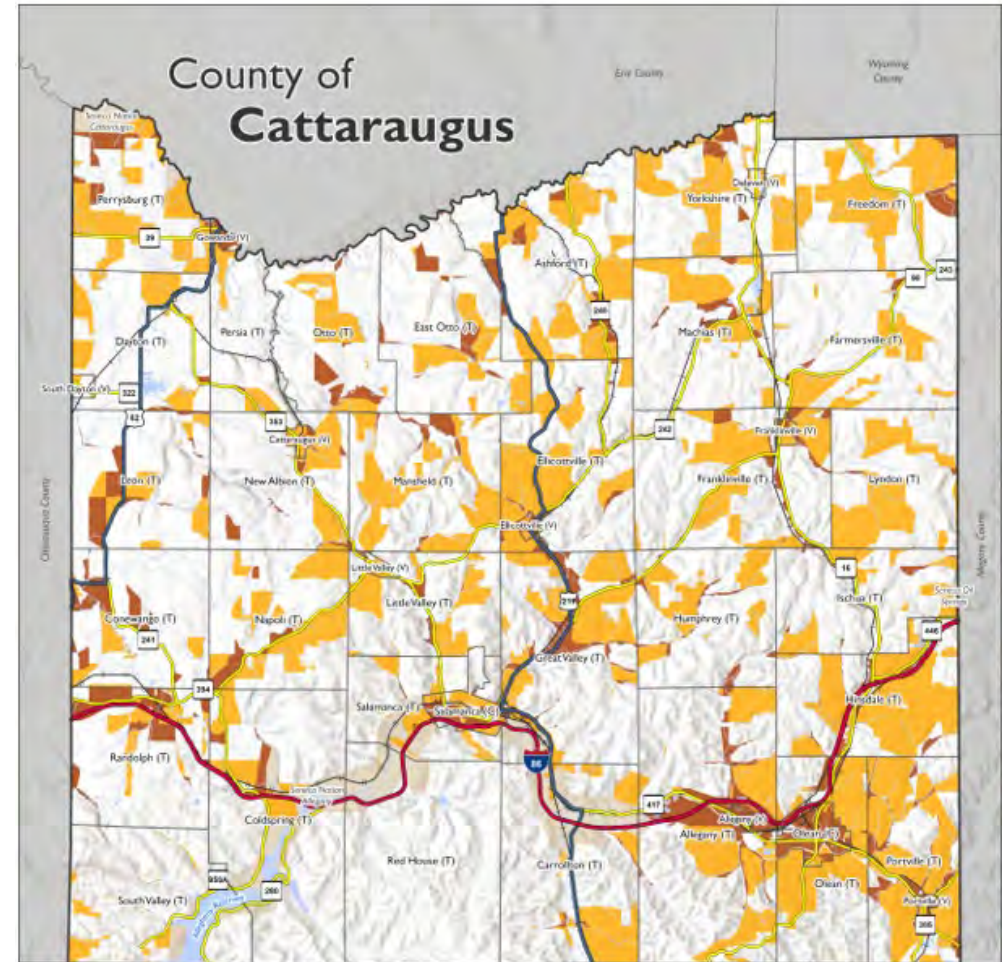
(48.5%)

of the County is susceptible

Climate Change Impacts

Climate change will lead to more frequent and intense wildfires in many states. Some studies project that the Northeast's fire season may start earlier and last longer due to warming temperatures. The risk of air quality impacts from wildfire smoke from local and regional wildfire events will increase if the fire season starts earlier and lasts longer.

Wildland Urban Interface and Intermix Areas



Wildland-Urban Interface/Intermix Wildfire Hazard Area



Source: Cattaraugus County 2020 NYS Office of IT Services GPO 2024 USGS, SVS/Lab, Dept. of Forest & Wildl. Ecology, University of Wisconsin-Madison 2013



County Hazard Ranking

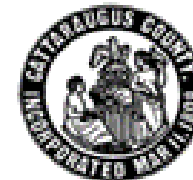
Review the calculated hazard rankings and provide your feedback.

Preliminary Hazard Ranking Methodology

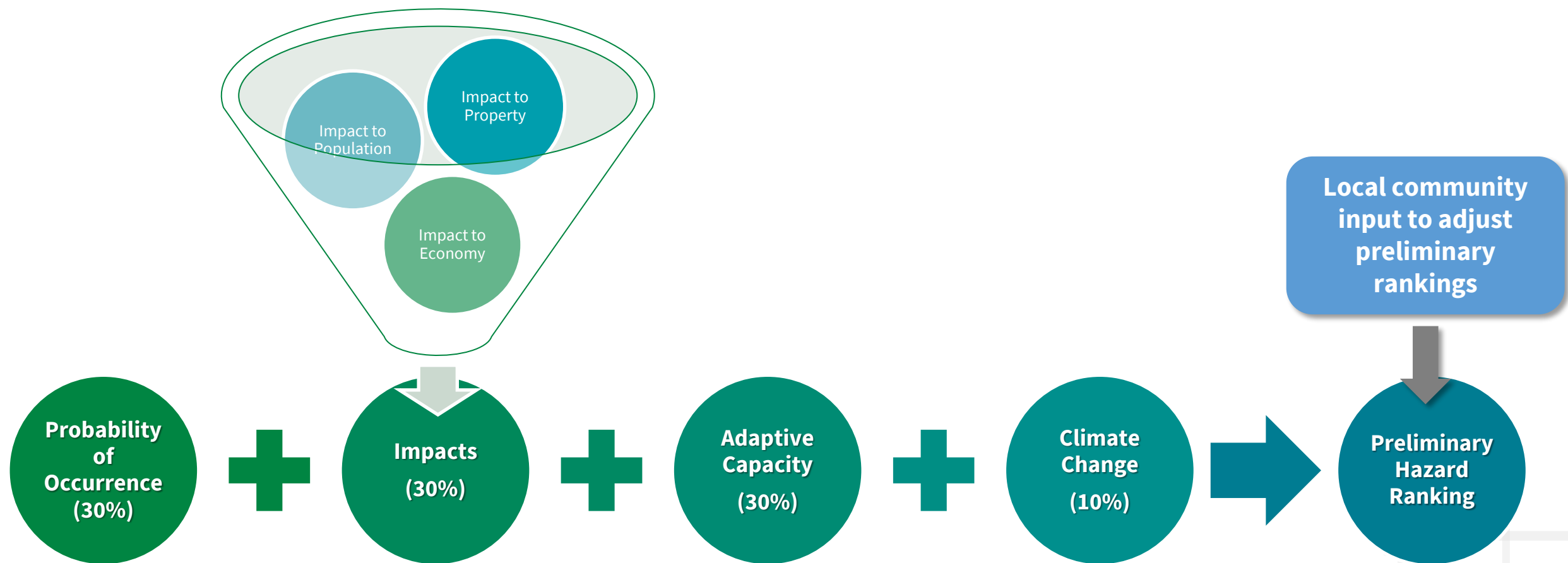


- The calculated probability of a hazard occurring based on historical data
- *Impacts to people, property, and the economy* based on GIS data and analysis of exposure.
- The degree to which climate change will affect future occurrences based on best available data.
- The degree to which existing capabilities (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

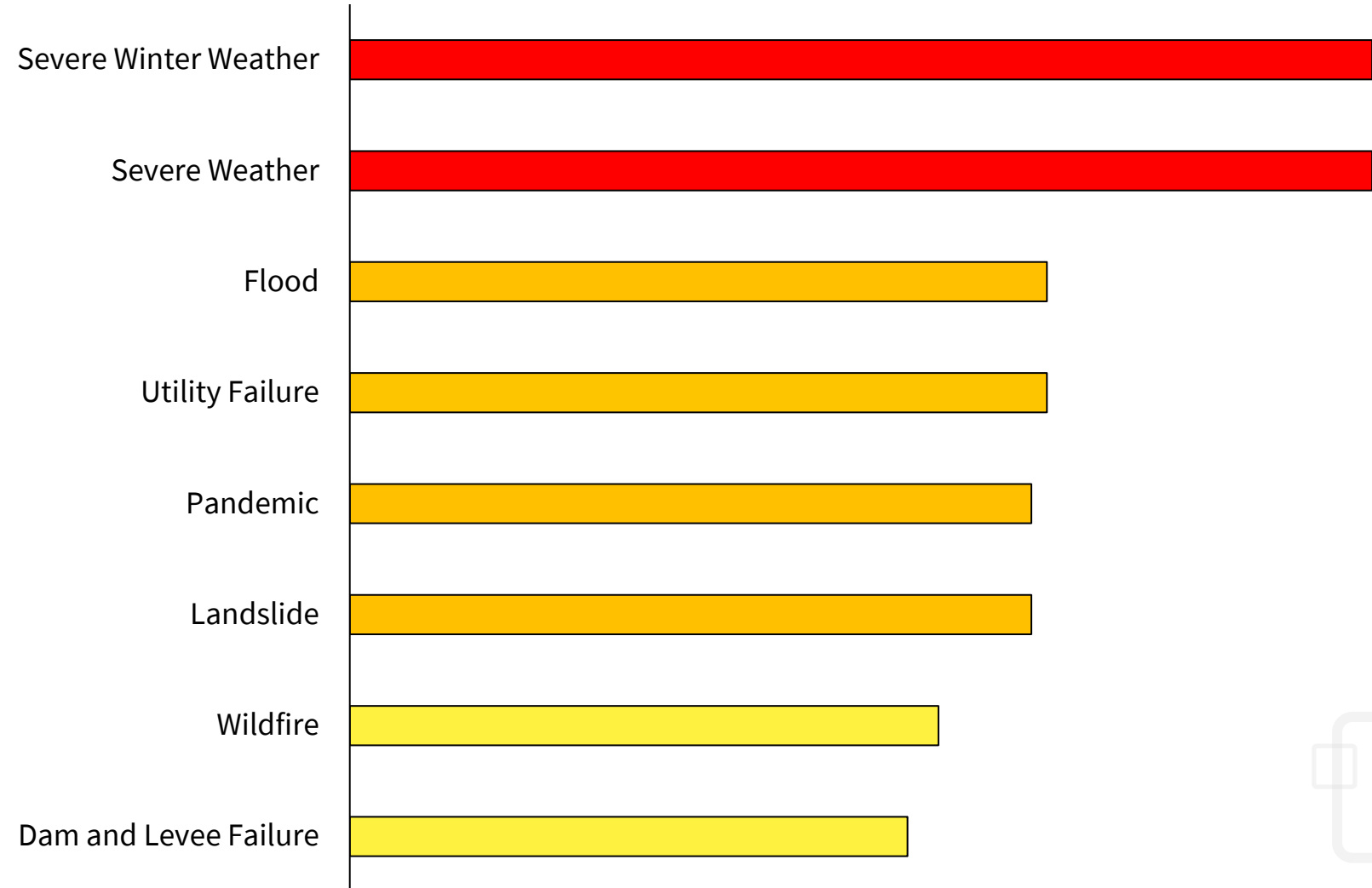
- Severe Winter Storm
- Severe Weather

Medium

- Flood
- Utility Failure
- Pandemic
- Landslide

Low

- Wildfire
- Dam/Levee Failure





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





Identifying and Developing Mitigation Strategies



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.***

Using Your Mitigation Strategy to Reduce Risk



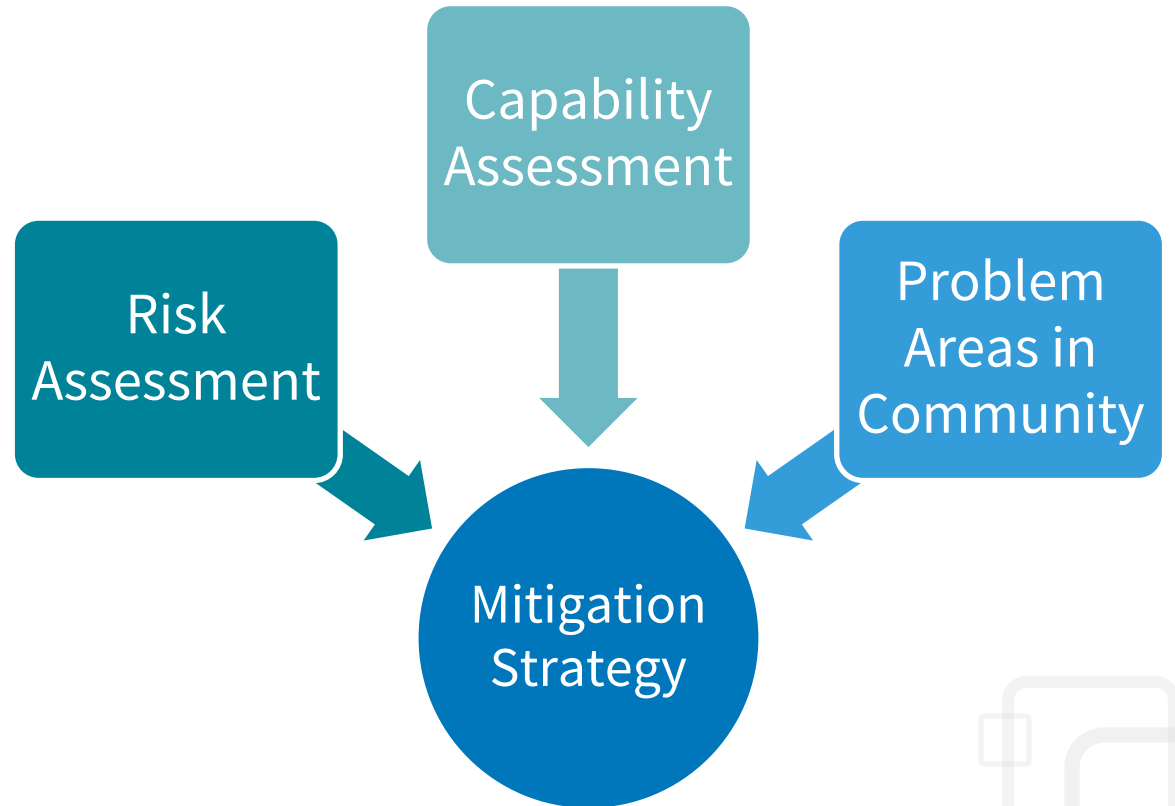
- What is a *Mitigation Strategy*?
 - A group of projects or actions to reduce the impacts of the hazards of concern on your community
 - Plans and Regulations
 - Structure and Infrastructure Studies and Projects
 - Natural Systems Protection Studies and Projects
 - Education and Awareness Programs
-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



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!*)



Hazards of Concern



Dam and Levee Failure



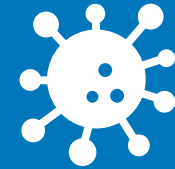
Flood



Landslide



Pandemic



Severe Storm



Severe Winter Storm



Utility Failure



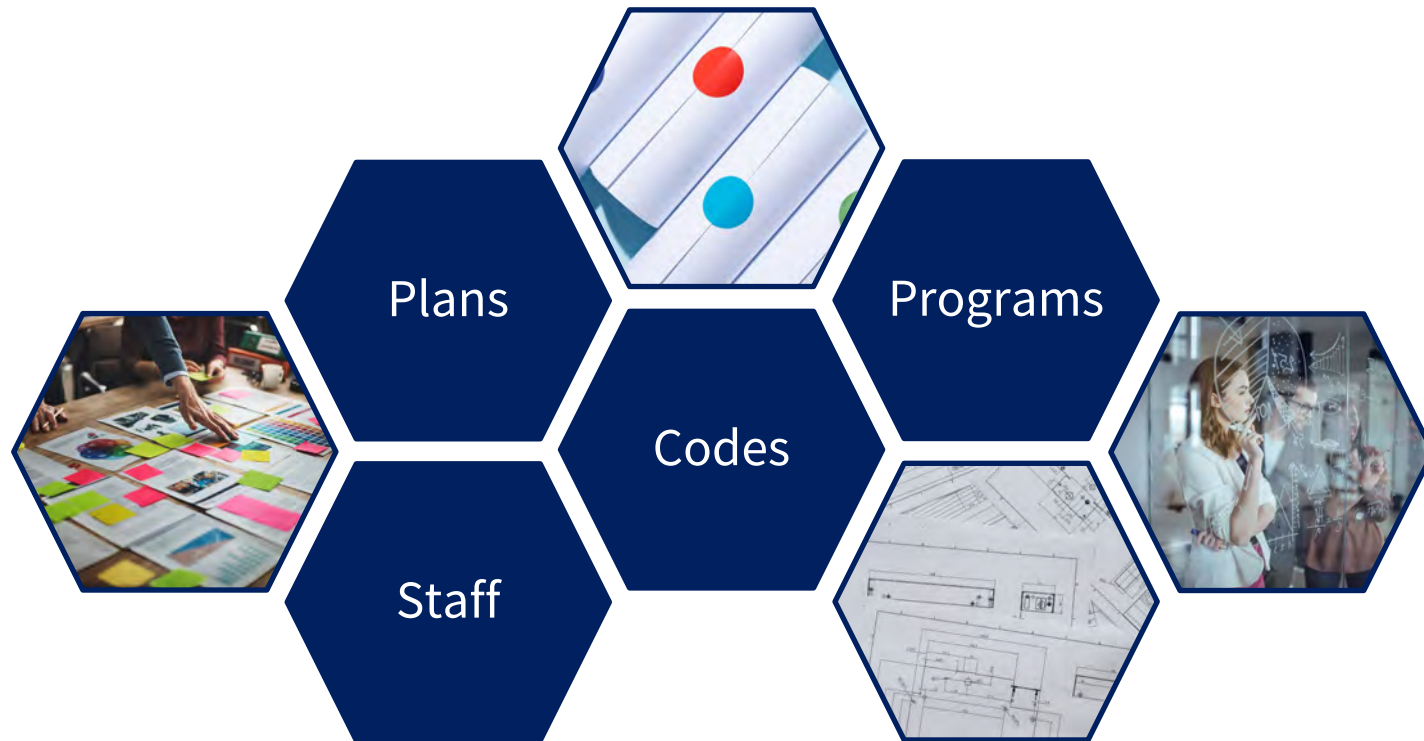
Wildfire



Capability Assessment



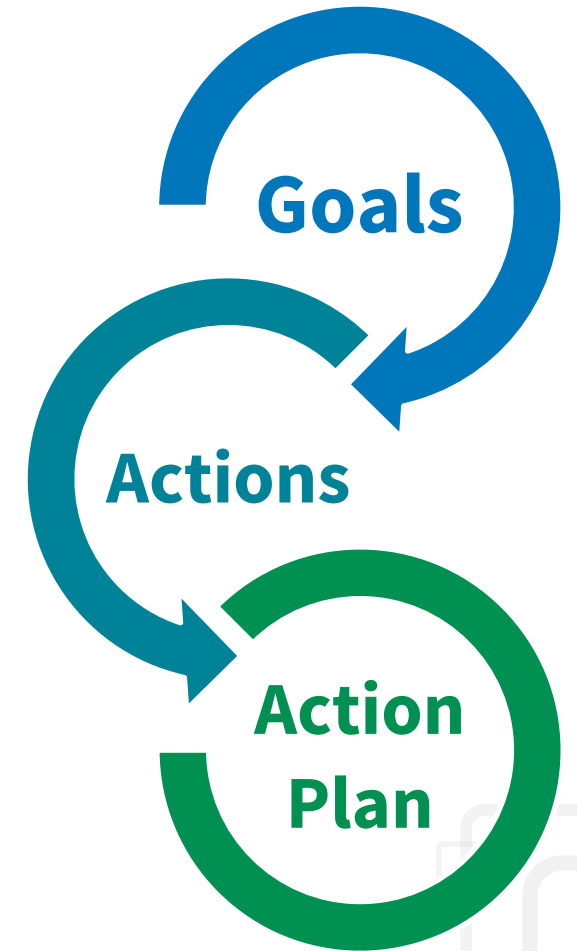
- Capabilities
 - What does your jurisdiction use to reduce risk to hazards?



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?



2019 HMP Goals



	Goal
1	Protect life, property, and critical infrastructure from hazard impacts.
2	Reduce the risk of hazards on life, property, and the environment.
3	Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.



2025 HMP Proposed Goals



	Goal
1	Protect life, property, the environment, and critical infrastructure from hazard impacts.
2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
3	Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.
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)

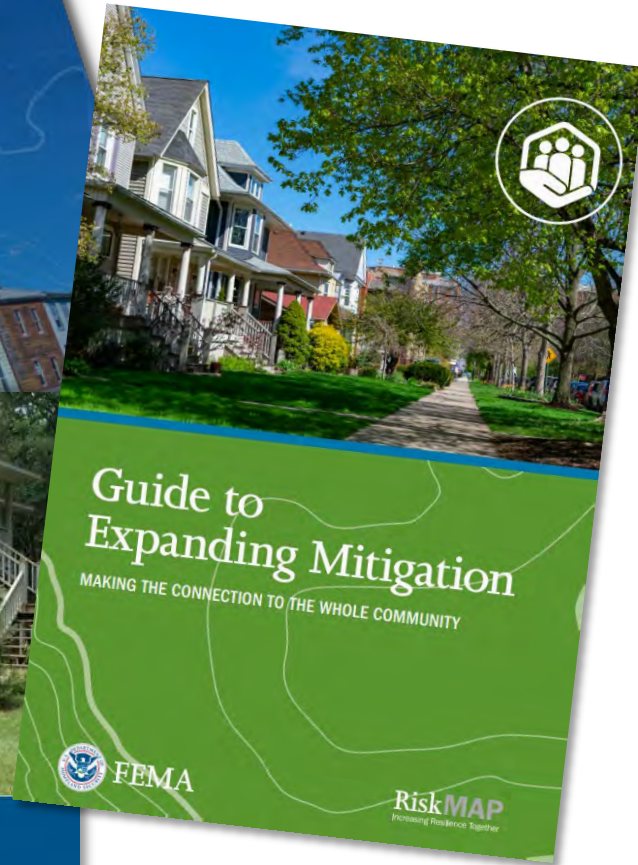


Where do you need to focus?

- **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



- Local Disaster Debris Management Plans
- 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

Mitigation Action Types



Plans and regulations include government authorities, policies, or codes that encourage risk reduction, such as building codes and state planning regulations. This may also include planning studies.



Structure and infrastructure projects involve modifying existing structures and infrastructure or constructing new structures to reduce the impact of hazards.



Natural systems protection projects minimize losses while also preserving or restoring the function of natural systems.



Education and awareness programs include long-term, sustained programs to inform and educate citizens and stakeholders about hazards and mitigation options. This category could also include training.



Workshop

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

Before you leave, check in with Tetra Tech staff!

Review Preliminary Rankings



Cattaraugus County | Hazard Mitigation Plan 2025 Update
Risk Assessment and Mitigation Strategy Workshop

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.

Jurisdiction: _____

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.**

Cattaraugus County | Hazard Mitigation Plan 2025 Update
Risk Assessment and Mitigation Strategy Workshop

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 Cattaraugus 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 Failures			
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	

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

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.



Cattaraugus County | Hazard Mitigation Plan 2025 Update
Risk Assessment and Mitigation Strategy Workshop

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	Hazard(s)	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2025 HMP or Discontinue 2. If including action in the 2025 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
				Problem: Solution:	1. 2.	1. 2. 3.
				Problem: Solution:	1. 2.	1. 2. 3.



Cattaraugus County Hazard Mitigation Plan

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 Cattaraugus 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.

 Cattaraugus County Hazard Mitigation Plan 2025 Update
SWOO

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.

Jurisdiction: _____
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 Cattaraugus 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 and Levee Failure

Strengths
Weaknesses
Obstacles
Opportunities

 TETRA TECH
Cattaraugus County Hazard Mitigation Plan



Next Steps



Next Steps

- **NOW:** Complete your worksheets, ask questions, and provide to Tetra Tech staff
- **NOW:** Provide update to Tetra Tech staff on any missing worksheets, when you will submit them, and how Tetra Tech can assist you
- **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.

Cattaraugus County Project Contacts

Kimberly A. Merrill, Secretary to the Commissioner
(716) 938-9121 ext. 2480 | kamerrill@cattco.org

Naomi Gennings, NIMS Coordinator
(716) 938-2212 | nagennings@cattco.org

Tetra Tech Project Contacts

Jessica Stokes, Project Manager
(973) 630-8017 | jessica.stokes@tetrattech.com

Emily Vassallo, Lead Planner
(717) 839-5655 | emilly.vassallo@tetrattech.com

Thank
You!



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Draft Plan Review Meeting, Afternoon Option – AGENDA
MEETING DATE/TIME: May 20, 2025 @ 2:00PM



In-Person Option:

101 3rd St, Little Valley, NY 14755

Virtual Option:

Dial-In Phone Number: +1 213-357-2812; Conference ID: 925 314 890#

Join by Meeting: <https://msteams.link/H0X9>

- 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**

Cattaraugus County Project Contact

Kimberly A. Merrill, Secretary to the Commissioner
Cattaraugus County Department of Public Works
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Tetra Tech Project Contact

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Tetra Tech, Inc.
(973) 630-8017 | jessica.stokes@tetrattech.com

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



Purpose of Meeting:	Draft Plan Review Meeting – Afternoon Option
Location of Meeting:	101 3rd St, Little Valley, NY 14755 and Teleconference via Teams
Date of Meeting:	May 20, 2025 @ 2:00 P.M.

Attendees:	<ul style="list-style-type: none"> • Cattaraugus County Public Works <ul style="list-style-type: none"> ○ Kim Merrill, Secretary to the Commissioner • Cattaraugus County Emergency Services <ul style="list-style-type: none"> ○ Naomi Gennings, NIMS Coordinator • Cattaraugus County Office of Real Property & GIS Services <ul style="list-style-type: none"> ○ Chris Holewinski, GIS Coordinator • Cattaraugus County Health Department <ul style="list-style-type: none"> ○ James Lawrence, Emergency Preparedness Director • Cattaraugus County Soil and Water <ul style="list-style-type: none"> ○ Tyler Paar, District Manager • Village of Allegany <ul style="list-style-type: none"> ○ John Helgager • Town of Ellicottville <ul style="list-style-type: none"> ○ Gregory Keyser, Engineer • Village of Ellicottville <ul style="list-style-type: none"> ○ Gregory Keyser, Engineer • Town of Little Valley <ul style="list-style-type: none"> ○ Megan Morgenstern, Town Clerk • Village of Little Valley <ul style="list-style-type: none"> ○ Jim Bowen, Mayor • Town of Lyndon <ul style="list-style-type: none"> ○ Bobbi Elderkin, Code Enforcement 	<ul style="list-style-type: none"> • City of Olean <ul style="list-style-type: none"> ○ William J Aiello, Mayor ○ Eric Maurouard, Fire Chief • Village of Portville <ul style="list-style-type: none"> ○ Anthony Evans, Mayor • Village of South Dayton <ul style="list-style-type: none"> ○ Stephen Pollock, DPW • Cattaraugus-Little Valley CSD <ul style="list-style-type: none"> ○ David Foster, Superintendent • Seneca Nation Emergency Management <ul style="list-style-type: none"> ○ Michael Gates, Emergency Manager • NYS DHSES <ul style="list-style-type: none"> ○ Kevin Clapp, Planning Manager ○ Shannon Al-Jabu, Chief of Hazard Mitigation ○ John Wilkinson, Hazard Mitigation Project Manager • USACE-Buffalo <ul style="list-style-type: none"> ○ Laura Ortiz, Floodplain Manager • FEMA <ul style="list-style-type: none"> ○ Paul Hoole, Mitigation Planner • Tetra Tech <ul style="list-style-type: none"> ○ Jessica Stokes, Project Manager ○ Emily Vassallo, Lead Planner
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Agenda Summary: 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 Cattaraugus 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	Introductions	-
2	Project Status <ul style="list-style-type: none"> • In Kind Tracking • Public Outreach and Engagement <ul style="list-style-type: none"> ○ Post links on social media and department/agency websites ○ Make efforts to reach out to: <ul style="list-style-type: none"> ▪ General Public ▪ Stakeholders ▪ Neighbors 	Planning Partnership <ul style="list-style-type: none"> • Post links on social media and department/agency websites • Make efforts to reach out to general public, stakeholders, and neighbors
3	HMP Draft Review <ul style="list-style-type: none"> • What's New in the 2025 Update? • New FEMA requirements • Updated critical facilities inventory and included community lifelines • Incorporated new hazards of concern and performed new risk analysis • Enhanced the capability assessment for each participating jurisdiction 	-
4	2025 HMP Framework <ul style="list-style-type: none"> • Volume I 	-



	<ul style="list-style-type: none"> ○ Executive Summary <ul style="list-style-type: none"> ▪ Provides an overview of how the plan is laid out by describing the various chapters within the plan ○ Chapter 1 Introduction <ul style="list-style-type: none"> ▪ This is the introduction of the HMP, explains the update process, who participated, and what changes have been made since the last plan. ○ Chapter 2 Planning Process <ul style="list-style-type: none"> ▪ 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. ○ Chapter 3 County Profile <ul style="list-style-type: none"> ▪ Provides general information for the Planning Area and critical facilities/lifelines located within the area. ○ Chapter 4 Risk Assessment <ul style="list-style-type: none"> ▪ Provides a foundation for the rest of the planning process – which focuses on identifying and prioritizing actions to reduce risk to hazards. ○ Chapter 5 Hazard of Concern identification <ul style="list-style-type: none"> ▪ Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area ○ Chapters 6 through 13 Hazard Profiles <ul style="list-style-type: none"> ▪ 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 ○ Chapter 14 Hazard Ranking <ul style="list-style-type: none"> ▪ Provides information on the methodology used to determine the preliminary hazard rankings ○ Chapter 15 Capability Assessment <ul style="list-style-type: none"> ▪ 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. ○ Chapter 16 Mitigation Strategy <ul style="list-style-type: none"> ▪ 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. ○ Chapter 17 Plan Maintenance <ul style="list-style-type: none"> ▪ Describes how the County will keep the hazard mitigation plan up to date over the next five years. ● Volume II <ul style="list-style-type: none"> ○ Chapter 1 Planning Partnership <ul style="list-style-type: none"> ▪ Gives an overview of how each jurisdiction participated in the plan and how the annexes are laid out. ○ Chapters 2 through 45 Jurisdictional Annexes <ul style="list-style-type: none"> ▪ 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 	
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	<p>jurisdictional hazard ranking, includes a status of mitigation actions from 2020 and then includes mitigation actions for the 2025 HMP.</p> <ul style="list-style-type: none"> • 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 participate this time around and would like to join the plan in the next 5 years. <ul style="list-style-type: none"> ○ 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 	
5	<p>FEMA Approval Process</p> <ul style="list-style-type: none"> • The plan is made available for public and State review. <ul style="list-style-type: none"> ○ Feedback and comments will be incorporated into a second draft. • The second draft will be submitted to FEMA for review and approval. <ul style="list-style-type: none"> ○ If FEMA has questions or comments those will be addressed. ○ 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. <ul style="list-style-type: none"> ○ Resolution is submitted to FEMA and FEMA grants final approval. 	-
6	<p>Review the Draft Plan</p> <ul style="list-style-type: none"> • The entire plan will be posted on the Cattaraugus County HMP website for a 30-day review period (starting tomorrow, May 21) <ul style="list-style-type: none"> ○ https://www.cattcohmp.com/draft-plan/ ○ 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 • 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 	-
7	<p>Next Steps</p> <ul style="list-style-type: none"> • Draft Plan Review Meeting – TODAY! • Public Review Period (30 days) – May 21, 2025 through June 20, 2025 • NYSDHSES Review occurring in tandem with Public Review • Submit Draft Plan for FEMA Review in July • FEMA approves plan; begin adoption 	-
8	<p>Questions/Discussion</p>	-

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



	<ul style="list-style-type: none">• Paul Hoole, a FEMA representative, encourages the implementation of the plan upon the completion. Kim responds saying that many municipalities have been continuing to implement mitigation measures in their municipal budgets and has been able to mark them as completed.• Mike, from Seneca Nation of Indians, asked the question of if Seneca Nation is giving good information to the County as needed. Kim responds, saying that is an area that can be worked on with both parties. Information sharing would be beneficial to both entities.	
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Cattaraugus County 2025 Hazard Mitigation Plan
Topic: Draft Plan Review Meeting
Date: May 20, 2025
Time: 2:00 PM



Name	Jurisdiction/Title	Email	Phone Number
Jessica Stokes	Tetra Tech, PM	Jessica.stokes@tetra-tech.com	913-630-8017
Emily Vassallo	Tetra Tech, lead planner	emily.vassallo@tetra-tech.com	
Kyrlewyn Mewin	Cattaraugus DPAD	kmewin@cattra.org	716.938.2480
Stephan Pollock	Vill. of Dayton	southdaytonDPAD@gmail.com	716-673-5822
slim Bowen	Village of Little Valley	mayor@villageoflittlevalley.org	(716) 244-1031
Tyler Paer	Cattaraugus District Manager	tpaer@cattra.swd.org	(716) 350-4009
Anthony Evans	Village of Portville	paerwilliams@gmail.com	(716) 342-7366
John Helgager	Village of Allegany, Franklinton	jhelgager@allegany.org	(716) 904-2260
Chris Aleksinski	Cattaraugus Coordinator	cal@cattra.org	716 938 2322
Michael Gorka	Seneca Nation Emergency Dept	michael.gorka@snv.org	716 244 0820
Naomi Greenings	Cattaraugus OES	ngreenings@cattra.org	716-519-2665



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE
Draft Plan Review Meeting, Evening Option – AGENDA
MEETING DATE/TIME: May 20, 2025 @ 6:00PM



In-Person Option:

101 3rd St, Little Valley, NY 14755

Virtual Option:

Dial-In Phone Number: +1 213-357-2812; Conference ID: 234 306 329#

Join by Meeting: <https://msteams.link/6GYZ>

- 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**

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Tetra Tech Project Contact

Jessica Stokes, MSEM, NJCEM
Tetra Tech, Inc.
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**Cattaraugus County, NY – Hazard Mitigation Plan 2025 Update
Draft Plan Review Meeting | Meeting Minutes**



Purpose of Meeting:	Draft Plan Review Meeting – Afternoon Option	
Location of Meeting:	101 3rd St, Little Valley, NY 14755 and Teleconference via Teams	
Date of Meeting:	May 20, 2025 @ 6:00 P.M.	
Attendees:	<ul style="list-style-type: none"> • Cattaraugus County Public Works <ul style="list-style-type: none"> ○ Kim Merrill, Secretary to the Commissioner • Cattaraugus County Department of Community Services <ul style="list-style-type: none"> ○ Mary O’Leary, Director • Town of Dayton <ul style="list-style-type: none"> ○ Chris Rupp, Board member • Town of Franklinville <ul style="list-style-type: none"> ○ Catharyn Campbell, Supervisor ○ Scott Stanbro, Highway Superintendent 	<ul style="list-style-type: none"> • Town of Yorkshire <ul style="list-style-type: none"> ○ Christopher Lexer, Highway Superintendent / CEO ○ Marcia Lexer, Supervisor • Tetra Tech <ul style="list-style-type: none"> ○ Jessica Stokes, Project Manager ○ Emily Vassallo, Lead Planner

Agenda Summary: 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 Cattaraugus 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):
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3	HMP Draft Review <ul style="list-style-type: none"> • What’s New in the 2025 Update? • New FEMA requirements • Updated critical facilities inventory and included community lifelines • Incorporated new hazards of concern and performed new risk analysis • Enhanced the capability assessment for each participating jurisdiction 	-
4	2025 HMP Framework <ul style="list-style-type: none"> • Volume I <ul style="list-style-type: none"> ○ Executive Summary <ul style="list-style-type: none"> ▪ Provides an overview of how the plan is laid out by describing the various chapters within the plan ○ Chapter 1 Introduction <ul style="list-style-type: none"> ▪ This is the introduction of the HMP, explains the update process, who participated, and what changes have been made since the last plan. ○ Chapter 2 Planning Process <ul style="list-style-type: none"> ▪ 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. ○ Chapter 3 County Profile 	-



	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Provides general information for the Planning Area and critical facilities/lifelines located within the area. ○ Chapter 4 Risk Assessment <ul style="list-style-type: none"> ▪ Provides a foundation for the rest of the planning process – which focuses on identifying and prioritizing actions to reduce risk to hazards. ○ Chapter 5 Hazard of Concern identification <ul style="list-style-type: none"> ▪ Describes the process to review all potential hazards and identify the hazards that have the potential to impact the Planning Area ○ Chapters 6 through 13 Hazard Profiles <ul style="list-style-type: none"> ▪ 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 ○ Chapter 14 Hazard Ranking <ul style="list-style-type: none"> ▪ Provides information on the methodology used to determine the preliminary hazard rankings ○ Chapter 15 Capability Assessment <ul style="list-style-type: none"> ▪ 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. ○ Chapter 16 Mitigation Strategy <ul style="list-style-type: none"> ▪ 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. ○ Chapter 17 Plan Maintenance <ul style="list-style-type: none"> ▪ Describes how the County will keep the hazard mitigation plan up to date over the next five years. • Volume II <ul style="list-style-type: none"> ○ Chapter 1 Planning Partnership <ul style="list-style-type: none"> ▪ Gives an overview of how each jurisdiction participated in the plan and how the annexes are laid out. ○ Chapters 2 through 45 Jurisdictional Annexes <ul style="list-style-type: none"> ▪ 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. • 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 participate this time around and would like to join the plan in the next 5 years. <ul style="list-style-type: none"> ○ Appendix A. Adoptions ○ Appendix B. Meeting Documentation 	
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**Cattaraugus County, NY – Hazard Mitigation Plan 2025 Update
Draft Plan Review Meeting | Meeting Minutes**



	<ul style="list-style-type: none"> ○ 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 	
5	<p>FEMA Approval Process</p> <ul style="list-style-type: none"> ● The plan is made available for public and State review. <ul style="list-style-type: none"> ○ Feedback and comments will be incorporated into a second draft. ● The second draft will be submitted to FEMA for review and approval. <ul style="list-style-type: none"> ○ If FEMA has questions or comments those will be addressed. ○ 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. <ul style="list-style-type: none"> ○ Resolution is submitted to FEMA and FEMA grants final approval. 	-
6	<p>Review the Draft Plan</p> <ul style="list-style-type: none"> ● The entire plan will be posted on the Cattaraugus County HMP website for a 30-day review period (starting tomorrow, May 21) <ul style="list-style-type: none"> ○ https://www.cattcohmp.com/draft-plan/ ○ 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 ● 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 	-
7	<p>Next Steps</p> <ul style="list-style-type: none"> ● Draft Plan Review Meeting – TODAY! ● Public Review Period (30 days) – May 21, 2025 through June 20, 2025 ● NYSDHSES Review occurring in tandem with Public Review ● Submit Draft Plan for FEMA Review in July ● FEMA approves plan; begin adoption 	-
8	<p>Questions/Discussion</p> <ul style="list-style-type: none"> ● No Questions or Concerns 	-



Cattaraugus County 2025 Hazard Mitigation Plan
Topic: Draft Plan Review Meeting
Date: May 20, 2025
Time: 6:00 PM



Name	Jurisdiction/Title	Email	Phone Number
Chris Rupp	Town of Tonawanda - Board member	Crupp14138@yaho.com	716-229-9829
Elizabeth Pleura	Cattaraugus DPW	kambelw@catco.org	9382480
Emily Vassallo	Tetra Tech Lead Planner	emily.vassallo@tetratech.com	---
Jessica Stokes	Tetra Tech / Project Manager	jessica.stokes@tetratech.com	---



Cattaraugus County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

Draft Plan Review Meeting

May 20, 2025

While waiting for the meeting to start, please mark your attendance on the sign in sheet and/or use the chat function to enter your name, title, and affiliation!



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





Project Status



Public Outreach and Engagement

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






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
 - Current and future capabilities integrating hazard mitigation
 - One mitigation action per hazard




**Local Mitigation Planning
Policy Guide**

FP 206-21-0002

Released April 19, 2022, Effective April 19, 2023

OMB Collection #1660-0062



FEMA



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
- 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 and Levee Failure, Flood, Landslide, Pandemic, Severe Storm, Severe Winter Storm, Utility Failure, Wildfire
- 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 2-45. 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. Mitigation Strategy Supplement
- Appendix I. NYS DHSES Guidance



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

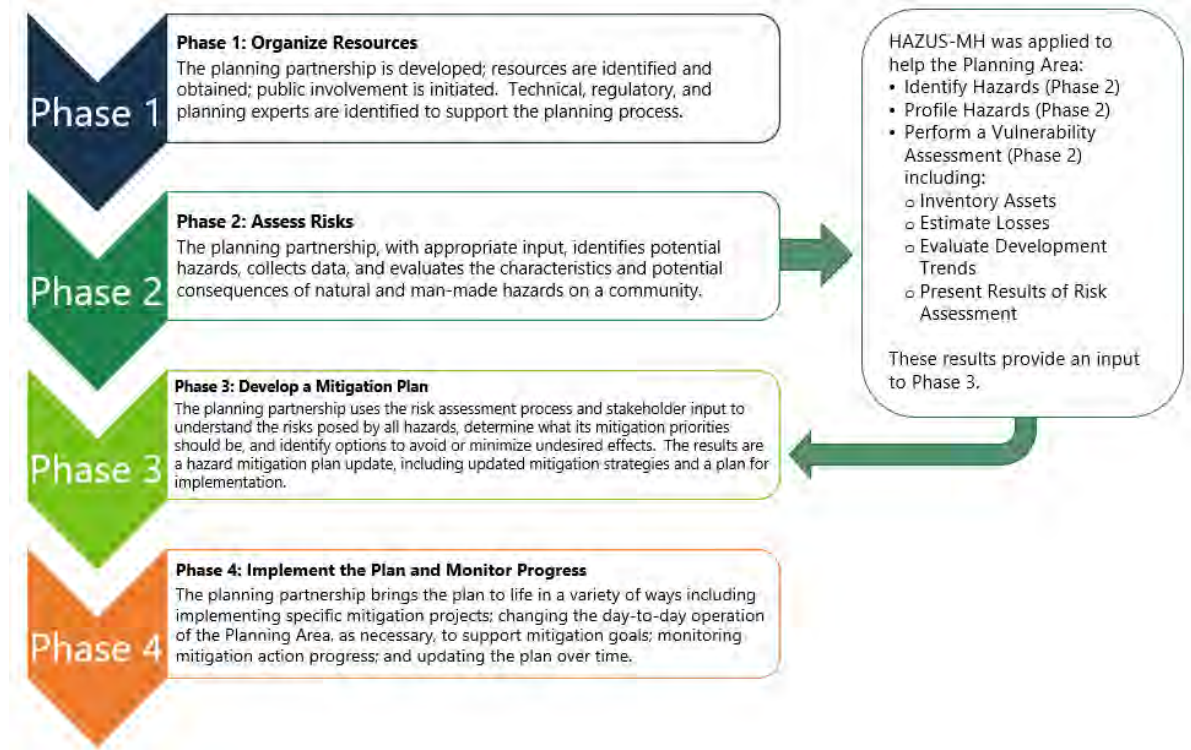


Volume I

1. Introduction



- Plan Purpose
- Background of the plan
- Plan Organization
- Planning Differences – 2020 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 44 CFR 201 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	44 CFR 201 Requirement	Description of Activity
November 2, 2023	2	Steering Committee Kick-Off Meeting Welcome and Introduction Timing and Administration Collection and Administration Con-

2. PLANNING PROCESS

This chapter describes the planning process used to update the Cattaraugus 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, including all municipalities in the County. Cattaraugus County invited all jurisdictions in the County to join in the planning process. To date, all 43 local municipal governments in the County (the Planning Partnership) have participated in the 2025 plan update process:
 - Cattaraugus County
 - Town of Allegany
 - Village of Allegany
 - Town of Ashford
 - Town of Carrollton
 - Village of Cattaraugus
 - Town of Coldspring
 - Town of Conewango
 - Town of Dayton
 - Village of Delevan
 - Town of East Otto
 - Town of Ellicottville
 - Village of Ellicottville
 - Town of Farmersville
 - Town of Franklinville
 - Village of Franklinville
 - Town of Freedom
 - Village of Gowanda
 - Town of Great Valley
 - Town of Hinsdale
 - Town of Humphrey
 - Town of Ischua
 - Town of Leon
 - Town of Little Valley
 - Village of Little Valley
 - Town of Lyndon
 - Town of Machias
 - Town of Mansfield
 - Town of Napoli
 - Town of New Albion
 - City of Olean
 - Town of Olean
 - Town of Otto
 - Town of Perrysburg
 - Town of Persia
 - Town of Portville
 - Village of Portville
 - Town of Randolph
 - Town of Red House
 - City of Salamanca
 - Town of Salamanca
 - Village of South Dayton
 - Town of South Valley
 - Town of Yorkshire
- The format of this plan is such that other entities can easily join at a later date as part of the regulatory 5-year plan update process.

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 New York State Hazard Mitigation Plan
 - Review of the 2020 Cattaraugus 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

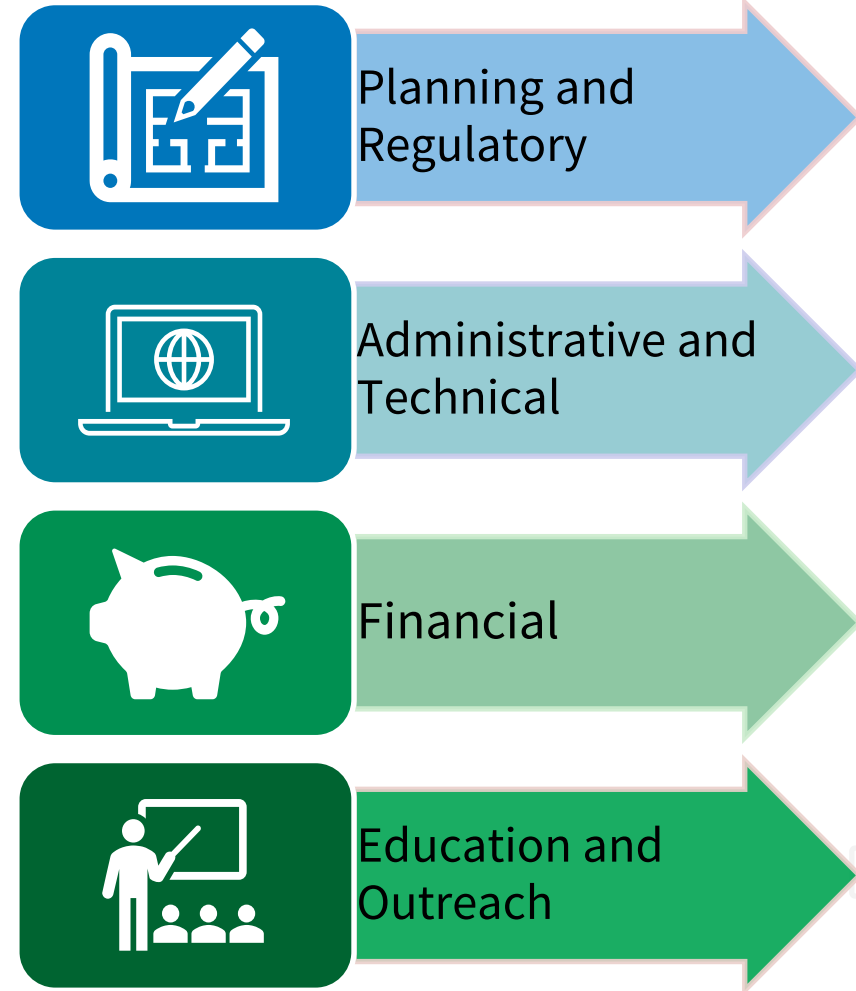




Volume I

15. Capability Assessment

- What is currently available at the federal, state, and county level to support mitigation in Cattaraugus 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



Volume I

17. Plan Maintenance



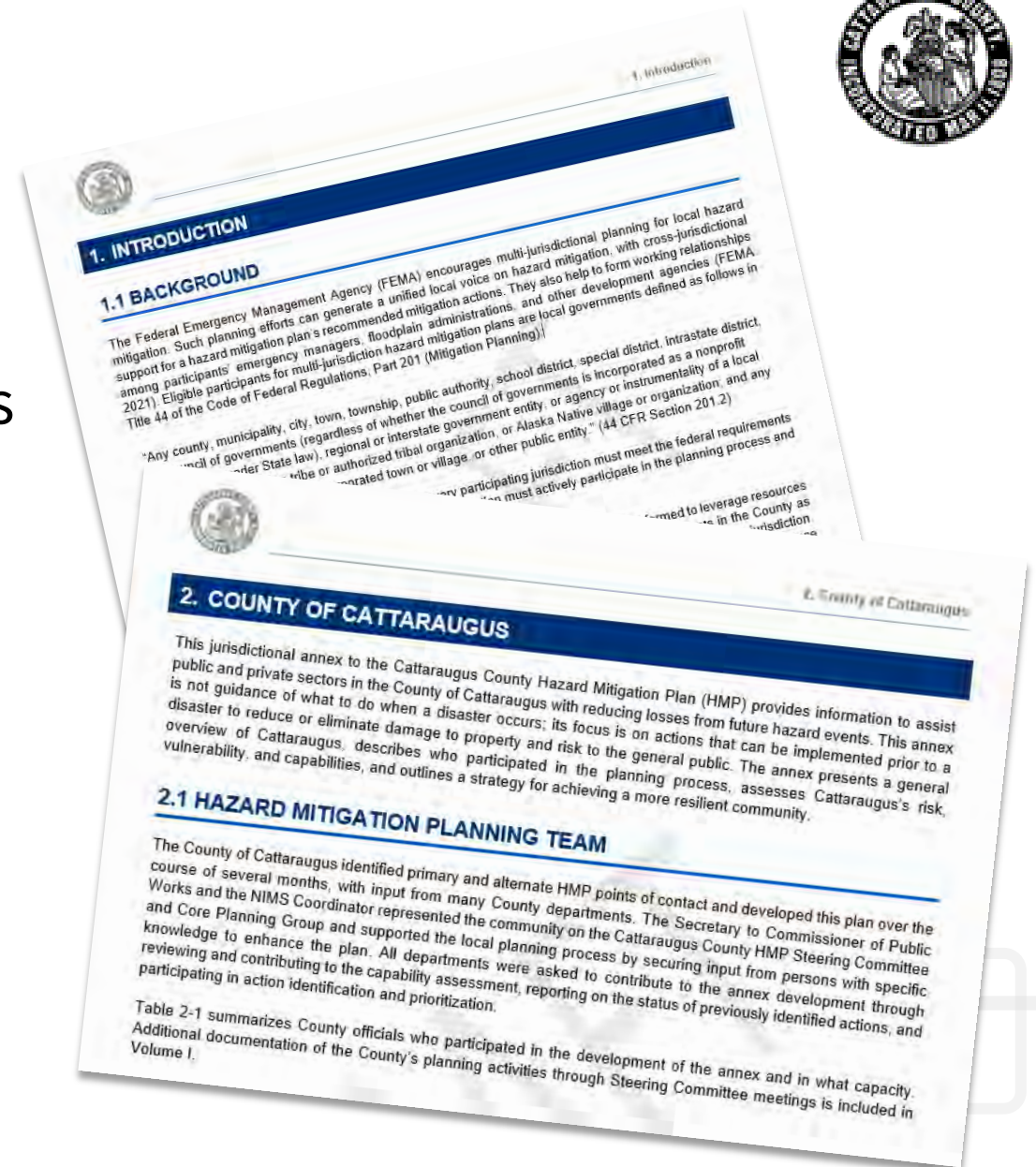
- Ongoing Planning Partnership – meet annually to discuss HMP
- Monitoring
- Continuous evaluation and progress reports
- Updating
- Integrating the HMP with existing and future programs
- Continued public involvement



Volume II



- **Chapter 1 – Introduction**
 - Participating jurisdictions
 - Introduction to jurisdictional annexes
- **Chapters 2-45 – 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. Mitigation Strategy Supplement
- Appendix I. NYS DHSES Guidance





FEMA Approval Process

- The plan is made available for public review.
- NYS DHSES 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 Cattaraugus County HMP website for a 30-day review period (starting tomorrow, May 21)
- NYS DHSES 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) – May 21 through June 20
- NYS DHSES Review is occurring in tandem with the Public Review Period
- Submit Draft Plan for FEMA Review in July; begin adoption
- FEMA approves plan (September); continue adoption
- Implement Projects and Maintain the Plan → Increase Resilience!



Questions?

Cattaraugus County Project Contacts

Kimberly A. Merrill, Secretary to the Commissioner
(716) 938-9121 ext. 2480 | kamerrill@cattco.org

Naomi Gennings, NIMS Coordinator
(716) 938-2212 | nagennings@cattco.org

Tetra Tech Project Contacts

Jessica Stokes, Project Manager
(973) 630-8017 | jessica.stokes@tetrattech.com

Emily Vassallo, Lead Planner
(717) 839-5655 | emilly.vassallo@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.

Cattaraugus County Public Survey Results

This section contains information and results gathered from the Cattaraugus 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 85 respondents completed this survey during the planning process. The survey was available on Cattaraugus County website and the HMP website at: <https://www.cattcohmp.com/>. The survey results are provided in the following pages, with personal information redacted.

Stakeholder Surveys

In addition to collecting information from residents of Cattaraugus 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.

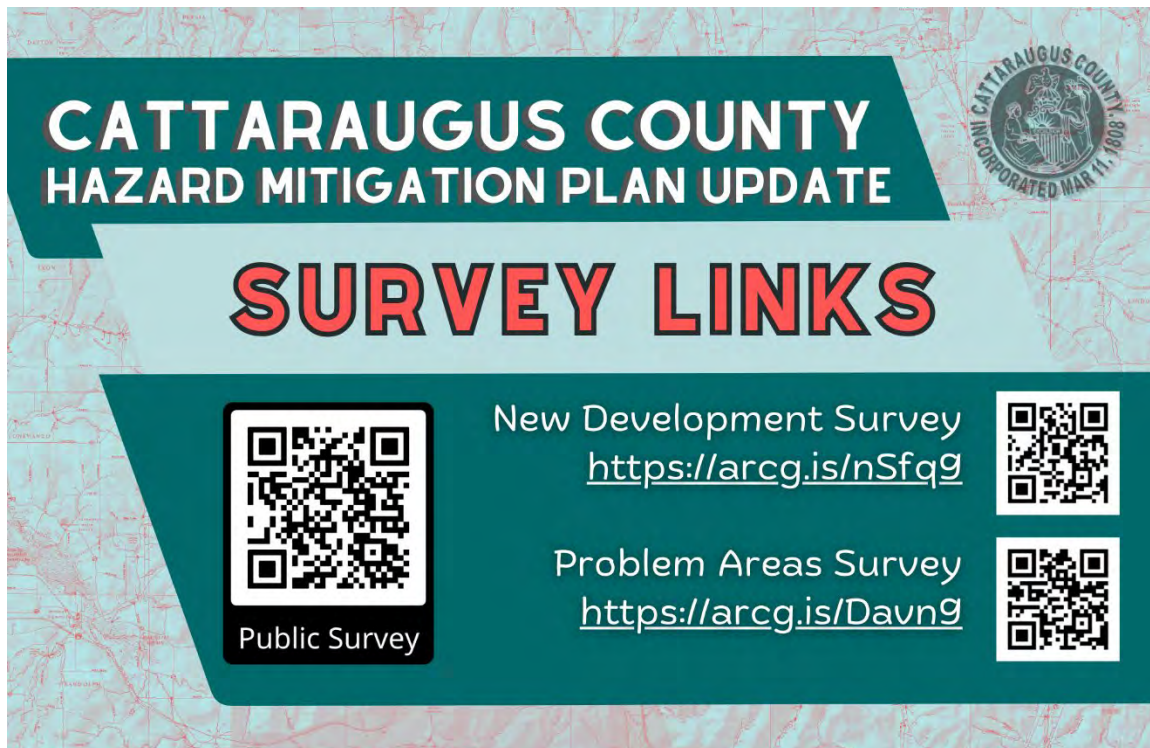
Neighboring Community Survey

A neighboring community survey was sent to the surrounding communities of Cattaraugus due to their proximity to the County and because the effects of hazard events that impact Cattaraugus 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, news articles, and social media posts.




Social Media Graphics



**CATTARAUGUS COUNTY
HAZARD MITIGATION PLAN UPDATE**



SURVEY LINKS

 Public Survey	New Development Survey https://arcg.is/nSfq9	
	Problem Areas Survey https://arcg.is/Davn9	



**CATTARAUGUS COUNTY
HAZARD MITIGATION PLAN UPDATE**



PUBLIC SURVEYS

Your input is vital to the update process!
Use the links below to share experiences and knowledge of natural hazard areas & impacts within your community.

THANK YOU!



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE



PROBLEM AREAS

Problem Areas Survey
<https://arcg.is/Davn9>



CATTARAUGUS COUNTY

HAZARD MITIGATION PLAN SURVEY

Cattaraugus County is seeking input for the 2024 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

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



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN

CATTARAUGUS COUNTY 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.
<https://bit.ly/3SthNBg>



SCAN ME



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



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



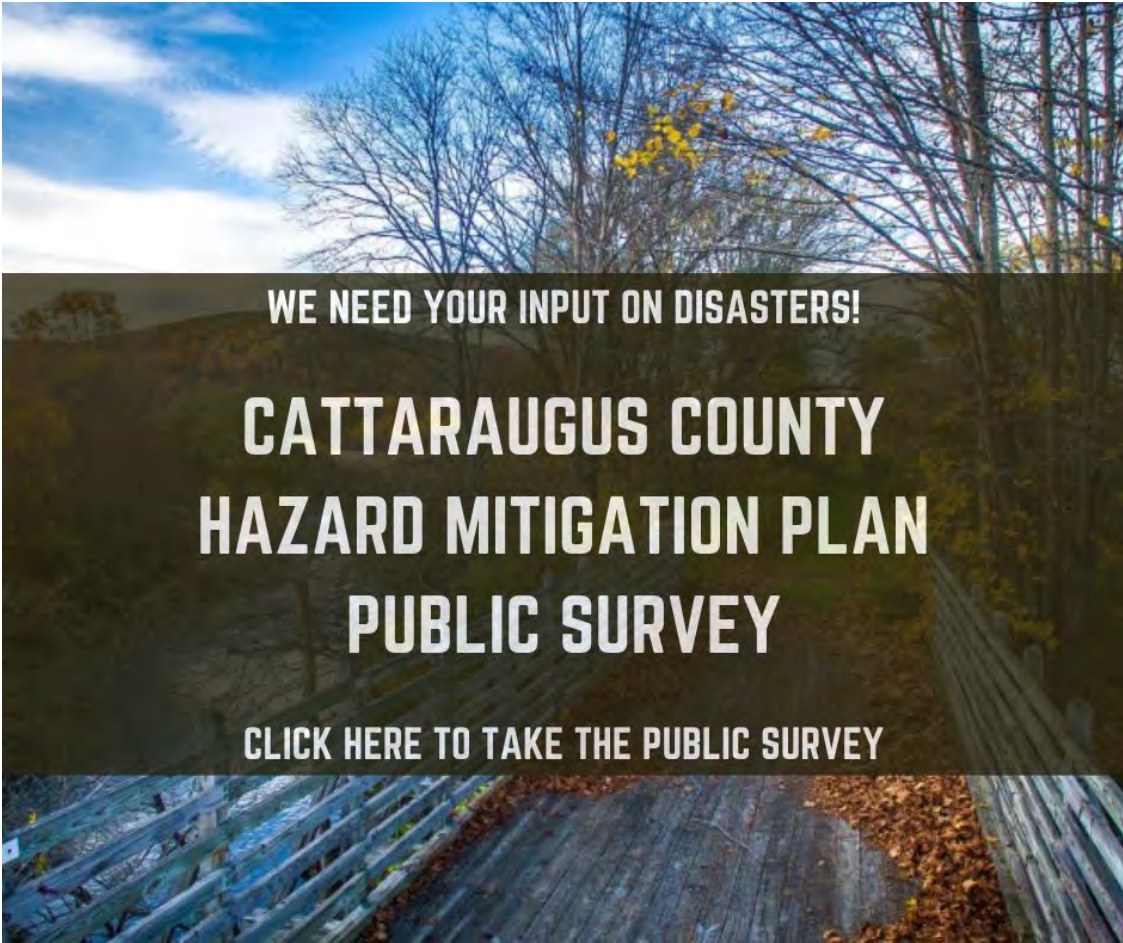
The County is currently updating the Hazard Mitigation Plan. The plan will assess the County's risk to hazards and disasters and develop a blueprint to reduce impacts and protect our county and residents.



TELL US WHAT YOU THINK THE UPDATED PLAN SHOULD FOCUS ON:
<https://bit.ly/3SthNBg>



SCAN ME



WE NEED YOUR INPUT ON DISASTERS!

CATTARAUGUS COUNTY HAZARD MITIGATION PLAN PUBLIC SURVEY

CLICK HERE TO TAKE THE PUBLIC SURVEY



WE NEED YOUR HELP

Cattaraugus 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:

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



CATTARAUGUS COUNTY HAZARD MITIGATION PLAN UPDATE



REPRESENT AN ORGANIZATION OR GROUP THAT
WORKS IN THE COUNTY? WE NEED YOUR HELP!



SCAN THE QR CODE TO TAKE
THE STAKEHOLDER SURVEY



HAZARD MITIGATION PLAN PUBLIC SURVEY

CATTARAUGUS 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://www.surveymonkey.com/r/
CattCoPublicSurvey](https://www.surveymonkey.com/r/CattCoPublicSurvey)





HAZARD MITIGATION PLAN 2025

Cattaraugus 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:

<https://www.cattcohmp.com/>



FOR MORE INFO:

**KIMBERLY MERRILL,
CATTARAUGUS COUNTY
DEPARTMENT OF
PUBLIC WORKS**



kamerrill@cattco.org

CATTARAUGUS COUNTY HAZARD MITIGATION PLAN 2025 UPDATE

CALLING ALL NEIGHBORING COMMUNITIES

Due to your proximity to Cattaraugus County, the effects of a disaster may have similar impacts in your community. Involvement in this process could reap mutual benefits. By participating in the review 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).



SCAN THE QR CODE TO
TAKE THE NEIGHBORING
COMMUNITY SURVEY

Cattaraugus County Hazard Mitigation Plan 2025 Update

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 reducing the effects of natural hazards" (44 CFR 201.6).

The **Hazard Mitigation Plan (HMP)** aims to identify and reduce the vulnerability to hazards to protect the health, safety, quality of life, environment, and economy of the communities within Cattaraugus County. HMPs must be reviewed and updated every five years and formally adopted by each participating jurisdiction. 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.

Cattaraugus County is **required to have a FEMA-approved HMP** to remain eligible to apply for and receive grant funding through certain pre- and post-disaster programs.

For the next few months, Cattaraugus County and its local jurisdictions will be updating the current HMP.

The objectives of this planning process are:

- Provide the public opportunities throughout the planning process to provide input and feedback.
- Conduct a thorough risk assessment using the most recent and best available data.
- Formulate hazard mitigation goals, objectives, and actions as they relate to reducing loss of life and property from natural hazards.
- Reduce long-term impacts and damages to human health and structures, and reduced repair costs.
- Obtain state and federal approval of the HMP.
- Eligibility for federal funds for pre-disaster mitigation planning before disaster strikes.

We want to hear from you! Complete this survey and tell us what hazards you think impact Cattaraugus County.



Check out the County's HMP website to learn more about the HMP -
<https://www.cattcohmp.com/>



WE NEED YOUR



feedback

Join us for a review of the draft
Cattaraugus County Hazard Mitigation Plan
(HMP) on Tuesday, May 20 at 2:00 PM and
6:00 PM through the provided URLs or by
joining us in person at:

101 3rd St, Little Valley, NY 14755

2:00PM Meeting Option

<https://msteams.link/H0X9> 🔍

6:00PM Meeting Option

<https://msteams.link/6GYZ> 🔍

Your Opinion Matters!

Join Cattaraugus County for a review of the draft Hazard Mitigation Plan (HMP) on Tuesday, May 20 at 2:00 PM and 6:00PM at 101 3rd St, Little Valley, NY 14755. Following the meetings, the draft HMP will be available for public review for 30 days on the County's website:

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

2:00PM Option



<https://msteams.link/H0X9>



6:00PM Option



<https://msteams.link/6GYZ>



Join us online through the URLs or by scanning the QR Codes above



WE NEED YOUR



feedback

www.cattcohmp.com



The Cattaraugus County Hazard Mitigation Plan draft is ready for review. The public commenting period is open until

June 20, 2025.

Visit the County HMP webpage to view the draft plan!

Submit your feedback through online survey:

<https://forms.office.com/r/KYaRft3Sft>

Let Us Know!





“

Cattaraugus 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://forms.office.com/r/KYaRft3Sft>



CATTARAUGUS COUNTY

HAZARD MITIGATION PLAN UPDATE



The County needs your help!

The public review period for the draft HMP is open until June 20, 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://forms.office.com/r/KYaRft3Sft>



The Public Review Period is Open!

Visit

**<https://www.cattcohmp.com/draft-plan/>
to review the draft Hazard Mitigation Plan
now through June 20, 2025.**

Access the survey to submit your comments:





Your Opinion Matters!

Join Cattaraugus 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.cattcohmp.com/draft-plan/>

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

<https://forms.office.com/r/KYaRft3Sft>



Social Media Language Templates

Post 1:

Cattaraugus County has updated the County Hazard Mitigation Plan (HMP) and is needing your feedback! If you live or work in Cattaraugus 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/3SthNBg>).

Post 2:

In case you haven't heard, Cattaraugus 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 Cattaraugus County (<https://bit.ly/3SthNBg>).

Post 3:

To help reduce the risks to natural hazards and disasters, Cattaraugus 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/3SthNBg>)

Post 4:

Cattaraugus County needs YOUR input! The County is updating its Hazard Mitigation Plan (HMP) and would like to understand more about how Cattaraugus County residents are prepared for disasters and emergencies. Complete the survey at (<https://bit.ly/3SthNBg>). 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! Cattaraugus 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/3SthNBg>). 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 Cattaraugus County can save up to \$6, for every \$1 spent on mitigating hazards? Saving lives, property, and money is why Cattaraugus County is updating their County Hazard Mitigation Plan (HMP)! Help us understand your communities' concerns by completing a quick survey at – (<https://bit.ly/3SthNBg>). Your responses will help to identify and prioritize actions to make Cattaraugus County more resilient to future disasters!

Post 7:

If you live, work, or play in Cattaraugus County and are interested in learning more about ways your community can reduce impacts to disasters, then we want to hear from YOU! Cattaraugus County is updating their County Hazard Mitigation Plan (HMP) and are wanting your feedback. Take the survey – (<https://bit.ly/3SthNBg>). 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:

Cattaraugus 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 in person at (101 3rd St, Little Valley, NY 14755) or virtually on Tuesday, May 20 at 2:00 PM (<https://msteams.link/H0X9>) and/or 6:00 PM (<https://msteams.link/6GYZ>), 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://forms.office.com/r/KYaRft3Sft>). The draft plan will be available on the County's Hazard Mitigation Plan website (<https://www.cattcohmp.com/draft-plan/>).

Post 9:

ATTENTION!! The Cattaraugus County Hazard Mitigation Plan 2025 Update is now ready for public review! We are asking all residents of Cattaraugus 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 June 20, 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.cattcohmp.com/draft-plan/>

Post 10:

Cattaraugus 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 June 20, 2025. Use this URL to review the plan: <https://www.cattcohmp.com/draft-plan/>

Post 11:

Did you take the Hazard Mitigation Plan survey last year? If so, then check out the draft Cattaraugus 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.cattcohmp.com/draft-plan/>

Press Releases

[Home](#) / [County News](#) / Hazard Mitigation Public Input Needed: Problem Areas Survey

Hazard Mitigation Public Input Needed: Problem Areas Survey

Aug. 13, 2024

News From: Public Works



*Tell us about the ways in which hazards impact your community and/or what needs to be **protected*** by submitting the Problem Areas Survey for the Catt. County Hazard Mitigation Plan Update at <https://arcg.is/Davn9>.

Please identify the location of the problem. You can also drop a pin on the map to show the exact location. After identifying the location, pick the type of problem you face from the dropdown, and tell us about the problem. Finally, if you own the property/location and are interested in learning more about mitigation opportunities such as property acquisition, elevation, or relocation, let us know.

[TAKE THE PROBLEM AREAS SURVEY](#) 

Learn more about the following:

- the [Public Surveys for the County Hazard Mitigation Plan](#) - July 29, 2024
- the Hazard Mitigation Plan update process at CattCoHMP.com

Share on:  

What is the “New Development Survey” for the Hazard Mitigation Plan?

Aug. 9, 2024

News From: Public Works

We would like to have **input from builders on their development projects** in Cattaraugus County for our **Hazard Mitigation Plan Update**.

The **New Development Survey** is intended for developers, construction companies and home builders that are in any of the following stages of developing a property:

- Anticipated
- Approved
- Construction in Progress
- Completed within the last 4 years

[TAKE THE 10-QUESTION SURVEY AT \[HTTPS://ARCG.IS/NSF09\]\(https://ar.cg.is/nsf09\)](https://ar.cg.is/nsf09)



Other surveys as part of the Hazard Mitigation Plan Update

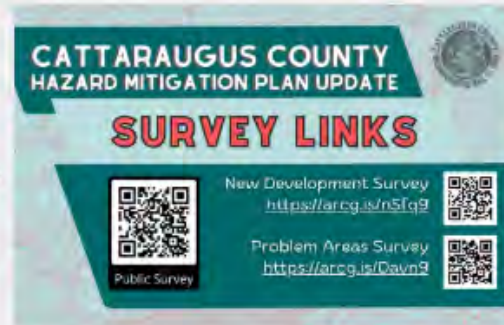
[Public Surveys Available for the County Hazard Mitigation Plan](#)

Public Surveys Available for the County Hazard Mitigation Plan

Jul. 29, 2024

News From: Emergency Services
Public Works

Cattaraugus County has released Public Surveys for the Cattaraugus County Hazard Mitigation Plan Update. Cattaraugus County has assembled a team to *update our hazard mitigation plan which addresses hazards that impact our county and municipalities, school districts, and other jurisdictions. Please help us plan for future disasters by completing this survey regarding hazards in Cattaraugus County.*



Your input is vital to the update process! Use the links below to share experiences and knowledge of natural hazard areas & impacts within your community. Thank you!

Public Survey

Take the Public Survey at <https://www.surveymonkey.com/r/CattCoPublicSurvey>

New Development Survey

Take the New Development Survey at <https://arcg.is/nSfq9>

Problem Areas Survey

Take the Problem Areas Survey at <https://arcg.is/Davn9>

Website for the Hazard Mitigation Plan

Learn more about the Hazard Mitigation Plan at CattCoHMP.com

CATTARAUGUS COUNTY

DEPARTMENT OF PUBLIC WORKS

Development – Progress – Workmanship

Kathleen M. Ellis, Commissioner

Michael J. Prinno, Deputy Commissioner

Phone (716) 938 9121



8810 Route 242, Jack Ellis Drive

Little Valley, New York 14755

Fax (716) 938 2754

May 13, 2025

TO: Municipality Officials/Hazard Mitigation Plan Points of Contact
Hazard Mitigation Plan Update – Core Planning Group Members

**RE: HAZARD MITIGATION PLAN UPDATE
DRAFT PLAN REVIEW MEETING INVITATION**

Thank you for your continued support through the Cattaraugus County Hazard Mitigation Plan update!

The planning process is nearing its end, and we are pleased to announce the Draft Plan Review meetings, which will be held in person at the Little Valley Fire Hall, located at 101 3rd Street, Little Valley, NY 14755 on **Tuesday, May 20 at 2:00 PM** and a second, evening option at **6:00 PM**. **There is also a virtual option to attend both meetings.** Please find enclosed the draft agenda; the virtual meeting access information is included there.

In these meetings, we will review the structure of the draft 2025 Hazard Mitigation Plan, the process of plan adoption, and address any questions or comments on the draft plan. You do not need to attend both meetings, just one is fine!

On Wednesday, May 21, the Public Review Period will commence for 30 days, ending on June 20, 2025. The public and stakeholders are encouraged to participate in this public review period by submitting any comments through this survey (<https://forms.office.com/r/KYaRfi3Sfi>). The draft plan will be available on the mitigation plan website for the County (<https://www.cattcohmp.com/draft-plan/>).

Please find corresponding QR codes below for your convenience:

PUBLIC SURVEY



DRAFT PLAN



If you have any questions, please do not hesitate to reach out directly to Tetra Tech consultants Jessica Stokes or Emily Vassallo, or contact Naomi Gennings or me with Cattaraugus County.

Tetra Tech	Cattaraugus County
Jessica Stokes Hazard Mitigation Project Manager Jessica_Stokes@tetrattech.com 973-630-8017	Kimberly A. Merrill Hazard Mitigation Plan Coordinator Department of Public Works kamerrill@cuttco.org 716-938-2480
Emily Vassallo Lead Planner Emily.Vassallo@tetrattech.com 717-839-5655	Naomi Gennings NIMS Coordinator Office of Emergency Services nagennings@cuttco.org 716-938-2212

Thank you again for your continued time and participation in this update process – it is so valuable for our communities to keep this plan current and in place.

Sincerely,

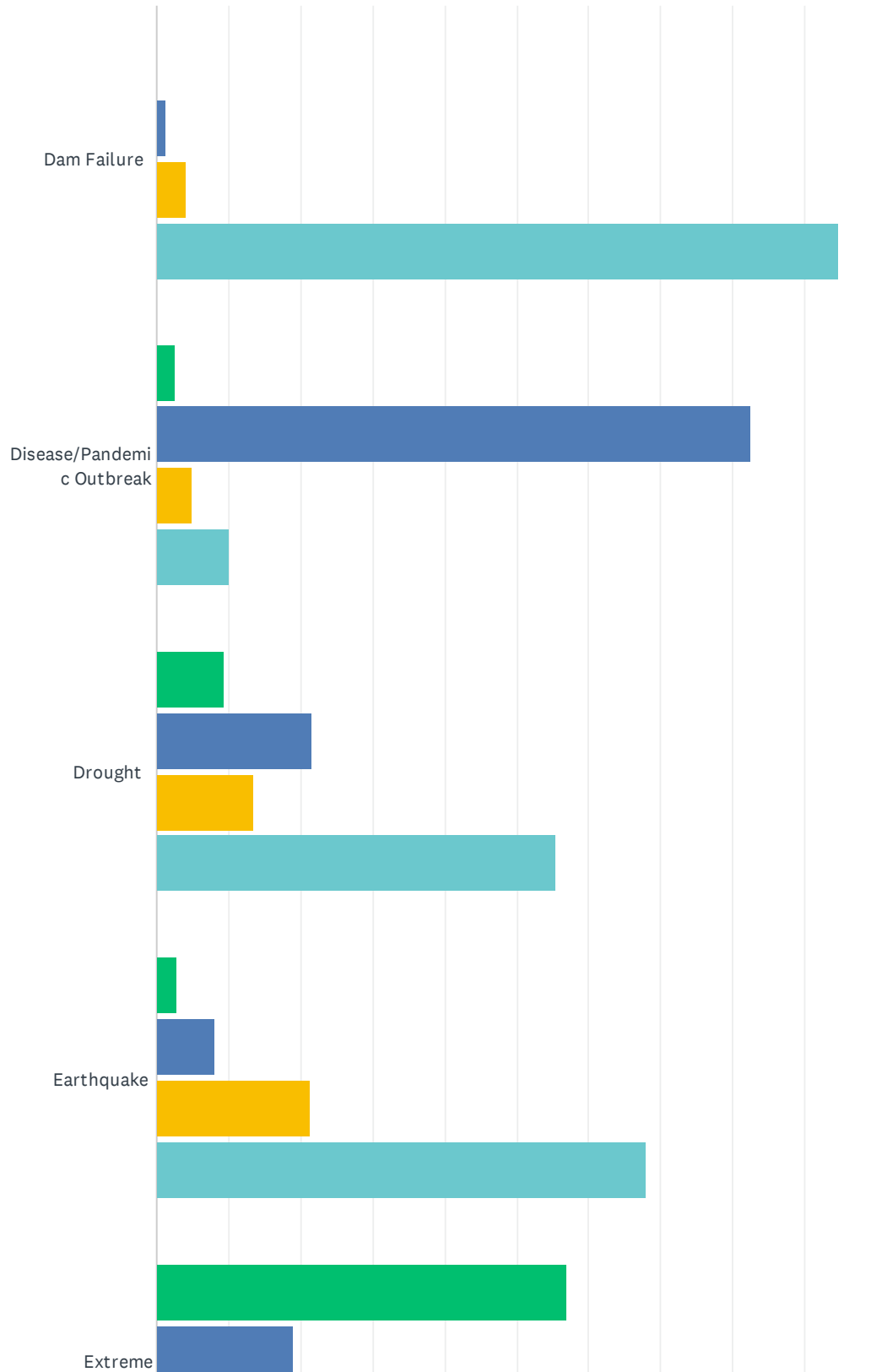


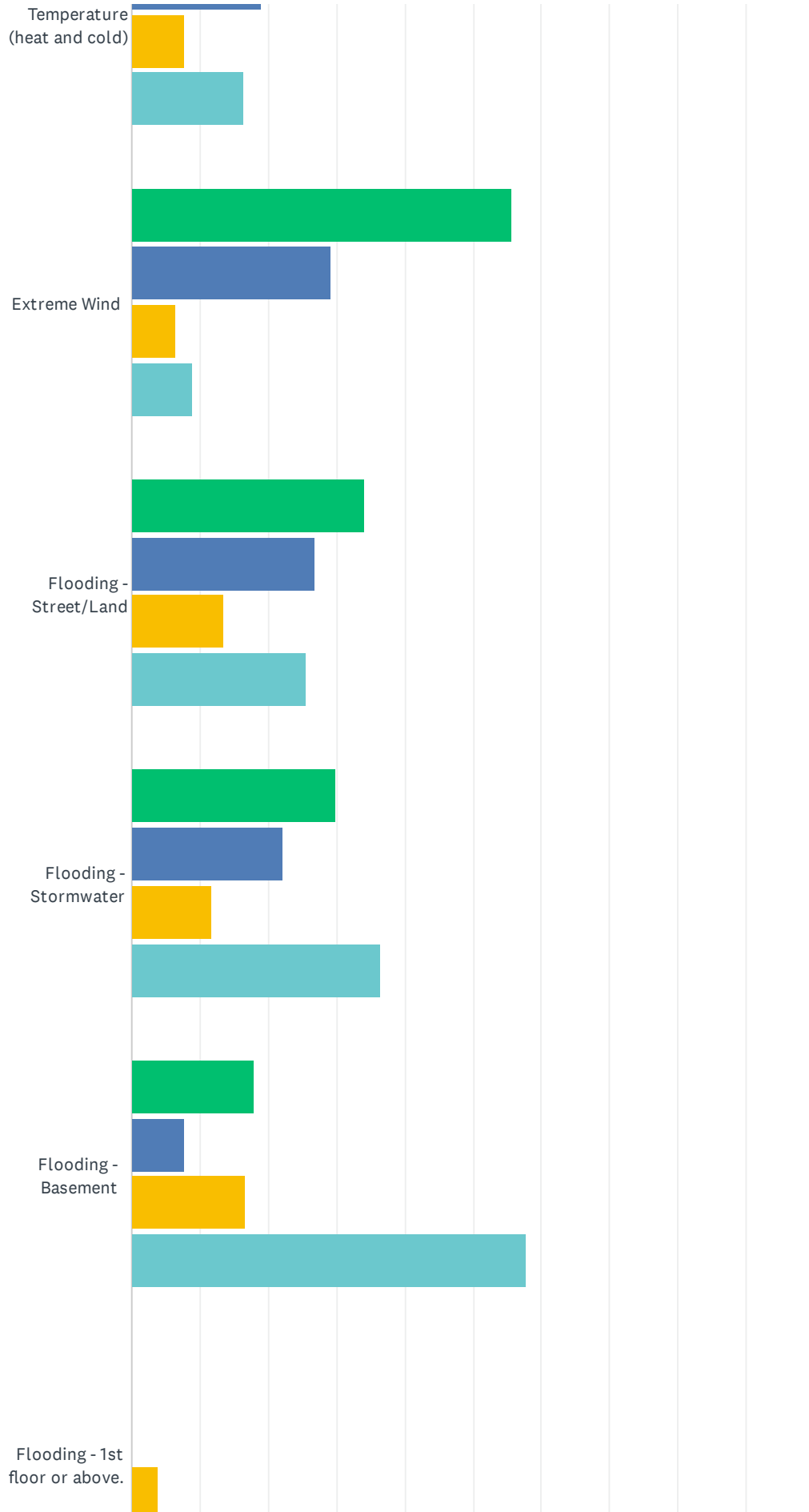
Kimberly A. Merrill
Secretary to the Commissioner

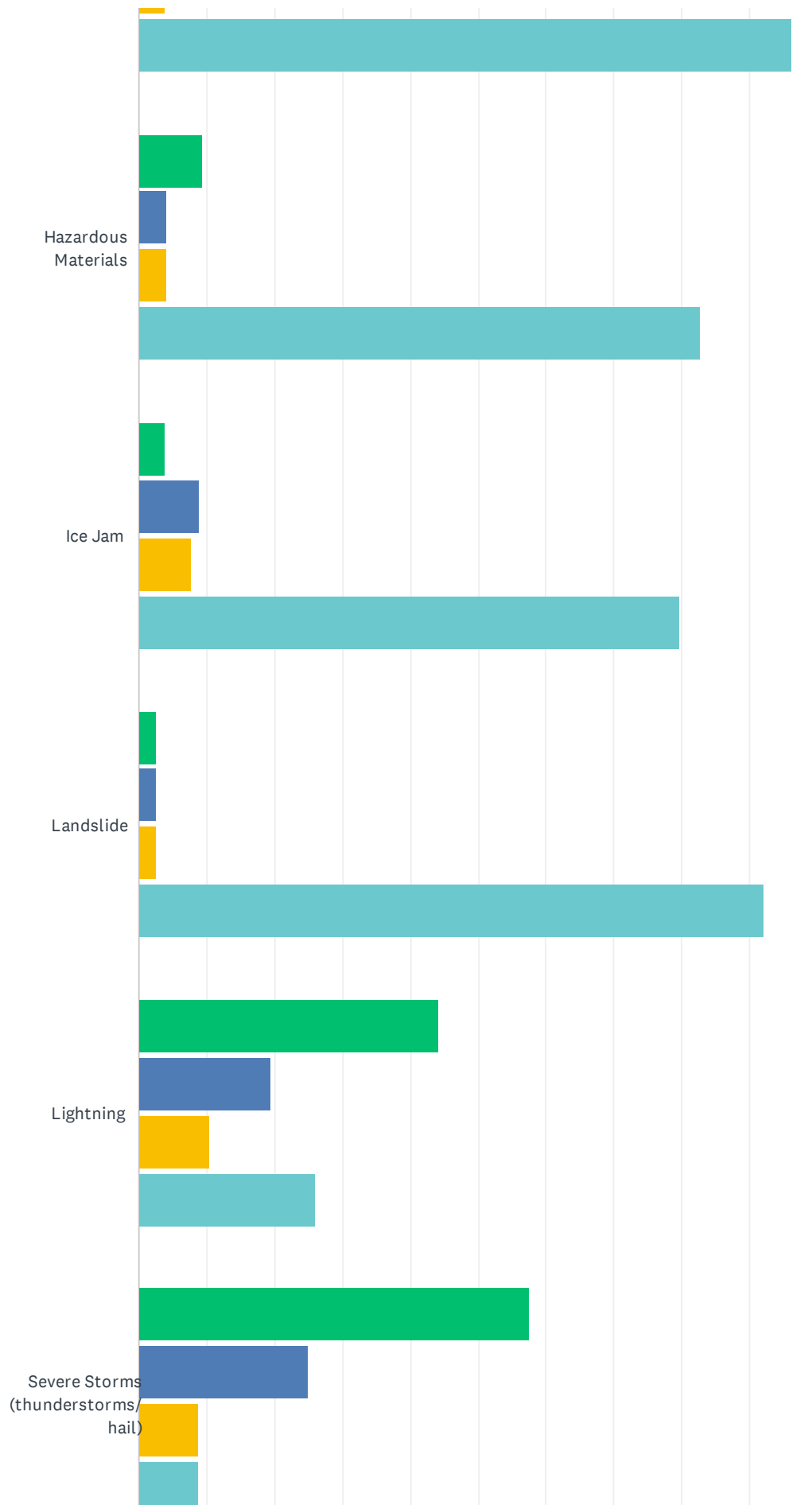
Survey Results

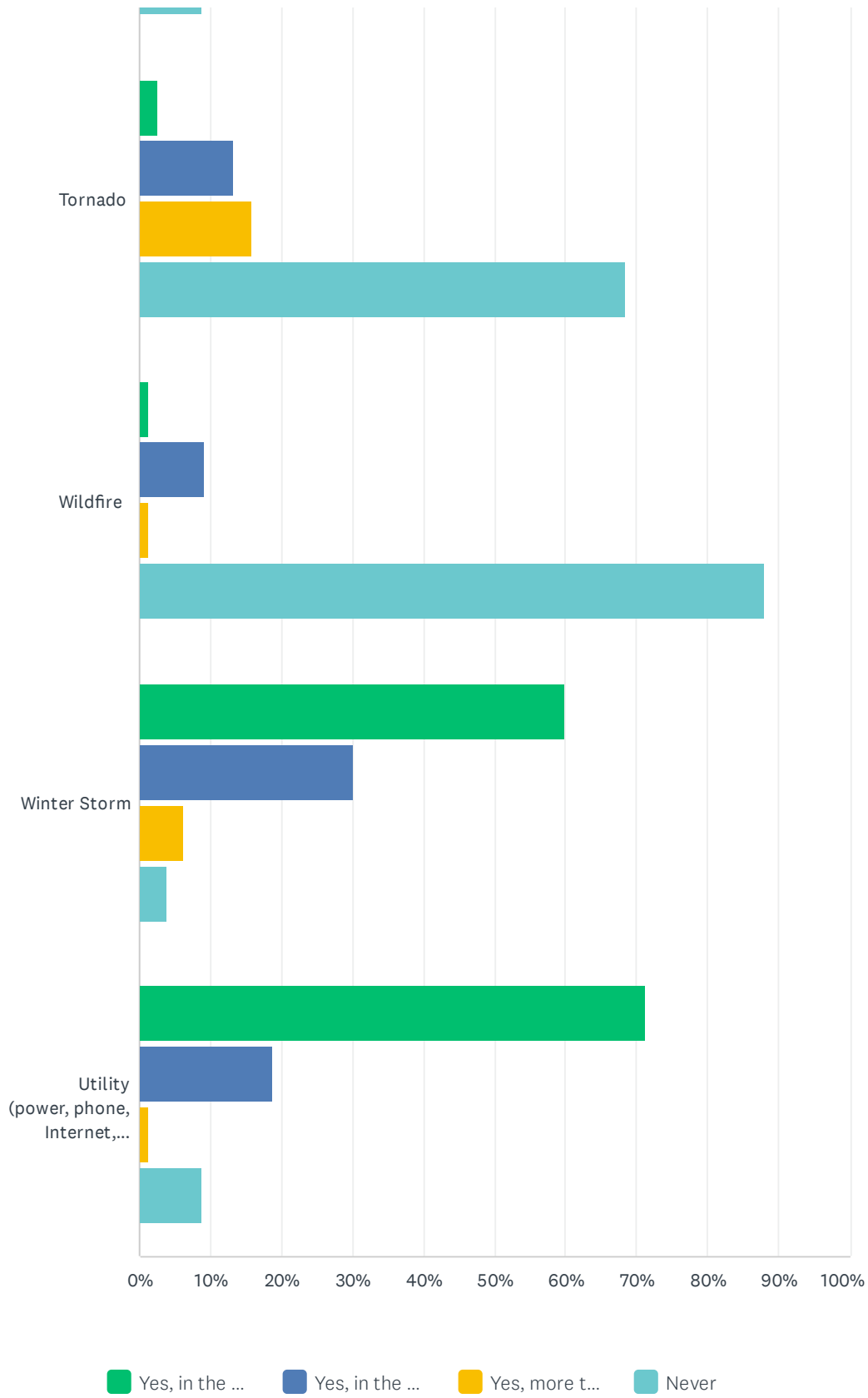
Q1 Which of the following hazard events have you experienced in Cattaraugus County? Check all that apply.

Answered: 83 Skipped: 2





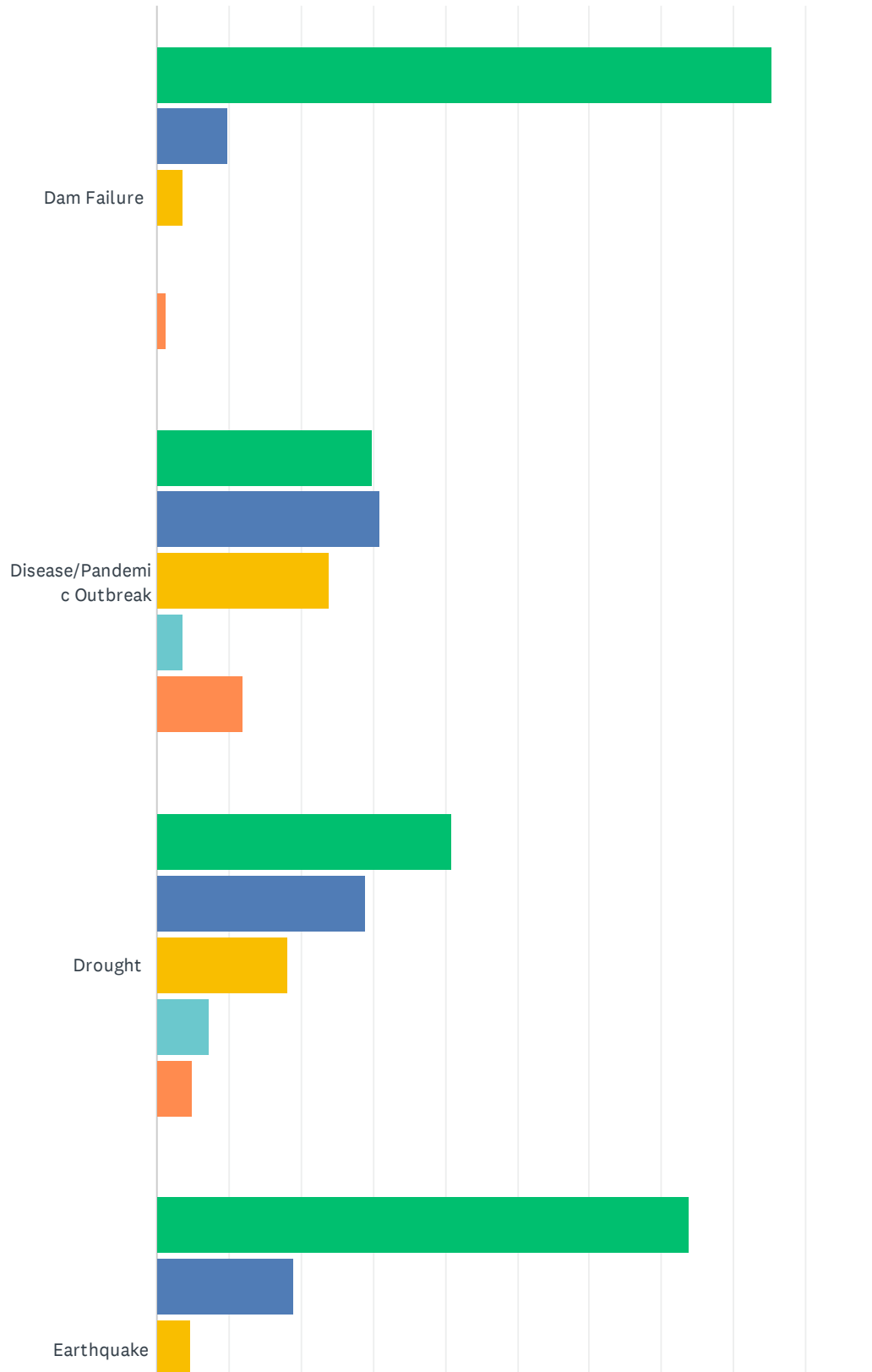


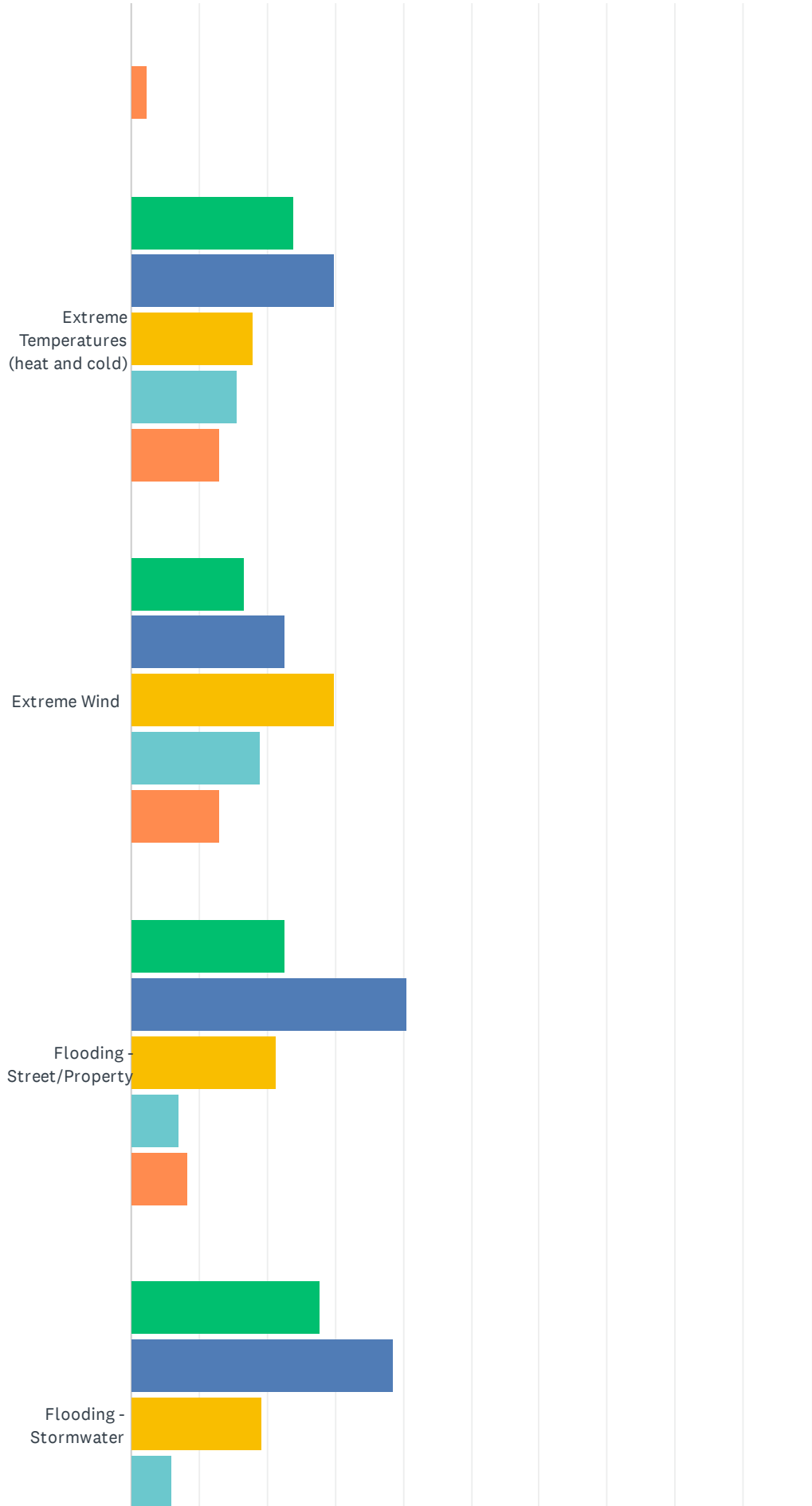


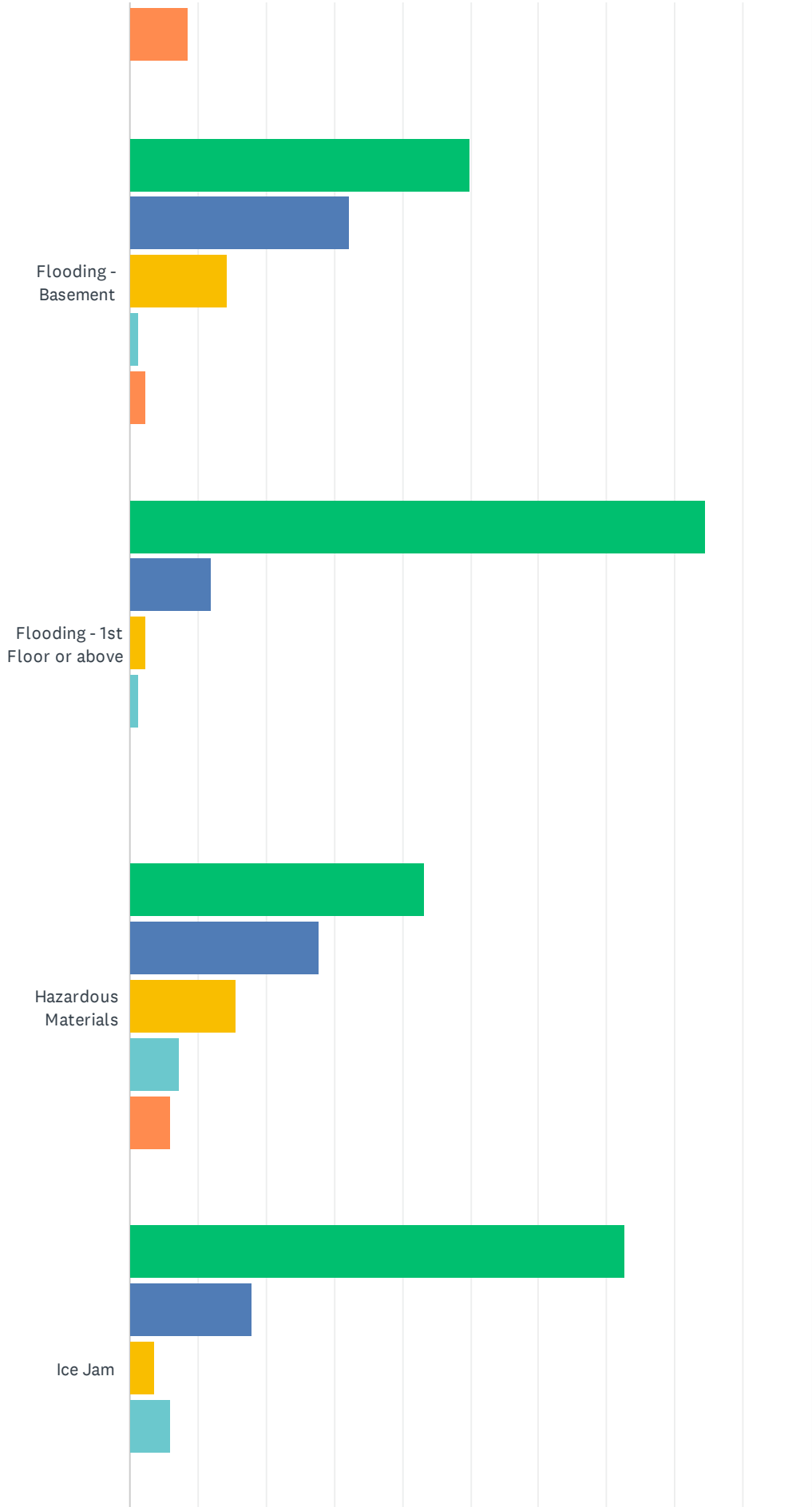
	YES, IN THE PAST YEAR.	YES, IN THE PAST FIVE (5) YEARS.	YES, MORE THAN FIVE (5) YEARS AGO.	NEVER	TOTAL
Dam Failure	0.00% 0	1.32% 1	3.95% 3	94.74% 72	76
Disease/Pandemic Outbreak	2.50% 2	82.50% 66	5.00% 4	10.00% 8	80
Drought	9.46% 7	21.62% 16	13.51% 10	55.41% 41	74
Earthquake	2.67% 2	8.00% 6	21.33% 16	68.00% 51	75
Extreme Temperature (heat and cold)	56.96% 45	18.99% 15	7.59% 6	16.46% 13	79
Extreme Wind	55.70% 44	29.11% 23	6.33% 5	8.86% 7	79
Flooding - Street/Land	34.15% 28	26.83% 22	13.41% 11	25.61% 21	82
Flooding - Stormwater	29.87% 23	22.08% 17	11.69% 9	36.36% 28	77
Flooding - Basement	17.95% 14	7.69% 6	16.67% 13	57.69% 45	78
Flooding - 1st floor or above.	0.00% 0	0.00% 0	3.90% 3	96.10% 74	77
Hazardous Materials	9.33% 7	4.00% 3	4.00% 3	82.67% 62	75
Ice Jam	3.80% 3	8.86% 7	7.59% 6	79.75% 63	79
Landslide	2.60% 2	2.60% 2	2.60% 2	92.21% 71	77
Lightning	44.16% 34	19.48% 15	10.39% 8	25.97% 20	77
Severe Storms (thunderstorms/hail)	57.50% 46	25.00% 20	8.75% 7	8.75% 7	80
Tornado	2.63% 2	13.16% 10	15.79% 12	68.42% 52	76
Wildfire	1.32% 1	9.21% 7	1.32% 1	88.16% 67	76
Winter Storm	60.00% 48	30.00% 24	6.25% 5	3.75% 3	80
Utility (power, phone, Internet, water, sewer) Failure	71.25% 57	18.75% 15	1.25% 1	8.75% 7	80

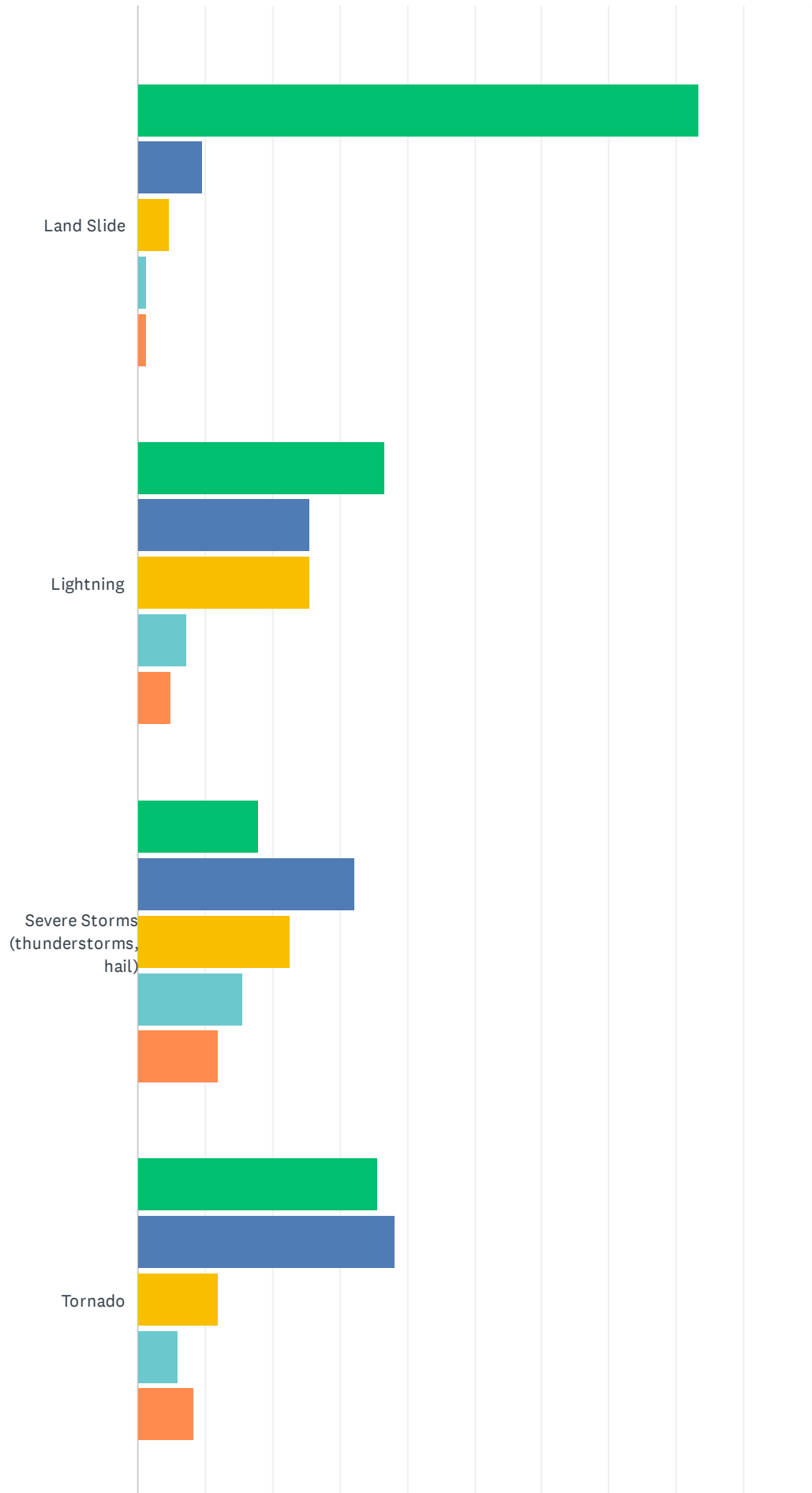
Q2 How concerned are you about the following hazards in Cattaraugus County? Please check one for each hazard.

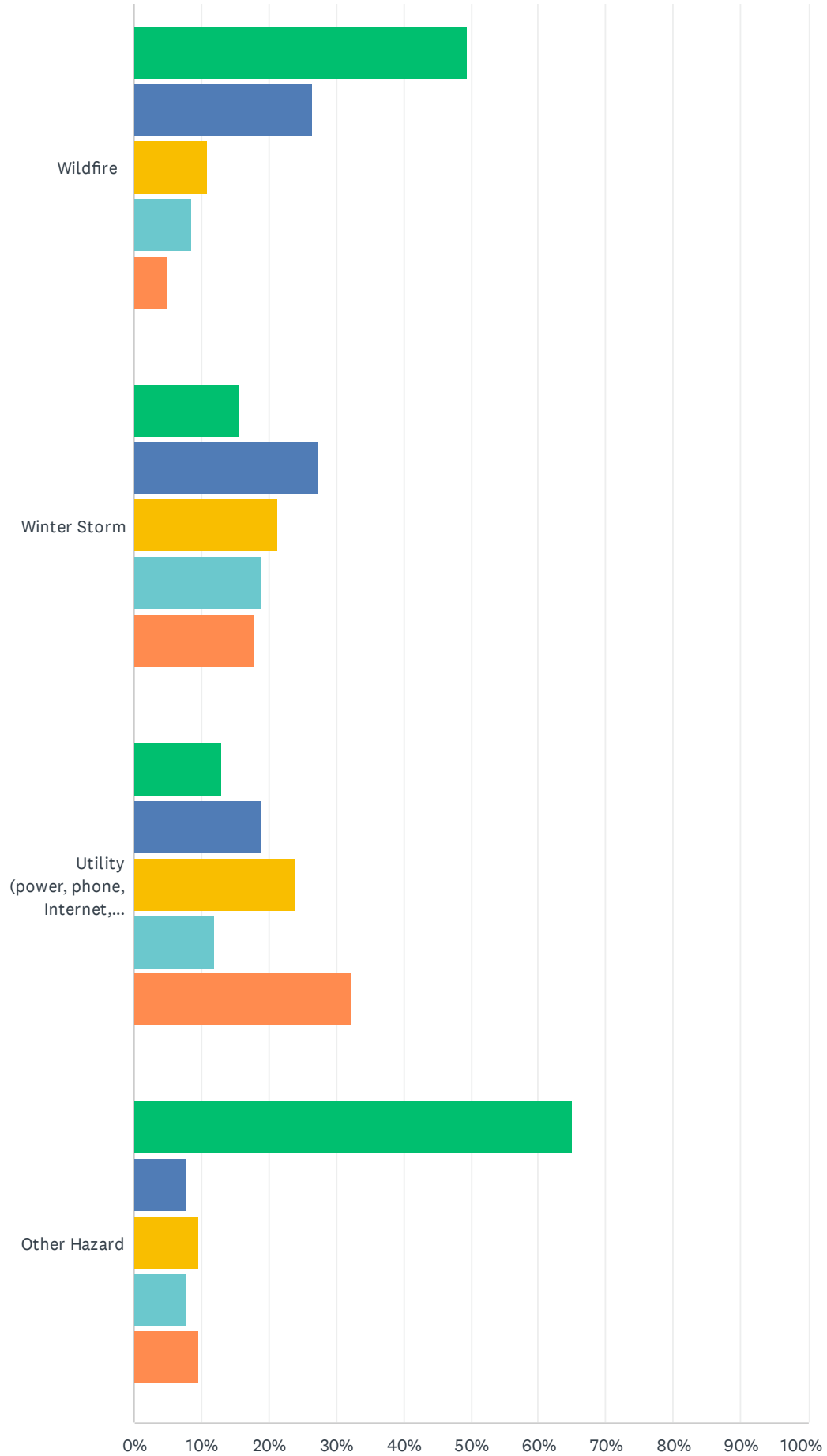
Answered: 84 Skipped: 1













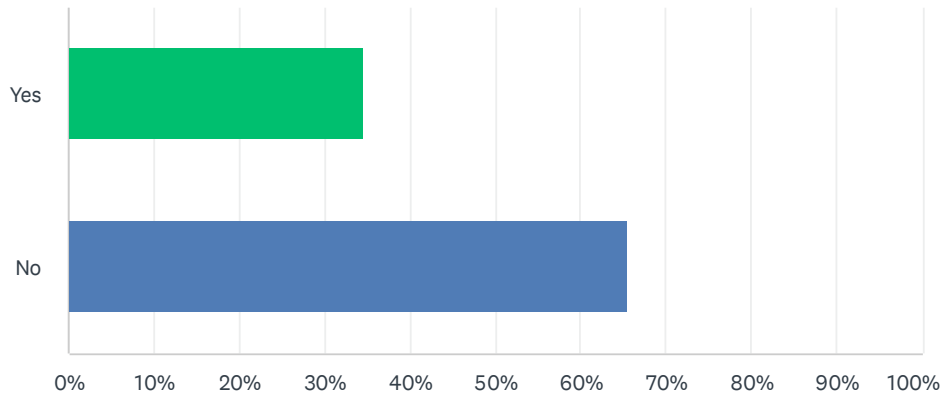
	NOT CONCERNED	SOMEWHAT CONCERNED	CONCERNED	VERY CONCERNED	EXTREMELY CONCERNED	TOTAL RESPONDENTS
Dam Failure	85.37% 70	9.76% 8	3.66% 3	0.00% 0	1.22% 1	82
Disease/Pandemic Outbreak	29.76% 25	30.95% 26	23.81% 20	3.57% 3	11.90% 10	84
Drought	40.96% 34	28.92% 24	18.07% 15	7.23% 6	4.82% 4	83
Earthquake	73.81% 62	19.05% 16	4.76% 4	0.00% 0	2.38% 2	84
Extreme Temperatures (heat and cold)	23.81% 20	29.76% 25	17.86% 15	15.48% 13	13.10% 11	84
Extreme Wind	16.67% 14	22.62% 19	29.76% 25	19.05% 16	13.10% 11	84
Flooding - Street/Property	22.62% 19	40.48% 34	21.43% 18	7.14% 6	8.33% 7	84
Flooding - Stormwater	27.71% 23	38.55% 32	19.28% 16	6.02% 5	8.43% 7	83
Flooding - Basement	50.00% 42	32.14% 27	14.29% 12	1.19% 1	2.38% 2	84
Flooding - 1st Floor or above	84.52% 71	11.90% 10	2.38% 2	1.19% 1	0.00% 0	84
Hazardous Materials	43.37% 36	27.71% 23	15.66% 13	7.23% 6	6.02% 5	83
Ice Jam	72.62% 61	17.86% 15	3.57% 3	5.95% 5	0.00% 0	84
Land Slide	83.33% 70	9.52% 8	4.76% 4	1.19% 1	1.19% 1	84
Lightning	36.59% 30	25.61% 21	25.61% 21	7.32% 6	4.88% 4	82
Severe Storms (thunderstorms, hail)	17.86% 15	32.14% 27	22.62% 19	15.48% 13	11.90% 10	84
Tornado	35.71% 30	38.10% 32	11.90% 10	5.95% 5	8.33% 7	84
Wildfire	49.40% 41	26.51% 22	10.84% 9	8.43% 7	4.82% 4	83
Winter Storm	15.48% 13	27.38% 23	21.43% 18	19.05% 16	17.86% 15	84
Utility (power, phone, Internet, water, sewer) Failure	13.10% 11	19.05% 16	23.81% 20	11.90% 10	32.14% 27	84
Other Hazard	65.08% 41	7.94% 5	9.52% 6	7.94% 5	9.52% 6	63

#	OTHER (PLEASE SPECIFY)	DATE
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1	War	3/15/2025 7:02 AM
2	Extremist political problems/ too many guns/ weapons	3/15/2025 5:20 AM
3	Concerned about City of Olean sewage discharge into the Alleghany River	3/14/2025 8:28 PM
4	Sewer discharge into river after rainfall	3/14/2025 10:21 AM
5	Corruption in the town of franklinville ny	3/14/2025 9:58 AM
6	Pollution of Allegany River.ie-sewer runoff.	3/4/2025 10:58 AM
7	Very concerned Elon Musk just fired a bunch of NOAA workers who keep us safe in weather emergencies!!!!	3/3/2025 5:20 PM
8	Failed infrastructure	2/24/2025 2:49 PM
9	I am concerned the new federal administration will force local entities to ignore weather threats & observations linked to climate change and will repeal efforts to combat those issues, already in place.	2/24/2025 11:31 AM
10	School Shooting - laws to tighten schools security	2/5/2025 3:22 PM
11	political unrest, economic collapse, devaluation of the dollar due to inflation, martial law, elimination of 2nd amendment, forcing of lgbqt+ to use locker rooms/bathrooms/sport teams of opposite gender from the gender assigned at birth	12/17/2024 3:32 PM
12	Abandoned or orphaned wells in the Branford oil field.	8/28/2024 5:05 PM
13	hazardous materials via train cars leaking, spilling, on fire, derailed	8/28/2024 4:21 PM
14	FALLING TREES	8/7/2024 7:14 PM
15	Cut the trees and brush next to Barkz Kennel, located on constitution ave. Someone will get killed pulling out of kennel if this brush is not cut back. I notified City of Olean, but nothing done as of yet. Sad actually.	7/31/2024 5:25 PM
16	Large trucks that carry unknown substances thru our communities.	7/29/2024 2:11 PM

Q3 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: 84 Skipped: 1



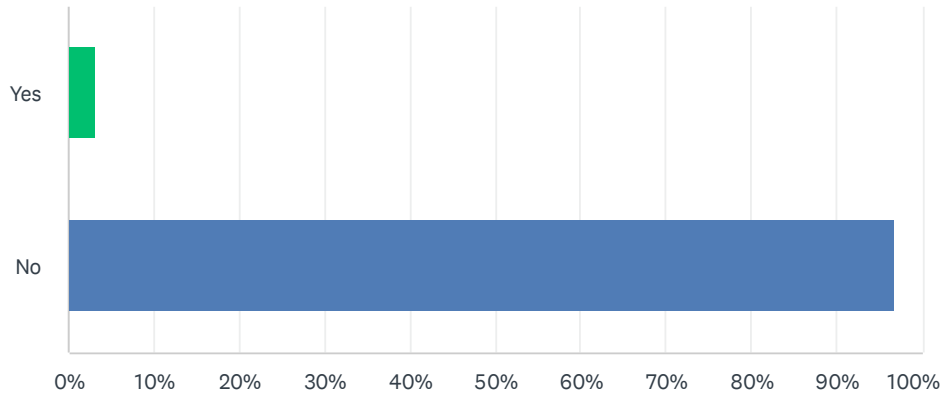
ANSWER CHOICES	RESPONSES
Yes	34.52% 29
No	65.48% 55
TOTAL	84

#	PLEASE IDENTIFY THE TYPE OF HAZARD AND EXPLAIN DAMAGE SUSTAINED AND WHEN IT OCCURRED.	DATE
1	Water lines freezing, resulting in no water service	4/6/2025 6:27 AM
2	Wind took the roof off in November of 2020	3/26/2025 10:15 AM
3	Pipes freezing during winter.	3/15/2025 3:04 PM
4	Flooded basement	3/15/2025 12:32 PM
5	Pipes bursting when frozen	3/15/2025 7:02 AM
6	Frozen pipes bursting. Trees damaging roof from high wind/storm.	3/14/2025 8:44 PM
7	Pipes freezing during cold weather (this winter)	3/14/2025 10:21 AM
8	Pipes freezing, ice dam on roof	3/10/2025 7:50 PM
9	Pipes freezing	3/4/2025 11:07 AM
10	Freezing pipes in winter and flooded basement in summer	3/3/2025 5:20 PM
11	I've had frozen pipes.	2/26/2025 10:28 AM
12	pipes freezing	2/25/2025 6:54 AM
13	Frozen and broken water pipes under my mobile home. The pipes were wrapped with heat tape and insulation.	2/25/2025 6:13 AM
14	In the past I had the gas line freeze that fed my heating system so my house was without heat for 3 days.	2/24/2025 11:57 AM

15	Winter 20023-2024 the winds were so strong they blew in my garage window and broke it. The winds also tear apart steel siding on my barn.	2/12/2025 9:10 AM
16	City of Olean does not have a handle on Storm water and Sanitary sewer issues	2/5/2025 3:22 PM
17	water line to exterior spicket froze and burst, had to replace spicket and part of water line. flood waters washed out driveway and most of road, had to hire contractor with tractor and dump truck to fix.	12/17/2024 3:32 PM
18	freezing pipes	11/26/2024 10:34 AM
19	Broken gutters due to extreme cold about two years ago	11/9/2024 7:34 AM
20	Frozen pipes	11/6/2024 3:01 PM
21	cold temps broke water pipe	9/17/2024 1:57 PM
22	Prior to the new construction 7 years ago, our home would freeze. That was due to the age of the home and the double board construction with lack of insulation.	9/10/2024 4:16 PM
23	This past winter the winds were so strong they blew in my garage window and it broke. I never expected that. Not related to the condition of the window. The frame was fine - the glass flexed and it busted. Extreme winds are now a concern I didn't used to have.	8/28/2024 4:21 PM
24	Winter wind storm blew off metal sheeting on our roof in the winter of 2024.	8/27/2024 11:40 AM
25	Lightning struck our house (telephone pole) twice within a three year period, taking out all of our power, and ruining electronics in the house. This occurred over 10 years ago.	8/26/2024 11:15 AM
26	pipes freezing	8/26/2024 8:36 AM
27	Pipes froze and burst open. Caused damage to house foundation.	8/22/2024 2:31 AM
28	Lightning strike to house.. more than 5 years ago	8/19/2024 9:18 PM
29	Power outage led to frozen baseboard heat pipes which burst due to very cold temps in home.	7/29/2024 7:04 PM
30	Extreme winds took my roof off.	7/29/2024 1:16 PM

Q4 If you answered 'yes' above, did you report the damages to your local police or fire departments or to an emergency management agency?

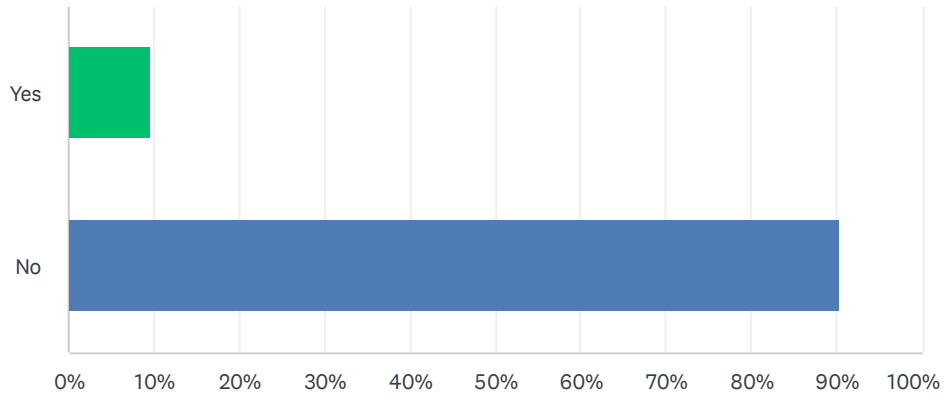
Answered: 61 Skipped: 24



ANSWER CHOICES	RESPONSES	
Yes	3.28%	2
No	96.72%	59
TOTAL		61

Q5 To the best of your knowledge, is your property located in a designated floodplain? If you do not know, click here to find out.

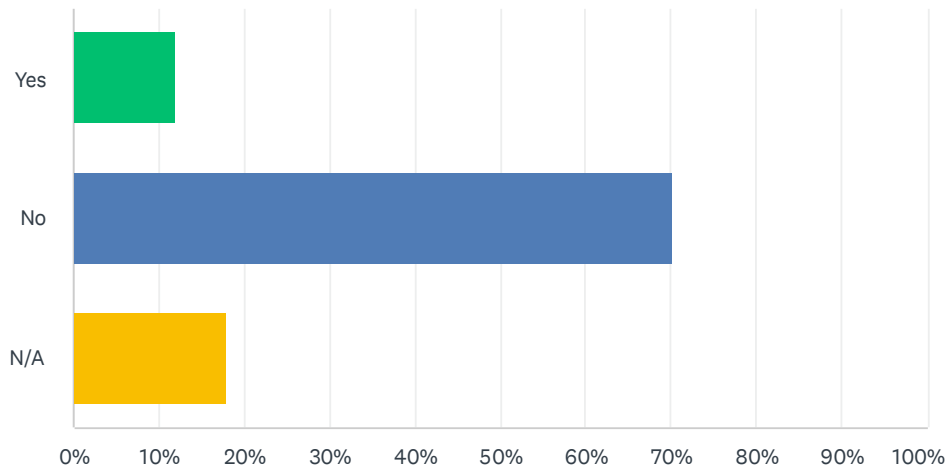
Answered: 84 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	9.52%	8
No	90.48%	76
TOTAL		84

Q6 Do you have flood insurance on your property?

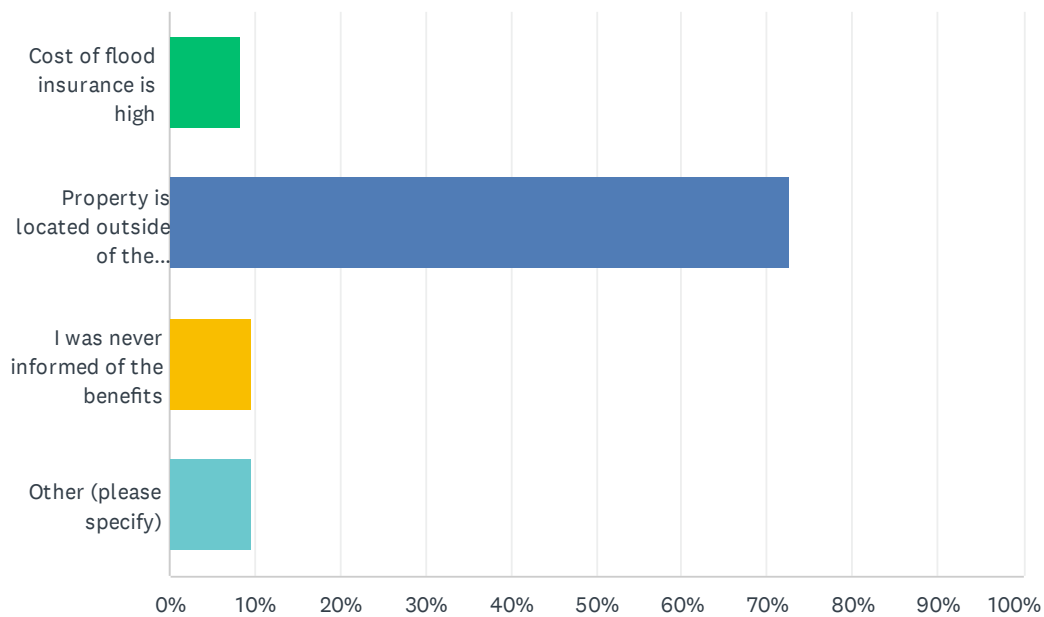
Answered: 84 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	11.90%	10
No	70.24%	59
N/A	17.86%	15
TOTAL		84

Q7 If you do not have flood insurance, please specify the reason(s) why.

Answered: 73 Skipped: 12

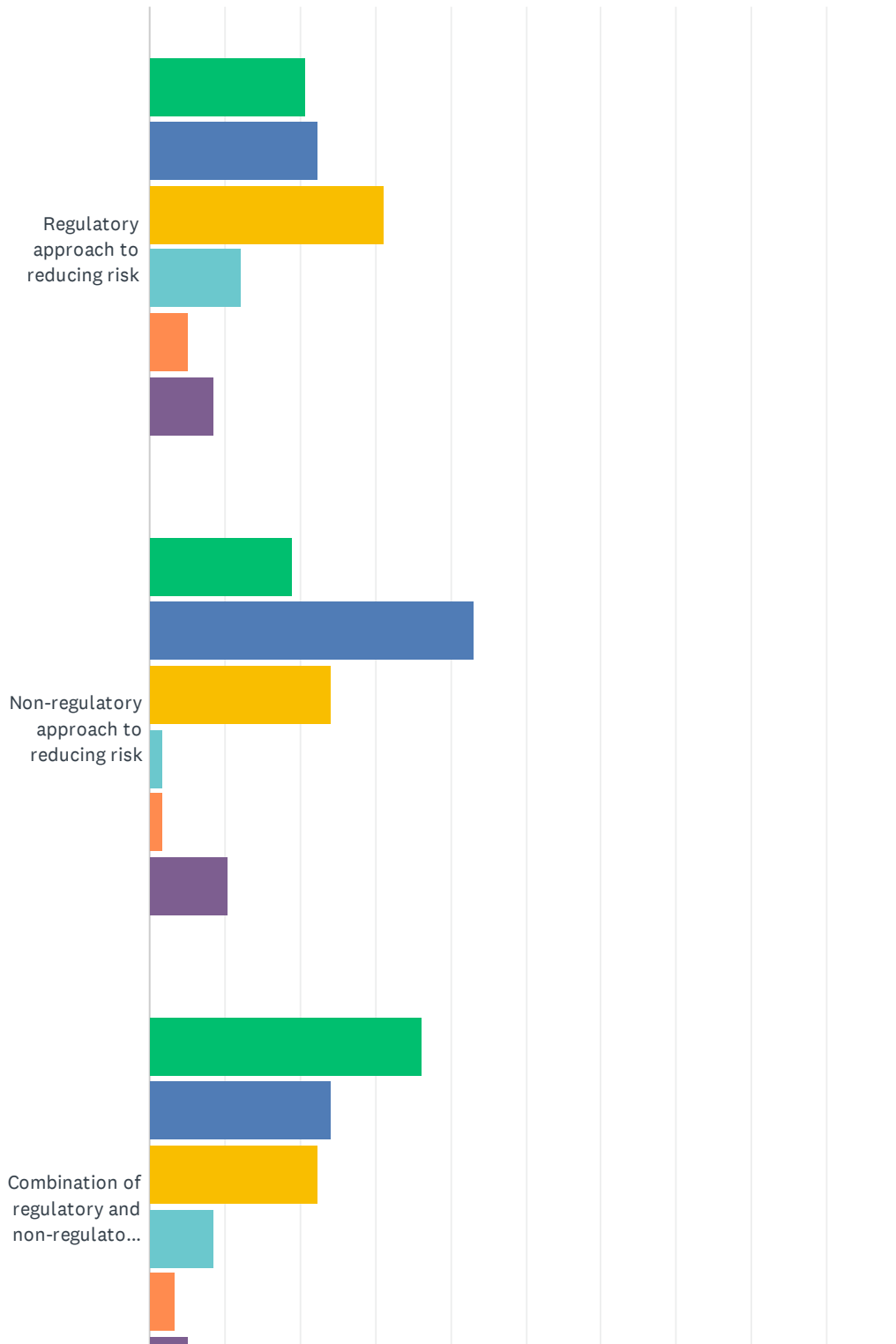


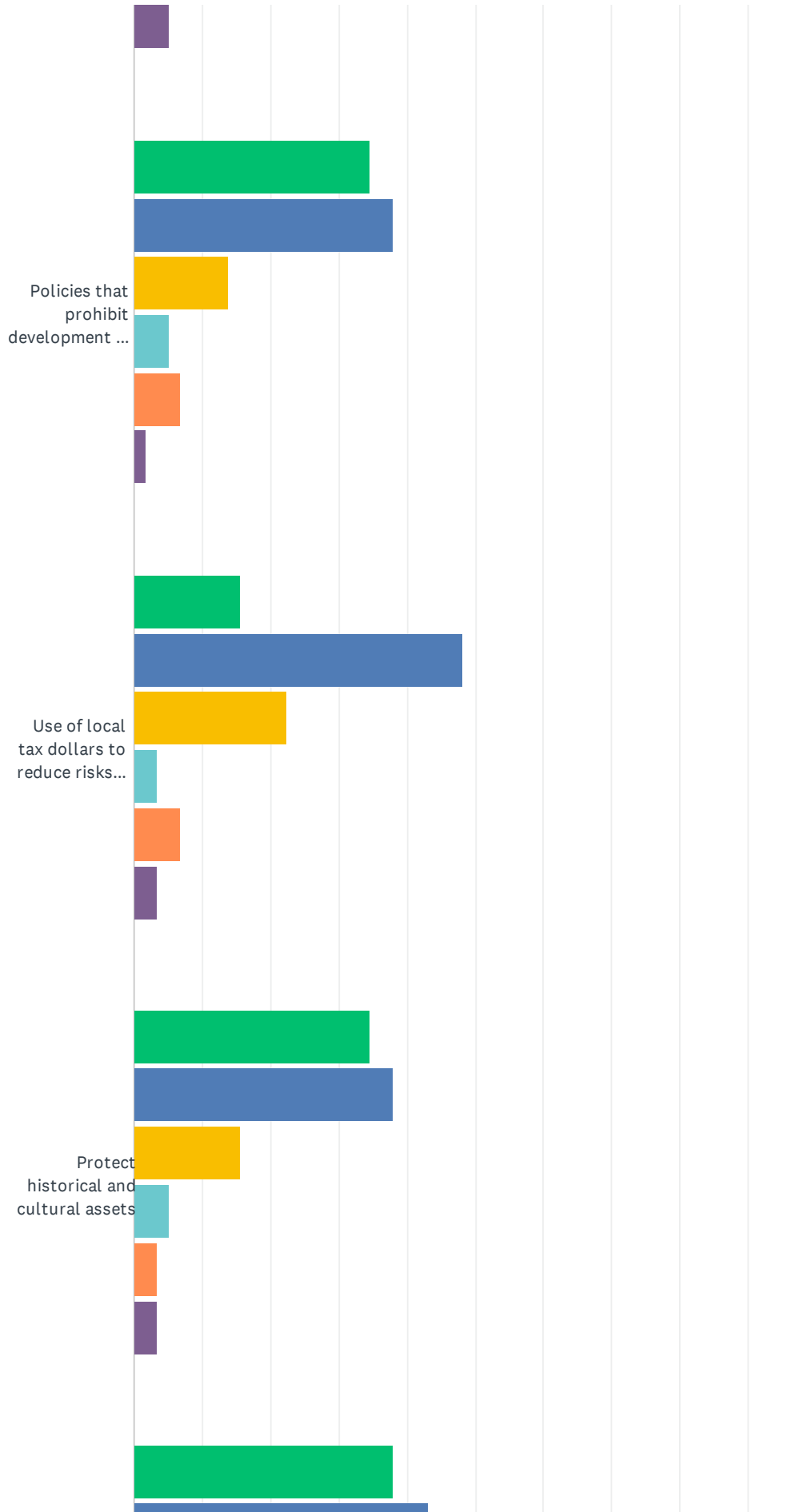
ANSWER CHOICES	RESPONSES
Cost of flood insurance is high	8.22% 6
Property is located outside of the floodplain	72.60% 53
I was never informed of the benefits	9.59% 7
Other (please specify)	9.59% 7
TOTAL	73

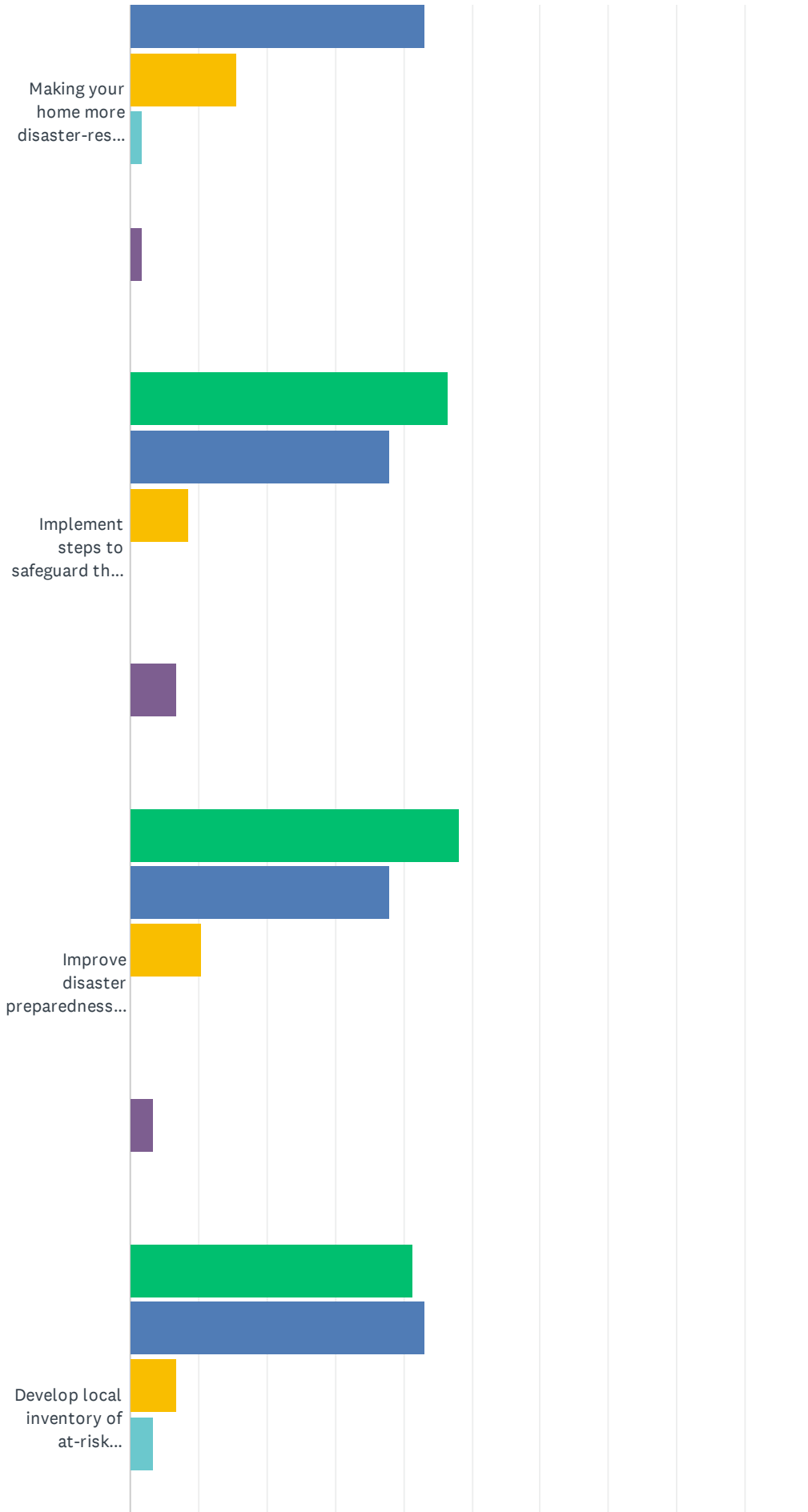
#	OTHER (PLEASE SPECIFY)	DATE
1	I believe we have coverage, very close to the flood plain	3/15/2025 8:38 AM
2	N/A.	3/11/2025 6:00 PM
3	Live on top of hill	3/5/2025 12:02 PM
4	N/A	2/26/2025 10:28 AM
5	N/A	2/24/2025 11:39 AM
6	Only a portion of the property is in a flood plain (Linlyco Lake). The residence is ~20 above the waterline	11/6/2024 3:01 PM
7	My house has never flooded	9/9/2024 11:09 AM

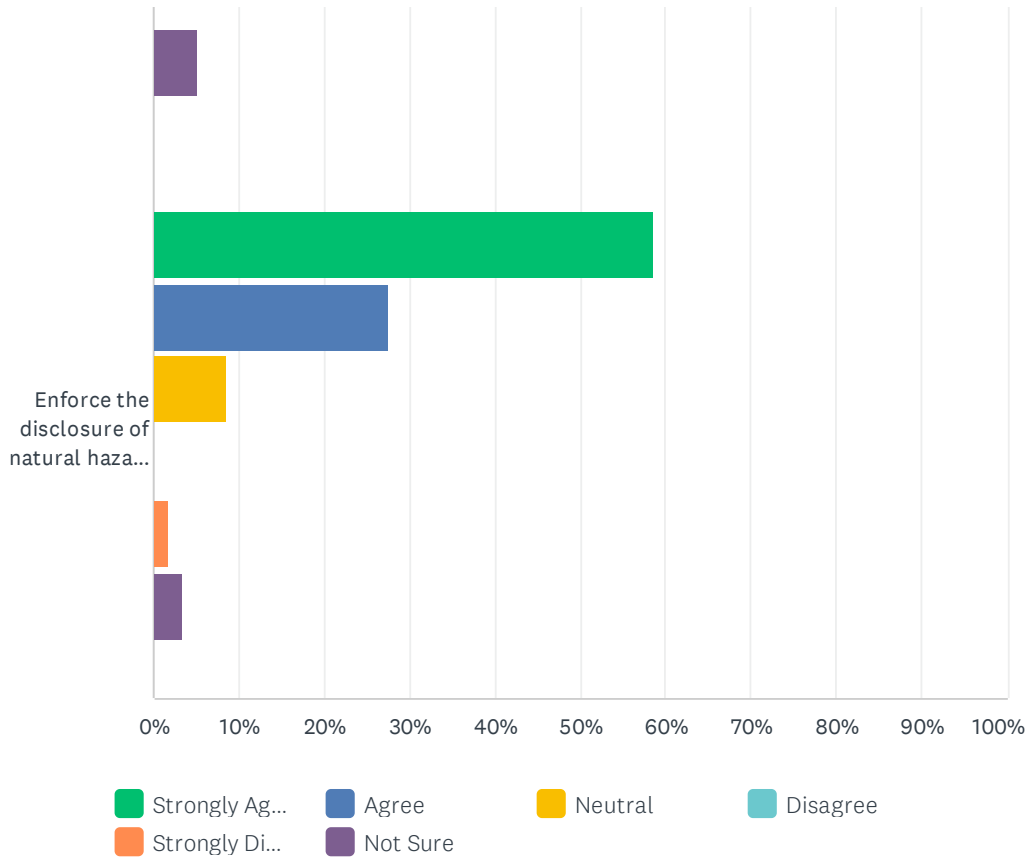
Q8 A number of activities can reduce your community's risk from hazards. These activities can be both regulatory and non-regulatory. Do you agree with the following strategies to reduce the risk and loss associated with hazards in Cattaraugus County?

Answered: 58 Skipped: 27







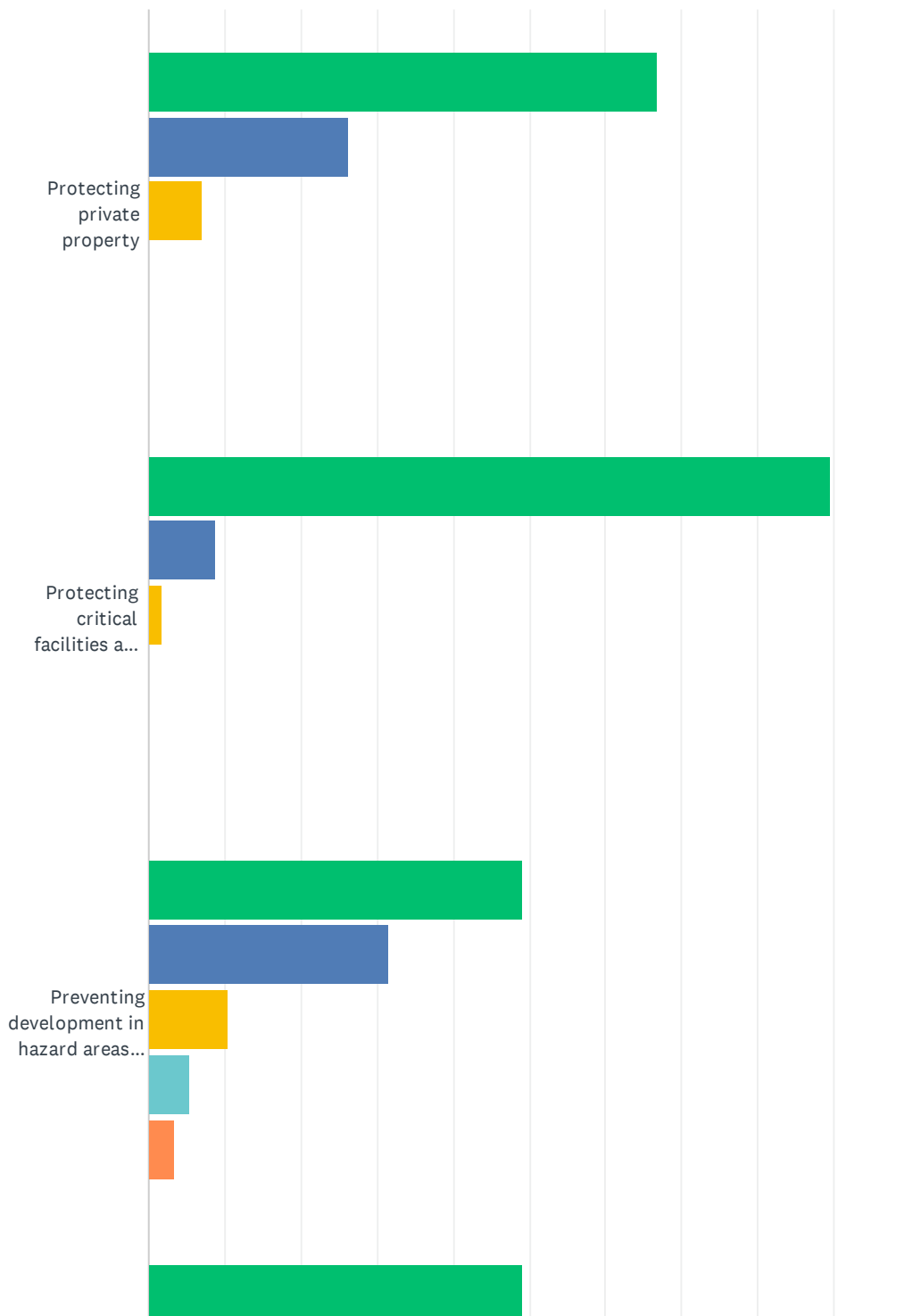


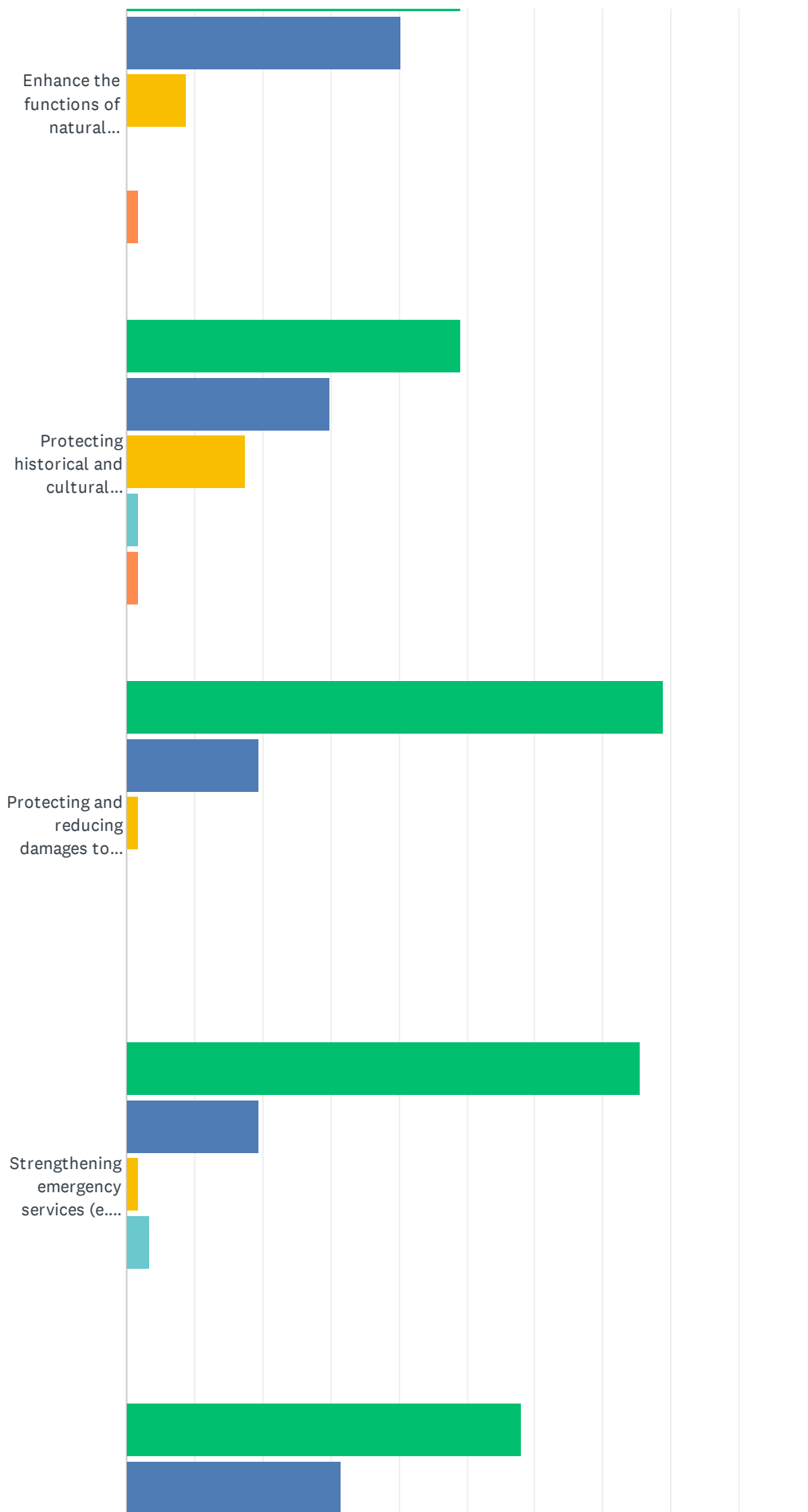
	STRONGLY AGREE	AGREE	NEUTRAL	DISAGREE	STRONGLY DISAGREE	NOT SURE	TOTAL
Regulatory approach to reducing risk	20.69% 12	22.41% 13	31.03% 18	12.07% 7	5.17% 3	8.62% 5	58
Non-regulatory approach to reducing risk	18.97% 11	43.10% 25	24.14% 14	1.72% 1	1.72% 1	10.34% 6	58
Combination of regulatory and non-regulatory approaches to reducing risk	36.21% 21	24.14% 14	22.41% 13	8.62% 5	3.45% 2	5.17% 3	58
Policies that prohibit development in areas subject to natural hazards	34.48% 20	37.93% 22	13.79% 8	5.17% 3	6.90% 4	1.72% 1	58
Use of local tax dollars to reduce risks and losses from natural hazards	15.52% 9	48.28% 28	22.41% 13	3.45% 2	6.90% 4	3.45% 2	58
Protect historical and cultural assets	34.48% 20	37.93% 22	15.52% 9	5.17% 3	3.45% 2	3.45% 2	58
Making your home more disaster-resilient	37.93% 22	43.10% 25	15.52% 9	1.72% 1	0.00% 0	1.72% 1	58
Implement steps to safeguard the local economy following a disaster	46.55% 27	37.93% 22	8.62% 5	0.00% 0	0.00% 0	6.90% 4	58
Improve disaster preparedness of local schools	48.28% 28	37.93% 22	10.34% 6	0.00% 0	0.00% 0	3.45% 2	58
Develop local inventory of at-risk buildings and infrastructure	41.38% 24	43.10% 25	6.90% 4	3.45% 2	0.00% 0	5.17% 3	58
Enforce the disclosure of natural hazard risks during real estate transactions	58.62% 34	27.59% 16	8.62% 5	0.00% 0	1.72% 1	3.45% 2	58

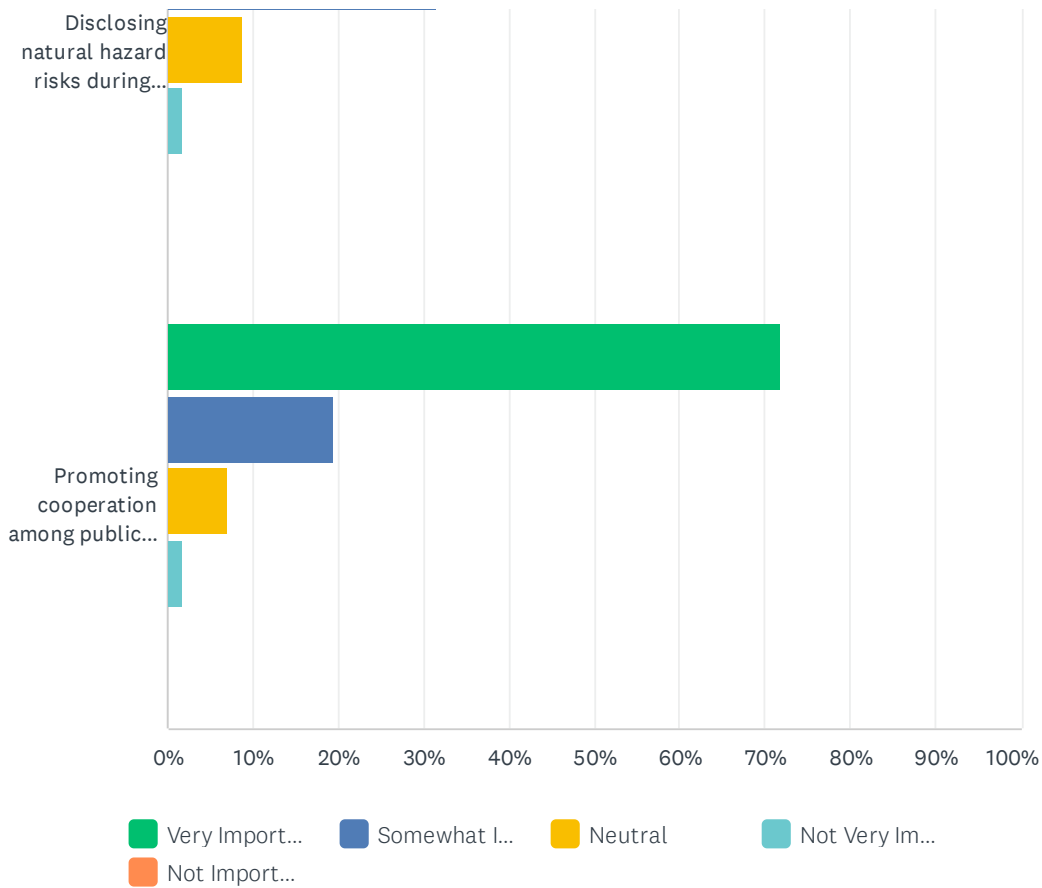
#	OTHER (PLEASE SPECIFY)	DATE
1	Disaster situation to address possible mass feeding of affected population-idea to consider.1)start cooking at many locations.2)must have all local grocery stores to freely open their doors.3)might aid in people panic at time of disaster .	3/4/2025 11:24 AM
2	force insurance companies to actually pay out to fix damaged roofs, houses, buildings in a quick manner instead of deny claims	12/17/2024 3:48 PM
3	2 Maple trees at 179 Maple Street, Allegany Village, NY on the village subway need to be removed. The larger tree is hitting the top of the Beichner Garbage truck as it passes by. Village Board says they have no funds to remove trees. The trees lose multiple branches each year. Nurses attending the homeowner often park beneath the trees. I fear someone or a vehicle will be hurt or damaged. Pleasd find funds for Allegany Village subway tree removal. Thank you.	8/7/2024 7:46 PM

Q9 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 hazards in Cattaraugus County. Please tell us how important each one is to you.

Answered: 57 Skipped: 28







	VERY IMPORTANT	SOMEWHAT IMPORTANT	NEUTRAL	NOT VERY IMPORTANT	NOT IMPORTANT	TOTAL
Protecting private property	66.67% 38	26.32% 15	7.02% 4	0.00% 0	0.00% 0	57
Protecting critical facilities and community lifelines	89.47% 51	8.77% 5	1.75% 1	0.00% 0	0.00% 0	57
Preventing development in hazard areas (e.g., restrict building in the floodplain)	49.12% 28	31.58% 18	10.53% 6	5.26% 3	3.51% 2	57
Enhance the functions of natural features (e.g., streams, wetlands)	49.12% 28	40.35% 23	8.77% 5	0.00% 0	1.75% 1	57
Protecting historical and cultural landmarks	49.12% 28	29.82% 17	17.54% 10	1.75% 1	1.75% 1	57
Protecting and reducing damages to utilities	78.95% 45	19.30% 11	1.75% 1	0.00% 0	0.00% 0	57
Strengthening emergency services (e.g., police, fire, EMS)	75.44% 43	19.30% 11	1.75% 1	3.51% 2	0.00% 0	57
Disclosing natural hazard risks during real estate transactions	57.89% 33	31.58% 18	8.77% 5	1.75% 1	0.00% 0	57
Promoting cooperation among public agencies, residents, non-profit organizations, and local businesses	71.93% 41	19.30% 11	7.02% 4	1.75% 1	0.00% 0	57

#	OTHER (PLEASE SPECIFY)	DATE
1	Can't stress enough the immediate response benefits our communities survival.	3/4/2025 11:24 AM

2	Get Elon Musk to stop gutting our federal systems that help us with weather forecasting and repairing damage after storms!!!!	3/3/2025 5:26 PM
3	strengthening EMS over police and fire, eliminate these one lane roads with roundabouts in Olean, NY that Ambulances can't get through because the curbs lock cars in causing huge delays to the ambulance and medical staff reaching an emergency where seconds count.	12/17/2024 3:48 PM

Q10 Please identify any specific vulnerabilities that you are aware of in or outside of 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: 36 Skipped: 49

#	RESPONSES	DATE
1	Emergency services limitations in the Village of Cattaraugus due to bridges out of service on Jefferson Street and Washington Street	4/6/2025 6:32 AM
2	Route 16 @ Broad Bay Circle routinely floods during storms with heavy rain. Machias Fire Department does not have backup power	3/26/2025 10:20 AM
3	Cant think of a specific one off hand but there are an increase amount of people on the street in olean. There is a camp behind tops and some folks behind the mall by the creek among others. Some of these folks could be very in need of help in case of flooding or disaster (they camp in flood zone).	3/15/2025 9:37 AM
4	I believe Allegany infrastructure is pretty good.	3/15/2025 8:46 AM
5	Power grid	3/15/2025 7:07 AM
6	City of Olean dumps raw sewage in the river when it rains too hard	3/15/2025 5:28 AM
7	Limited power grid infrastructure outside of village of Allegany - throughout surrounding rural areas. We frequently have lost power during rain or snow storms even within the past year.	3/15/2025 3:47 AM
8	Olean - sewer discharges into river due to heavy rainfall	3/14/2025 10:26 AM
9	The town of franklinville corruption along with a county legislator. Doing things for vengeance or their own personal agendas needs to be looked into and not ignored	3/14/2025 10:04 AM
10	Unsure	3/10/2025 7:57 PM
11	ALL CULVERTS NEED CLEANING IN EVERY TOWNSHIP.PHOTOS CAN BE PROVIDED.	3/4/2025 11:24 AM
12	Designated shelters that can house a number of community members. There's is a school but not everyone can commute there. Another facility on the other side of town would help if it was needed	3/4/2025 11:13 AM
13	Specific vulnerability??) DONALD TRUMP and ELON MUSK- they are ruining NOAA's ability to forecast and warn us of weather danger and are gutting the infrastructure needed to help after natural disasters! Their actions will cost people their lives.	3/3/2025 5:26 PM
14	N/A	2/26/2025 11:37 PM
15	None	2/26/2025 10:35 AM
16	None	2/25/2025 6:19 AM
17	Flooding in Mosher Hollow.	2/24/2025 9:23 PM
18	I believe all schools should have back up power to run their entire building and associated utilities.	2/24/2025 2:02 PM
19	seinor citizens housing.	2/24/2025 12:50 PM
20	We're always worried about another catastrophic flood in Thatcher Brook, Gowanda.	2/24/2025 11:45 AM
21	N/A	2/24/2025 11:43 AM
22	There is often flooding or snow blowing across the road on Route 16 near the Broadbay Circle intersection. The rain accumulates there due to poor drainage. Blowing and drifting snow are	2/12/2025 9:27 AM

	also a hazard on Maple Avenue between Union Road and Route 242.	
23	Schools are not ready for a school shooter Schools should be mandated to have so many cameras per sq ft, less doors, Marking on windows indicating room numbers, police access to cameras, additions requiring a security approval	2/5/2025 3:29 PM
24	none at this time	2/3/2025 11:01 AM
25	Union and state streets in Olean, NY. The single lane roads with large curbs and roundabouts have ruined the ability for EMS to get to life threatening health emergencies quickly. At least level out the curbs so vehicles can move out of the way so ambulances can get by. People are dying weekly or undergoing undue stress because of these shrunk down roadways with high curbs.	12/17/2024 3:48 PM
26	N/A	9/9/2024 4:13 PM
27	None	8/31/2024 7:44 AM
28	The city of Olean dumping sewage into the Allegheny river	8/28/2024 5:19 PM
29	Areas prone to white-out conditions due to blowing snow: Route 16 near Broad Bay Circle in Machias; and various sections of Route 242 between Route 16 and Route 219.	8/28/2024 4:36 PM
30	The flood plane in Little Valley has not been re-evaluated in many many years and the current plane does not accurately measure the actually flooding that may or may not happen. Some people that are required to purchase flood insurance with no chance of their property ever flooding and others who are not required to purchase flood insurance and have experienced multiple flood events. These planes need to be reevaluated for the current conditions of the environment.	8/27/2024 12:39 PM
31	Sewage from the City of Olean discharging into the Allegany River.	8/22/2024 2:41 AM
32	Loss of power a lot of times	8/19/2024 7:56 PM
33	Allegany Village authorities tell me they have no funds to remove trees on subways. 2 Maple trees at 179 N. 2ND Street need to be removed. Branches hit top of Beichner Garbage truck when they pass through. Also Nurses attending residenet and resident's family members often park under said trees. Someone or a vehicle is going to get hurt or damaged from constant falling branches. Please find funding for Allegany Village subway tree removal. Thank you.	8/7/2024 7:46 PM
34	The overall electric infrastructure in our area is substandard and needs to be updated. In Otto, Cattaraugus and Little Valley, electricity goes out frequently during wind storms or winter storms.	7/29/2024 7:11 PM
35	n/a	7/29/2024 3:10 PM
36	Machias NY, Lime-Lake Elton Rd. My yard floods like a pond when there's heavy rain	7/29/2024 1:21 PM

Q11 Critical facilities are defined by FEMA as those structures from which essential services and functions for survival, continuation of public safety actions, and disaster recovery are performed or provided. examples include shelters, emergency operation centers; public health, public drinking water, sewer and wastewater facilities are all examples of critical facilities. Have you ever had difficulty or could not access a critical facility within your community? Please elaborate below.

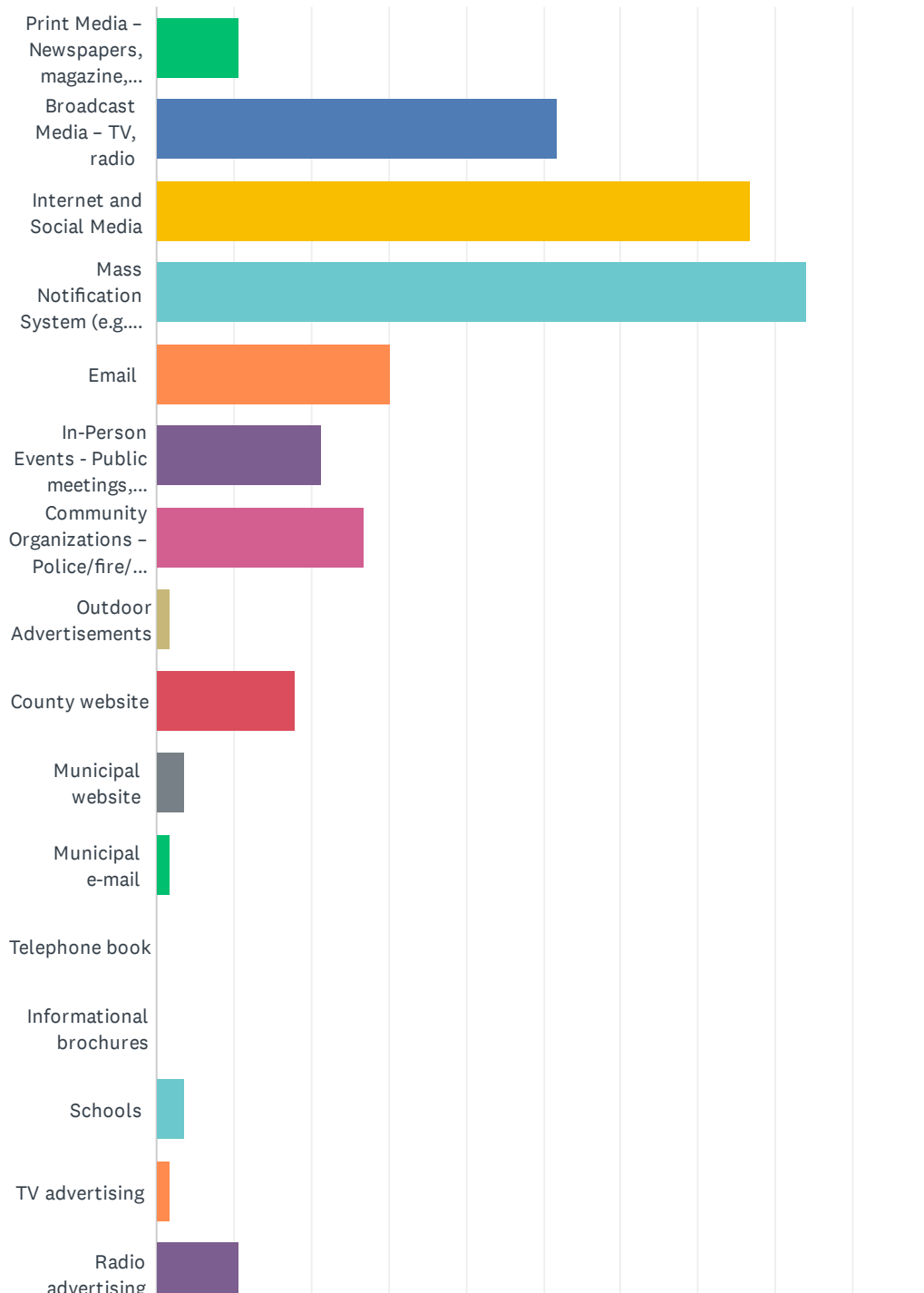
Answered: 39 Skipped: 46

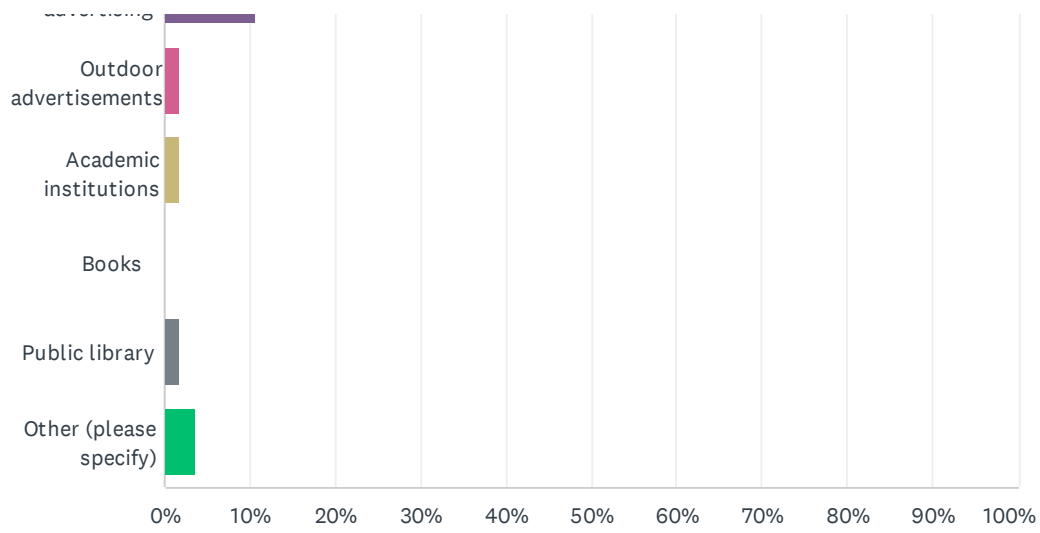
#	RESPONSES	DATE
1	No	4/6/2025 6:32 AM
2	No	3/26/2025 10:20 AM
3	The city of olean offers critical facilities and leaves them closed, generally speaking yes it can be difficult to find a public facility. For water or rest room. I think there should be a place in olean (and other spots in the county)where filtered water could be purchased by the gallon. In other states there is water available to purchase all over the place, right out front of grocery stores. I think a similar water source available near UPC/blue bird square, a grocery or the public library would be a good idea, fairly priced filtered water.	3/15/2025 9:37 AM
4	Never been without access	3/15/2025 8:46 AM
5	Have never tried, as I do not know where these facilities exist	3/15/2025 7:07 AM
6	No	3/15/2025 5:28 AM
7	No	3/15/2025 3:47 AM
8	Not that I can recall	3/14/2025 8:54 PM
9	No	3/10/2025 7:57 PM
10	Not in cattaraugus co.	3/4/2025 11:24 AM
11	No	3/4/2025 11:13 AM
12	No- but get ready- Trump is slashing FEMA funding!	3/3/2025 5:26 PM
13	No	2/26/2025 11:37 PM
14	No	2/26/2025 10:35 AM
15	No	2/25/2025 6:19 AM
16	No	2/24/2025 9:23 PM
17	No	2/24/2025 12:50 PM
18	During one of the prolonged power outages within the last year it took awhile before a warming shelter was opened up in our area.	2/24/2025 12:05 PM
19	It's an absolute disaster DAILY that Gowanda no longer has a hospital. The urgent care is a JOKE- limited hours, even more limited services & diagnostics. Heart attacks don't always happen between 9am-4pm.	2/24/2025 11:45 AM
20	No	2/24/2025 11:43 AM
21	I do not even know where the closest shelter is in my town.	2/12/2025 9:27 AM
22	no	2/3/2025 11:01 AM

23	Most heavy snowstorms I can't reach basic necessities such as food or medication because the snowplow trucks aren't sent out in a timely fashion. The delay is typically only 24 hours though.	12/17/2024 3:48 PM
24	Don't even know that we have these. Where they are at	11/26/2024 10:40 AM
25	No previous difficulties encountered.	11/6/2024 3:07 PM
26	N/A	9/9/2024 4:13 PM
27	Sewage drainage into the Allegany river.	9/9/2024 11:14 AM
28	No	8/31/2024 7:44 AM
29	n/a	8/28/2024 4:36 PM
30	N/A	8/27/2024 12:39 PM
31	No	8/22/2024 2:41 AM
32	I don't know we're one would be in my community	8/19/2024 7:56 PM
33	If FLOURIDE helps people, is it medicinal? If it is added to community sources to help people, the answer is that it is medicinal. Therefore FLUORIDE should not be added to any community water source. Each community should be allowed a referendum to vote this matter. No community has the right to put a medicinal additive in the public drinking water without the consent of THE PEOPLE.	8/7/2024 7:46 PM
34	As stated in previous answer, electric outage during cold weather caused inability to keep home above freezing which led to frozen and exploding pipes and could have led to death.	7/29/2024 7:11 PM
35	I am not aware of where our emergency operation center would be or where to go during an emergency.	7/29/2024 7:09 PM
36	no	7/29/2024 3:10 PM
37	None	7/29/2024 1:58 PM
38	No	7/29/2024 1:49 PM
39	No	7/29/2024 1:21 PM

Q12 Effective communication and information sharing is crucial for communities to improve their hazard awareness and readiness, enhance response and recovery efforts, and build long-term resiliency. To ensure information is being shared effectively, identify the top three (3) methods for emergency communication and information sharing that will help you before, during, and after a disaster:

Answered: 56 Skipped: 29



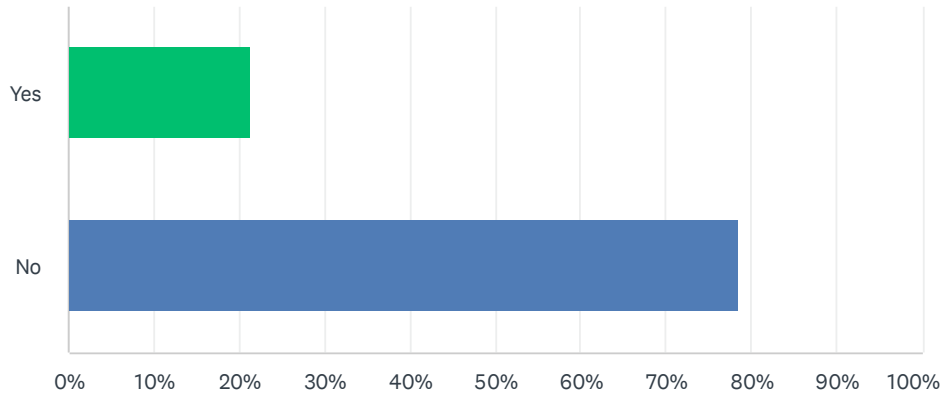


ANSWER CHOICES	RESPONSES	
Print Media – Newspapers, magazine, brochures, flyers	10.71%	6
Broadcast Media – TV, radio	51.79%	29
Internet and Social Media	76.79%	43
Mass Notification System (e.g., NY Alert, or other phone notification system)	83.93%	47
Email	30.36%	17
In-Person Events - Public meetings, workshops, briefings	21.43%	12
Community Organizations – Police/fire/EMS, schools, libraries, churches, etc.	26.79%	15
Outdoor Advertisements	1.79%	1
County website	17.86%	10
Municipal website	3.57%	2
Municipal e-mail	1.79%	1
Telephone book	0.00%	0
Informational brochures	0.00%	0
Schools	3.57%	2
TV advertising	1.79%	1
Radio advertising	10.71%	6
Outdoor advertisements	1.79%	1
Academic institutions	1.79%	1
Books	0.00%	0
Public library	1.79%	1
Other (please specify)	3.57%	2
Total Respondents: 56		

#	OTHER (PLEASE SPECIFY)	DATE
1	Creating a “chain of command” to inform city of olean alderman (for example) with a phone call chain could be good. Something where common folks that local people could reach out to for information regarding resources and places of meeting during a disaster. Designated community safety personal or response teams that could work with community parties to organize community preparedness and response actions.	3/15/2025 9:37 AM
2	All the above.were talking in a disaster here!	3/4/2025 11:24 AM

Q13 Would you prefer information or communications be shared in a language other than English?

Answered: 56 Skipped: 29



ANSWER CHOICES	RESPONSES	
Yes	21.43%	12
No	78.57%	44
TOTAL		56

Q14 Do you have any other comments, questions, or concerns regarding hazard mitigation in Cattaraugus County?

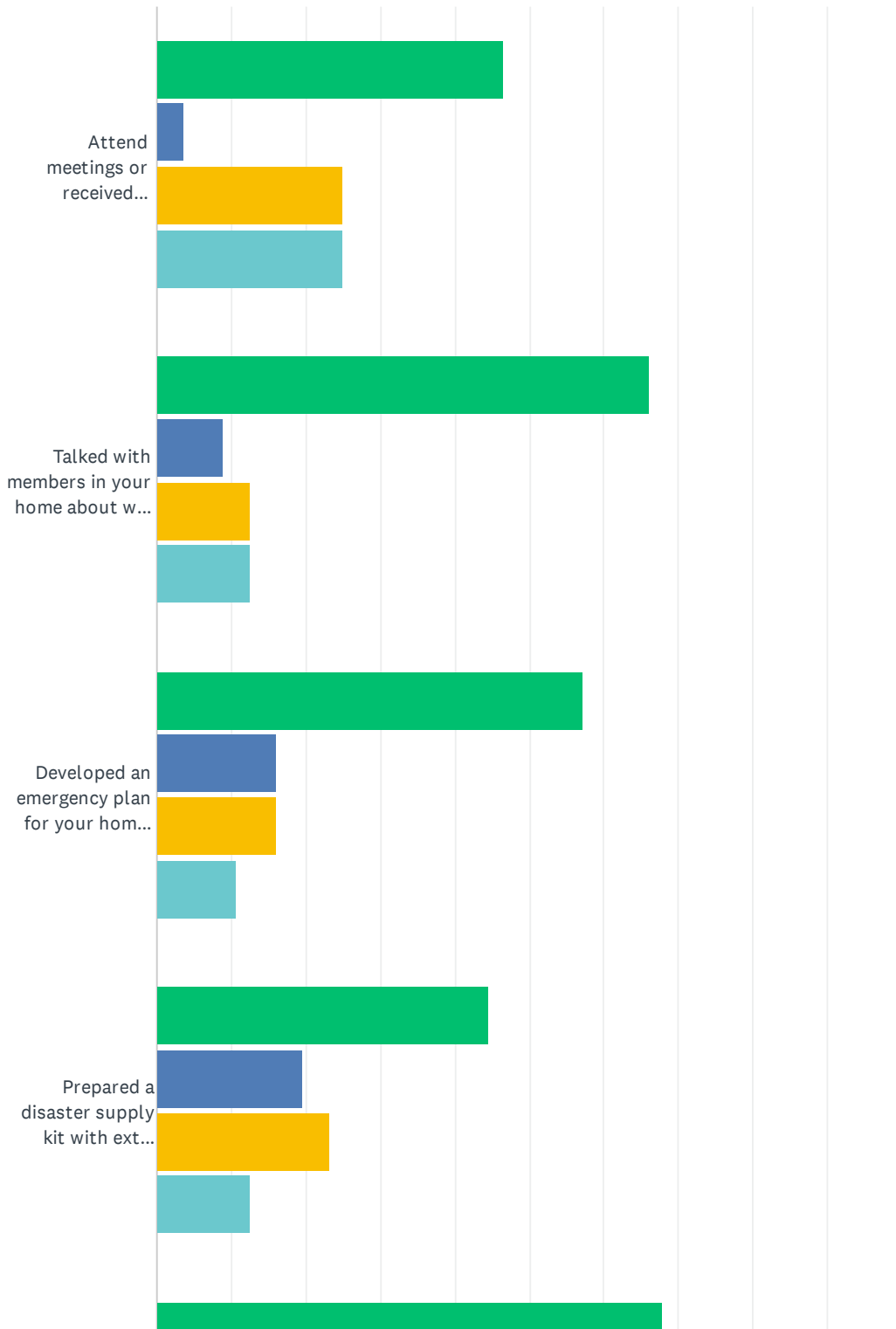
Answered: 35 Skipped: 50

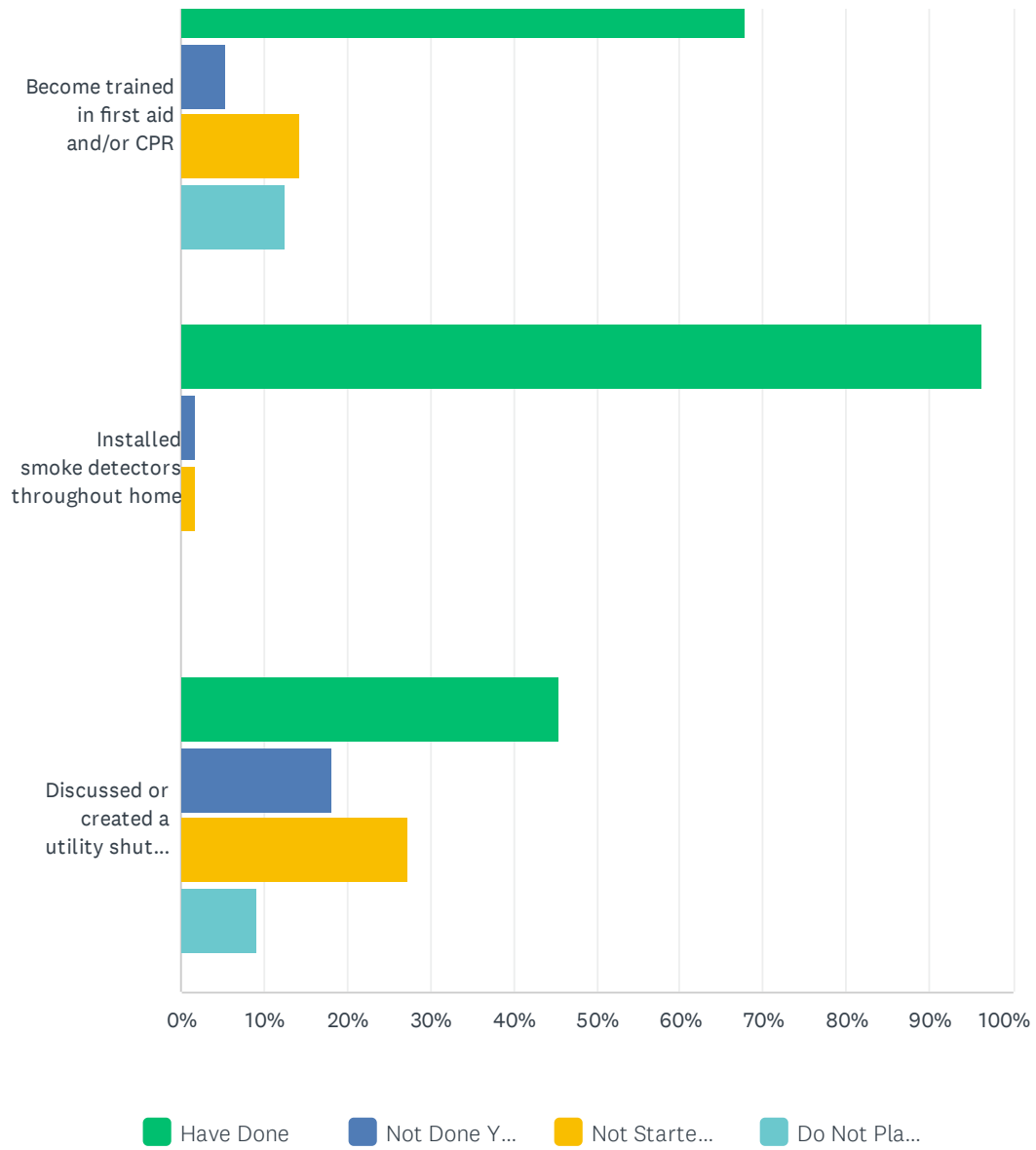
#	RESPONSES	DATE
1	Concern for landside impact. Many roads in the area are sinking and moving.	4/6/2025 6:32 AM
2	Keep posting updates on this. Changes and updates	3/26/2025 10:20 AM
3	Quite frankly i have gone to school extensively for urban survival, wilderness survival and community preparedness. It's all stuff i do think about relatively frequently. I have lived in many regions of the US and localized Flooding is a risk in olean, I do not know of any type of plan that exists for the average person if there is flooding. If catastrophic flooding occurs in the city where are people supposed to meet? If one of the flood dikes fail what is the plan? Is there a facility on higher ground that can be designated to house displaced individuals without putting them at further risk? The hospital in olean is near the olean creek, i personally do not know how protected it would be from flood or if it would be a decent place to expect to bring people during an emergency. It seems like it would be at risk to flooding. I have watched flash floods occur first hand in catt county and they can be devastating fast, i think doing more to educate folks about what to do during a flood, Where to go and possibly prepare to offer resources of education to prevent mold and health issues after flooding. Sometimes the flood happens fast and people are ok but this year in olean the flooding caused severe mold issues. The mold issue itself is something a lot of people could get a handle on if specific practices were included in information about "civilian flood preparedness and response". An education campaign of sorts could be a slow costly thing but these floods are getting worse and our geography and terrain is defined by erosion.	3/15/2025 9:37 AM
4	No	3/15/2025 8:46 AM
5	Letting people know where emergency shelters are	3/15/2025 7:07 AM
6	I'm concerned about our forests. We need to protect biodiversity and the scientists who are most knowledgeable about our region.	3/15/2025 5:28 AM
7	No.	3/15/2025 3:47 AM
8	N/A.	3/11/2025 6:03 PM
9	No	3/10/2025 7:57 PM
10	Yes I do.A)Alllegany River needs identifying "zone"markers.ie-like mile markers on our roads.WHY-car or kayakers accident would reduce response time.	3/4/2025 11:24 AM
11	Not at this time	3/4/2025 11:13 AM
12	We really need to step up locally because our federal government is turning their backs on us and cutting necessary funding!	3/3/2025 5:26 PM
13	No	2/26/2025 11:37 PM
14	No	2/26/2025 10:35 AM
15	No	2/25/2025 6:19 AM
16	No	2/24/2025 12:50 PM
17	No	2/24/2025 12:05 PM
18	No	2/24/2025 11:45 AM
19	No	2/24/2025 11:43 AM
20	It would be nice if residents outside of Ashford learn about the potential hazards and mitigation plan for the West Valley Demonstration Project site.	2/12/2025 9:27 AM

21	Stream bed elimination of down trees that hold ice dams	2/5/2025 3:29 PM
22	no	2/3/2025 11:01 AM
23	Can we stop shrinking down our roads in Olean, NY and jail whoever approved of these tight single lane roads and roundabouts with huge curbs that larger trucks, let alone ambulances can barely squeeze through?	12/17/2024 3:48 PM
24	None.	11/6/2024 3:07 PM
25	None	8/31/2024 7:44 AM
26	there are thousands of abandoned oil wells throughout the southern area of the county, some that are leaking crude oil onto the surface and into streams.	8/28/2024 5:19 PM
27	I think the public should be given information about the natural disasters that face our area and any corresponding trends that occurring. Such as increase in tornado watches/warnings, increase number of extreme heat days, drought conditions over the decade	8/28/2024 4:36 PM
28	No	8/22/2024 2:41 AM
29	No	8/20/2024 4:24 PM
30	Hope I never need help	8/19/2024 7:56 PM
31	Please find funding for Allegany NY Village for removal of subway trees. I am a 34 year homeowner in the Village of Allegany. There are many subway trees that need to be removed for the safety of people and their vehicles. Thank you.	8/7/2024 7:46 PM
32	No	7/29/2024 7:11 PM
33	none	7/29/2024 3:10 PM
34	No	7/29/2024 1:49 PM
35	No	7/29/2024 1:21 PM

Q15 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: 56 Skipped: 29





	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 disasters or emergency preparedness	46.43% 26	3.57% 2	25.00% 14	25.00% 14	56
Talked with members in your home about what to do in case of a disaster or emergency	66.07% 37	8.93% 5	12.50% 7	12.50% 7	56
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	57.14% 32	16.07% 9	16.07% 9	10.71% 6	56
Prepared a disaster supply kit with extra food, water, batteries, etc.	44.64% 25	19.64% 11	23.21% 13	12.50% 7	56
Become trained in first aid and/or CPR	67.86% 38	5.36% 3	14.29% 8	12.50% 7	56
Installed smoke detectors throughout home	96.43% 54	1.79% 1	1.79% 1	0.00% 0	56
Discussed or created a utility shutoff procedure in the event of a natural disaster	45.45% 25	18.18% 10	27.27% 15	9.09% 5	55

#	OTHER (PLEASE SPECIFY)	DATE
1	These things should certainly be encouraged.	3/15/2025 9:37 AM
2	Pets too	3/4/2025 11:24 AM
3	Discussed safe removal of tree branch hazard near home and power lines. It's expensive but worries us during heavy winds/t-storms. Would affect our immediate neighborhood.	2/24/2025 11:45 AM
4	I have no idea how to shut off my utilities - where do I learn how to do this?	2/12/2025 9:27 AM
5	its hard to know what you don't know - I suspect there is more that could included in this list	8/28/2024 4:36 PM

Q16 Do you have any relevant questions or comments for Cattaraugus County?

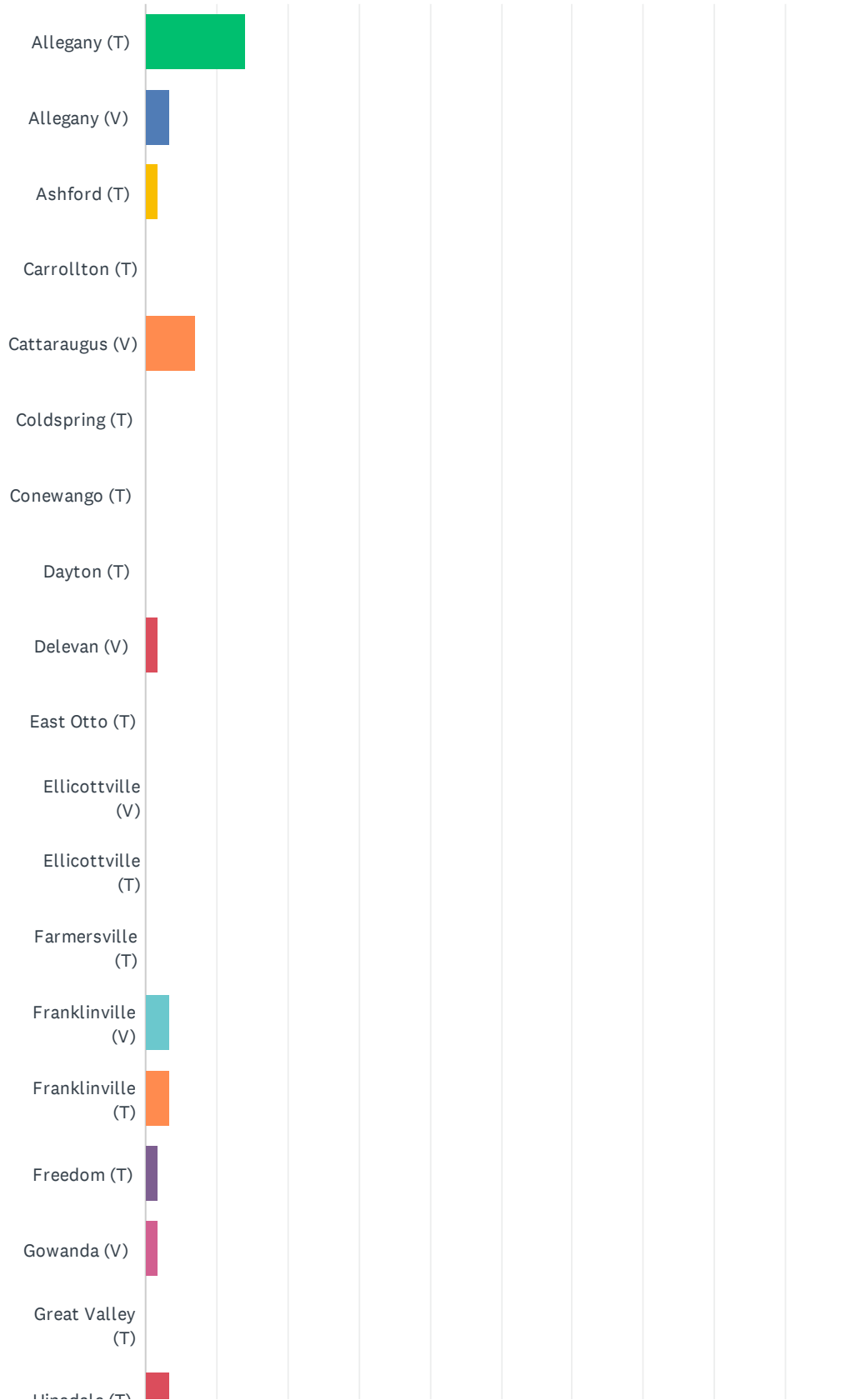
Answered: 31 Skipped: 54

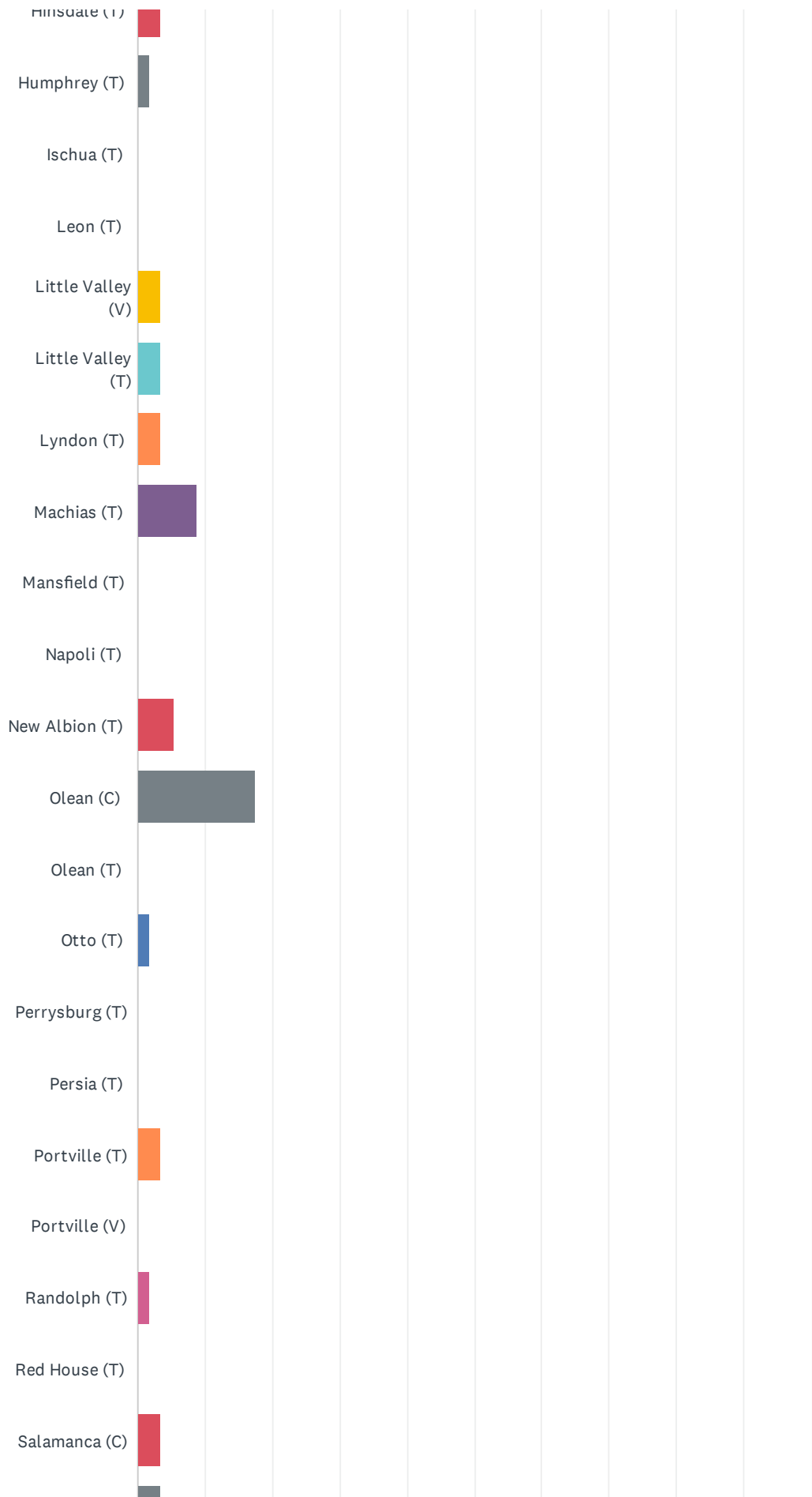
#	RESPONSES	DATE
1	No	4/6/2025 6:32 AM
2	I think this is really good, i understand that resources are hard to come by for stuff like this and after seeing some of the devastation that specifically flooding has caused to regions in the us i think it is important to look at not only the possibility of food scarcity during a potential event because the way trucking and warehousing is, but also ways to educate folks in the community on where to go or where to take people in time of extreme need.	3/15/2025 9:37 AM
3	No	3/15/2025 8:46 AM
4	No.	3/15/2025 3:47 AM
5	Yes. Have authorities look into the extreme corruption brought upon residents in the town of franklinville. Including a sitting county legislator. This county needs oversight and cannot operate rogue any longer	3/14/2025 10:04 AM
6	N/A.	3/11/2025 6:03 PM
7	No	3/10/2025 7:57 PM
8	Always do.	3/4/2025 11:24 AM
9	Not at this time	3/4/2025 11:13 AM
10	Are you aware that Trump and Musk are cutting NOAA workers and are finding out weather forecasting ability and are cutting FEMA funding? They are putting lives in danger!	3/3/2025 5:26 PM
11	Is there any training to help us learn about emergency preparedness? If so, you may want to consider additional advertising. We have not been informed.	2/26/2025 11:37 PM
12	No	2/26/2025 10:35 AM
13	No	2/25/2025 6:19 AM
14	No	2/24/2025 12:50 PM
15	There should be some type of program for Senior Citizens who are home owners and current on their taxes to be able to get a whole house generator purchased and installed and no cost or very little cost to them.	2/24/2025 12:05 PM
16	Please keep thinking about us residents & don't cave to the current political pressures of loyalty to one man. This is about us, not him.	2/24/2025 11:45 AM
17	No	2/24/2025 11:43 AM
18	The local public school buildings have shelter designation symbols on the outside of them - what does this mean and who is this for?	2/12/2025 9:27 AM
19	no	2/3/2025 11:01 AM
20	Hopefully little old Cattaraugus County is not subject to drone, ballistic missile attacks, other types of terrorist attack, I don't think we are a prime target. However, it would be nice to legally own and purchase without a long delay powerful semi-automatic rifles and ammunition to defend ourselves and our community with no round restrictions as long as such individuals go through extensive training courses, mental health assessments and criminal background checks.	12/17/2024 3:48 PM
21	None. Thank you.	11/6/2024 3:07 PM

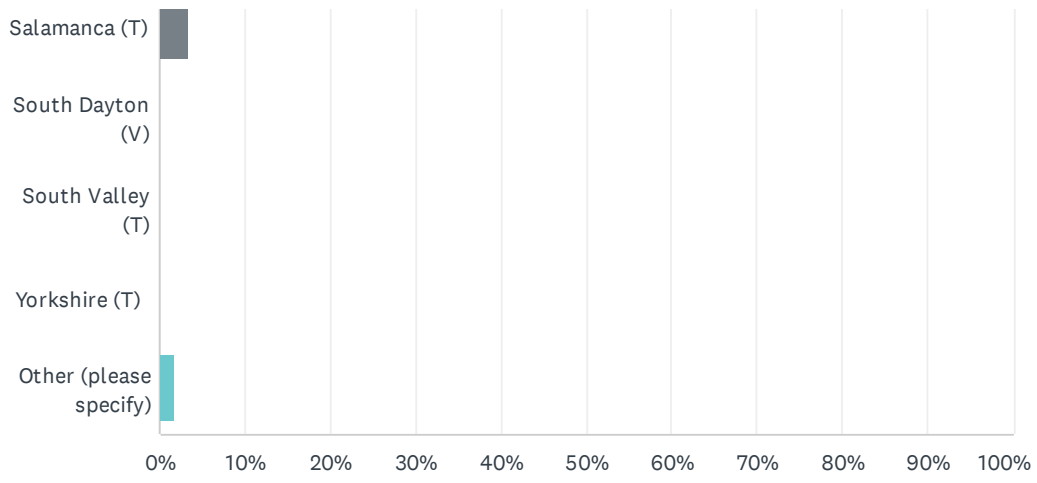
22	No	8/31/2024 7:44 AM
23	What role is the Cattaraugus county legislature going to take in assisting the city of Olean in preventing the discharge of sewage into the Allegheny River?	8/28/2024 5:19 PM
24	no	8/28/2024 4:36 PM
25	No	8/22/2024 2:41 AM
26	No	8/20/2024 4:24 PM
27	Please find funding for the Village of Allegany to remove trees on subways. They currently have no funds. As a 34 year long Village of Allegany homeowner I have witnessed daily for years many trees that need to be removed for the safety of persons and their vehicles. Thank you.	8/7/2024 7:46 PM
28	No	7/29/2024 7:11 PM
29	none	7/29/2024 3:10 PM
30	No	7/29/2024 1:49 PM
31	No	7/29/2024 1:21 PM

Q17 Please indicate the municipality in which you live:

Answered: 57 Skipped: 28







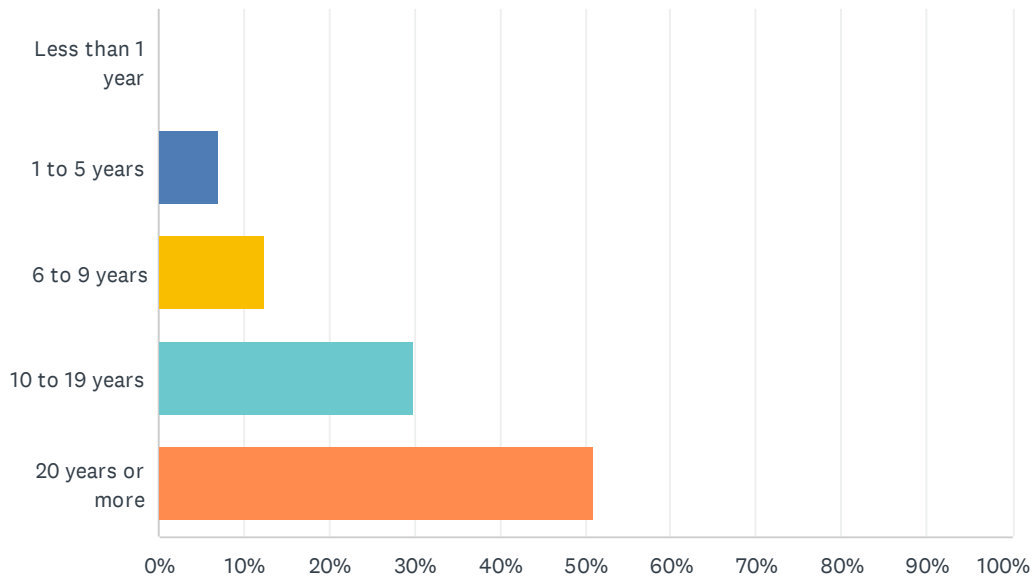
ANSWER CHOICES	RESPONSES	
Allegany (T)	14.04%	8
Allegany (V)	3.51%	2
Ashford (T)	1.75%	1
Carrollton (T)	0.00%	0
Cattaraugus (V)	7.02%	4
Coldspring (T)	0.00%	0
Conewango (T)	0.00%	0
Dayton (T)	0.00%	0
Delevan (V)	1.75%	1
East Otto (T)	0.00%	0
Ellicottville (V)	0.00%	0
Ellicottville (T)	0.00%	0
Farmersville (T)	0.00%	0
Franklinville (V)	3.51%	2
Franklinville (T)	3.51%	2
Freedom (T)	1.75%	1
Gowanda (V)	1.75%	1
Great Valley (T)	0.00%	0
Hinsdale (T)	3.51%	2
Humphrey (T)	1.75%	1
Ischua (T)	0.00%	0
Leon (T)	0.00%	0
Little Valley (V)	3.51%	2
Little Valley (T)	3.51%	2
Lyndon (T)	3.51%	2
Machias (T)	8.77%	5
Mansfield (T)	0.00%	0
Napoli (T)	0.00%	0
New Albion (T)	5.26%	3
Olean (C)	17.54%	10
Olean (T)	0.00%	0
Otto (T)	1.75%	1

Perrysburg (T)	0.00%	0
Persia (T)	0.00%	0
Portville (T)	3.51%	2
Portville (V)	0.00%	0
Randolph (T)	1.75%	1
Red House (T)	0.00%	0
Salamanca (C)	3.51%	2
Salamanca (T)	3.51%	2
South Dayton (V)	0.00%	0
South Valley (T)	0.00%	0
Yorkshire (T)	0.00%	0
Other (please specify)	1.75%	1
Total Respondents: 57		

#	OTHER (PLEASE SPECIFY)	DATE
1	5th st.	3/4/2025 11:25 AM

Q18 How long have you lived here?

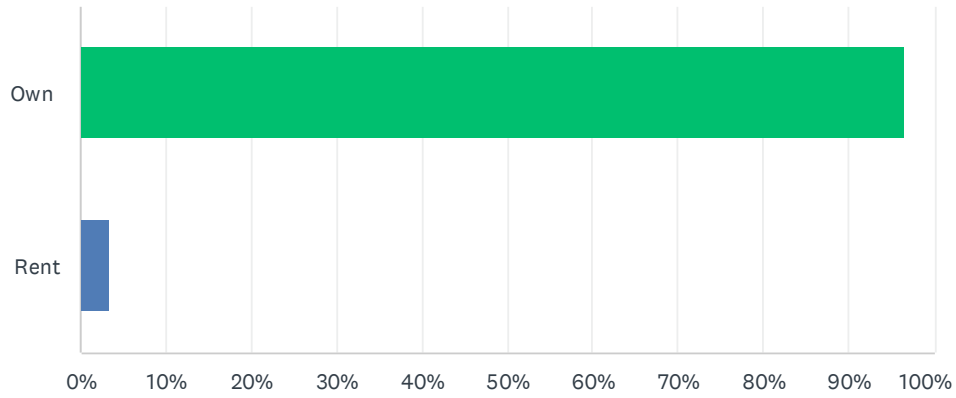
Answered: 57 Skipped: 28



ANSWER CHOICES	RESPONSES	
Less than 1 year	0.00%	0
1 to 5 years	7.02%	4
6 to 9 years	12.28%	7
10 to 19 years	29.82%	17
20 years or more	50.88%	29
TOTAL		57

Q19 Do you own or rent your place of residence?

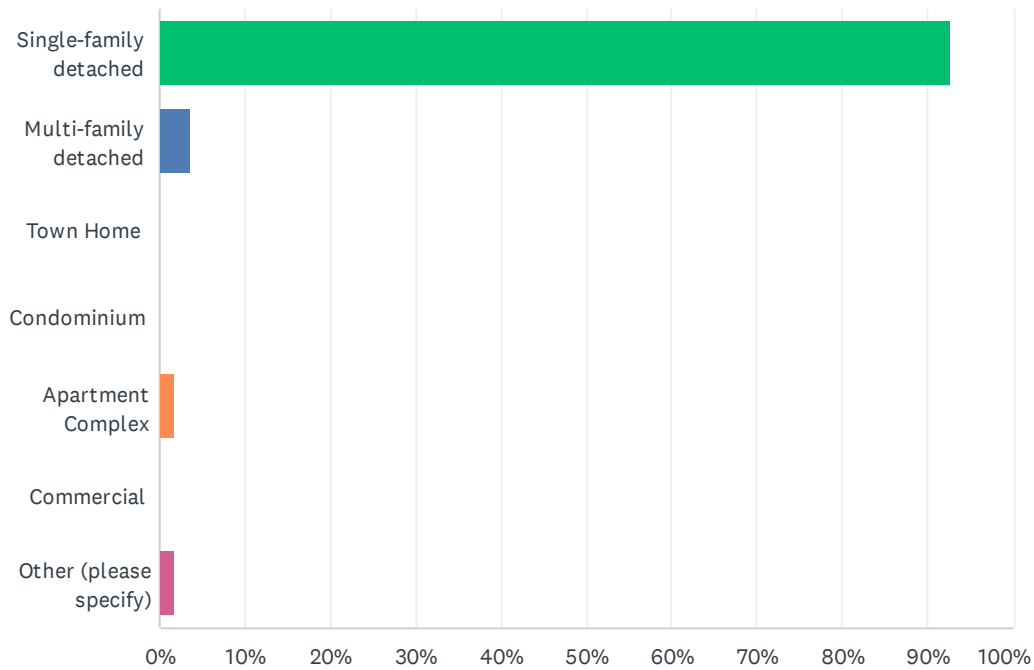
Answered: 57 Skipped: 28



ANSWER CHOICES	RESPONSES	
Own	96.49%	55
Rent	3.51%	2
TOTAL		57

Q20 What type of residence do you live in?

Answered: 56 Skipped: 29



ANSWER CHOICES	RESPONSES	
Single-family detached	92.86%	52
Multi-family detached	3.57%	2
Town Home	0.00%	0
Condominium	0.00%	0
Apartment Complex	1.79%	1
Commercial	0.00%	0
Other (please specify)	1.79%	1
TOTAL		56

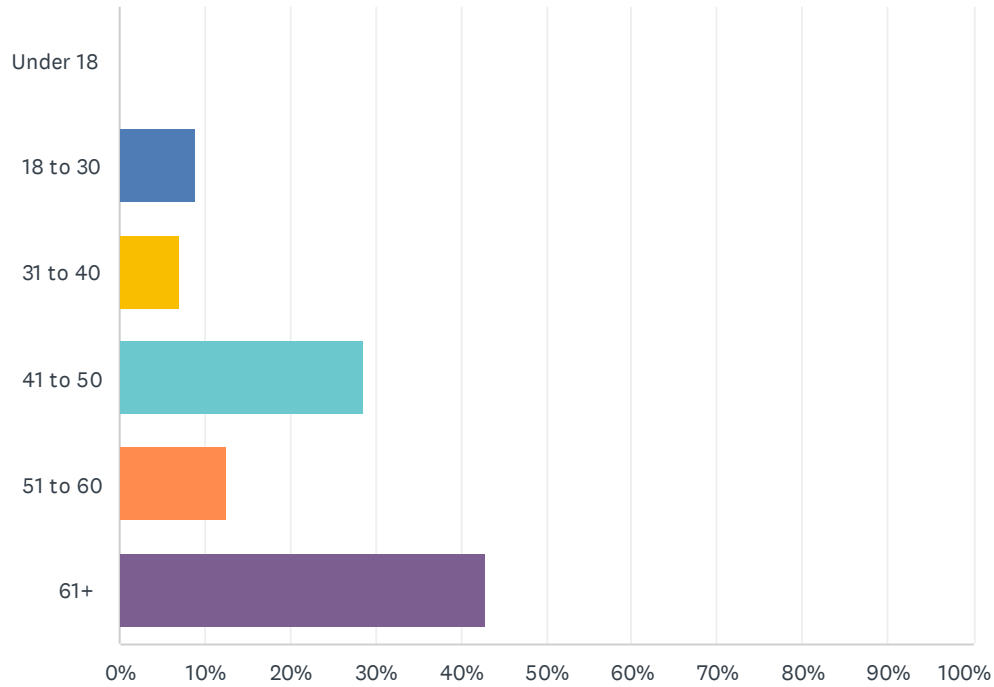
#	OTHER (PLEASE SPECIFY)	DATE
1	Off grid cabin, i also own and utilize an industrial property in the city	3/15/2025 9:39 AM

Q21 What street is your property on? (optional, will be kept confidential - only used to identify hazard areas such as flood prone areas).

Answered: 46 Skipped: 39

Q22 Please indicate your age range:

Answered: 56 Skipped: 29



ANSWER CHOICES	RESPONSES
Under 18	0.00% 0
18 to 30	8.93% 5
31 to 40	7.14% 4
41 to 50	28.57% 16
51 to 60	12.50% 7
61+	42.86% 24
TOTAL	56

Q1 Contact Information

Answered: 4 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	4
Department/Agency	100.00%	4
Address	0.00%	0
Address 2	0.00%	0
County/City/Town/Village	100.00%	4
State/Province	0.00%	0
ZIP/Postal Code	0.00%	0
Country	0.00%	0
Email Address	100.00%	4
Phone Number	100.00%	4

#	NAME	DATE
1	Ken McCorrison	2/20/2025 11:00 AM
2	Michael S Lyon	2/16/2025 7:12 PM
3	NOEL M. GUTTMAN	2/14/2025 10:39 AM
4	Rebecca Wurster	2/12/2025 11:24 AM

#	DEPARTMENT/AGENCY	DATE
1	Warren County DPS	2/20/2025 11:00 AM
2	Warren County Planning & Zoning	2/16/2025 7:12 PM
3	Chautauqua County Office of Emergency Services	2/14/2025 10:39 AM
4	Planning & Development	2/12/2025 11:24 AM

#	ADDRESS	DATE
	There are no responses.	

#	ADDRESS 2	DATE
	There are no responses.	

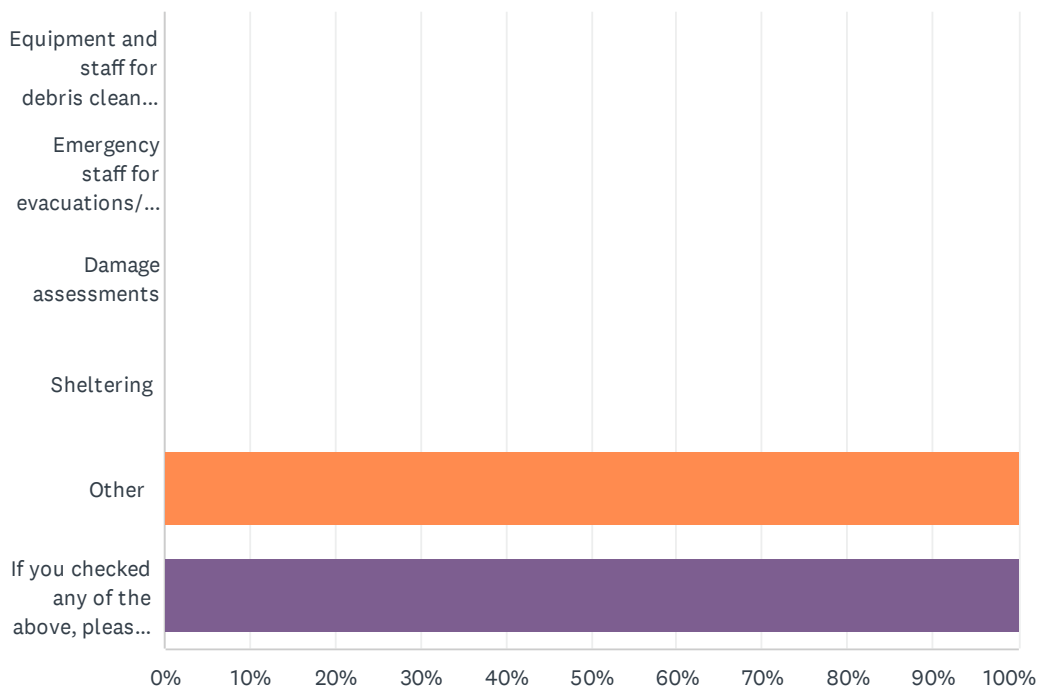
#	COUNTY/CITY/TOWN/VILLAGE	DATE
1	Youngsville	2/20/2025 11:00 AM
2	Warren	2/16/2025 7:12 PM
3	Mayville	2/14/2025 10:39 AM
4	Dunkirk	2/12/2025 11:24 AM

#	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	kmccorrison@warrencountypa.gov	2/20/2025 11:00 AM
2	mlyon@warrencountypa.gov	2/16/2025 7:12 PM
3	GUTTMAN@CHAUTCOFIRE.ORG	2/14/2025 10:39 AM
4	wursterr@chqgov.com	2/12/2025 11:24 AM
#	PHONE NUMBER	DATE
1	8147792325	2/20/2025 11:00 AM
2	8147283513	2/16/2025 7:12 PM
3	7167534320	2/14/2025 10:39 AM
4	716-366-3620	2/12/2025 11:24 AM

Q2 Do you have any shared service agreements or mutual aid agreements in place with Cattaraugus County or any Cattaraugus County municipalities for the following?

Answered: 3 Skipped: 1

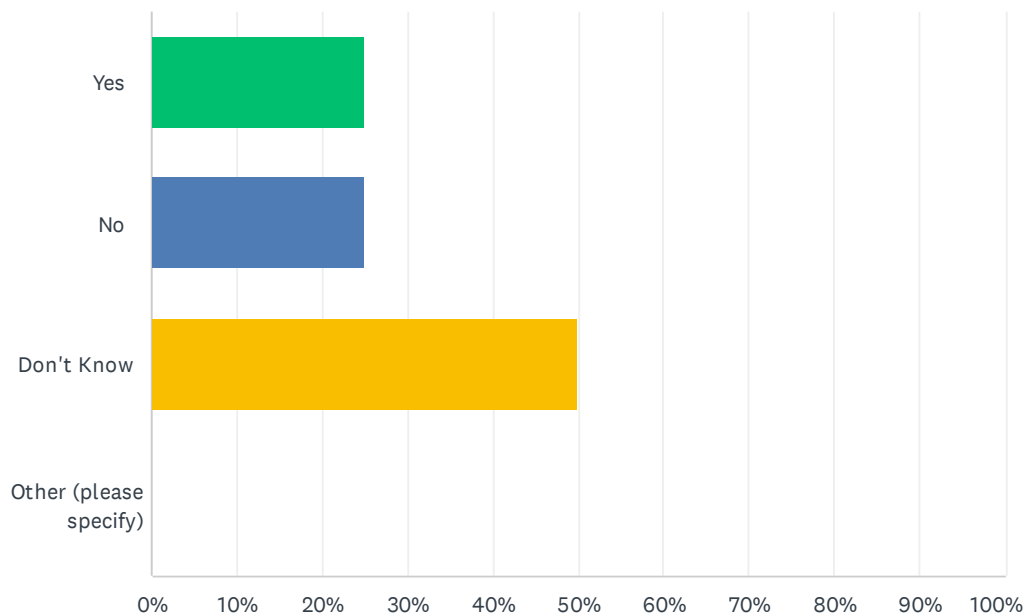


ANSWER CHOICES	RESPONSES
Equipment and staff for debris cleanup and removal	0.00% 0
Emergency staff for evacuations/disaster response	0.00% 0
Damage assessments	0.00% 0
Sheltering	0.00% 0
Other	100.00% 3
If you checked any of the above, please explain.	100.00% 3
Total Respondents: 3	

#	IF YOU CHECKED ANY OF THE ABOVE, PLEASE EXPLAIN.	DATE
1	Unknown, possibly with public safety	2/16/2025 7:15 PM
2	fire service radios I thnk. Fire Service mutual aid plans	2/14/2025 10:42 AM
3	I am not entirely sure. Noel Guttman of Chautauqua County Emergency services would be able to answer this.	2/12/2025 11:26 AM

Q3 Do you include Cattaraugus County or any Cattaraugus County municipalities in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 4 Skipped: 0

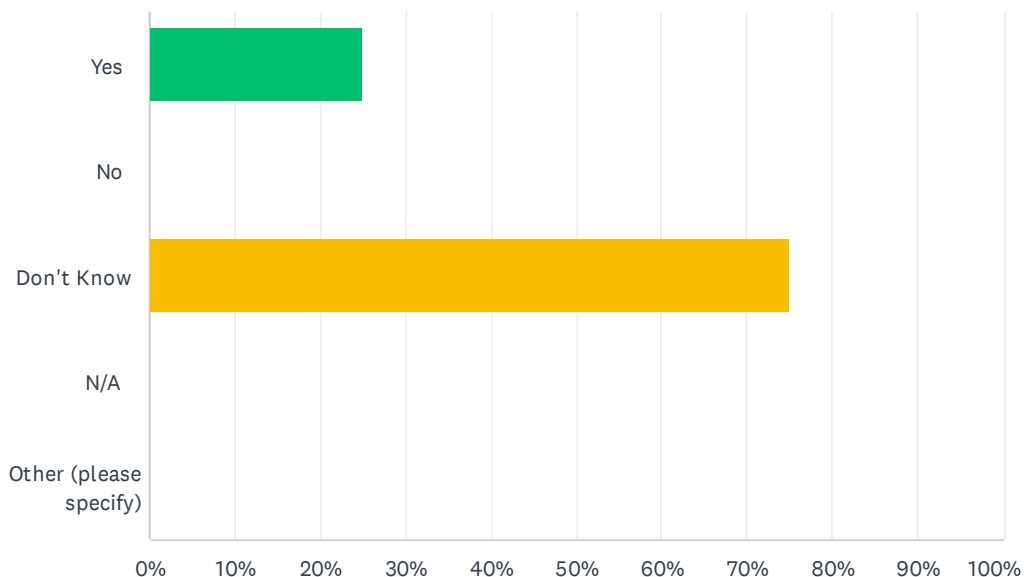


ANSWER CHOICES	RESPONSES
Yes	25.00% 1
No	25.00% 1
Don't Know	50.00% 2
Other (please specify)	0.00% 0
TOTAL	4

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

Q4 Does your community participate in Cattaraugus County or any Cattaraugus County municipality's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

Answered: 4 Skipped: 0

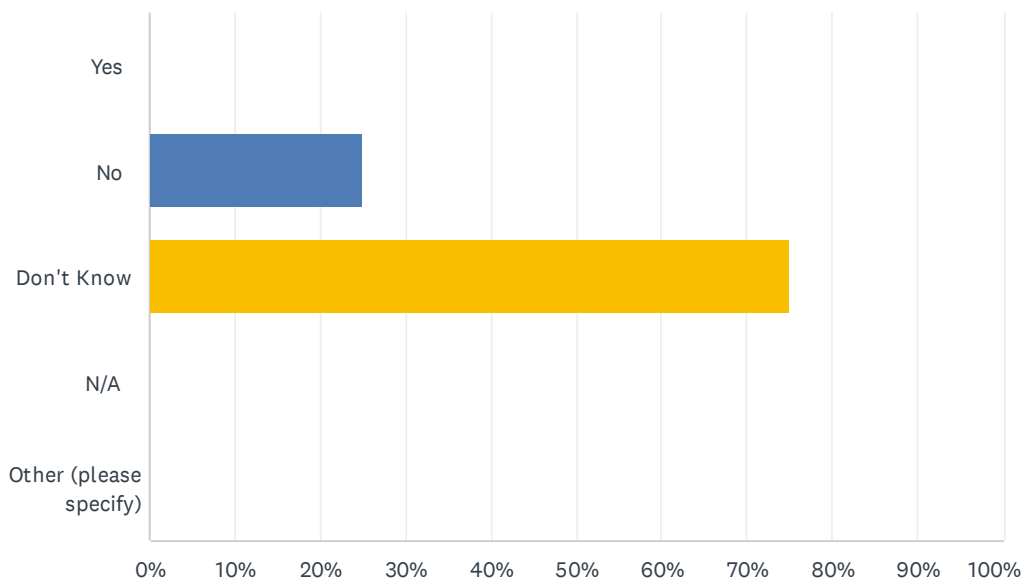


ANSWER CHOICES	RESPONSES
Yes	25.00% 1
No	0.00% 0
Don't Know	75.00% 3
N/A	0.00% 0
Other (please specify)	0.00% 0
TOTAL	4

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

Q5 Do you include Cattaraugus County or any Cattaraugus County municipalities in your community's 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: 4 Skipped: 0

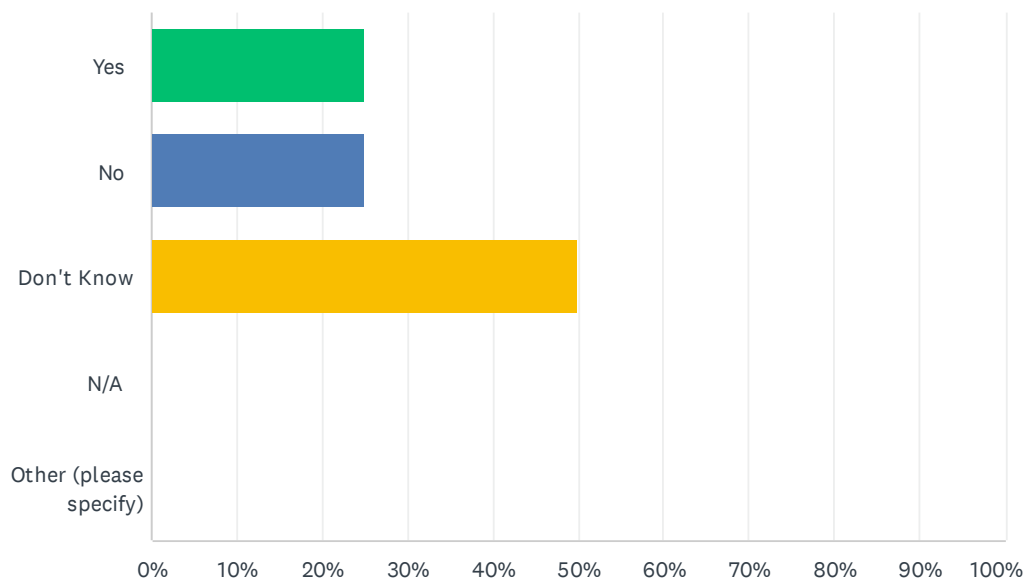


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	25.00% 1
Don't Know	75.00% 3
N/A	0.00% 0
Other (please specify)	0.00% 0
TOTAL	4

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

Q6 Does your community participate in Cattaraugus County or any Cattaraugus County municipality's Continuity of Operations planning, such as by participating on a planning team, providing resources during an emergency, or carrying out some of Cattaraugus County's essential functions for a period of time?

Answered: 4 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	25.00% 1
No	25.00% 1
Don't Know	50.00% 2
N/A	0.00% 0
Other (please specify)	0.00% 0
TOTAL	4

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

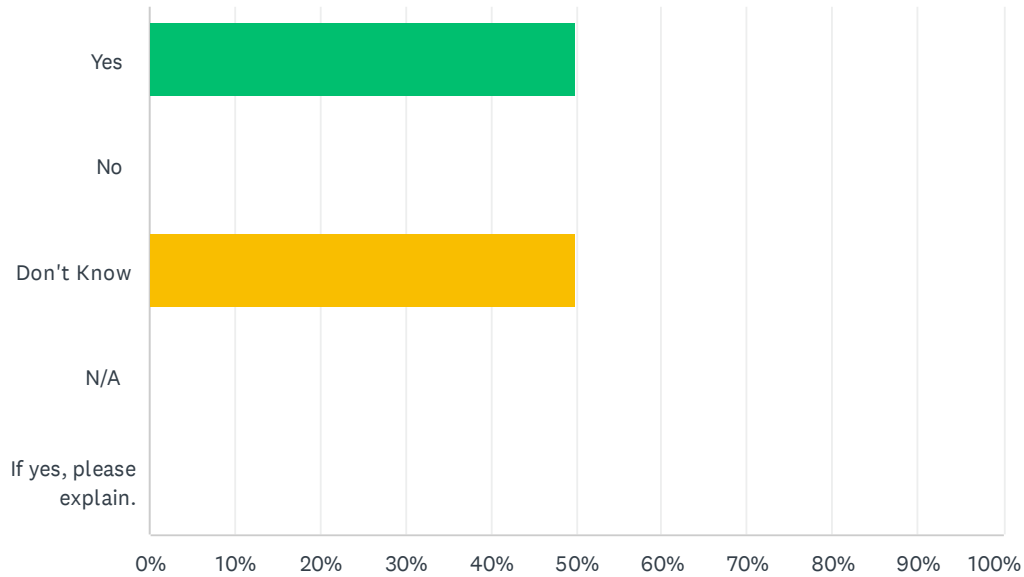
Q7 Thinking about emergency operations and disaster response, please explain how these actions are communicated between your staff and Cattaraugus County.

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Director to Director via Cell, or 911 to 911 via phone.	2/20/2025 11:02 AM
2	I will forward the survey to the director of public safety for Warren County.	2/16/2025 7:15 PM
3	through the emergency services office of both counties	2/14/2025 10:42 AM
4	Get information from Chautauqua County Emergency Services Department	2/12/2025 11:26 AM

Q8 Do your emergency officials have access to contact information for emergency operations centers within Cattaraugus County?

Answered: 4 Skipped: 0

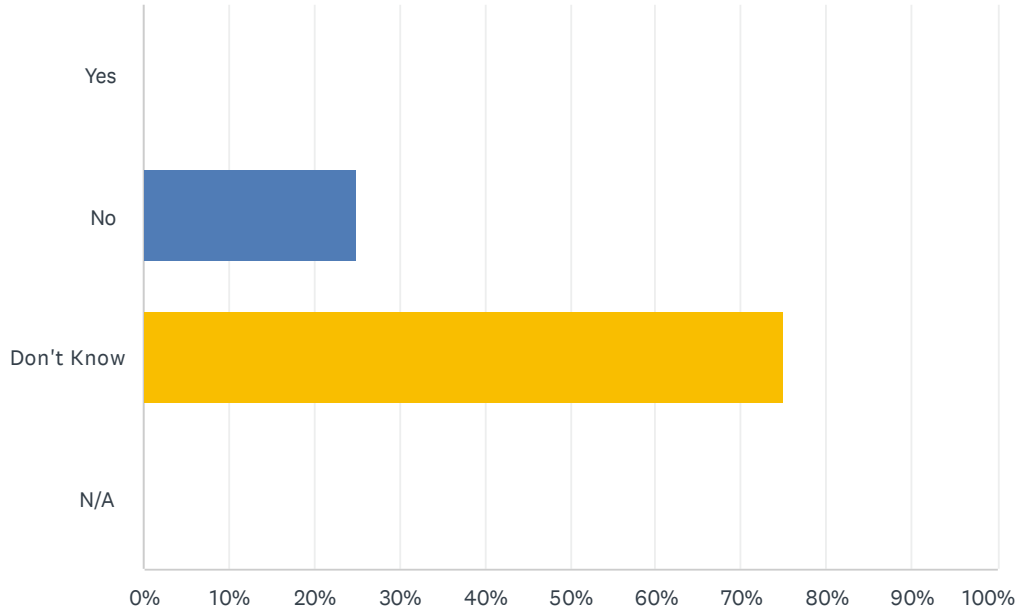


ANSWER CHOICES	RESPONSES
Yes	50.00% 2
No	0.00% 0
Don't Know	50.00% 2
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	4

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q9 Does your community share risk and vulnerability assessments (e.g., flood mapping, GIS, Hazus, etc.) with Cattaraugus County?

Answered: 4 Skipped: 0

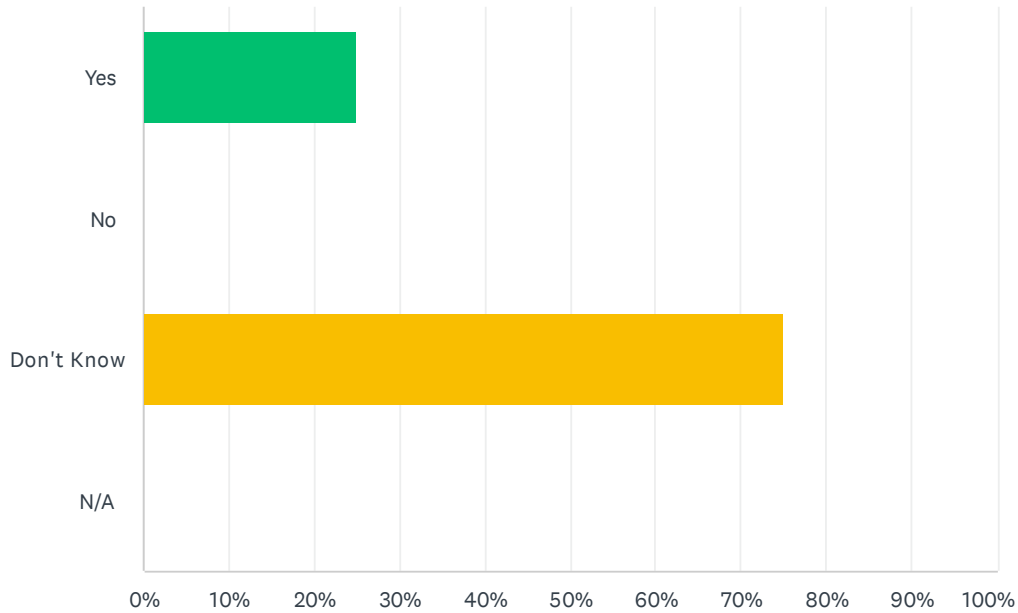


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	25.00% 1
Don't Know	75.00% 3
N/A	0.00% 0
TOTAL	4

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q10 Is information regarding mitigation shared during the planning and implementation phases of the projects?

Answered: 4 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	25.00%	1
No	0.00%	0
Don't Know	75.00%	3
N/A	0.00%	0
TOTAL		4

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q11 Please describe any situations or hazards that are of concern to both your jurisdiction and Cattaraugus 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: 4 Skipped: 0

#	RESPONSES	DATE
1	Lack of interoperable emergency communication and cellular communication in areas along our border.	2/20/2025 11:04 AM
2	I will share this survey with our public safety director for comment	2/16/2025 7:17 PM
3	flooding, weather issues, emergency response incidents	2/14/2025 10:44 AM
4	Cattaraugus Creek possible flooding	2/12/2025 11:34 AM

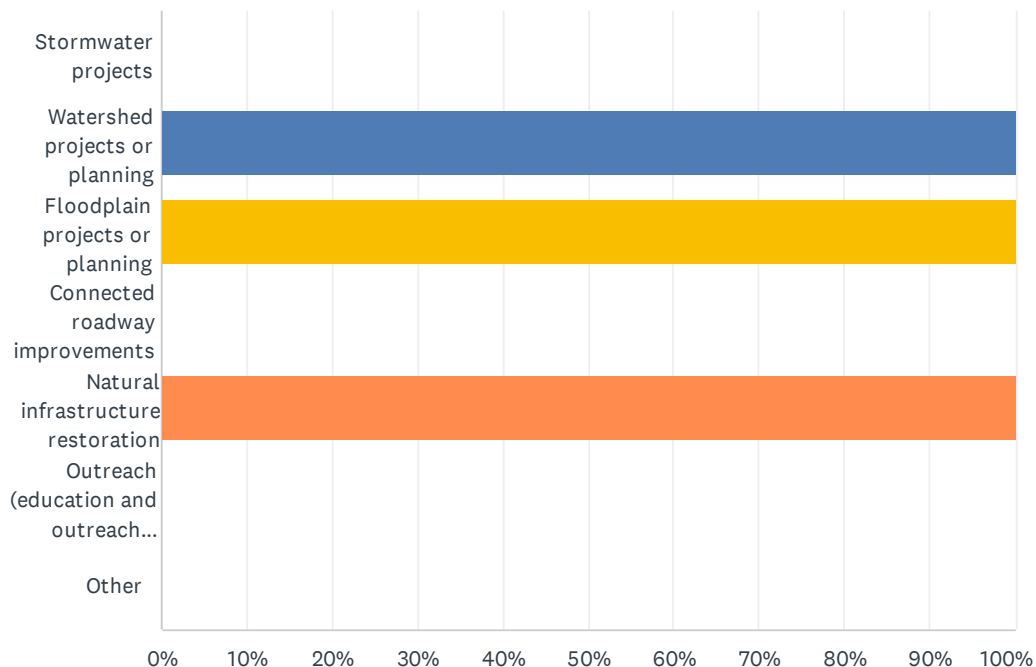
Q12 Please explain how information is shared between your jurisdiction and Cattaraugus County and any Cattaraugus County municipalities regarding mitigation projects.

Answered: 1 Skipped: 3

#	RESPONSES	DATE
1	Emergency Services	2/12/2025 11:34 AM

Q13 Are you aware of any projects for the following that requires cross-collaboration between jurisdictional boundaries?

Answered: 1 Skipped: 3

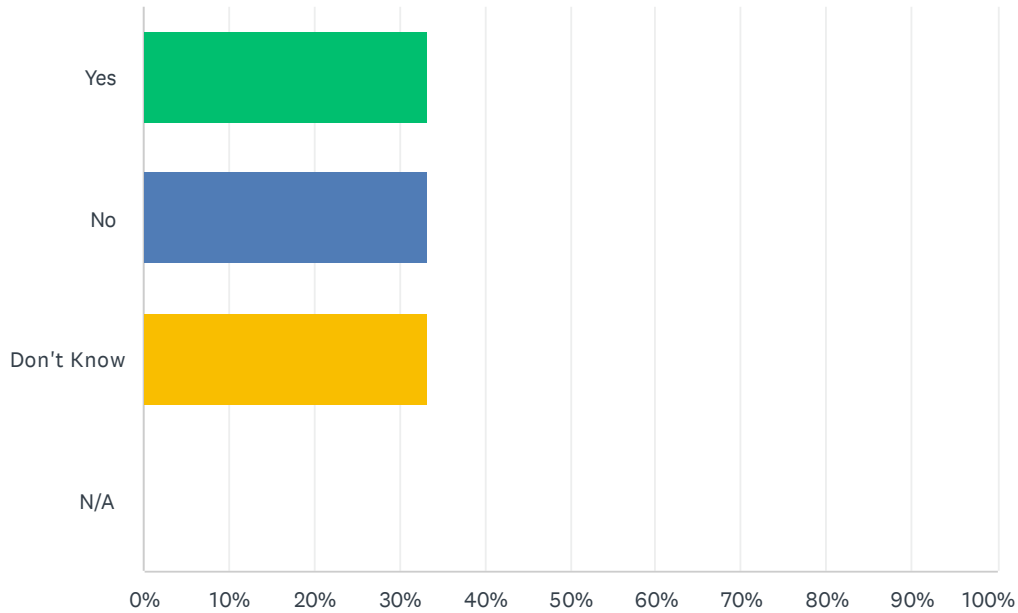


ANSWER CHOICES	RESPONSES
Stormwater projects	0.00% 0
Watershed projects or planning	100.00% 1
Floodplain projects or planning	100.00% 1
Connected roadway improvements	0.00% 0
Natural infrastructure restoration	100.00% 1
Outreach (education and outreach campaigns, programs for public information, etc.)	0.00% 0
Other	0.00% 0
Total Respondents: 1	

#	IF YOU SELECTED ANYTHING ABOVE, PLEASE EXPLAIN.	DATE
1	no	2/20/2025 11:07 AM

Q14 Has your jurisdiction and Cattaraugus County or any Cattaraugus County municipalities collaborated on grant applications?

Answered: 3 Skipped: 1

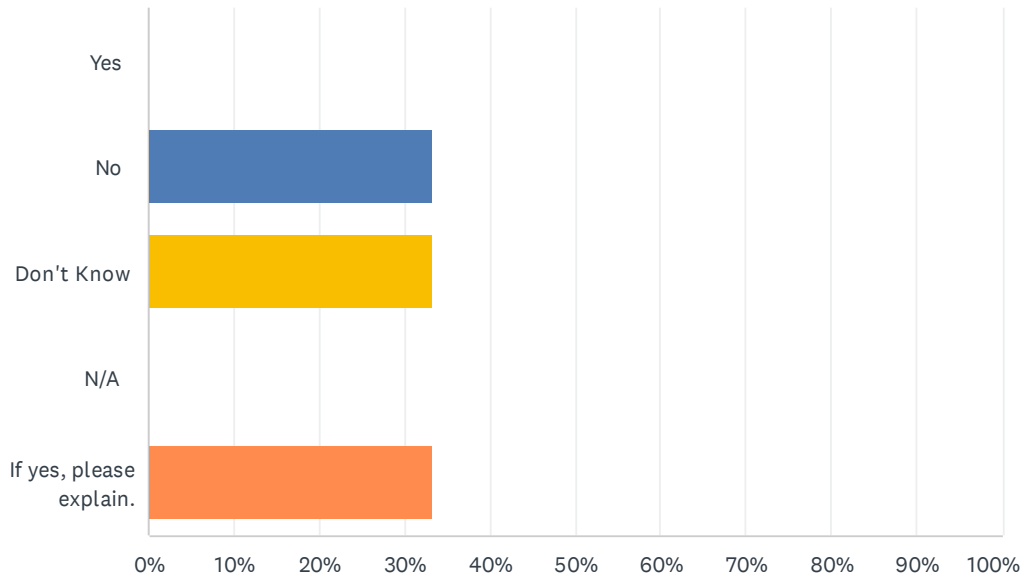


ANSWER CHOICES	RESPONSES
Yes	33.33% 1
No	33.33% 1
Don't Know	33.33% 1
N/A	0.00% 0
TOTAL	3

#	IF YES, PLEASE EXPLAIN.	DATE
1	technical rescue and haz mat grants	2/14/2025 10:45 AM

Q15 Are you aware of any organizations that carry out education and outreach regarding hazards in both your community and Cattaraugus County?

Answered: 3 Skipped: 1



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	33.33% 1
Don't Know	33.33% 1
N/A	0.00% 0
If yes, please explain.	33.33% 1
TOTAL	3

#	IF YES, PLEASE EXPLAIN.	DATE
1	US Army Corp of Engineers, US Forest Service	2/20/2025 11:07 AM

Q16 Are you aware of any organizations that support socially vulnerable or underserved populations in both your community and Cattaraugus County?

Answered: 3 Skipped: 1

#	RESPONSES	DATE
1	no	2/20/2025 11:07 AM
2	no	2/14/2025 10:45 AM
3	No	2/12/2025 11:37 AM

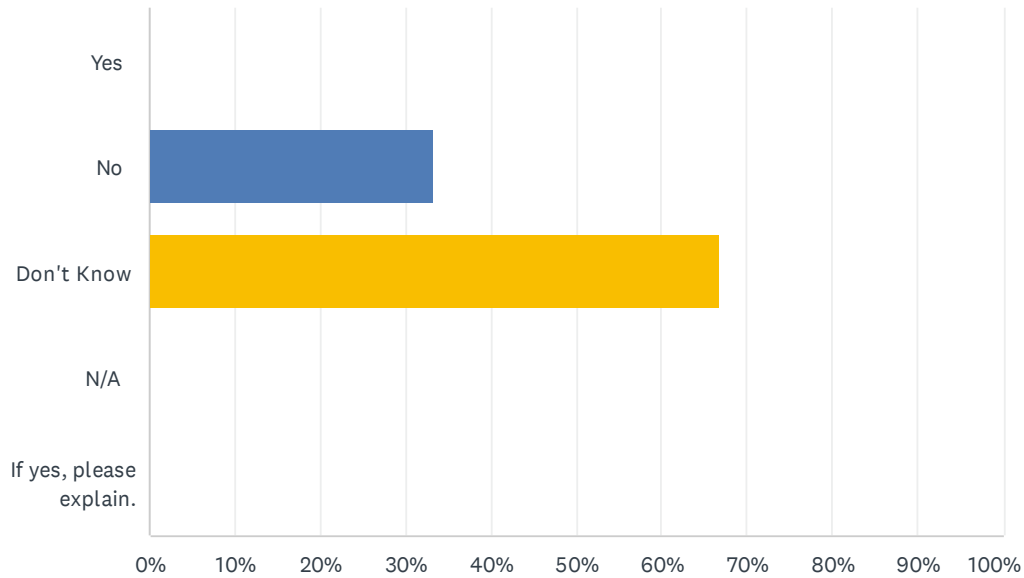
Q17 What are opportunities or ideas to optimize cooperation with Cattaraugus County on emergency management operations and hazard mitigation projects?

Answered: 3 Skipped: 1

#	RESPONSES	DATE
1	Joint radio communications projects could be helpful to emergency responders.	2/20/2025 11:07 AM
2	ensuring radio communications	2/14/2025 10:45 AM
3	Not sure. Our Department will be starting a Countywide Resiliency Plan that would be good to include Cattaraugus County on when we are identifying projects that might be county partnership opportunities to work on.	2/12/2025 11:37 AM

Q18 Do you collaborate with Cattaraugus County or any Cattaraugus County municipalities on establishing evacuation routes and alternate evacuation routes?

Answered: 3 Skipped: 1

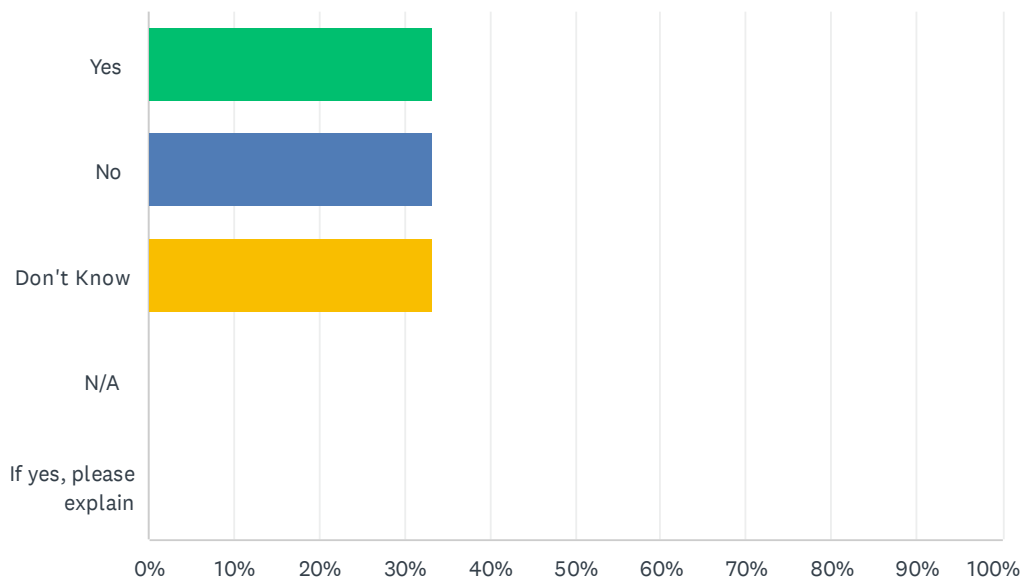


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	33.33% 1
Don't Know	66.67% 2
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q19 Do you and Cattaraugus County or any Cattaraugus County municipalities consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

Answered: 3 Skipped: 1

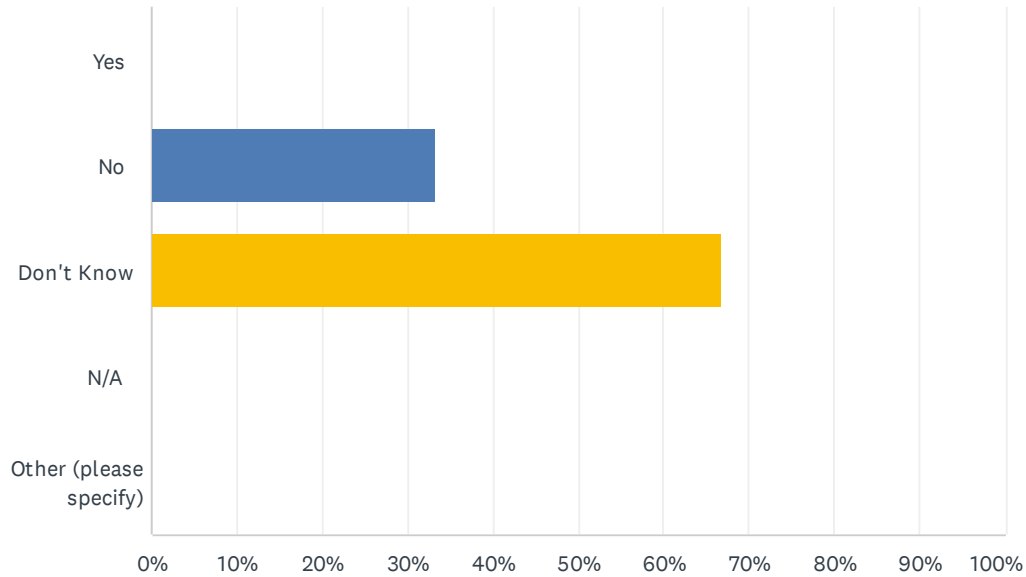


ANSWER CHOICES	RESPONSES	
Yes	33.33%	1
No	33.33%	1
Don't Know	33.33%	1
N/A	0.00%	0
If yes, please explain	0.00%	0
TOTAL		3

#	IF YES, PLEASE EXPLAIN	DATE
	There are no responses.	

Q20 Are evacuation routes maintained to the same level of protection across jurisdictional lines?

Answered: 3 Skipped: 1

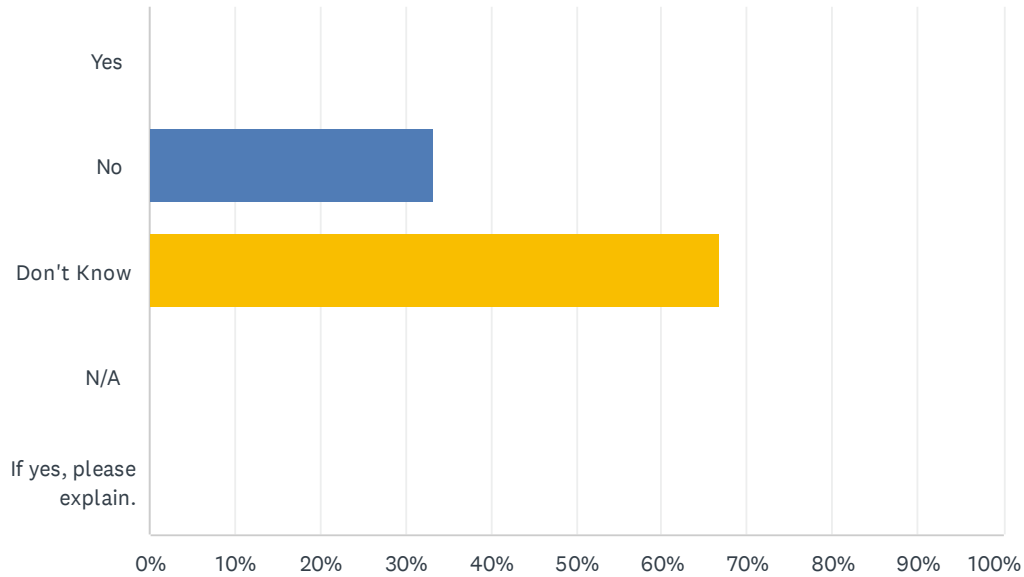


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	33.33% 1
Don't Know	66.67% 2
N/A	0.00% 0
Other (please specify)	0.00% 0
TOTAL	3

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

Q21 Do you collaborate with Cattaraugus County or any Cattaraugus County municipalities on establishing shelters?

Answered: 3 Skipped: 1

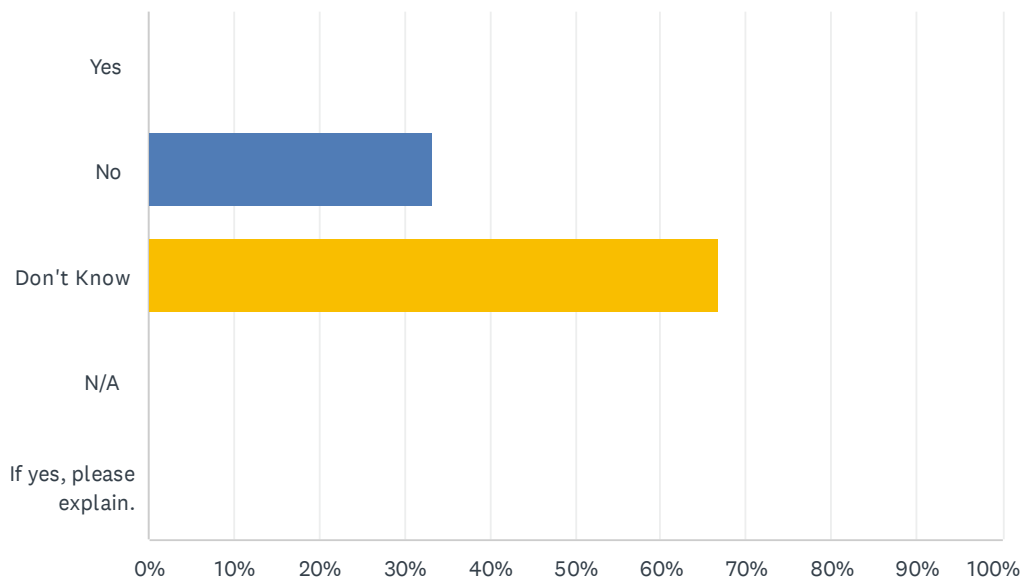


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	33.33% 1
Don't Know	66.67% 2
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q22 Do you and Cattaraugus County or any Cattaraugus County municipalities consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

Answered: 3 Skipped: 1

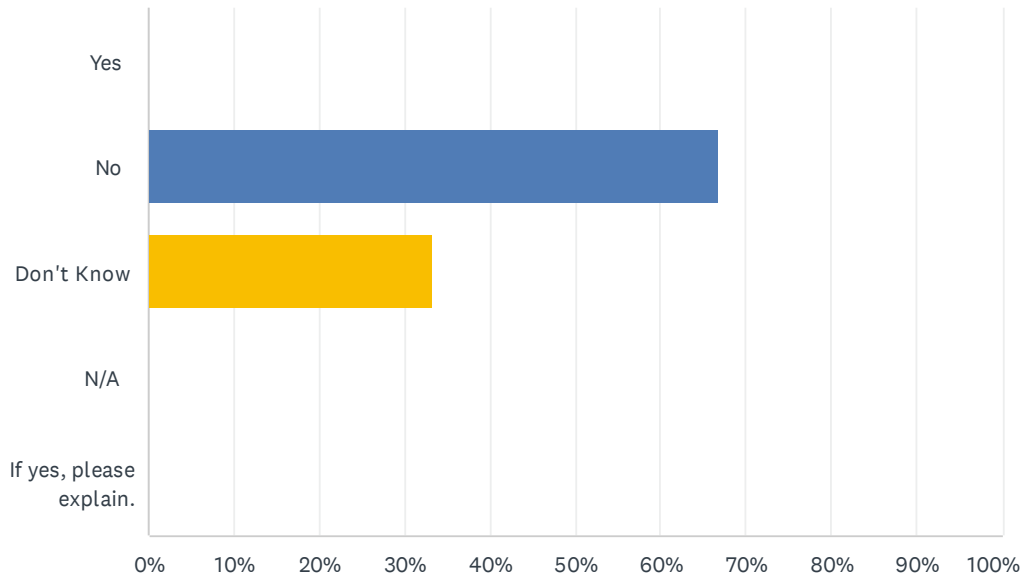


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	33.33% 1
Don't Know	66.67% 2
N/A	0.00% 0
If yes, please explain.	0.00% 0
TOTAL	3

#	IF YES, PLEASE EXPLAIN.	DATE
	There are no responses.	

Q23 Do you and Cattaraugus 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: 1



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 have any relevant questions or comments for Cattaraugus County?

Answered: 1 Skipped: 3

#	RESPONSES	DATE
1	Not at this time.	2/12/2025 11:38 AM

Q1 Contact Information

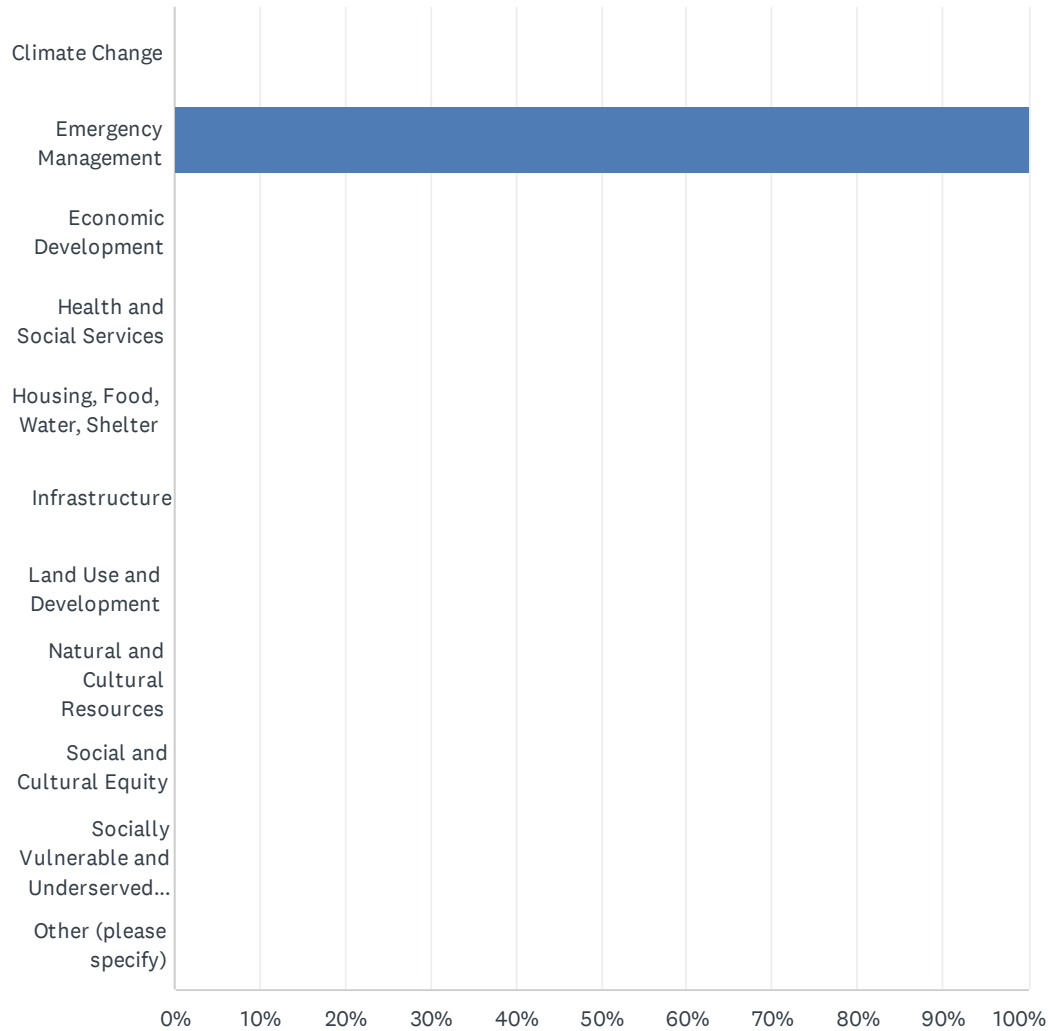
Answered: 1 Skipped: 0

ANSWER CHOICES	RESPONSES
Name	100.00% 1
Department/Agency	100.00% 1
Primary Responsibility	100.00% 1
Phone Number	100.00% 1
Email Address	100.00% 1

#	NAME	DATE
1	Ronald Richardson	2/17/2025 2:20 PM
#	DEPARTMENT/AGENCY	DATE
1	Police Department/City of Olean	2/17/2025 2:20 PM
#	PRIMARY RESPONSIBILITY	DATE
1	Chief of Police	2/17/2025 2:20 PM
#	PHONE NUMBER	DATE
1	(716)376-5675	2/17/2025 2:20 PM
#	EMAIL ADDRESS	DATE
1	rrichardson@cityofolean.org	2/17/2025 2:20 PM

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

Answered: 1 Skipped: 0

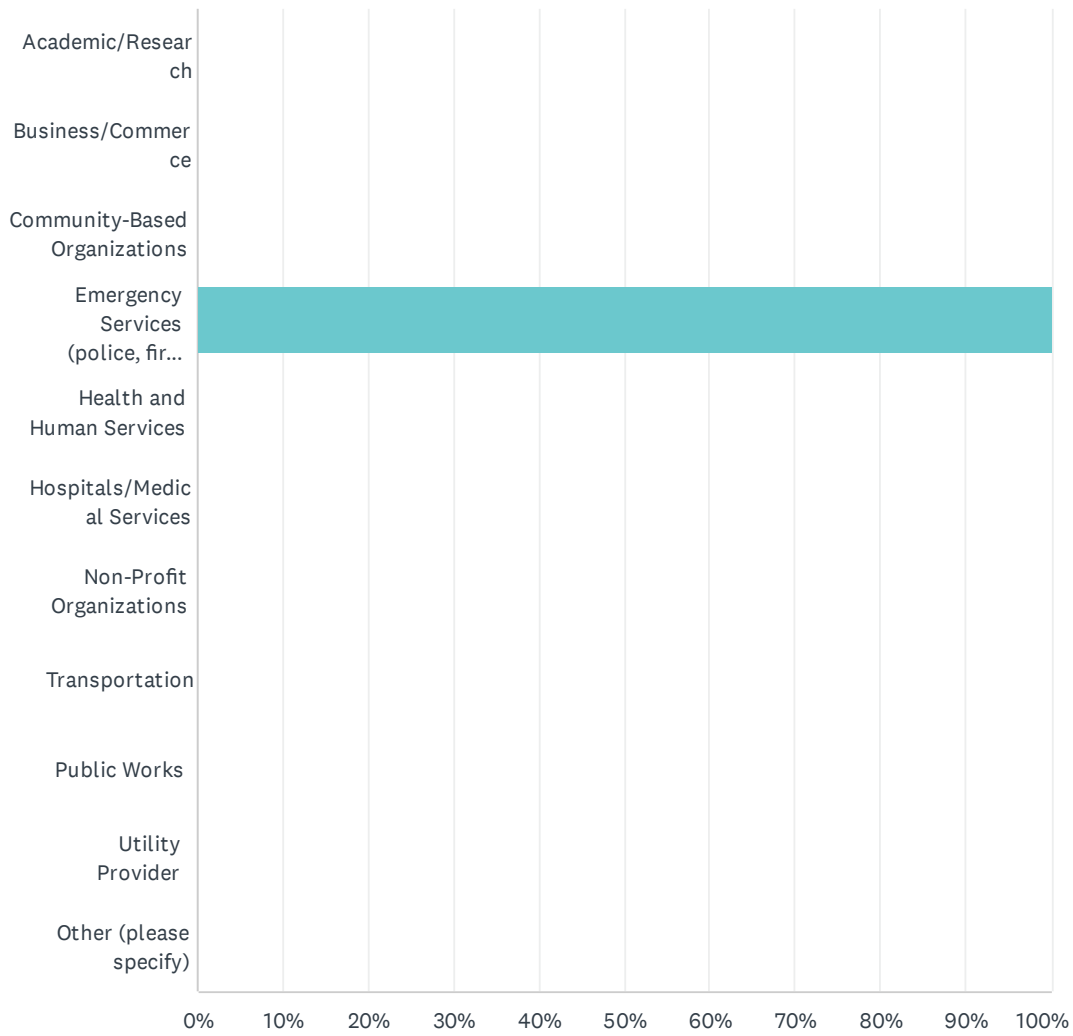


ANSWER CHOICES	RESPONSES	
Climate Change	0.00%	0
Emergency Management	100.00%	1
Economic Development	0.00%	0
Health and Social Services	0.00%	0
Housing, Food, Water, Shelter	0.00%	0
Infrastructure	0.00%	0
Land Use and Development	0.00%	0
Natural and Cultural Resources	0.00%	0
Social and Cultural Equity	0.00%	0
Socially Vulnerable and Underserved Populations	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 1		

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

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

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES	
Academic/Research	0.00%	0
Business/Commerce	0.00%	0
Community-Based Organizations	0.00%	0
Emergency Services (police, fire, EMS)	100.00%	1
Health and Human Services	0.00%	0
Hospitals/Medical Services	0.00%	0
Non-Profit Organizations	0.00%	0
Transportation	0.00%	0
Public Works	0.00%	0
Utility Provider	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 1		

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

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

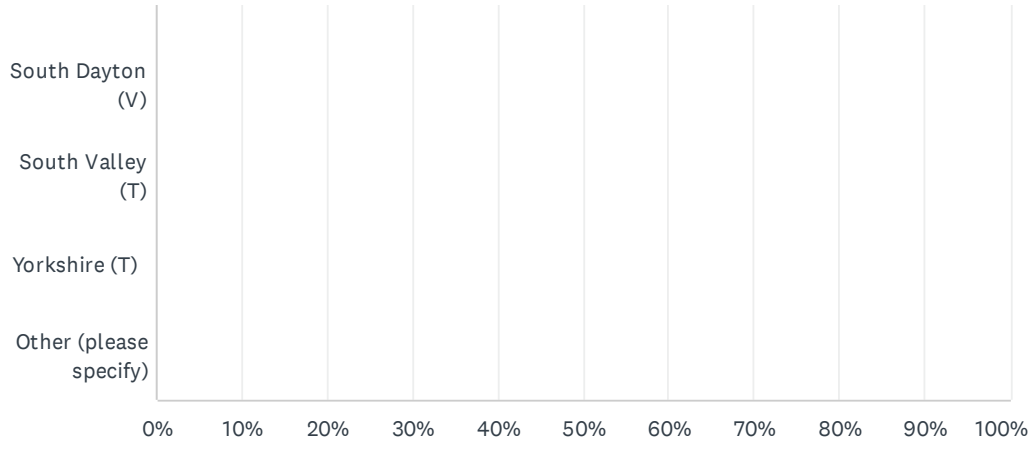
Answered: 1 Skipped: 0

#	RESPONSES	DATE
1	Police Services	2/17/2025 2:20 PM

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 "Cattaraugus County (entire area)" if your service area is county-wide:

Answered: 1 Skipped: 0

Cattaraugus County (entire area)									
Allegany (T)									
Allegany (V)									
Ashford (T)									
Carrollton (T)									
Cattaraugus (V)									
Coldspring (T)									
Dayton (T)									
Delevan (V)									
East Otto (T)									
Ellicottville (T)									
Farmersville (V)									
Franklinville (T)									
Franklinville (V)									
Freedom (T)									
Gowanda (V)									
Great Valley (T)									



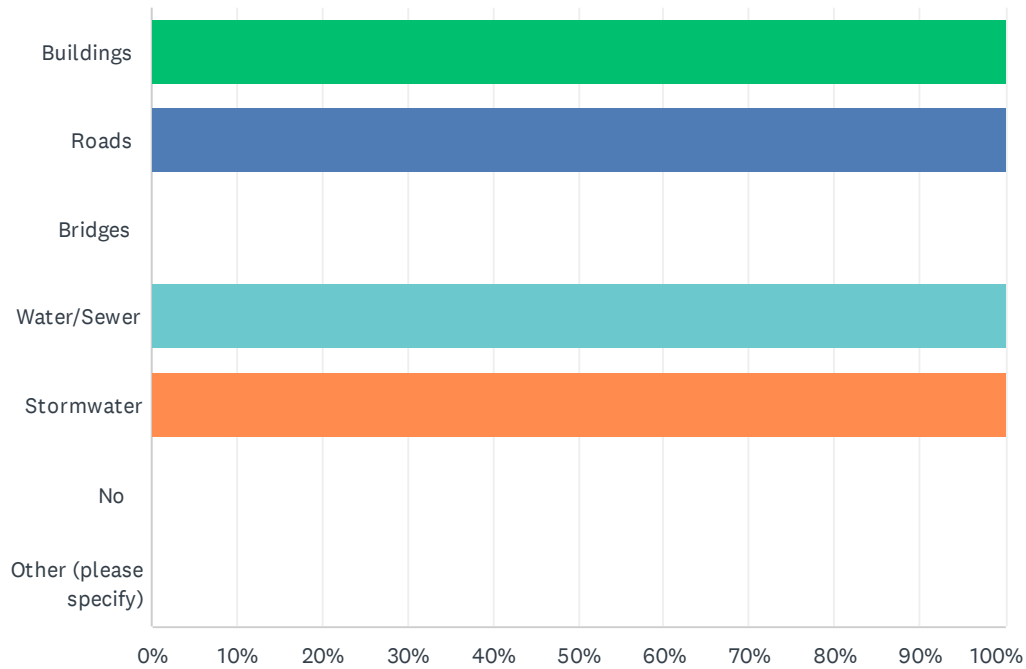
ANSWER CHOICES	RESPONSES	
Cattaraugus County (entire area)	0.00%	0
Allegany (T)	0.00%	0
Allegany (V)	0.00%	0
Ashford (T)	0.00%	0
Carrollton (T)	0.00%	0
Cattaraugus (V)	0.00%	0
Coldspring (T)	0.00%	0
Dayton (T)	0.00%	0
Delevan (V)	0.00%	0
East Otto (T)	0.00%	0
Ellicottville (T)	0.00%	0
Farmersville (V)	0.00%	0
Franklinville (T)	0.00%	0
Franklinville (V)	0.00%	0
Freedom (T)	0.00%	0
Gowanda (V)	0.00%	0
Great Valley (T)	0.00%	0
Hinsdale (T)	0.00%	0
Humphrey (T)	0.00%	0
Ischua (T)	0.00%	0
Leon (T)	0.00%	0
Little Valley (T)	0.00%	0
Little Valley (V)	0.00%	0
Lyndon (T)	0.00%	0
Machias (T)	0.00%	0
Mansfield (T)	0.00%	0
Napoli (T)	0.00%	0
New Albion (T)	0.00%	0
Olean (C)	100.00%	1
Olean (T)	0.00%	0
Otto (T)	0.00%	0
Perrysburg (T)	0.00%	0

Persia (T)	0.00%	0
Portville (T)	0.00%	0
Randolph (T)	0.00%	0
Red House (T)	0.00%	0
Salamanca (C)	0.00%	0
Salamanca (T)	0.00%	0
South Dayton (V)	0.00%	0
South Valley (T)	0.00%	0
Yorkshire (T)	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 1		

#	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”, otherwise check all that apply.

Answered: 1 Skipped: 0

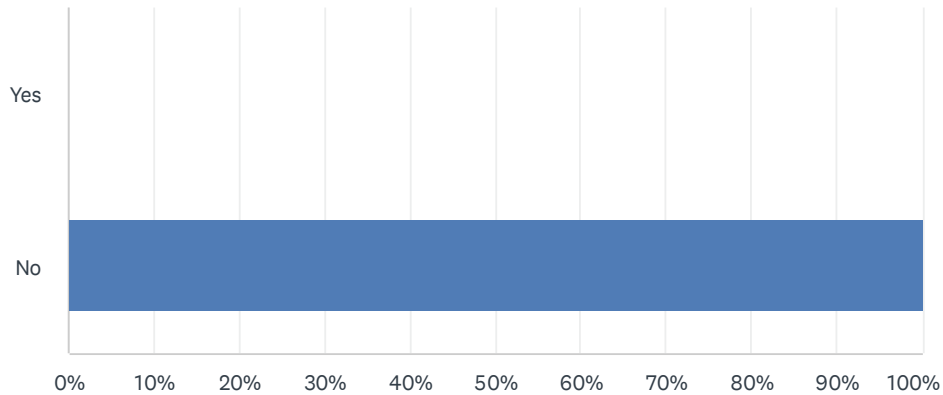


ANSWER CHOICES	RESPONSES	
Buildings	100.00%	1
Roads	100.00%	1
Bridges	0.00%	0
Water/Sewer	100.00%	1
Stormwater	100.00%	1
No	0.00%	0
Other (please specify)	0.00%	0
Total Respondents: 1		

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

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: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
TOTAL	1

#	IF YOU ANSWERED YES, PLEASE DESCRIBE HOW YOUR ORGANIZATION WORKS WITH OR SUPPORTS SOCIALLY VULNERABLE POPULATIONS.	DATE
	There are no responses.	

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: 0 Skipped: 1

 No matching responses.

ANSWER CHOICES	RESPONSES
Dam Failure	0.00% 0
Disease/Pandemic Outbreak	0.00% 0
Drought	0.00% 0
Earthquake	0.00% 0
Extreme Temperature (heat/cold)	0.00% 0
Extreme Wind	0.00% 0
Flood (inland, flash, urban/stormwater)	0.00% 0
Hazardous Materials	0.00% 0
Ice Jam	0.00% 0
Landslide	0.00% 0
Lightning	0.00% 0
Nor'easter	0.00% 0
Severe Storms	0.00% 0
Tornado	0.00% 0
Wildfire	0.00% 0
Winter Storm	0.00% 0
Utility (power, phone, Internet, water, sewer) Failure	0.00% 0
Other (please specify)	0.00% 0
Total Respondents: 0	

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

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: 0 Skipped: 1

 No matching responses.

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

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: 1

#	RESPONSES	DATE
	There are no responses.	

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

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

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

Answered: 0 Skipped: 1

 No matching responses.

ANSWER CHOICES	RESPONSES
Vulnerability of specific facilities	0.00% 0
Response capabilities	0.00% 0
Likelihood of specific hazard events	0.00% 0
Other (please specify)	0.00% 0
Total Respondents: 0	

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

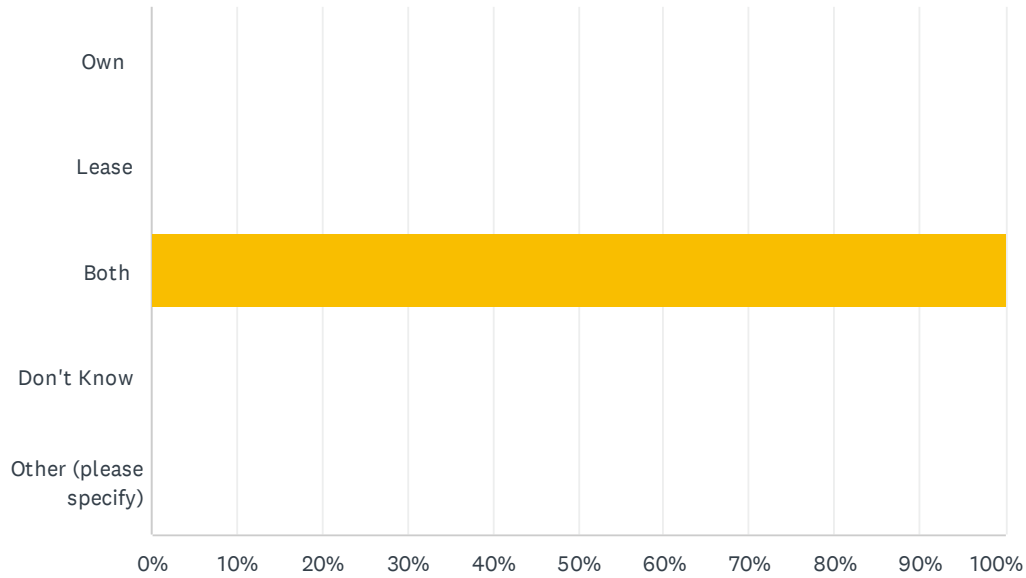
Q13 What challenges or barriers to reducing vulnerability in Cattaraugus County do you see?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q14 Does your agency own or lease facilities?

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Own	0.00% 0
Lease	0.00% 0
Both	100.00% 1
Don't Know	0.00% 0
Other (please specify)	0.00% 0
TOTAL	1

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

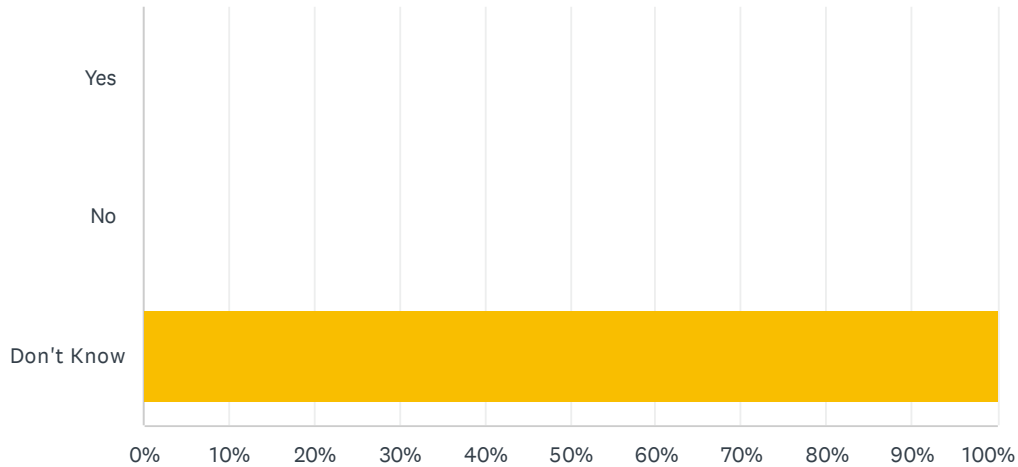
Q15 Of those facilities that your agency owns or leases, are any viewed as critical facilities or community lifelines?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

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

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	0.00% 0
Don't Know	100.00% 1
TOTAL	1

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

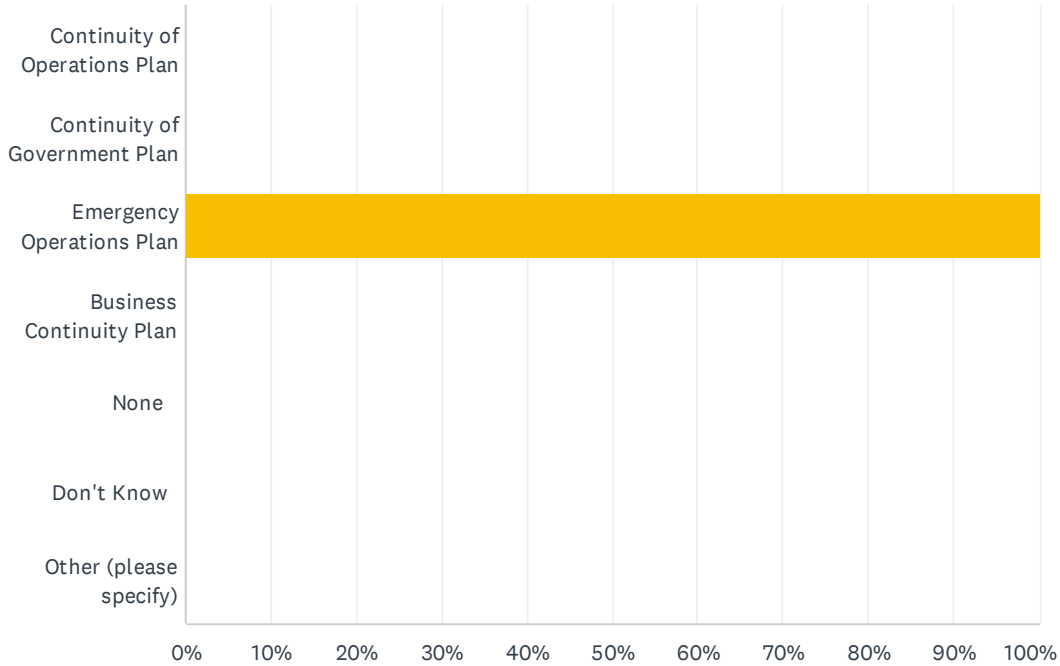
Q17 What support does your organization need from Cattaraugus County to help reduce vulnerabilities to your facilities?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

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

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Continuity of Operations Plan	0.00% 0
Continuity of Government Plan	0.00% 0
Emergency Operations Plan	100.00% 1
Business Continuity Plan	0.00% 0
None	0.00% 0
Don't Know	0.00% 0
Other (please specify)	0.00% 0
Total Respondents: 1	

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

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

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

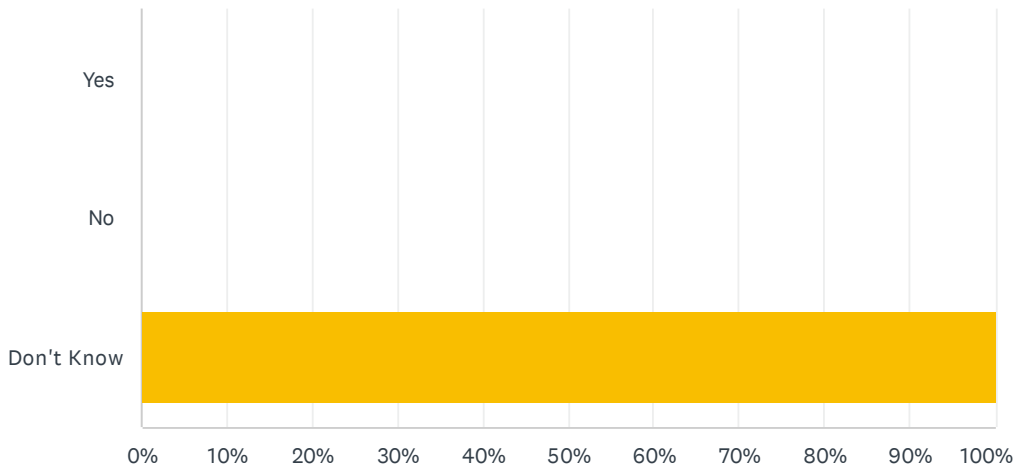
Q20 What plans or studies has your agency developed that relate to hazards, the climate, new or existing facilities, vulnerable populations, or other areas related to hazard mitigation?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q21 Is your agency currently involved in conducting any studies or developing any programs which would further support Cattaraugus 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: 1 Skipped: 0



ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	0.00% 0
Don't Know	100.00% 1
TOTAL	1

#	IF YES, PLEASE BRIEFLY DESCRIBE THE TYPE OF STUDY UNDERWAY, AND LIST THE ANTICIPATED YEAR OF COMPLETION.	DATE
	There are no responses.	

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: 1

#	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: 1

#	RESPONSES	DATE
	There are no responses.	

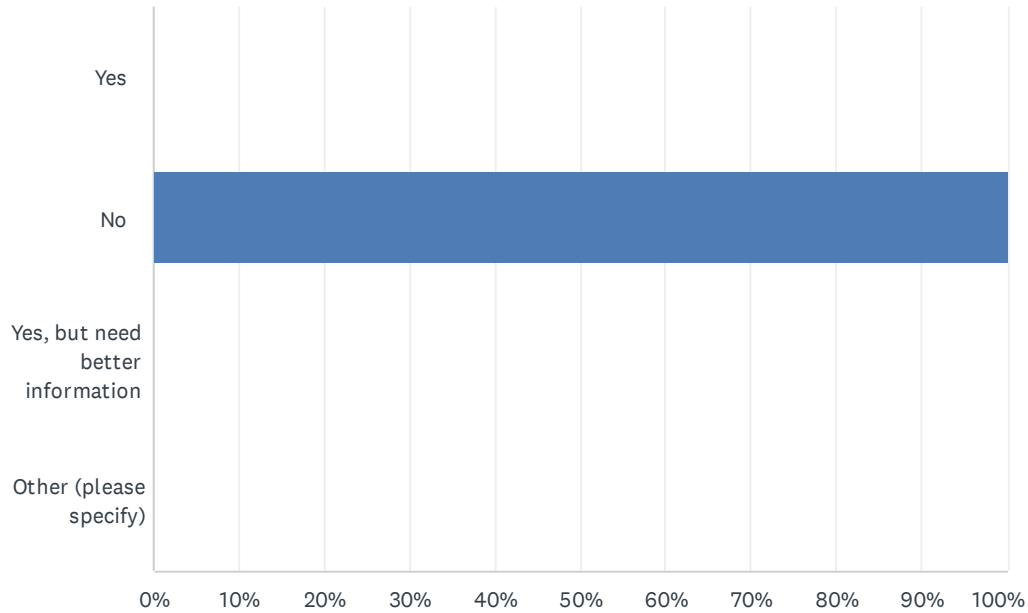
Q24 Please provide a list of projects or programs that your facility or organization would like to complete in order to reduce your vulnerability to damages and losses, including loss of operation/service, to hazard events.

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

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

Answered: 1 Skipped: 0

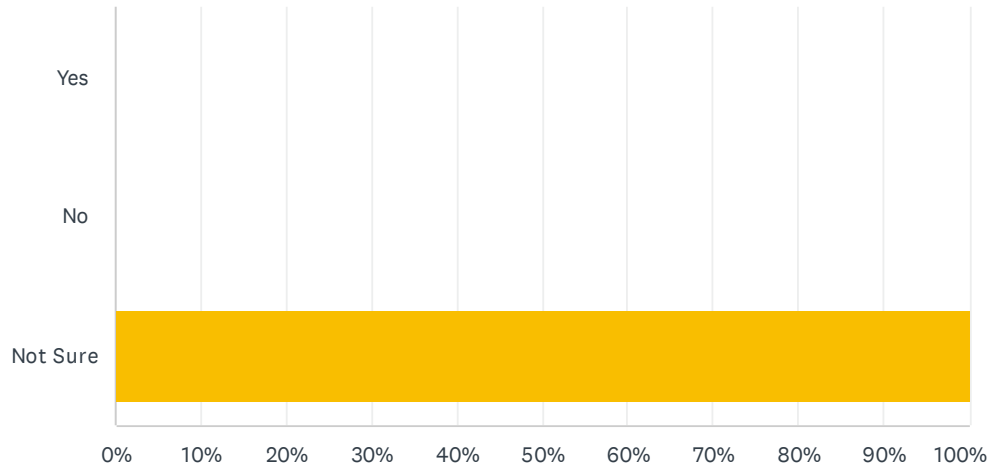


ANSWER CHOICES	RESPONSES
Yes	0.00% 0
No	100.00% 1
Yes, but need better information	0.00% 0
Other (please specify)	0.00% 0
TOTAL	1

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

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

Answered: 1 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	0.00%	0
No	0.00%	0
Not Sure	100.00%	1
TOTAL		1

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

Answered: 0 Skipped: 1

 No matching responses.

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

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

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

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q29 Do you provide these services during times of disaster?

Answered: 0 Skipped: 1

 No matching responses.

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

Q30 What barriers and community characteristics exist within Cattaraugus 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: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

Q31 Do you have any questions or comments for Cattaraugus County?

Answered: 0 Skipped: 1

#	RESPONSES	DATE
	There are no responses.	

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 Cattaraugus 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.



Jurisdiction	Name	Title	SC Member	PP Member	Primary Point of Contact	Secondary Point of Contact	NFIP FPA	SC Kick Off 110223	PP Kick Off 030724	PP RA-MSW, Morning 091824	PP RA-MSW, Afternoon 091824	Draft Plan Review, Afternoon 052025	Draft Plan Review, Evening 052025	Individual Jurisdictional Meeting
Cattaraugus Co. Attorney's Office Risk Management Division	Thomas Ruper	Safety Engineer	X	X	-	-	-	X	X	-	-	-	-	X
Cattaraugus Co. Dept of Public Works	Kathy Ellis	Commissioner	X	X	-	-	-	X	X	-	X	-	-	X
Cattaraugus Co. Dept. of Community Services	Mary O'Leary	Director	X	X	-	-	-	X	-	-	-	-	X	X
Cattaraugus Co. Dept. of Public Works	Kimberly Merrill	HMP Coord. / Sec. to Commissioner	X	X	X	-	-	X	X	X	X	X	X	X
Cattaraugus Co. Dept. of Public Works	Michael Prinino	Deputy Commissioner	X	X	-	-	-	X	X	-	-	-	-	X
Cattaraugus Co. Emergency Services	Chris Baker	Director & County Fire Coordinator	X	X	-	-	-	X	-	-	-	-	-	-
Cattaraugus Co. Health Department	James Lawrence	Em. Preparedness Director	X	X	-	-	-	X	-	X	-	X	-	X
Cattaraugus Co. Office of Emergency Services	Naomi Gennings	NIMS Coordinator	X	X	-	X	-	X	X	X	X	X	-	X
Cattaraugus Co. Office of Real Property & GIS Services	Chris Holewinski	GIS Coordinator	X	X	-	-	-	X	X	-	-	X	-	X
Cattaraugus Co. Engineering	Mark Burr	Director	X	X	-	-	-	-	-	-	-	-	-	X
Cattaraugus Co. Sheriff Department	Kristy Sicignano	Deputy Sheriff	-	X	-	-	-	-	-	X	-	-	-	-
Cattaraugus Co. Soil and Water	Tyler Pear	District Manager	-	-	-	-	-	-	-	-	-	X	-	-



Jurisdiction	Name	Title	SC Member	PP Member	Primary Point of Contact	Secondary Point of Contact	NFIP FPA	SC Kick Off 110223	PP Kick Off 030724	PP RA-MSW, Morning 091824	PP RA-MSW, Afternoon 091824	Draft Plan Review, Afternoon 052025	Draft Plan Review, Evening 052025	Individual Jurisdictional Meeting
Town of Allegany	John Moshier	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	-
Town of Allegany	Christopher McPherson	Supervisor	-	X	-	-	-	-	X	-	-	-	-	-
Town of Allegany	Grace Straub	Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Town of Allegany	Jim Hitchcock	Town Council	-	X	-	X	-	-	-	-	-	-	-	-
Town of Allegany	Jerry Dzuroff	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of Allegany	Anthony Papasergi	Highway Superintendent	-	X	-	X	-	-	X	-	-	-	-	-
Village of Allegany	John Helgager	Code Enforcement Officer	-	X	X	-	X	-	X	-	-	X	-	X
Town of Ashford	John Pfeffer	Supervisor	-	X	X	-	-	-	-	-	-	-	-	-
Town of Ashford	Larry Feldman	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Ashford	Keith Butcher	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Ashford	Jim Boborg	DPW	-	X	-	-	-	-	-	-	-	-	-	X
Town of Carrollton	Robert Rinfrette	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Carrollton	Lance Jobe	Former Code Enforcement Officer	-	X	-	-	-	-	-	-	-	-	-	-
Town of Carrollton	Michael Fox	Highway Superintendent	-	X	X	-	-	-	X	-	-	-	-	X
Town of Carrollton	Ben McDonnell	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-



Jurisdiction	Name	Title	SC Member	PP Member	Primary Point of Contact	Secondary Point of Contact	NFIP FPA	SC Kick Off 110223	PP Kick Off 030724	PP RA-MSW, Morning 091824	PP RA-MSW, Afternoon 091824	Draft Plan Review, Afternoon 052025	Draft Plan Review, Evening 052025	Individual Jurisdictional Meeting
Town of Carrollton	Barry Shields	Deputy Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Village of Cattaraugus	Jonathon Wolfe	Public Works Superintendent	-	X	X	-	-	-	X	-	-	-	-	X
Village of Cattaraugus	Anthony Nagel	Mayor	-	X	-	X	-	-	X	-	-	-	-	X
Village of Cattaraugus	Tom Patterson	Deputy Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Village of Cattaraugus	Kyle Harris	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Coldspring	Kirk Hayes	Highway Superintendent	-	X	X	-	-	-	X	X	-	-	-	X
Town of Coldspring	Tina Hyde	Supervisor	-	X	-	X	-	-	X	X	-	-	-	X
Town of Coldspring	Randall Brooks	Code Enforcement Officer	-	X	-	-	X	-	-	X	-	-	-	X
Town of Conewango	Bryan Farmer	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	-
Town of Conewango	Scott Patterson	Deputy Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Conewango	Wayne McGuire	Supervisor	-	X	-	-	-	-	-	-	-	-	-	X
Town of Conewango	Jordan Haines	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Dayton	Chris Rupp	Board Member	-	X	-	X	-	-	-	-	-	-	X	X
Town of Dayton	Aaron Huber	Supervisor	-	X	X	-	-	-	X	-	-	-	-	X
Town of Dayton	Larry Miller	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-



Jurisdiction	Name	Title	SC Member	PP Member	Primary Point of Contact	Secondary Point of Contact	NFIP FPA	SC Kick Off 110223	PP Kick Off 030724	PP RA-MSW, Morning 091824	PP RA-MSW, Afternoon 091824	Draft Plan Review, Afternoon 052025	Draft Plan Review, Evening 052025	Individual Jurisdictional Meeting
Town of Dayton	Jeff Holler	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Dayton	Paul Radke	Fire Department Member	-	X	-	-	-	-	-	-	-	-	-	X
Village of Delevan	John Stumpf	Mayor	-	X	-	-	-	-	-	-	-	-	-	-
Village of Delevan	Gina Maltby	Clerk	-	X	X	-	-	-	-	-	-	-	-	-
Village of Delevan	Daren Smith	Public Works Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Village of Delevan	Christopher Lexer	Code Enforcement Officer	-	X	-	-	X	-	X	-	-	-	-	X
Town of East Otto	Jeff Holmes	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of East Otto	Thomas Benz	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	X
Town of East Otto	Ann Rugg	Supervisor	-	X	X	-	-	-	-	-	-	-	-	-
Town of Ellicottville	Gregory Keyser	Town Planner	-	X	X	-	-	-	X	X	-	X	-	X
Town of Ellicottville	Matthew McAndrew	Supervisor	-	X	-	X	-	-	X	-	-	-	-	-
Town of Ellicottville	Kelly Fredrickson	Code Enforcement Officer	-	X	-	-	X	-	X	-	-	-	-	-
Village of Ellicottville	Gregory Keyser	Town Planner	-	X	X	-	-	-	X	X	-	X	-	X
Village of Ellicottville	Kelly Fredrickson	Code Enforcement Officer	-	X	-	-	X	-	X	-	-	-	-	-
Village of Ellicottville	Mark Chudy	Highway Superintendent	-	X	-	X	-	-	X	-	-	-	-	X



Jurisdiction	Name	Title	SC Member	PP Member	Primary Point of Contact	Secondary Point of Contact	NFIP FPA	SC Kick Off 110223	PP Kick Off 030724	PP RA-MSW, Morning 091824	PP RA-MSW, Afternoon 091824	Draft Plan Review, Afternoon 052025	Draft Plan Review, Evening 052025	Individual Jurisdictional Meeting
Town of Farmersville	Donna Vickman	Town Representative	-	X	X	-	-	-	X	-	-	-	-	X
Town of Farmersville	Pamela Tilton	Supervisor	-	X	-	X	-	-	X	-	-	-	-	X
Town of Farmersville	Scott Ludtka	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Franklinville	Catharyn Campbell	Supervisor	-	X	X	-	-	-	-	-	-	-	X	X
Town of Franklinville	Scott Stanbro	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	X	-
Town of Franklinville	Andrea Stanbro	Town Clerk	-	X	-	X	-	-	-	-	-	-	-	-
Town of Franklinville	Heather Stevens	Councilwoman	-	X	-	-	-	-	X	-	-	-	-	X
Town of Franklinville	Ben McDonnell	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of Franklinville	Ashley Schumaker	Mayor	-	X	-	-	-	-	-	-	-	-	-	-
Village of Franklinville	Patricia Sage	Clerk	-	X	-	X	-	-	-	-	-	-	-	-
Village of Franklinville	Cary Hatch	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	X
Village of Franklinville	John Helgager	Code Enforcement Officer	-	X	-	-	X	-	X	-	-	-	-	X
Town of Freedom	James Haggerty	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	X
Town of Freedom	Dustin Bliss	Supervisor	-	X	-	-	-	-	-	-	-	-	-	-
Town of Freedom	Mindy Holland	Town Clerk	-	X	-	X	-	-	-	-	-	-	-	-
Town of Freedom	Pat Cummings	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of Gowanda	Carol Sheibley	Deputy Mayor	-	X	X	-	-	-	-	-	-	-	-	X



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Village of Gowanda	David Smith	Mayor	-	X	-	-	-	-	-	-	-	-	-	-
Village of Gowanda	Nicholas Crassi	Disaster Coordinator	-	X	-	X	-	-	-	-	-	-	-	X
Village of Gowanda	Jason Pickering	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Great Valley	Jack Harrington	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of Great Valley	Richard Rinko	Code Enforcement Officer	-	X	-	X	X	-	-	-	-	-	-	-
Town of Great Valley	Daniel Brown	Supervisor	-	X	X	-	-	-	X	-	-	-	-	X
Town of Great Valley	Rebecca Kruszynski	Councilwoman	-	X	-	-	-	-	X	-	-	-	-	-
Town of Hinsdale	Jeff VanDeCar	Supervisor	-	X	X	-	-	-	-	-	-	-	-	X
Town of Hinsdale	Ted Mascho	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Hinsdale	Kelly Karst	Fire Chief	-	X	-	-	-	-	-	-	-	-	-	X
Town of Hinsdale	Ryan Reed	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Humphrey	Jason Pearl	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	-
Town of Humphrey	Margo Pearl	Former Supervisor	-	X	-	-	-	-	-	X	-	-	-	X
Town of Humphrey	Mary Weber	Town Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Town of Humphrey	Terry Fuller	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Humphrey	Carrie Childs	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Ischua	Kelle Brisky	Clerk	-	X	-	-	-	-	-	-	-	-	-	-



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Town of Ischua	Sean Tuttle	Former Supervisor	-	X	-	-	-	-	-	-	-	-	-	-
Town of Ischua	James Cline	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Ischua	Jeff Goodyear	Supervisor	-	X	X	-	-	-	-	-	-	-	-	-
Town of Ischua	Richard Michael	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Leon	Jeff Holler	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Leon	Fredrick Filock	Supervisor	-	X	X	-	-	-	X	X	-	-	-	X
Town of Leon	Joel Fiebelkorn	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Little Valley	Megan Morgenstern	Clerk	-	X	X	-	-	-	X	-	-	X	-	X
Town of Little Valley	Susan Koch	Clerk Emeritus	-	X	-	-	-	-	X	-	-	-	-	X
Town of Little Valley	Thomas J. Crouse	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Town of Little Valley	Gary Brecker	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of Little Valley	John Helgager	Code Enforcement Officer	-	X	-	X	X	-	X	-	-	-	-	X
Village of Little Valley	Jim Bowen	Mayor	-	X	-	-	-	-	X	X	-	X	-	X
Village of Little Valley	Kory Gross	Streets Superintendent	-	X	X	-	-	-	-	-	-	-	-	-
Town of Lyndon	Ryan Reed	Former Code Enforcement Officer	-	X	-	-	-	-	-	-	-	-	-	-



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Town of Lyndon	George Schneider	Highway Superintendent	-	X	X	-	-	-	-	-	-	-	-	X
Town of Lyndon	Frank Puglisi	Former Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Town of Lyndon	Bobbi Elderkin	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Lyndon	Emily Robinson	Clerk	-	X	-	X	-	-	-	-	-	-	-	-
Town of Machias	Joshua Dusterhus	Supervisor	-	X	-	-	-	-	-	-	-	-	-	-
Town of Machias	Tim Byroads	Highway Superintendent	-	X	X	-	-	-	X	X	-	-	-	X
Town of Machias	Scott Ludka	Code Enforcement Officer	-	X	-	X	X	-	-	-	-	-	-	-
Town of Machias	Timothy Smith	Deputy Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of Mansfield	Betty Horning	Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Town of Mansfield	Carl Calarco	Supervisor	-	X	X	-	-	-	X	-	-	-	-	-
Town of Mansfield	Jeffrey Williams	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	X
Town of Mansfield	Jeff Holler	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Napoli	Jeff Holler	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Napoli	Dan Martonis	Supervisor	-	X	X	-	-	-	-	-	-	-	-	X
Town of Napoli	Jared Stacey	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-



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Town of Napoli	Dale Blood	Former Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of New Albion	Sherry Rupp	Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Town of New Albion	George Borrowdale	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	X
Town of New Albion	Patrick Murphy	Supervisor	-	X	X	-	-	-	X	-	-	-	-	-
Town of New Albion	Frank Watson	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
City of Olean	David Crandall	Senior Engineer	-	X	-	-	-	-	-	-	-	-	-	-
City of Olean	William Aiello	Mayor	-	X	-	-	-	-	-	-	-	X	-	-
City of Olean	James Sprague	Public Works Director	-	X	X	-	-	-	-	-	-	-	-	-
City of Olean	Ben Slotman	Former DPW Director	-	X	-	-	-	-	-	-	-	-	-	X
City of Olean	Brad Camp	W/S Supervisor	-	X	-	-	-	-	-	-	-	-	-	X
City of Olean	Eric Maurouard	Fire Chief	-	X	-	X	X	-	-	-	X	X	-	-
City of Olean	Bob Ring	Former Public Works Director	-	X	-	-	-	-	-	-	-	-	-	-
Town of Olean	Patrick Zink	Hwy Superintendent	-	X	X	-	-	-	X	-	-	-	-	X
Town of Olean	Annette Parker	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Olean	Gerald Dzurhoff	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Otto	Ron Wasmund	Former Supervisor	-	X	-	-	-	-	-	-	-	-	-	-
Town of Otto	Robert Barber	Highway Superintendent	-	X	X	-	-	-	X	-	-	-	-	X



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Town of Otto	Jeff Holler	Building Inspector	-	X	-	-	X	-	-	-	-	-	-	-
Town of Otto	Paul Stang	Deputy Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Perrysburg	David Heckman	Code Enforcement Officer	-	X	-	X	X	-	-	-	X	-	-	-
Town of Perrysburg	Daniel Stang	Highway Superintendent	-	X	X	-	-	-	X	-	-	-	-	X
Town of Persia	John Walgus	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Persia	Melvin Shaw	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Persia	Daniel Ackley	Highway Superintendent	-	X	X	-	-	-	X	-	-	-	-	X
Town of Portville	John Krist	Code Enforcement Officer	-	X	X	-	X	-	-	-	-	-	-	-
Town of Portville	Tim Emley	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-
Town of Portville	Todd Shaw	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Village of Portville	Andy Hall	Public Works Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
Village of Portville	Edward Jennings	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of Portville	Anthony Evans	Mayor	-	X	X	-	-	-	X	-	-	X	-	X
Town of Randolph	Tim Poitras	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of Randolph	Dale Senn	Supervisor	-	X	-	X	-	-	-	-	-	-	-	-



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Town of Randolph	Cody Uhl	Highway Superintendent	-	X	X	-	-	-	X	-	X	-	-	X
Town of Red House	Tamara Booth	Supervisor	-	X	X	-	-	-	-	-	-	-	-	-
Town of Red House	Brian Booth	Highway Superintendent	-	X	-	X	-	-	-	-	-	-	-	-
City of Salamanca	Dennis Hensel	BPU General Manager	-	X	-	-	-	-	-	-	-	-	-	-
City of Salamanca	Robert Carpenter	Superintendent of Highways	-	X	-	X	-	-	-	-	-	-	-	-
City of Salamanca	Tom Sturdevant	Fire Chief	-	X	X	-	-	-	X	-	-	-	-	X
City of Salamanca	Jim Nelligan	Public Works Employee	-	X	-	-	-	-	-	-	-	-	-	-
City of Salamanca	Brandon Smith	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
City of Salamanca	Cynthia Franklin	Assessor	-	X	-	-	-	-	-	-	-	-	-	-
Town of Salamanca	Charles Oyler	Supervisor	-	X	X	-	-	-	-	-	-	-	-	X
Town of Salamanca	Shelley Bryant	Clerk	-	X	-	X	-	-	-	-	-	-	-	-
Town of Salamanca	Fred Light	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of Salamanca	Michael Anderson	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Village of South Dayton	Steve Pollock	DPW Superintendent	-	X	-	X	-	-	X	-	-	X	-	X
Village of South Dayton	Robert Killock	Mayor	-	X	X	-	-	-	X	-	-	-	-	-
Village of South Dayton	Stephen Raiport	Disaster Control Coordinator	-	X	-	-	-	-	-	-	-	-	-	-



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Village of South Dayton	David Heckman	Building Inspector	-	X	-	-	X	-	-	-	-	-	-	-
Village of South Dayton	Kim Ramsdell	Councilperson	-	X	-	-	-	-	-	-	-	-	-	-
Town of South Valley	Lawrence Ditonto	Former Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of South Valley	Mary Ruth	Clerk	-	X	-	X	-	-	X	-	-	-	-	-
Town of South Valley	Heather Lamberson	Supervisor	-	X	X	-	-	-	X	-	-	-	-	X
Town of South Valley	Ben Kachermeyer	Member of the Public	-	X	-	-	-	-	-	-	-	-	-	X
Town of South Valley	Dave Heckman	Code Enforcement Officer	-	X	-	-	X	-	-	-	-	-	-	-
Town of South Valley	Tyler Mendell	Highway Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Town of South Valley	Kim Ramsdell	Councilperson	-	X	-	-	-	-	-	-	X	-	-	-
Town of Yorkshire	Christopher Lexer	Highway Superintendent / CEO	-	X	X	-	X	-	X	-	-	-	X	X
Town of Yorkshire	Marcia Lexer	Supervisor	-	X	-	X	-	-	X	-	-	-	X	-
Town of Yorkshire	Donna Lavery	Town Clerk	-	X	-	-	-	-	-	-	-	-	-	-
Cattaraugus CSD	Kristy Sicignano	Deputy	-	X	-	-	-	-	-	X	-	-	-	-
Cattaraugus-Little Valley CSD	David Foster	Superintendent	-	X	-	-	-	-	-	-	-	X	-	-
Ellicottville CSD	Robert Miller	Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Franklinville CSD	Donna Howard	Business Official	-	X	-	-	-	-	-	-	-	-	-	-
Franklinville CSD	Donald Putnam	Superintendent	-	X	-	-	-	-	-	-	-	-	-	X
Allegany CSD	Paige Kinnaird	Director of Instruction	-	X	-	-	-	-	-	X	-	-	-	-



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West Valley CSD	Taweepon Farrar	Superintendent	-	X	-	-	-	-	-	-	-	-	-	X
Yorkshire-Pioneer CSD	Nicholas Silvaroli	Superintendent	-	X	-	-	-	-	-	-	-	-	-	-
Little Valley CSD	Sharon Huff	Superintendent	-	X	-	-	-	-	X	-	-	-	-	-
Little Valley CSD	Wayne McGuire	Director of Facilities	-	X	-	-	-	-	-	-	-	-	-	X
Randolph Central School	Kale Luce	School Resource Officer	-	X	-	-	-	-	-	-	-	-	-	X
Randolph Central School	Charles Shevlin	School Business Executive	-	X	-	-	-	-	-	X	-	-	-	-
Gowanda CSD	Richard Smith	Director of Facilities	-	X	-	-	-	-	-	-	-	-	-	X
Seneca Nation of Indians	Michael Gates	Emergency Manager	-	X	-	-	-	-	-	-	-	X	-	-
NYS DHSES	Roland Paperman	Representative	-	X	-	-	-	-	X	-	-	-	-	-
NYS DHSES	Kevin Clapp	Representative	-	X	-	-	-	-	-	X	X	X	-	X
NYS DHSES	Shannon Al-Jabu	Chief of Hazard Mitigation	-	X	-	-	-	-	-	-	-	X	-	-
NYS DHSES	John Wilkinson	Hazard Mitigation Project Manager	-	X	-	-	-	-	-	-	-	X	-	-
FEMA	Paul Hoole	Mitigation Planner	-	X	-	-	-	-	-	-	-	X	-	-
USACE Buffalo	Laura Ortiz	Project Manager	-	X	-	-	-	-	-	-	X	X	-	-
Tetra Tech	Tony Subbio	Former Project Manager	X	X	-	-	-	X	X	-	-	-	-	-
Tetra Tech	Jessica Stokes	Project Manager	X	X	-	-	-	-	-	X	X	X	X	X
Tetra Tech	Emily Vassallo	Lead Planner	X	X	-	-	-	-	-	X	X	X	X	X

Notes:

- = Not applicable



SC = Steering Committee
PP = Planning Partnership
RA = Risk Assessment
MSW = Mitigation Strategy Workshop

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.

Action Name:		
Lead Agency:		
Supporting Agencies:		
Hazard(s) of Concern:	<input type="checkbox"/> Dam and Levee Failure <input type="checkbox"/> Landslide <input type="checkbox"/> Flood <input type="checkbox"/> Pandemic	<input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Utility Failure <input type="checkbox"/> Wildfire
Description of the Problem:		
Description of the Solution:		
Estimated Cost:		
Potential Funding Sources:		
Implementation Timeline:		
Goals Met:		
Benefits:		
Impact on Socially Vulnerable Populations:		
Impact on Future Development:		
Impact on Critical Facilities/Lifelines:		
Impact on Capabilities:		
Climate Change Considerations:		
Mitigation Category	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category	<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)
Priority	<input type="checkbox"/> High	<input type="checkbox"/> Medium
Alternatives:	Action	Evaluation
	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 Cattaraugus County Hazard Mitigation Plan include:

- Dam and Levee Failure
- Flood
- Landslide
- Pandemic
- Severe Storm
- Severe Winter Storm
- Utility Failure
- 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, environment, economy, and critical infrastructure from hazard impacts.
- Goal 2: Coordinate hazard mitigation programs and other planning efforts that affect the County.
- Goal 3: Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.
- Goal 4: Enhance mitigation capabilities to reduce hazard vulnerabilities.
- Goal 5: Support continuity of operations pre-, during, and post-hazard events



- Goal 6: Reduce the risk of natural hazards for socially vulnerable populations
- 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

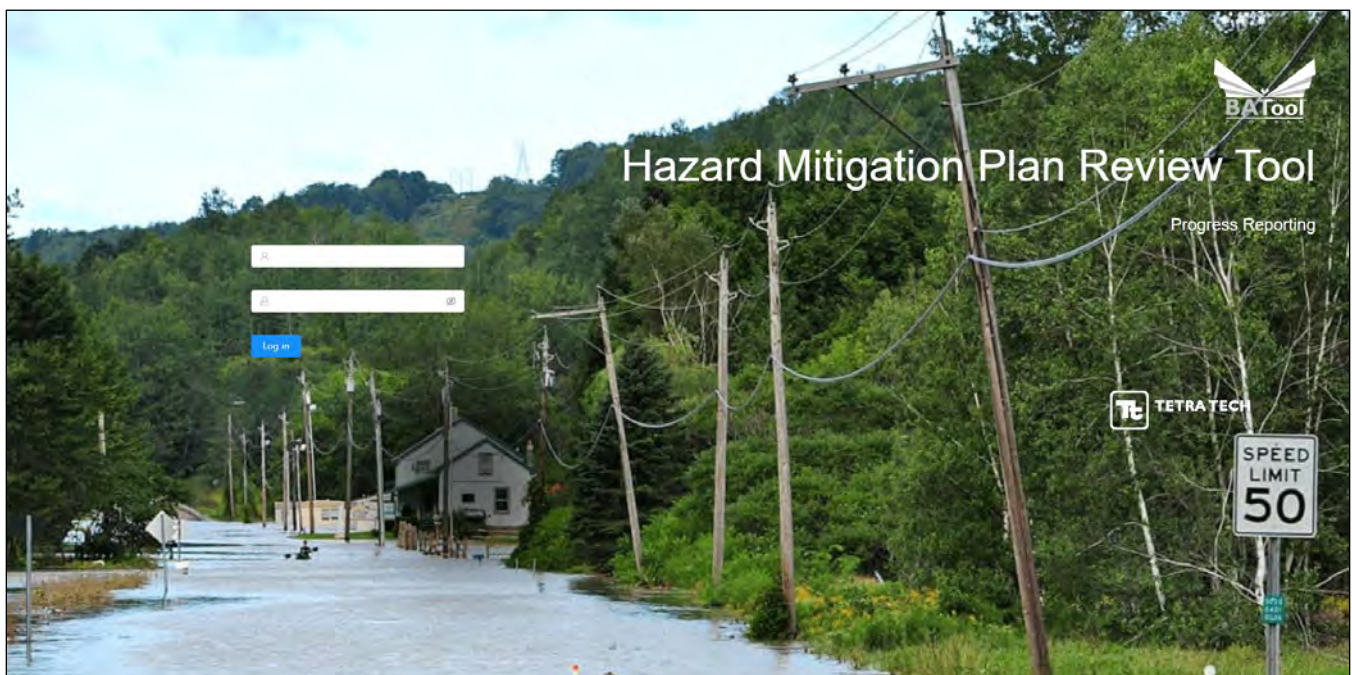


This appendix includes tools and worksheets to facilitate plan maintenance and review by the Cattaraugus County Steering Committee and Planning Partnership.

In the first year of the performance period, an online performance progress reporting system, the BAToolSM 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. BAToolSM 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.



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?



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?		
Comments/Proposed Action:		
Are there organizations that have been invaluable to the planning process or to project implementation that should be represented on the planning team?		
Comments/Proposed Action:		
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?		
Comments/Proposed Action:		
Are there procedures (e.g., signing of MOAs, commenting on submitted progress reports, distributing meeting minutes, etc.) that can be done more efficiently?		
Comments/Proposed Action:		
Are there ways to gain more diverse and widespread cooperation?		
Comments/Proposed Action:		
Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?		
Comments/Proposed Action:		

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): _____



Was the action implemented? YES 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



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
Identify hazards	Are there new hazards that can affect your community?			
Profile hazard events	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?			
Inventory assets	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?			
Estimate losses	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.	
Comments:	
2. Reconvene the planning team, making changes to the team composition as necessary (see results from Worksheet #2).	
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.	
Comments:	
2. The results of the mitigation efforts.	
Comments:	



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:	



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 Cattaraugus County Department of Public Works. Contact Kimberly A. Merrill (kamerrill@cattco.org) to request the list.

APPENDIX H: MITIGATION STRATEGY SUPPLEMENTARY DATA



This appendix summarizes additional activities and resources provided to plan participants to support the update of the mitigation strategy.

2020 Goals and Objectives Review

Cattaraugus 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, environment, economy, and critical infrastructure from hazard impacts.
2	Coordinate hazard mitigation programs and other planning efforts that affect the County.
3	Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts.
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
7	Address long-term vulnerabilities from High Hazard Dams.

Table I-2. 2025 Objectives

Objective Number	2025 Objectives
1.1	Encourage the use of green and natural infrastructure.
1.2	Coordinate with local, County, state, federal, international, and other stakeholder agencies to maintain natural systems, including wetlands, parks, and riverine and coastal areas.
1.3	Prevent (or discourage) new development in hazardous areas or ensure that if building occurs in high-risk areas that it is done in such a way as to minimize risk.
1.4	Reduce the risk of utility failure.
1.5	Identify the need for, and acquire, any special emergency services, training, and equipment to enhance response capabilities for specific hazards.
1.6	Enhance sheltering capabilities at the local level.
1.7	Protect, maintain, and increase resilience of infrastructure and critical facilities.
1.8	Reduce repetitive and severe repetitive losses.
2.1	Assure coordination between communities and encourage shared services in acquiring, maintaining and providing emergency services.
2.2	Identify and pursue funding opportunities to develop and implement local and county mitigation activities.
2.3	Review and incorporate updated hazard data into the County Hazard Mitigation Plan and other county and local planning mechanisms.
2.4	Increase support for the development of local mitigation planning and projects that provide co-benefits and support a healthy and equitable environment.



Objective Number	2025 Objectives
3.1	Enhance stakeholder education and training about hazard risks and mitigation.
3.2	Strengthen understanding of, and adaptation to, a changing climate.
3.3	Provide/Improve flood protection with flood control structures, and drainage maintenance plans.
3.4	Better characterize flood/stormwater hazard events by conducting additional hazard studies and identify inadequate stormwater facilities and poorly drained areas.
4.1	Develop, enhance, and protect early warning and emergency communications systems.
4.2	Improve and support Comprehensive Regional Evacuation Plan.
4.3	Strengthen County and local planning, building codes, ordinances, and enforcement.
4.4	Review existing local laws and ordinances, safety inspection procedures, and applicable rules to help ensure that they employ the most recent and generally accepted standards for the protection of buildings and environmental resources.
5.1	Ensure continuity of government operations, emergency services and essential facilities during and immediately after disaster and hazard events.
5.2	Increase resiliency by facilitating rapid disaster recovery.
5.3	Support and encourage the implementation of alternative energy source.
5.4	Implement mitigation measures that promote the reliability of lifeline systems.
6.1	Encourage the establishment of policies to help ensure the prioritization and implementation of mitigation actions and/or projects designed to benefit socially vulnerable populations and underserved communities.
6.2	Promote sustainable and equitable land development practices that direct future development away from vulnerable areas.
6.3	Encourage and support multi-jurisdictional mitigation projects that leverage funding and support from multiple levels of government and community organizations.
7.1	Ensure that dam infrastructure is maintained.
7.2	Support the identification and access to funding to repair, rehabilitate, or replace dams.

MITIGATION STRATEGY WORKSHOP RESOURCES

On September 17, 2024, two Mitigation Strategy Workshops were held for all plan participants. The workshops were held in-person, with options to attend a morning or evening meeting at the Little Valley Fire Hall (101 3rd St, Little Valley, NY 14755) and was led by the contract consultant. Following each meeting, participating jurisdictions had the opportunity to work in-person with the contracting consultant. Furthermore, these meetings were supplemented by emails and phone calls between Cattaraugus 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 workshops 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).

1. FEMA Local Mitigation Handbook



2. Public Survey Results
3. FEMA Mitigation Action Types (Table I-5)
4. FEMA Mitigation Ideas
5. FEMA Project Useful Life Factsheet
6. Mitigation Funding Sources at the Federal, State, and Local levels (Table I-6)
7. FEMA Region 2 Funding Sources for New York
8. FEMA Ecosystem Services
9. 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"> • Comprehensive plans • Land use ordinances • Subdivision regulations • Development review • Building codes and enforcement • NFIP Community Rating System • Capital improvement programs • Open space preservation • Stormwater management regulations and master plans
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"> • Acquisitions and elevations of structures in flood prone areas • Utility undergrounding • Structural retrofits • Floodwalls and retaining walls • Detention and retention structures • Culverts • Safe rooms



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">• Sediment and erosion control• Stream corridor restoration• Forest management• Conservation easements• Wetland restoration and preservation
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">• Radio or television spots• Websites with maps and information• Real estate disclosure• Presentations to school groups or neighborhood organizations• Mailings to residents in hazard-prone areas• StormReady• Firewise Communities



Potential Mitigation Funding Sources

While it is important to recognize the mitigation strategies for Cattaraugus 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
Federal			
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	https://www.fema.gov/hazard-mitigation-assistance
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	https://www.fema.gov/flood-mitigation-assistance-grant-program
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	https://www.fema.gov/hazard-mitigation-grant-program
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	https://www.fema.gov/grants/mitigation/building-resilient-infrastructure-communities
Public Assistance: Hazard Mitigation Funding Under Section 406	Hazard mitigation discretionary funding available under Section 406 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act following a Presidentially declared disaster	FEMA	https://www.fema.gov/press-release/20220328/fema-hazard-mitigation-grants-404-and-406



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	https://www.fema.gov/welcome-assistance-firefighters-grant-program
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	https://www.grants.gov/web/grants/view-opportunity.html?oppld=316238
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	https://www.fema.gov/fire-management-assistance-grant-program
Disaster Housing Program	Emergency assistance for housing, including minor repair of home to establish livable conditions, mortgage, and rental assistance	HUD	https://www.hud.gov/program_offices/public_indian_housing/publications/dhap
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	https://www.hud.gov/program_offices/comm_planning/affordablehousing/programs/home/
HUD Disaster Recovery Assistance	Grants to fund gaps in available recovery assistance after disasters (including mitigation)	HUD	https://www.hud.gov/info/disasterresources
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	https://www.hudexchange.info/programs/section-108/
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	https://www.epa.gov/smartgrowth



Program	Description	Lead Agency	Website
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	https://www.fws.gov/partners/
FHWA Emergency Relief Program	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)	https://www.fhwa.dot.gov/programadmin/erelief.cfm
Transportation Investment Generating Economic Recovery (TIGER)	Investing in critical road, rail, transit, and port projects across the nation	U.S. DOT	https://www.transportation.gov/tags/tiger-grants
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	https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program
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	https://www.fsa.usda.gov/programs-and-services/farm-loan-programs/emergency-farm-loans/index
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	https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/landscape/ewpp/
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	https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/
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	https://www.fema.gov/emergency-management-performance-grant-program
Reimbursement for Firefighting on Federal Property	Provides reimbursement only for direct costs and losses over and above normal operating costs.	U.S. DHS	https://www.usfa.fema.gov/grants/firefighting_federal_property.html



Program	Description	Lead Agency	Website
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	https://www.dhs.gov/homeland-security-grant-program-hsgp
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	https://www.nps.gov/subjects/lwcf/index.htm
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	https://www.doi.gov/lwcf
USSBA	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)	https://www.sba.gov/funding-programs/disaster-assistance
State, Local, and Private			
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	https://www.nfwf.org/programs/acres-america-program



Program	Description	Lead Agency	Website
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	https://dos.ny.gov/local-waterfront-revitalization-program
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	https://www.fundersnetwork.org/partners-for-places/
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	https://www.wcsclimateadaptationfund.org/



Mitigation Catalog

The table below provides a list of potential personal, corporate, and government scale mitigation actions for each of the identified natural hazards in the Cattaraugus County HMP. Please note that this table is 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. Cattaraugus County Mitigation Catalog

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



DAM FAILURE		
Personal Scale	Corporate Scale	Government Scale
		provided by dams in future land use decisions.



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



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"> • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Harden structures and infrastructure (wet and dry-floodproofing). • Provide redundancy for critical functions and infrastructure. • Adopt appropriate regulatory standards such as cumulative substantial improvement/damage, freeboard, lower substantial damage threshold, compensatory storage. • Stormwater management regulations and master planning. • Adopt "no-adverse impact" floodplain management policies that strive to not increase the flood risk on down-stream communities. • Participate in the Community Rating System (CRS). • Implement as-built regulatory requirements. • Implement site review ordinances/requirements. • Establish stream maintenance programs with stakeholders (e.g. Soil and Water Conservation District) - support county leads of such efforts. • Incorporate retrofitting/replacement of critical facilities and infrastructure in Capital Improvement Plans (CIPs). • Promote the use of vegetation/plants as green erosion control measures to reduce localized flooding. • Work with environmental groups to address removal of debris, log jams, etc. in flood vulnerable stream sections. • Increase Capability: <ul style="list-style-type: none"> • Produce better hazard maps, and improve access to flood hazard mapping • Capture/survey "high-water" marks during flood events.



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none"> • Provide technical information and guidance on appropriate mitigation options available to businesses and homeowners. • Enact tools to help manage development in hazard areas (stronger controls, tax incentives, information). • Establish an additional layer of zoning within flood hazard areas. • Develop strategy to take advantage of post disaster opportunities. • Improve compliance with and enforcement of the NFIP. • Develop mitigation partnerships with regional stakeholders. • Join Community Rating System (CRS) program, or improve level of participation in CRS. • Develop and implement a public information strategy for flood hazard awareness, flood insurance (NFIP) and mitigation. • Maintain existing data as well as gather new data needed to define risks and vulnerability. • Create a building and elevation inventory of structures in the floodplain • Identify flood prone areas that may be in need of new flood studies. • Establish a program to identify and educate owners of flood-prone properties of potential mitigation options (e.g. elevations, relocations). • Charge a hazard mitigation fee on all new permits to create a hazard mitigation funding source for initiatives or grant cost share requirements. • Integrate floodplain management policies into other planning mechanisms within the planning area.



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">• Establish a Stormwater Utility to deal with urban drainage/flooding issues.• Establish incentives to promote flood hazard mitigation of private property (e.g. permit fee waivers).• Adopt ordinances/standards for cumulative damages and/or improvements.• Upgrade NFIP Floodplain ordinance, as well as other ordinances to current or above current state and federal standards.• Develop and adopt a COOP.• Join "Storm Ready" Program.• Participate in county and regional training programs.• Provide additional training/certification to NFIP floodplain administrators and code officials.• Implement annual training to account for turnover of municipal officials.• Maintain and enhance flood forecasting ability, including the establishment and maintenance of critical stream gages.• Explore grant funding opportunities and potential partnerships to help maintain existing gages and install additional gages to improve forecasting and flood warning ability.• Promote awareness and participation in alert systems.• Support and participate in regional flood management efforts.• Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.• Provide continued and enhanced training for emergency responders.• Establish a revolving "bank" or budget line item to fund grant application support.• Continue to review updated Flood Insurance Rate Maps



FLOOD		
Personal Scale	Corporate Scale	Government Scale
		<p>to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.</p> <ul style="list-style-type: none">• Provide trainings for FPA's on the NFIP/Floodplain Best Practices and also pursue CFM accreditation for municipal FPA's.• Build and maintain relationships to develop regional watershed/floodplain mitigation solutions.• Pursue grant funding opportunities to fund repairs of catchments and infrastructure on a proactive basis.• Explore grant funding opportunities related to climate change to fund mitigation projects.



LANDSLIDE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep slopes. Reduce exposure to the hazard: <ul style="list-style-type: none"> None Reduce vulnerability to the hazard: <ul style="list-style-type: none"> None Increase Capability: <ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> None Reduce vulnerability to the hazard: <ul style="list-style-type: none"> None Increase Capability: <ul style="list-style-type: none"> None 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> Implement reinforcement measures in high-risk areas. Use debris flow measures that may reduce damage in sloping areas, such as stabilization, emergency dissipation, and flow control measures. Apply soil stabilization measures, such as planting soil stabilizing vegetation on steep, publicly owned slopes. Reduce exposure to the hazard: <ul style="list-style-type: none"> Consider hazard areas in land-use planning, zoning, and development siting. Acquire structures in highest hazard areas (demolish and convert to restricted open space). Relocation of Structures. Open Space Preservation. Create or increase setback limits on parcels near high-risk parcels. Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Consider hazard areas in land-use planning and development siting. Stabilize vulnerable slopes near structures and infrastructure. Work with stakeholders such as USGS to develop appropriate risk reduction strategies. Install catch-fall nets for rocks at steep slopes near roadways. Increase Capability: <ul style="list-style-type: none"> Increase understanding of hazard areas (e.g. Landslide Susceptibility Maps) - geotechnical surveys, LIDAR and mapping. Assessing vegetation in wildfire-prone areas to prevent landslides after fires



LANDSLIDE		
Personal Scale	Corporate Scale	Government Scale
		<p>(e.g. encourage plants with strong root systems).</p> <ul style="list-style-type: none">• Work with stakeholders such as USGS to develop appropriate risk reduction strategies.• Support and implement hazard disclosure for the sale/re-sale of property in identified risk zones.• Develop county-level programs to document slide events (landslide inventory), and maintain its currency.



PANDEMIC		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> Proper hygiene. PPE. Social distancing. Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Focus on personal health. Increase Capability: <ul style="list-style-type: none"> Storage of PPE. Storage of supplies and food to reduce need to enter public spaces. 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> PPE. Social distancing. Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Distanced work environment. Regular cleaning of work environment. Increase Capability: <ul style="list-style-type: none"> Storage of PPE. Equipment for monitoring. Trainings for staff. 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> PPE. Social distancing. Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Distanced work environment. Regular cleaning of work environment. Increase Capability: <ul style="list-style-type: none"> Storage of PPE. Equipment for monitoring/treatment. Trainings for staff. Public outreach.



SEVERE STORM		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Retrofit structures (improved roofing, glazing, insulation, etc.). • Provide for redundant heat and power. • Contact municipality or utilities to trim or remove trees that could affect power lines. • Plant appropriate trees near home and power lines ("Right tree, right place" National Arbor Day Foundation Program. • Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold. • Increase Capability: <ul style="list-style-type: none"> • Improve awareness of impending severe storms (e.g. obtain a NOAA weather radio). • Promote 72-hour self-sufficiency. • Provide for redundant heat and power. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Relocate critical infrastructure, such as power lines, underground. • Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations. • Retrofit pipes including locating water pipes on the inside of building insulation or keeping them out of vulnerable spaces to extreme cold. • Increase Capability: <ul style="list-style-type: none"> • Contact municipality or utilities to trim or remove trees that could affect power lines. • Create redundancy (e.g. backup generators). • Improve awareness of impending severe storms (e.g. obtain a NOAA weather radio). • Develop a Continuity of Operations Plan (COOP). • Monitor impending storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services. • Set rules restricting outdoor work during extreme temperature events. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Harden infrastructure such as locating utilities underground. • Trimming trees back from power lines. • Designate and strengthen critical road sections and bridges. • Adopt ordinances that regulate the type and quantity of trees planted near utility lines. • Relocate critical infrastructure, such as power lines, underground. • Require minimum temperatures in housing/landlord codes. • Increase Capability: <ul style="list-style-type: none"> • Support programs such as "Tree Watch" that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc. • Enforce building codes. • Increase communication alternatives. • Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors. • Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines. • Promote awareness and participation in alert systems.



SEVERE STORM		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">• Provide NOAA weather radios to the public.• Create/Enhance "mutual aid" agreements for response to all emergencies.• Create/identify evacuation routes to be utilized during severe storm events.• Develop debris management plans.• Join "Storm-Ready" program.• 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.• Promote emergency power supplies to private property.• Improve, expand, or harden communications facilities and services.• Recruit additional emergency personnel or use mutual aid agreements.• Increase sheltering capabilities.• Increase capability to respond to power outages and downed power lines. Establish partnerships with utility providers through proactive planning.• 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.



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



SEVERE WINTER STORM		
Personal Scale	Corporate Scale	Government Scale
		<ul style="list-style-type: none">• Enhance public awareness campaigns to address those issues of alert and warning and actions to take during severe weather events.• Utilize the best available technology to enhance the warning systems for all severe weather events (i.e.: tornado warning systems).• Coordinate severe weather warning capabilities and the dissemination of warning amongst those agencies within the planning are with the highest degree of capability.• Encourage local ordinances for planting tree near lines and join Tree City USA.• Increase tree management programs.• Join the Community Rating System.• Join "Storm-Ready".• Retrofit critical structures and promote hazard resistant construction.• Keep open communications and education of hazards for mobile home communities.• Retrofit above-ground utilities to underground facilities if appropriate.• Create a salt reserve or research alternates to stretch salt reserve.• Ensure accessibility to hospitals.• Provide better debris logistics and removal.• Provide better communication systems and back-up communication systems to inform public of hazards and to communicate during the hazard event.



UTILITY FAILURE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> Plant appropriate trees near home and power lines (“Right tree, right place” National Arbor Day Foundation). Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Provide redundant heat and power. Install emergency generator Insulate structure Increase Capability: <ul style="list-style-type: none"> Trim or remove trees that could affect power lines. Prepare emergency food and supplies to be self-sufficient for at least 72 hours in the event of a severe winter storm. Be aware of inclement weather conditions and move your vehicles off the street as severe weather systems approach. Retrofit structures. 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> None Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Relocate critical infrastructure, such as power lines, underground Reinforce or relocate critical infrastructure such as powerlines so that it meets performance expectations Install tree wire Increase Capability: <ul style="list-style-type: none"> Trim or remove trees that could affect power lines Create redundancy in utilities and communications 	<ul style="list-style-type: none"> Manipulate the Hazard: <ul style="list-style-type: none"> None Reduce exposure to the hazard: <ul style="list-style-type: none"> None Reduce vulnerability to the hazard: <ul style="list-style-type: none"> Harden infrastructure such as locating utilities underground where appropriate Trimming trees back from power lines Provide backup power sources at vital critical facilities Increase Capability: <ul style="list-style-type: none"> Support programs that proactively manage problem areas by use of selective removal of hazardous trees, tree replacement, etc. Modify land use and environmental regulations to support vegetation management activities that improve reliability in utility corridors Modify landscape and other ordinances to encourage appropriate planting near overhead power, cable, and phone lines Encourage local ordinances for planting tree near lines and join Tree City USA Increase tree management programs Retrofit critical structures and promote hazard resistant construction Retrofit above-ground utilities to underground facilities if appropriate



WILDFIRE		
Personal Scale	Corporate Scale	Government Scale
<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • Clear potential fuels on property; dry, overgrown underbrush; diseased trees. • Reduce exposure to the hazard: <ul style="list-style-type: none"> • Clean and maintain defensible space around structures. • Locate outside hazard area. • Mow regularly. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Create and maintain defensible space around structures, provide water on site. • Use fire-retardant building materials. • Create defensible spaces around your home. • Increase Capability: <ul style="list-style-type: none"> • Employ Firewise techniques to safeguard your home. • Identify alternative water supply points proximate to your home such as swimming pools, lakes, streams. • Support your local fire department. • Be aware of weather conditions that support/enhance the probability of wildfires. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • None • Reduce exposure to the hazard: <ul style="list-style-type: none"> • None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Create and maintain defensible space around structure and infrastructure and provide water onsite. • Use fire-retardant building materials. • Provide stored water to be utilized for firefighting with appropriate fire department connections at facilities not equipped with fire hydrants or inadequate fire hydrant spacing. • Increase Capability: <ul style="list-style-type: none"> • Support Firewise community initiatives. 	<ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • None • Reduce exposure to the hazard: <ul style="list-style-type: none"> • Clear fuels (dry underbrush, diseased trees) on land that can trigger and maintain wildfires. • Implement Best Management Practices on public lands. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Create and maintain defensible space around structure and infrastructure. • Higher regulatory standards. • Establish water main supply and hydrants in unhydranted areas. • Decrease hydrant spacing. • Increase Capability: <ul style="list-style-type: none"> • More public outreach and education efforts including an active "Firewise" program. • Identify fire response and alternative evacuation routes. • Seek alternative water supplies in urban wildland interface areas. • Become a "Firewise" community. • Increase capability to fight wildfires utilizing equipment that can support wildfire fighting such as: tankers, engines with "pump-and-run" capabilities, dump tanks for tanker shuttle operations. • Develop/implement wildfire management plans. • Establish Mutual Aid Agreements with the Tender Task Force • Develop a Water Supply Plan.

APPENDIX I: NYS DHSES PLANNING GUIDANCE



This appendix includes the 2020 NYS DHSES planning standards and guidelines for hazard mitigation planning.



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

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, which ever 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 <small>(section and/or page number)</small>	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)			
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?			
Note: 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.			
<u>ELEMENT H: REQUIRED REVISIONS</u>			
<u>Please see opportunities for improvement</u>			