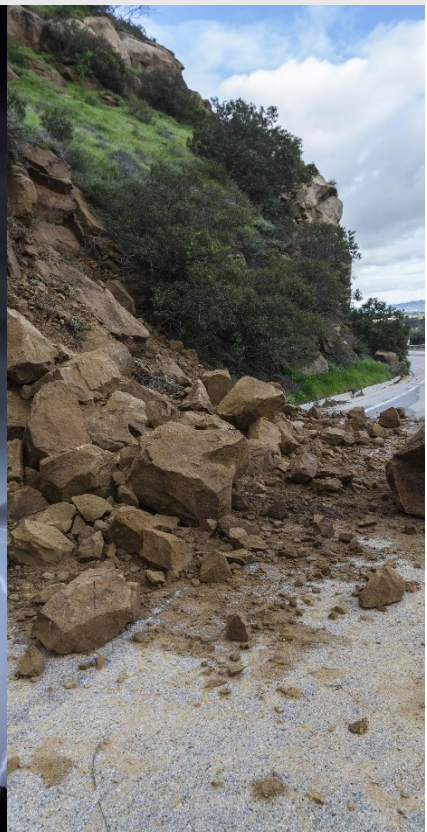




Yates County, New York

Hazard Mitigation Plan

Volume III—Appendices



September 2025



2025 Yates County Hazard Mitigation Plan

September 2025
#105s039507

PREPARED FOR

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DRAFT





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ACRONYMS AND ABBREVIATIONS

| | |
|----------|--|
| % | Percent |
| ACOE | Army Corps of Engineers |
| ACS | American Community Survey |
| ADA | Americans with Disabilities Act |
| AICP | American Institute of Certified Planners |
| ACE | Annual Chance Exceedance |
| ANSS | Advanced National Seismic System |
| APA | Approval Pending Adoption |
| ARC | American Red Cross |
| ASCE | American Society of Civil Engineers |
| ALICE | Asset Limited, Income Constrained, Employed |
| ASDSO | Association of State Dam Safety Officials |
| BCA | Benefit Cost Analysis |
| BCEGS | Building Code Effectiveness Grading Schedule |
| BFE | Base Flood Elevation |
| BOA | Brownfield Opportunity Area |
| BOCES | Board of Cooperative Educational Services of New York State |
| BUI | Buildup Index |
| C | City |
| CBS | Chemical Bulk Storage |
| CAC | Community Assistance Contacts |
| CAP-SSSE | Compliance Assistance Program – State Support Services Element |
| CAV | Community Assisted Visit |
| CCAHA | Conservation Center for Art and Historic Artifacts |
| CCE | Cornell Cooperative Extension |
| CDBG | Community Development Block Grant |
| CDBG-DR | Community Development Block Grant Disaster Recovery |



| | |
|----------|---|
| CDC | Centers for Disease Control |
| CDMS | Comprehensive Data Management System |
| CEDAR | Code Enforcement Disaster Assistance Response |
| CEMP | Comprehensive Emergency Management Program |
| CEO | Chief Executive Officer |
| CFR | Code of Federal Regulations |
| CIP | Capital Improvement Plan |
| CMP | Coastal Management Program |
| COOP/COG | Continuity of Operations/Continuity of Government |
| COAD | Community Organizations Active in Disaster |
| CPC | Climate Prediction Center |
| C-PUD | Commercial Planned Unit Development |
| CRREL | Cold Regions Research and Engineering Laboratory |
| CRS | Community Rating System |
| CERCLIS | Comprehensive Environmental Response, Compensation and Liability Information System |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CSC | Climate Smart Communities (NYSDEC) |
| CSD | Central School District |
| COVID | Coronavirus Disease |
| CPR | Cardiopulmonary Resuscitation |
| CRRA | Community Risk and Resiliency Act |
| CWA | Clean Water Act |
| CWSRF | Clean Water State Revolving Fund |
| DBSC | Division of Building Standards and Codes |
| DEM | Digital Elevation Model |
| DFIRM | Digital Flood Insurance Rate Map |
| DHS | Department of Homeland Security |
| DI | Damage Indicators |



| | |
|----------|--|
| DOD | Degree of Damage |
| DMA 2000 | Disaster Mitigation Act of 2000 |
| DPW | Department of Public Works |
| DCPW | Deputy Commissioner of Public Works |
| DR | Major Disaster Declaration (FEMA) |
| DRI | Downtown Revitalization Initiative |
| DOH | Department of Health |
| DOS | Department of State |
| DOT | Department of Transportation |
| EAB | Emerald Ash Borer |
| EAP | Emergency Action Plan |
| ECL | Environmental Conservation Law |
| EDD | Early Detection and Distribution |
| EF | Enhanced Fujita Scale |
| EFC | Environmental Facilities Corporation |
| EM | Emergency Declaration (FEMA) |
| EMPG | Emergency Management Program Grant |
| EMS | Emergency Medical Services |
| EPF | Environmental Protection Fund |
| EOC | Emergency Operation Center |
| EOP | Emergency Operation Plan |
| EPA | Environmental Protection Agency |
| ESF | Emergency Support Function |
| ESRI | Environmental Systems Research Institute |
| EWP | Emergency Watershed Protection Program |
| FAA | Federal Aviation Administration |
| FD | Fire Department |
| FDRA | Fire Danger Rating Areas |
| FEMA | Federal Emergency Management Agency |



| | |
|----------|---|
| FERC | Federal Energy Regulatory Commission |
| FHWA | Federal Highway Administration |
| FIRM | Flood Insurance Rate Map |
| FIA | Flood Insurance Administration |
| FIS | Flood Insurance Study |
| FLDEC | Finger Lakes Economic Development Corporation |
| FLHEDC | Finger Lakes Horizon Economic Development Corporation |
| FGLK | Finger Lakes Railway Corporation |
| FLLT | Finger Lakes Land Trust |
| FM | Fuel Moisture |
| FMA | Flood Mitigation Assistance |
| FMCSA | Federal Motor Carrier Safety Administration |
| FPA | Floodplain Administrator |
| FPI | Fire Potential index |
| FTA | Federal Transit Authority |
| FY | Fiscal Year |
| GCM | Global Climate Model |
| GIS | Geographic Information System |
| GML | General Municipal Law |
| GOSR | Governor's Office for Storm Recovery |
| GSN | Global Seismographic Network |
| GP | General Permit |
| HAB | Harmful Algal Bloom |
| HAZMAT | Hazardous Materials |
| HAZUS | Hazards U.S. |
| HAZUS-MH | Hazards U.S. Multi-Hazard |
| HHPD | High Hazard Potential Dam |
| HMGP | Hazard Mitigation Grant Program |
| HMP | Hazard Mitigation Plan |



| | |
|-------|--|
| HSGP | Homeland Security Grant Program |
| HUC | Hydrologic Unit |
| HUD | U.S. Department of Housing and Urban Development |
| HVAC | Heating, Ventilation, and Air Conditioning |
| IA | Individual Assistance |
| ICS | National Incident Command System |
| IDA | International Development Association |
| IHWDS | Inactive Hazardous Waste Disposal Site |
| ISO | Insurance Service Office |
| IT | Information Technology |
| JC | Johnson City |
| JSTP | Joint Sewage Treatment Plant |
| KBDI | Keetch-Bryam Drought Index |
| LCSN | Lamon-Doherty Cooperative Seismographic Network |
| LAMP | Levee Analysis and Mapping Process |
| LSAC | Levee Safety Action Classification |
| LEED | Leadership in Energy and Environmental Design |
| LEPC | Local Emergency Planning Committee |
| LWCF | Land and Water Conservation Fund |
| LWRP | Local Waterfront Revitalization Program |
| LLC | Limited Liability Company |
| LOP | Letter of Permission |
| MCI | Mass Causality Incident |
| MERS | Middle East Respiratory Syndrome |
| MOSF | Major Oil Storage Facilities |
| MGD | Million Gallons per Day |
| Mi | Mile |
| MMI | Modified Mercalli Intensity Scale |
| Mph | Miles per Hour |



| | |
|---------|--|
| MRCC | Midwest Regional Climate Center |
| MRP | Mean Return Period |
| MRLC | Multi-Resolution Land Characteristics |
| N/A | Not Applicable |
| NA | Not Available |
| NAS | National Academy of Sciences |
| NASA | National Aeronautics and Space Administration |
| NAC-AAA | National Avalanche Center – American Avalanche Association |
| NCDC | National Climate Data Center |
| NCEI | National Centers for Environmental Information |
| NCI | North Central Institute |
| NEHRP | National Earthquake Hazards Reduction Program |
| NEP | National Estuary Program |
| NESIS | Northeast Snowfall Impact Scale |
| NFDRS | National Fire Danger Rating System |
| NFIA | National Flood Insurance Act |
| NFIP | National Flood Insurance Program |
| NFPA | National Fire Protection Association |
| NHC | National Hurricane Center |
| NHD | National Hydrography Dataset |
| NHTSA | National Highway Traffic Safety Administration |
| NID | National Inventory of Dams |
| NIDIS | National Integrated Drought Information System |
| NIMS | National Incident Management System |
| NLCD | |
| NLD | National Levee Database |
| NOAA | National Oceanic and Atmospheric Administration |
| NPDP | National Performance of Dams Program |
| NPL | National Priorities List (EPA) |



| | |
|-----------|---|
| NRCC | Northeast Regional Climate Center |
| NRCS | Natural Resources Conservation Service |
| NRDC | Natural Resources Defense Council |
| NSIDC | National Snow and Ice Data Center |
| NSSL | National Severe Storms Library |
| NTSB | National Transportation Safety Board |
| NWP | Nationwide Permit |
| NWS | National Weather Service |
| NY | New York |
| NYIS | New York Invasive Species Network |
| NYCRR | New York Codes, Rule, and Regulations |
| NYPA | New York Power Authority |
| NYRCR | New York Rising Community Reconstruction |
| NYS | New York State |
| NYS DHSES | New York State Division of Homeland Security and Emergency Services |
| NYS ESD | New York State Empire State Development |
| NYS GIS | New York State Geographic Information System |
| NYS OFP&C | New York State Office of Fire Prevention and Control |
| NYS DAM | New York State Department of Agriculture and Markets |
| NYS DEC | New York State Department of Environmental Conservation |
| NYS DOH | New York State Department of Health |
| NYS DOT | New York State Department of Transportation |
| NYS DPC | New York State Disaster Preparedness Commission |
| NYSEG | New York State Electric and Gas |
| NY SERDA | New York State Energy Research and Development Authority |
| NY SHMP | New York State Hazard Mitigation Plan |
| NY SFSMA | New York State Floodplain and Stormwater Managers |
| NY SOEM | New York State Office of Emergency Management |
| OES | Office of Emergency Services |



| | |
|-------|---|
| OFA | Office for Aging |
| OFPC | Office of Fire Prevention and Control |
| OPRHP | Office of Parks, Recreation and Historic Preservation |
| OPSG | Operation Stonegarden |
| OSHA | Occupational Safety and Health Administration |
| PA | Public Assistance |
| PBS | Petroleum Bulk Storage |
| PD | Police Department |
| PDM | Pre-Disaster Mitigation Program |
| PDSI | Palmer Drought Severity Index |
| PFIS | Preliminary Flood Insurance Study |
| PE | Professional Engineer |
| PGA | Peak Ground Acceleration |
| PHMSA | Pipeline and Hazardous Materials Safety Administration |
| POC | Point of Contact |
| POE | Point of Entry |
| Pop. | Population |
| PPD | Presidential Policy Directive |
| PRISM | The Finger Lakes Partnership for Regional Invasive Species Management |
| PW | Public Works |
| RAISE | Rebuilding American Infrastructure with Sustainability and Equity |
| RC | Red Cross |
| RCV | Replacement Cost Value |
| REDC | Regional Economic Development Council |
| RL | Repetitive Loss |
| RLF | Revolving Loan Fund |
| RMC | Registered Municipal Clerk |
| ROW | Right of Way |
| RSI | Regional Snowfall Index |



| | |
|---------|--|
| RTE | Route |
| RTP | Recreational Trails Program |
| SARA | Superfund Amendments and Reauthorization Act |
| SBA | Small Business Administration |
| SEQRA | State Environmental Quality Review Act |
| SDI | State Drought Index (NYSDEC) |
| SF | Square Feet |
| SFHA | Special Flood Hazard Area |
| SFRMG | State Flood Risk Management Guidance |
| SHMP | State Hazard Mitigation Plan |
| SHMO | State Hazard Mitigation Officer |
| SHSP | State Homeland Security Program |
| SILVIS | Spatial Analysis for Conservation and Sustainability |
| SPC | Storm Prediction Center |
| SPEI | Standardized Precipitation Evapotranspiration Index |
| SPDES | State Pollutant Discharge Elimination System |
| SUNY | State University of New York |
| Sq. Mi. | Square mile |
| SRL | Severe Repetitive Loss |
| SSBG | Social Services Block Grant |
| SVI | Social Vulnerability Index |
| SWCD | Soil and Water Conservation District |
| SWMP | Stormwater Management Program |
| SWOO | Strengths, Weaknesses, Obstacles and Opportunities |
| SWPPP | Stormwater Pollution Prevention Plan |
| T | Town |
| TBD | To Be Determined |
| TD | Tropical Depression |
| THIRA | Threat Hazard Identification and Risk Assessment |



| | |
|-------|---|
| TS | Tropical Storm |
| UASI | Urban Areas Security Initiative |
| UCAR | University Corporation for Atmospheric Research |
| UHS | United Health Services |
| USACE | United States Army Corps of Engineers |
| US | United States |
| USDA | United States Department of Agriculture |
| USDM | United States |
| USEDA | United States Economic Development Administration |
| USEIA | United States Energy Information Administration |
| USEPA | United States Environmental Protection Agency |
| USFS | United States Forest Service |
| USGS | United States Geological Survey |
| USRT | Underwater Search and Recovery |
| UTV | Utility Task Vehicle |
| V | Village |
| VA | Vulnerability Assessment |
| WWTP | Waste Water Treatment Plant |
| WCT | Wind Chill Index |
| WFAS | Wildland Fire Assessment System |
| WFO | Weather Forecast Office |
| WNV | West Nile Virus |
| WQIP | Water Quality Improvement Project |
| WUI | Wildland/Urban Interface |
| WW | Wastewater |
| WHO | World Health Organization |
| YTS | Yates Transit Service |
| ZBA | Zoning Board of Appeals |

APPENDIX A: RESOLUTIONS



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

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Sample Resolution

(LOCAL GOVERNMENT, INCLUDING SPECIAL DISTRICTS), New York

RESOLUTION NO. _____

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

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

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

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

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

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

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

ADOPTED by a vote of ___ in favor and ___ against, and ___ abstaining, this ___ day of _____, _____.

By: _____

(print name)

ATTEST: By: _____

(print name)

APPROVED AS TO FORM: By: _____

(print name)

APPENDIX B: MEETING DOCUMENTATION



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

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1. Welcome and Introductions

2. Hazard Mitigation Overview

- Purpose of the HMP
- What's new for the 2025 HMP?

3. Project Organization

- Key agencies, partners, and stakeholders

4. Steering Committee Roles and Responsibilities

5. Planning Process Overview

- Planning Process
- Risk Assessment
- Public Involvement Strategy
- Mitigation Strategy
- Plan Maintenance
- Plan Update & Deliverables
- Plan Review & Adoption

6. Project Schedule

- Overview and Milestones
- Meeting Schedule

7. Questions / Wrap-Up



Meeting Date: Tuesday, August 22, 2023
Meeting Location: Yates County Auditorium - 417 Liberty Street, Penn Yan, NY 14527
Meeting Topic: Planning Partnership Kick-Off Meeting

| Name/Title | Jurisdiction | Email |
|---------------------------------------|-------------------------|--|
| Lori Miller - Construction Supervisor | NYSEG | lami11ar@NYSEG.com |
| TIM PAGEL | T/Po Har V/Rushville | topaeo@frontier.com codeofscin@villageofrushville.com |
| ART PARSONS | T/Potter | highwaybarn@frontier.com |
| JACK PZEMPLUGAST | BEAVER | supervisor@townofbeaver.us |
| Steve Wheeler | T/O Furrington | townboard@frontier.net |
| Colby Petersen | YCSWCD | colby@ycoilwater.com |
| Alyssa Palmer | YC Probation | apalmer@yatescounty.org |
| Ralph WARREN Hwy | Starkey | StarkeyHwy@Frontier.net |
| George E. Lawson, supervisor | town of Starkey | starkeysupervisor@gmail.com |



| Name/Title | Jurisdiction | Email |
|--|----------------------------|--------------------------------|
| George A. Roets Dir Comm Services | Yates Co | groets@yatescounty.org |
| TIM GROTH - Director of IT | Yates Co. | TGROTH@YATESCOUNTY.GOV |
| Dylan Maybell - Regional Coordinator | NYS OEM | dylan.maybell@DHSES.NY.GOV |
| John Colter - Mgr Security + Emerg Mgt | FL - Health | john.colter@flhealth.org |
| Grant Downs Town Councilman | Town of Torrey | gdowns1946@gmail.com |
| Anthony Valozie Code Enforcement | Town of Milo | codeofficer@townofmilo.com |
| Amy D Miller / Comm of Social Services | Yates County | amy.miller@dca.state.ny.us |
| Lee Reed / BMS | Yates County | lreed@yatescounty.org |
| Ryan Bailey / EMS Coordinator | Yates County OES | rbailey@yatescounty.org |
| Doug Sinclair - Public Health | Yates County Public Health | dsinclair@yatescounty.org |
| Sandi Perle / The Living Well | Yates County | sandi@thelivingwellmission.org |



| Name/Title | Jurisdiction | Email |
|---|--------------------------|-------------------------------------|
| Justin Hamm / Lieutenant | Penn Yan Police Dept. | jhamm@villageofpennyan.com |
| Kerry Brennan / Personnel officer | Yates County | Kbrennan@yatescounty.org |
| Linda Phillips | Ontario County | Linda.Phillips@ontariocounty.ny.gov |
| Jonathan MacKerchar / Athletic Director | Penn Yan Central schools | jmacKerchar@pyncs.org |
| Diane Caves, Deputy Director | Yates Co. OES | dcaves@yatescounty.org |
| Debra Trickey / EMS coordinator | ONTARIO CITY / EMS | debra.trickey@ontariocounty.ny.gov |
| Paul Moberg / Town Council Potter | Potter | pmoberg@aol.com |
| BRUCE HENDERSON / Town Council Tovey | Tovey | Bruce Henderson |
| | | |
| | | |
| | | |



Yates County Hazard Mitigation Plan 2025 Update

Steering Committee Kick-Off Meeting
August 22, 2023 | 11:00 am

A sunset scene over a body of water with a white rectangular text box in the center. The sky is filled with golden and orange clouds, and the sun is low on the horizon. The water in the foreground is dark with small ripples.

Today's Agenda

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



Hazard Mitigation Overview

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

Hazard Mitigation Planning Overview



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

- 1) What is hazard mitigation?
- 2) Why update the plan?
- 3) What's new for the 2025 HMP?
- 4) What is the process?



What is Hazard Mitigation?

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

-or-

Any action taken to reduce future disaster losses



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



Why Update?

- The mitigation plan update will:
 - Help prepare for and mitigate hazards
 - Eligibility for pre- and post-disaster mitigation funding
 - Since 2004, Yates County received over \$10 million in FEMA funding for flood control projects, shoreline stabilization, warning systems, generators, and mitigation planning
 - Incorporate new FEMA requirements
 - Support CRS participation/rating
- What is at risk in Yates County?
- Which hazard do you think occurred the most since 2020?

| January 2020 – May 2023 | |
|--|------------------|
| Hazard | Occurrences |
| Dam Failure | 0 |
| Disease Outbreak (Covid-19, influenza, Lyme) | >5,000 |
| Drought | 1 |
| Extreme Temperature (low <8°F) | 41 |
| Extreme Temperature (high >90°F) | 39 |
| Flood | 3 |
| Harmful Algal Bloom | 10 |
| Hazardous Materials | 91 |
| Landslide | 0 |
| Severe Storm | 38 |
| Severe Winter Storm | 7 |
| Transportation Accidents | 2,245 |
| Utility Failure | 11 |
| Wildfire | 1 |
| TOTAL | >7,000 |

Sources: NOAA NCEI 2023; NYSDEC 2023; NYS DMV 2023; MRCC 2023



Differences from the 2020 Planning Process



Involvement – engaged and actively participating



Public and stakeholder outreach



Socially vulnerable and underserved communities



Climate change



Mitigation actions for every hazard of concern





Project Organization

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

Project Organization

Core Planning Team

Yates County
OEM
Tetra Tech



Steering Committee

Planning Partnership



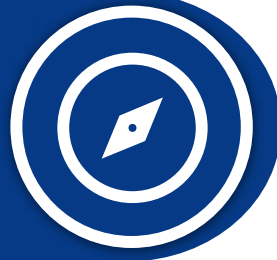
Stakeholders

NYSDHSES and FEMA



Steering Committee Roles and Responsibilities

Guide the Planning Partnership



Actively Participate



Oversee the Planning Process



Review, Update, and Provide Input





Planning Process Overview

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

Planning Process Overview



Phase 1 – Project Organization

Core Planning Team

Yates County
OEM
Tetra Tech



Steering
Committee

Planning Partnership



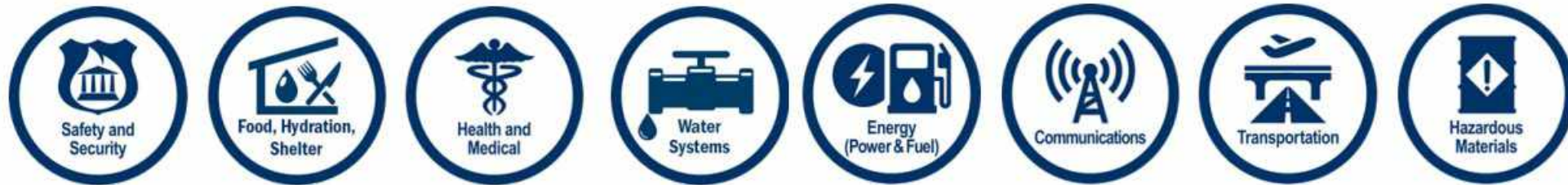
Stakeholders

NYSDHSES and FEMA



Data Collection and Input

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



A lifeline enables the continuous operation of critical government and business functions and is essential to human health and safety or economic security.



New and Future Development

- Where is development occurring in your municipality?
 - Provide input online – <https://arcg.is/198ev>
- How many NEW building permits have you issued since 2020?
 - Complete the worksheet you received today

Yates County | Hazard Mitigation Plan 2025 Update
Worksheet C - Building Permits

Please send all electronic Word versions **by September 19, 2023** to:
Heather Apgar, Tetra Tech | heather.apgar@tetratech.com

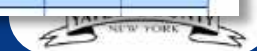
Municipality: _____
Name: _____
Title: _____
Email: _____

The Hazard Mitigation Plan (HMP) must address how risk has changed since the previous plan was completed. As we update the HMP, we will be looking at the number of new construction permits issued by your jurisdiction and where any new or anticipated development is occurring within your jurisdiction. **Who can assist with completing these tables?** The Building Department, Planning Department, and NFIP Floodplain Administrator.

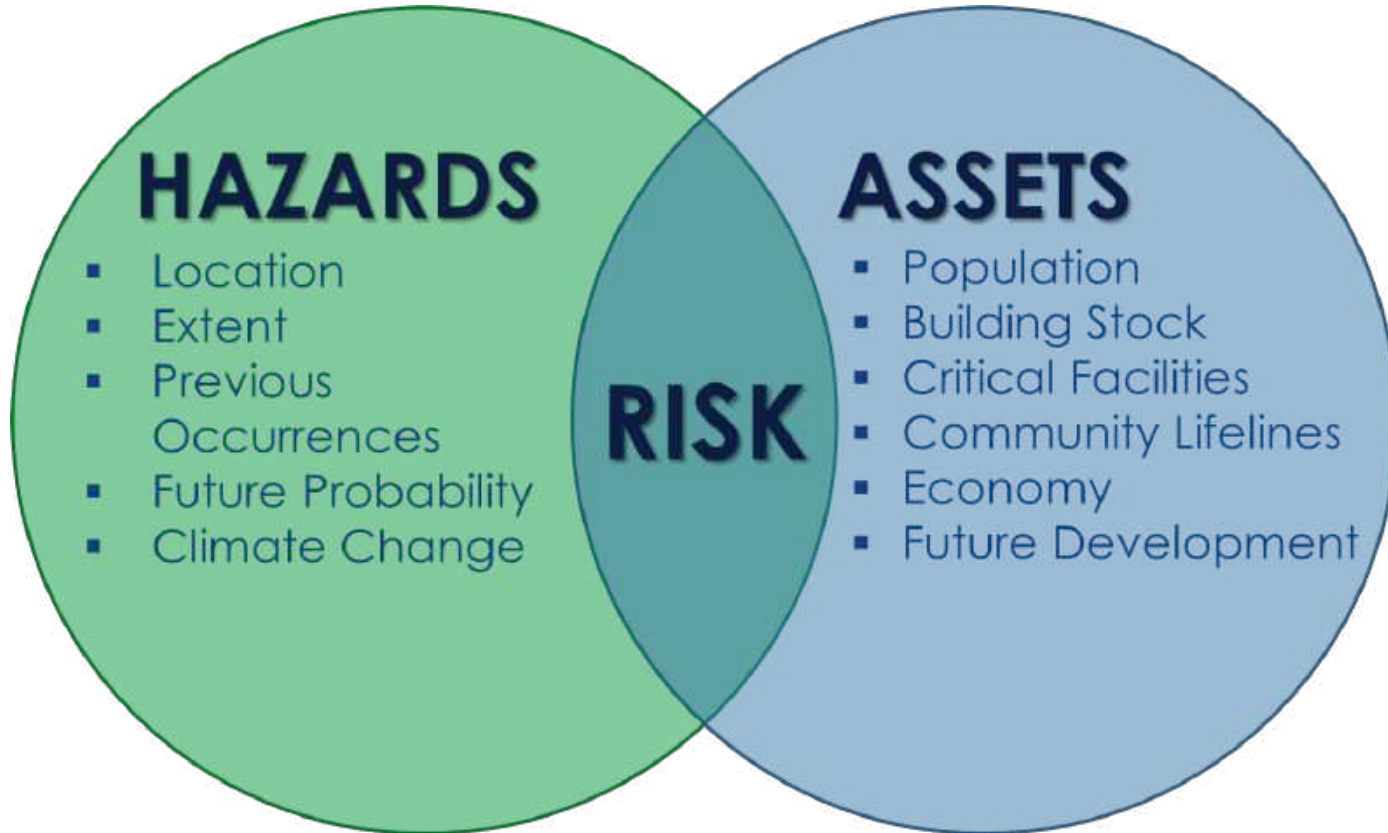
Building Permits

In the first table, please identify the number of building permits issued for new construction since 2020. Include the number of permits issued for construction located in the Special Flood Hazard Area (SFHA) (e.g., 1% flood area). If your jurisdiction does not have the ability to differentiate between permit types, please list the total number of permits and indicate "N/A" (not applicable) for the permit sub-types.

| Type of Development | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | |
|---------------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA |
| Single Family | | | | | | | | | | |
| Multi-Family | | | | | | | | | | |



Phase 2 - Risk Assessment



- Review and update list of hazards of concern
- Update hazard profiles
- Complete risk assessment
- Review risk assessment results with Steering Committee and Planning Partnership



Hazards of Concern

Dam Failure



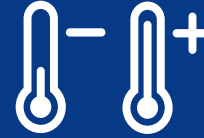
Disease Outbreak



Drought



Extreme Temperature



Flood



Harmful Algal Bloom



Hazardous Materials



Landslides



Severe Storm



Severe Winter Storm



Transportation Accident

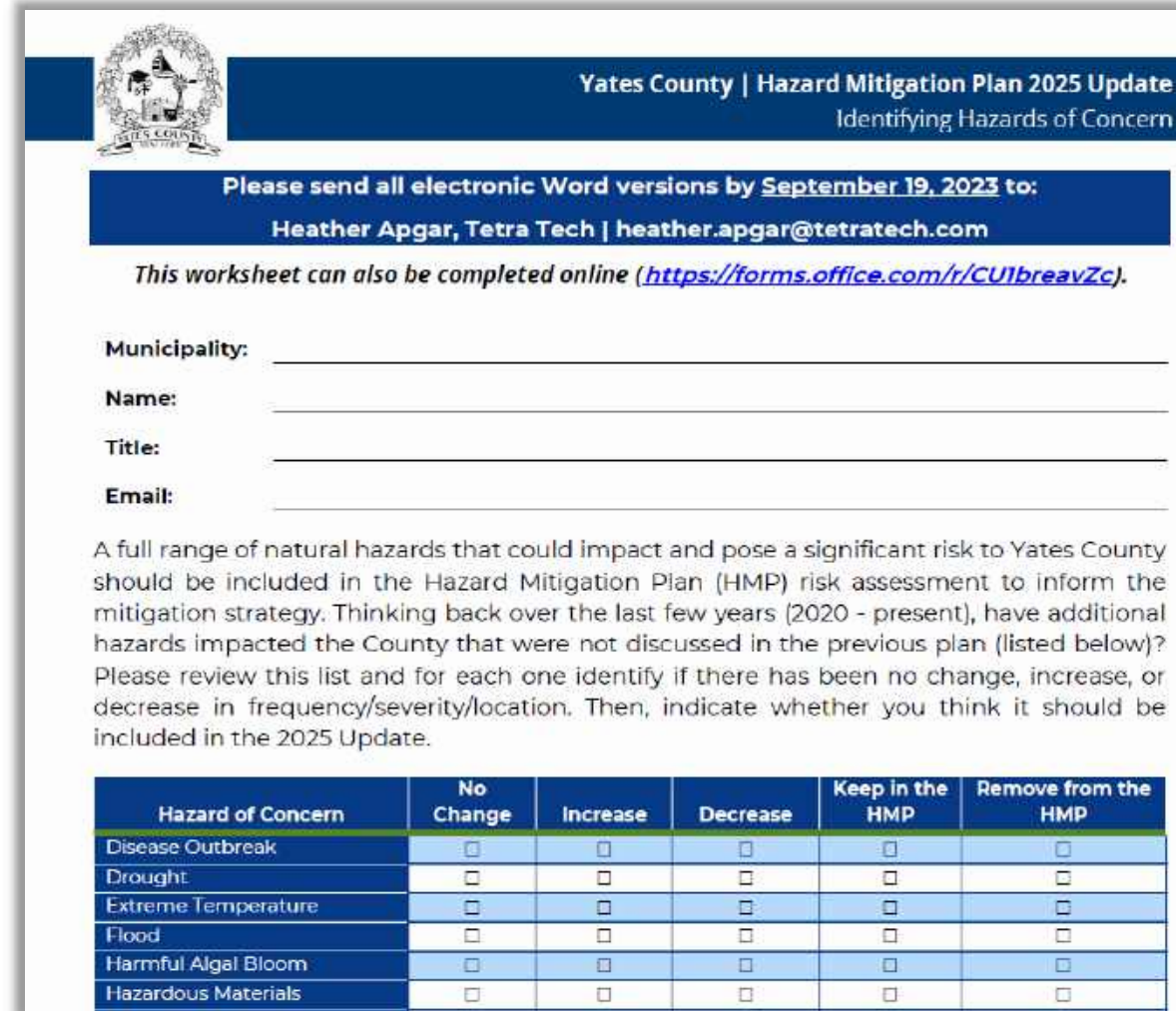



Utility Failure



Hazards of Concern Worksheet

- Complete the worksheet and let us know what hazards we should include in the 2025 update
- We will have a virtual meeting in a few weeks to confirm the hazards



 Yates County | Hazard Mitigation Plan 2025 Update
Identifying Hazards of Concern

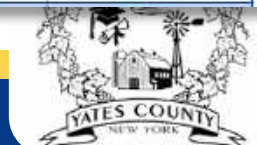
Please send all electronic Word versions by **September 19, 2023** to:
Heather Apgar, Tetra Tech | heather.apgar@tetratech.com

This worksheet can also be completed online (<https://forms.office.com/r/CUIbreavZc>).

Municipality: _____
Name: _____
Title: _____
Email: _____

A full range of natural hazards that could impact and pose a significant risk to Yates County should be included in the Hazard Mitigation Plan (HMP) risk assessment to inform the mitigation strategy. Thinking back over the last few years (2020 - present), have additional hazards impacted the County that were not discussed in the previous plan (listed below)? Please review this list and for each one identify if there has been no change, increase, or decrease in frequency/severity/location. Then, indicate whether you think it should be included in the 2025 Update.

| Hazard of Concern | No Change | Increase | Decrease | Keep in the HMP | Remove from the HMP |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Disease Outbreak | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Drought | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Extreme Temperature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Harmful Algal Bloom | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hazardous Materials | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



Hazard Event History


- We need to know how events have impacted your community over the last 5 years
- Where are your problem areas?
- Complete the worksheet or the online form
- Input due by September 19th

Yates County Hazard Event History

Yates County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2020). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Underneath each event description, please provide a summary of local impacts from event. If this event did not impact your jurisdiction, please enter "No damages or losses sustained".

* Required


Yates County | Hazard Mitigation Plan 2025 Update
 Worksheet A – Hazard Event History

Please send all electronic Word versions by **September 19, 2023** to:
Heather Appgar, Tetra Tech | heather.appgar@tetratech.com


This worksheet can also be completed online (<https://forms.office.com/r/fih2ZZmGcf>).

Municipality: _____
 Name: _____
 Title: _____
 Email: _____

Yates County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2020). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

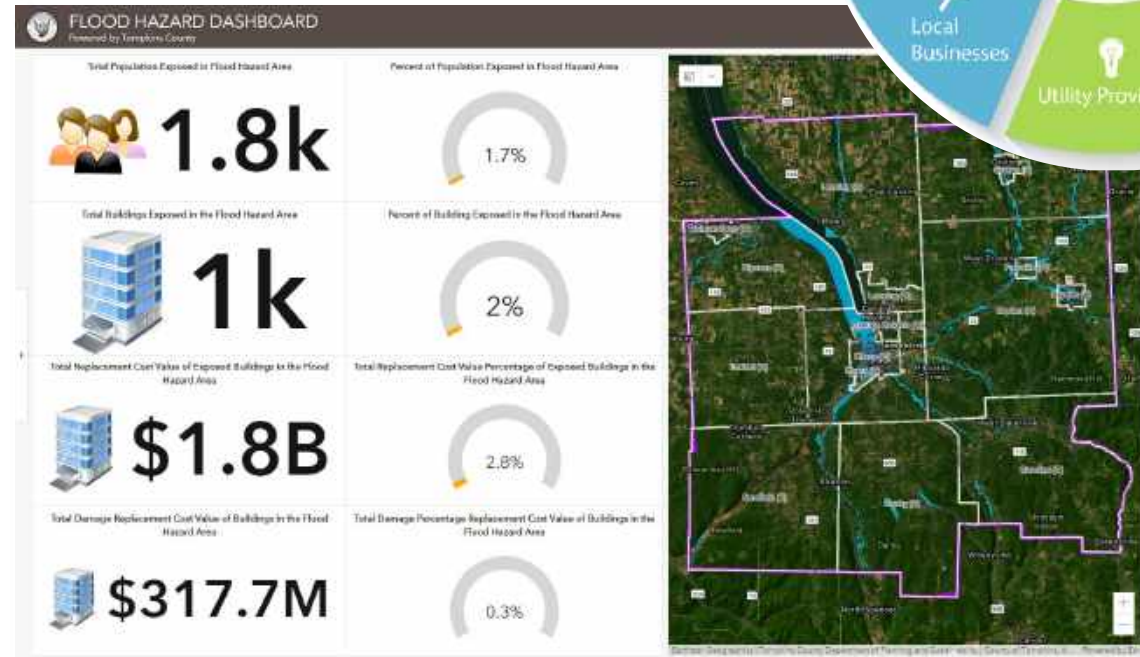
Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

| Dates of Event | Event Type (Disaster Declaration if applicable) | Summary of Event | Municipal Summary of Damages and Losses |
|--------------------|---|---|---|
| February 6-7, 2020 | Heavy Snow | A period of heavy snowfall, followed by lingering snow showers, led to an accumulated 4 to 10 inches of snowfall throughout Yates County. | |



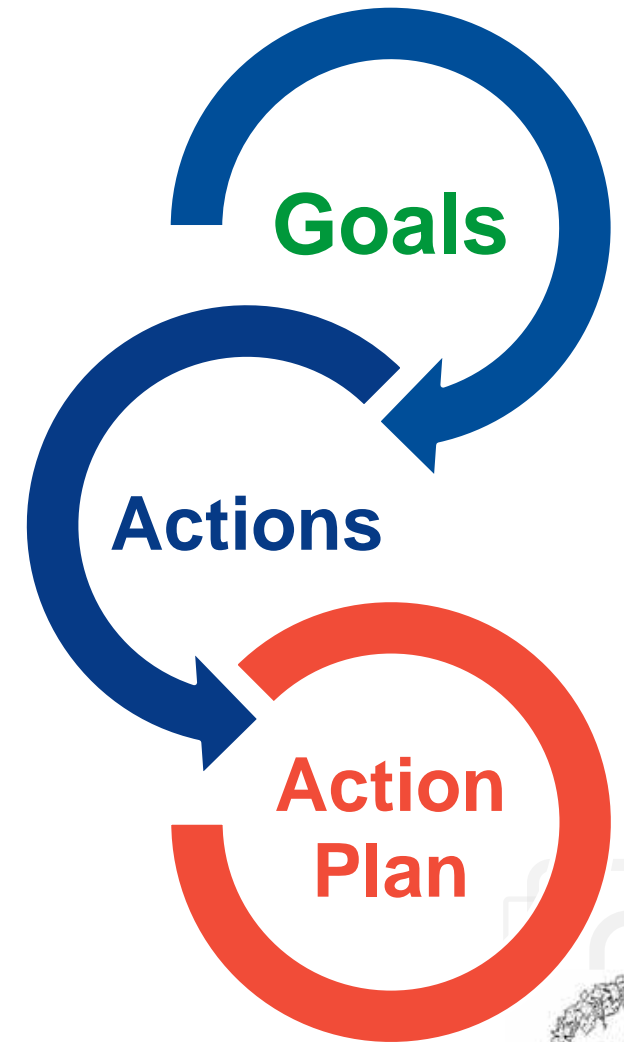
Phase 3 - Public Involvement Strategy

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



Phase 4 – Mitigation Strategy

- Review 2020 mitigation actions
- Review and update goals/objectives
- Problem statements and potential solutions
 - What specific actions will be taken to reduce hazard risk?
- Develop an action plan
 - How will the actions be prioritized and implemented?
 - One mitigation action for every hazard of concern!



Phase 4 – Capabilities and Integration

- Review existing capabilities and identify how each reduces risk and if it incorporates elements of the HMP
- Describe current and future integration process for the County and each jurisdiction

Regulatory

- Current ordinances that integrate mitigation (e.g., local flood damage prevention ordinance, stormwater management, wetlands protection, etc.).

Operational and Administrative

- County/community boards/departments that integrate mitigation in their current processes and how.

Funding

- Funding sources at the local level that may be used to fund mitigation projects.

Education/Outreach

- Current action the County/community is taking to integrate mitigation in their outreach and notifications to residents.

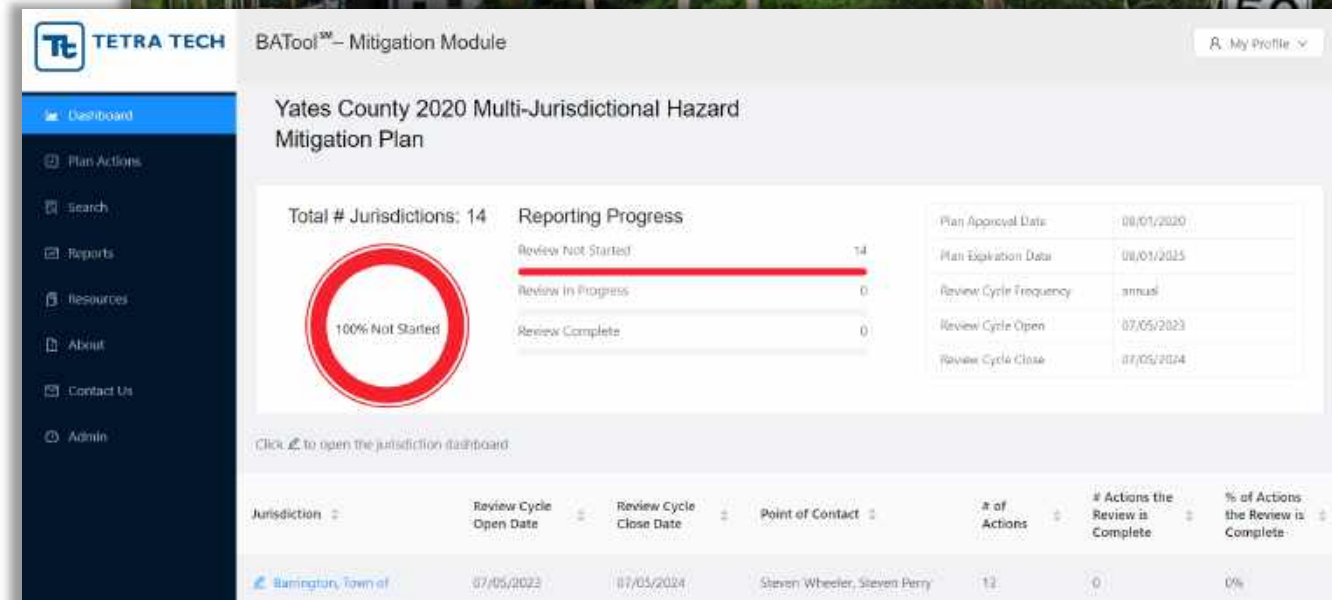
Adaptive Capacity

- Review the County and municipalities' adaptive capacity to deal with the potential impacts of climate change.



Review Your 2020 Mitigation Actions

- Update the 2020 mitigation actions through the BAToolSM – less paperwork!
- Video tutorial on using the program and Tetra Tech available to help
- Populate 2025 mitigation actions



Phase 5 – Plan Maintenance

- Develop a game plan for maintaining the 2025 HMP over the next 5 years
 - How often will you meet to discuss progress on the HMP?
 - How will the County and jurisdictions integrate the HMP?
 - How will you monitor progress on the 2025 mitigation actions?



Phase 6 – Plan Updates and Deliverables

| Volume I | Appendices | Volume II |
|----------------------------|---|-----------------------------|
| Table of Contents | Sample Adoption Resolution | Planning Team |
| Executive Summary | Participation Matrix | Jurisdictional Annexes (14) |
| Introduction | Meeting Documentation | |
| Planning Process | Public and Stakeholder Outreach | |
| County Profile | Risk Assessment Information | |
| Risk Assessment | Mitigation Strategy Support Documentation | |
| Capability Assessment | Plan Maintenance Tools | |
| Mitigation Strategies | Linkage Procedures (if applicable) | |
| Plan Maintenance | Critical Facilities | |
| Acronyms and Abbreviations | High Hazard Potential Dam (HHPD) | |
| Glossary | | |
| References | | |



Phase 7 - Plan Review & Adoption

- Once FEMA approves the HMP, the County and each jurisdiction will need to adopt the plan
- Adoption demonstrates the County's and municipalities commitment the goals, objectives, and mitigation actions identified in the HMP
- Integrate the HMP!
 - Include hazard mitigation principles, vulnerability information, and mitigation actions into existing plans, codes, etc.
 - This will help in reducing risk and increase resilience across Yates County

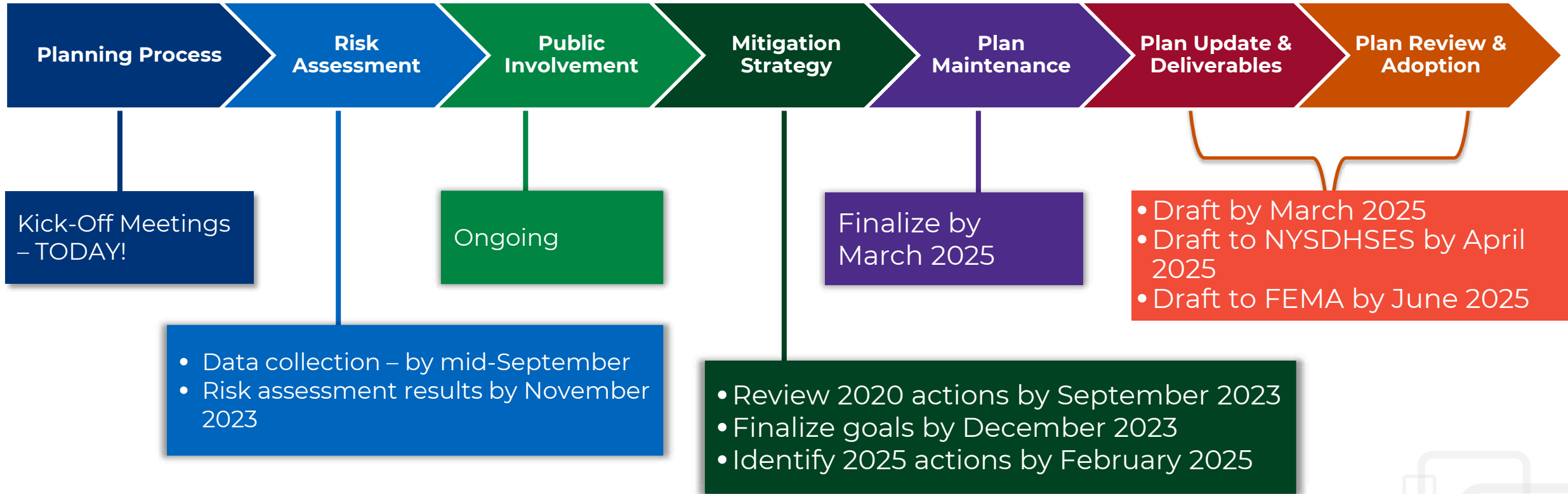




Project Schedule

Upcoming meetings and key milestones throughout the HMP update process

Schedule





Questions?



1. Welcome and Introductions

2. Hazard Mitigation Overview

- Purpose of the HMP
- What's new for the 2025 HMP?

3. Project Organization

- Key agencies, partners, and stakeholders

4. Planning Partnership Roles and Responsibilities

5. Planning Process Overview

- Planning Process
- Risk Assessment
- Public Involvement Strategy
- Mitigation Strategy
- Plan Maintenance
- Plan Update & Deliverables
- Plan Review & Adoption

6. Project Schedule

- Overview and Milestones
- Meeting Schedule

7. Questions / Wrap-Up

YATES COUNTY ALL HAZARD MITIGATION UPDATE PLAN
 STEERING COMMITTEE MEETING - AUGUST 22, 2023 1 PM
 YATES COUNTY AUDITORIUM

| REPRESENTING | NAME | Title | EMAIL | SIGNATURE |
|-------------------------|---------------------------|-------------------|--|--|
| Dundee Central School | James Frame | Superintendent | jframe@dundeecs.org | |
| FL Health | Frank Korich | | Frank.Korich@flhealth.org | |
| Keuka College | Jim Cunningham | Security | jcunning@keuka.edu | Alan Storey astorey1@keuka.edu |
| NOAA | David Nicosia | | David.Nicosia@noaa.gov | Amy Cotner acotner@keuka.edu |
| NYS DEC | Patrick Dormer | | patrick.dormer@dec.ny.gov | |
| NYS DHSES | Corrina Cavallo | Hazard Mitigation | Corrina.Cavallo@dhses.ny.gov | |
| NYS DHSES | Kevin Clapp | Hazard Mitigation | Kevin.Clapp@dhses.ny.gov | Kevin Clapp |
| NYS DHSES | Lisa Burkovich | Region V Director | lisa.burkovich@dhses.ny.gov | |
| NYS DOH | Albert Cheverie | | Albert.Cheverie@health.ny.gov | |
| NYS DOH | Nick Rich | | NJR04@health.state.ny.us | |
| NYS DOT | Tim Alimossy | | talimossy@dot.state.ny.us | |
| NYS OFPC | Corey Zydanowicz | FPS | Corey.Zydanowicz@dhses.ny.gov | |
| NYS Troopers | Brian Bernard | | brian.bernard@troopers.ny.gov | |
| NYSEG | Lori Miller | | LAMiller@nyseg.com | |
| Ontario County | Debra Trickey | EMS Coordinator | Debra.Trickey@co.ontario.ny.us | |
| Penn Yan Central School | Jon Giglio | Superintendent | jgiglio@pccsd.org | |
| Penn Yan Central School | John MacKerchar | | jmackerchar@pccsd.org | |
| Schuyler County | Kirk Smith | Director of OES | ksmith@co.schuyler.ny.us | |
| Seneca Co | | Planning | bbordeau@co.seneca.ny.us | |
| Seneca County | Melissa Taylor | Director of OES | mtaylor@co.seneca.ny.us | |
| Steuben Co Planning | Marie Myers Shearing | Planning | mshearing@steubencountyny.gov | |
| Steuben County | Tim Marshall | Director of OES | Tim@co.steuben.ny.us | |
| Town of Barrington | Steven Perry | Supervisor | steve77race@hotmail.com | |
| Town of Barrington | Steven Wheeler | Hwy Supt | townbarn@frontiernet.net | Steven Wheeler |
| Town of Benton | Casey Frankish | Hwy Supt | highway@townofbenton.us | JASONI HOOVER (Highway Supt) |
| Town of Benton | Jack Prendergast | Supervisor | supervisor@townofbenton.us | |
| Town of Italy | Richard Craig | Supervisor | | |
| Town of Italy | Steve Faulkner | Hwy Supt | italyhwysupt@gmail.com | |
| Town of Jerusalem | Jamie Sisson | Supervisor | Supervisor@Jerusalem-NY.org | |
| NYS DHSES | Dylan Maybee | R-5 coordinator | dylan.maybee@DHSES.NY.GOV | |
| NYS DHSES | Roland Pappiman | | roland.pappiman@DHSES.NY.GOV | |

YATES COUNTY ALL HAZARD MITIGATION UPDATE PLAN
 STEERING COMMITTEE MEETING - AUGUST 22, 2023 1 PM

YATES COUNTY AUDITORIUM

| PRESENTING | NAME | Title | EMAIL | SIGNATURE |
|---------------------|----------------------|---------------------|--|--------------------|
| wn of Jerusalem | Tony Hurd | Hwy Supt | highwaydept@jerusalem-ny.org | |
| wn of Middlesex | David Adam | Supervisor | supervisor@middlesexny.org | |
| wn of Middlesex | Tim Soles | Hwy Supt | | |
| wn of Milo | Patti Christensen | Town Clerk | clerk@townofmilo.com | |
| wn of Milo | Lance Young | Hwy Supt | townofmilo@gmail.com | |
| wn of Milo | Leslie Church | Supervisor | lsupervisor@townofmilo.com | |
| wn of Potter | Art Parsons | Hwy Supt | highwaybarn@frontier.com | <i>Art Parsons</i> |
| wn of Potter | Larry Lewis | Supervisor | | |
| wn of Starkey | George Lawson | Supervisor | starkeysupervisor@gmail.com | |
| wn of Starkey | Ralph Warren | Hwy Supt | Starkey Hwy @ Frontier Pub, etc | |
| wn of Torrey | Peter Martini | Supervisor | | |
| wn of Torrey | Tim Chambers | Hwy Supt | | |
| age of Dresden | Bill Hall | Mayor | dvillageofdres@rochester.rr.com | |
| age of Dresden | Brian Ellis | Hwy Supt | dvillageofdres@rochester.rr.com | |
| age of Dundee | Christine Sutherland | Village Clerk | villagedundee@stny.rr.com | |
| age of Dundee | Fred Cratsley | Mayor | mayorofdundee@gmail.com | |
| age of Dundee | Steven Dean | Hwy Supt | vwaterdept@stny.rr.com | |
| age of Penn Yan | Dan Condella | Mayor | dancondella@gmail.com | |
| age of Penn Yan | Tom Dunham | Police | Tdunham@villageofpennyan.com | |
| age of Penn Yan | Melissa Gerhardt | Dir of Public Works | mgerhardt@villageofpennyan.com | |
| es Co | Nonie Flynn | Administrator | nflynn@yatescounty.org | |
| es Co | Jessica Mullins | Director of Finance | jmullins@yatescounty.org | |
| es Co | Molly Linehan | Deputy Clerk | mlinehan@yatescounty.org | |
| es Co | Steve Griffin | | steve@fingerlakesedc.com | |
| s Co Bldg & Grounds | Joe Reed | Supervisor | jreed@yatescounty.org | <i>Joe Reed</i> |
| s Co Communications | Andy Siwak | | asiwak@yatescounty.org | |
| s Co DSS | Amy Miller | Commissioner | amy.miler@dfa.state.ny.us | <i>Amy Miller</i> |
| s Co E911 | Jason Bassett | Supervisor | jbassett@yatescounty.org | |
| s Co Elections | Rob Schwarting | | rschwarting@yatescounty.org | |
| s Co Elections | Robert Brechko | | rbrechko@yatescounty.org | |
| s Co Hwy | Charles Bishop | Deputy Hwy Supt | cbishop@yatescounty.org | |

YATES COUNTY ALL HAZARD MITIGATION UPDATE PLAN
 STEERING COMMITTEE MEETING - AUGUST 22, 2023 1 PM
 YATES COUNTY AUDITORIUM

| REPRESENTING | NAME | Title | EMAIL | SIGNATURE |
|-------------------------|------------------|--------------------------------|--|-------------------------|
| Yates Co Hwy | Douglas Rapalee | Hwy Supt | drapalee@yatescounty.org | |
| Yates Co IT | Tim Groth | Director | Tgroth@yatescounty.org | <i>Timothy M. Groth</i> |
| Yates Co OES | Diane Caves | Deputy Director | dcaves@yatescounty.org | <i>Diane Caves</i> |
| Yates Co OES | Ryan Bailey | EMS Coordinator | rbailey@yatescounty.org | <i>[Signature]</i> |
| Yates Co OES | Brian Winslow | Director | brianw@yatescounty.org | |
| Yates Co Personnel | Kerry Brennan | Director | kbrennan@yatescounty.org | |
| Yates Co Planning | Jeff Ayers | Planner | jayers@yatescounty.org | |
| Yates Co Probation | Alyssa Plamer | Director | apalmer@yatescounty.org | <i>Alyssa Plamer</i> |
| Yates Co Public Health | Douglas Sinclair | Director | dsinclair@yatescounty.org | <i>DS</i> |
| Yates Co Sheriff | Ronald Spike | Sheriff | rspike@yatescounty.org | |
| Yates Co Soil & Water | Colby Petersen | Dist Manager | colby@ycsoilwater.com | <i>CSP</i> |
| YC Chamber of Commerce | Jessica Bacher | Director | jessica@yatesny.com | |
| Town of Milo | Anthony Valdez | Code Enforcement Officer | code.officer@townofmilo.com | <i>[Signature]</i> |
| Town of Torrey | Grant Daws | Town Councilman | gjdaws1946@gmail.com | <i>[Signature]</i> |
| Town of Torrey | Bruce Henderson | Town Councilman | Bruce.Henderson@torrey.org | <i>[Signature]</i> |
| Town of Potter | Paul Moberg | Town Councilman | PMSnowPro@aol.com | <i>[Signature]</i> |
| FL Health | Josh Colton | Mgr, Security + Emergency Prep | joshva.colton@flhealth.org | <i>[Signature]</i> |
| Community Services Dept | George H. Roets | Dir for Comm Sv | gnoets@yatescounty.org | <i>[Signature]</i> |
| The Living Well Mission | Sandi Perl | Executive Director | Sandi@thelivingwellmission.org | <i>[Signature]</i> |
| NYSEG | Lori Miller | Supervisor | lamiiller@NYSEG.com | <i>[Signature]</i> |



Yates County | Hazard Mitigation Plan 2025 Update
Meeting Sign-In Sheet

Meeting Date: Tuesday, August 22, 2023
Meeting Location: Yates County Auditorium - 417 Liberty Street, Penn Yan, NY 14527
Meeting Topic: Planning Partnership Kick-Off Meeting

| Name/Title | Jurisdiction | Email |
|---------------------------------------|--------------------------|---|
| Lori Miller - Construction Supervisor | NYSEQ | lamillar@NYSEQ.COM |
| TIM PAGEL | T/Potter v/ Rushville | topce0@frontier.com codeofficer@villageofrushville.com |
| ART PARSONS | T/Potter | highwaybarn@Frontier.com |
| JACK PREHDLERCAST | BENTON | supervisor@townofbenton.us |
| Steve Wheeler | T/O Farringford | townboard@frontier.net |
| Colby Petersen | YCSWCD | colby@ycoilwater.com |
| Alyssa Palmer | YC Probation | apalmer@yatescounty.org |
| Ralph WARREN Hwy | Starkey | StarkeyHwy@Frontier.net |
| George E. Lawson, supervisor | town of Starkey | starkeysupervisor@gmail.com |



Yates County | Hazard Mitigation Plan 2025 Update
Meeting Sign-In Sheet

| Name/Title | Jurisdiction | Email |
|---|----------------------------|--------------------------------|
| George A. Roets Dir Comm Services | Yates Co | groets@yatescounty.org |
| TIM GROTH - Director of IT | Yates Co. | TGROTH@YATESCOUNTY.ORG |
| Dylan Maybee - Regional Coordinator | NYS OEM | dylan.maybee@DHSES.NY.GOV |
| Josh Colter - Mgr Security Emergency Mgt | FL - Health | joshua.colter@flhealth.org |
| Grant Downs Town Councilman | Town of Torrey | gjdawns1946@gmail.com |
| Anthony Valdivia Code Enforcement | Town of Milo | codeofficer@townofmilo.com |
| Amy D Miller / Comm of Social Services | Yates County | amy.miller@dca.state.ny.us |
| Joe Reed / BMS | Yates County | jreed@yatescounty.org |
| Ryan Bailey / EMS Coordinator | Yates County OES | rbailey@yatescounty.org |
| Doug Sinclair - Public Health | Yates County Public Health | dsinclair@yatescounty.org |
| Sandi Perle / The Living Well | Yates County | sandi@thelivingwellmission.org |



| Name/Title | Jurisdiction | Email |
|---|--------------------------|-------------------------------------|
| Justin Hamm / Lieutenant | Penn Yan Police Dept. | jhamm@villageofpennyan.com |
| Kerry Brennan / Personnel officer | Yates County | kbrennan@yatescounty.org |
| Linda Phillips | Ontario County | Linda.Phillips@ontariocounty.ny.gov |
| Jonathan Mackerchar / Athletic Director | Penn Yan Central Schools | j.mackerchar@pysd.org |
| Diane Caves, Deputy Director | Yates Co. OES | dcaves@yatescounty.org |
| Debra Trickey / EMS Coordinator | ONTARIO CITY / EMS | debra.trickey@ontariocountyny.gov |
| Paul Moberg / Town Council Potter | Potter | Pmsnowpro@aol.com |
| BRUCE HENDERSON / Town Council Torrey | Torrey | Bruce Henderson |
| | | |
| | | |
| | | |



Yates County Hazard Mitigation Plan 2025 Update

Planning Partnership Kick-Off Meeting
August 22, 2023 | 1:00 pm



Today's Agenda

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



Hazard Mitigation Overview

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

Hazard Mitigation Planning Overview



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

- 1) What is hazard mitigation?
- 2) Why update the plan?
- 3) What's new for the 2025 HMP?
- 4) What is the process?



What is Hazard Mitigation?

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

-or-

Any action taken to reduce future disaster losses



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



Why Update?

- The mitigation plan update will:
 - Help prepare for and mitigate hazards
 - Eligibility for pre- and post-disaster mitigation funding
 - Since 2004, Yates County received over \$10 million in FEMA funding for flood control projects, shoreline stabilization, warning systems, generators, and mitigation planning
 - Incorporate new FEMA requirements
 - Support CRS participation/rating
- What is at risk in Yates County?
- Which hazard do you think occurred the most since 2020?

| January 2020 – May 2023 | |
|--|------------------|
| Hazard | Occurrences |
| Dam Failure | 0 |
| Disease Outbreak (Covid-19, influenza, Lyme) | >5,000 |
| Drought | 1 |
| Extreme Temperature (low <8°F) | 41 |
| Extreme Temperature (high >90°F) | 39 |
| Flood | 3 |
| Harmful Algal Bloom | 10 |
| Hazardous Materials | 91 |
| Landslide | 0 |
| Severe Storm | 38 |
| Severe Winter Storm | 7 |
| Transportation Accidents | 2,245 |
| Utility Failure | 11 |
| Wildfire | 1 |
| TOTAL | >7,000 |

Sources: NOAA NCEI 2023; NYSDEC 2023; NYS DMV 2023; MRCC 2023



Differences from the 2020 Planning Process



Involvement – engaged and actively participating



Public and stakeholder outreach



Socially vulnerable and underserved communities



Climate change



Mitigation actions for every hazard of concern





Project Organization

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

Project Organization

Core Planning Team

Yates County
OEM
Tetra Tech



Steering
Committee

Planning Partnership



Stakeholders

NYSDHSES and FEMA



Planning Partnership Roles and Responsibilities

- Actively participate throughout the process –
 - Coordinate and facilitate local efforts
 - Attend meetings
 - Provide information and feedback (e.g., complete municipal worksheets)
 - Involve the public and community stakeholders in the planning process
 - Identify mitigation actions for your community
 - Adopt the plan
 - Implement the plan and monitor its progress
- The Letter of Intent to Participate outlines the planning partner expectations





Planning Process Overview

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

Planning Process Overview



Phase 1 – Project Organization

Core Planning Team

Yates County
OEM
Tetra Tech



Steering Committee

Planning Partnership



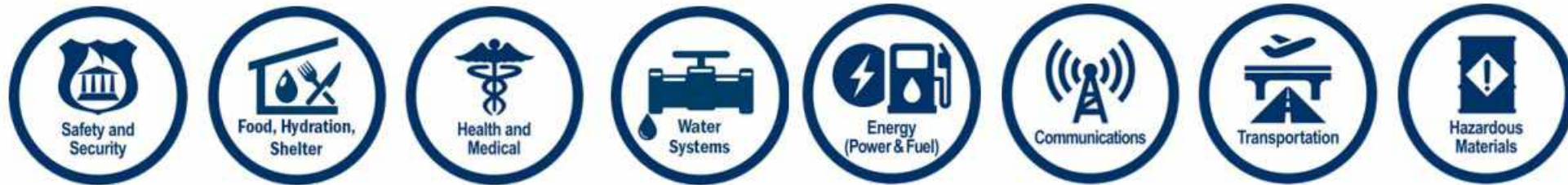
Stakeholders

NYSDHSES and FEMA



Data Collection and Input

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

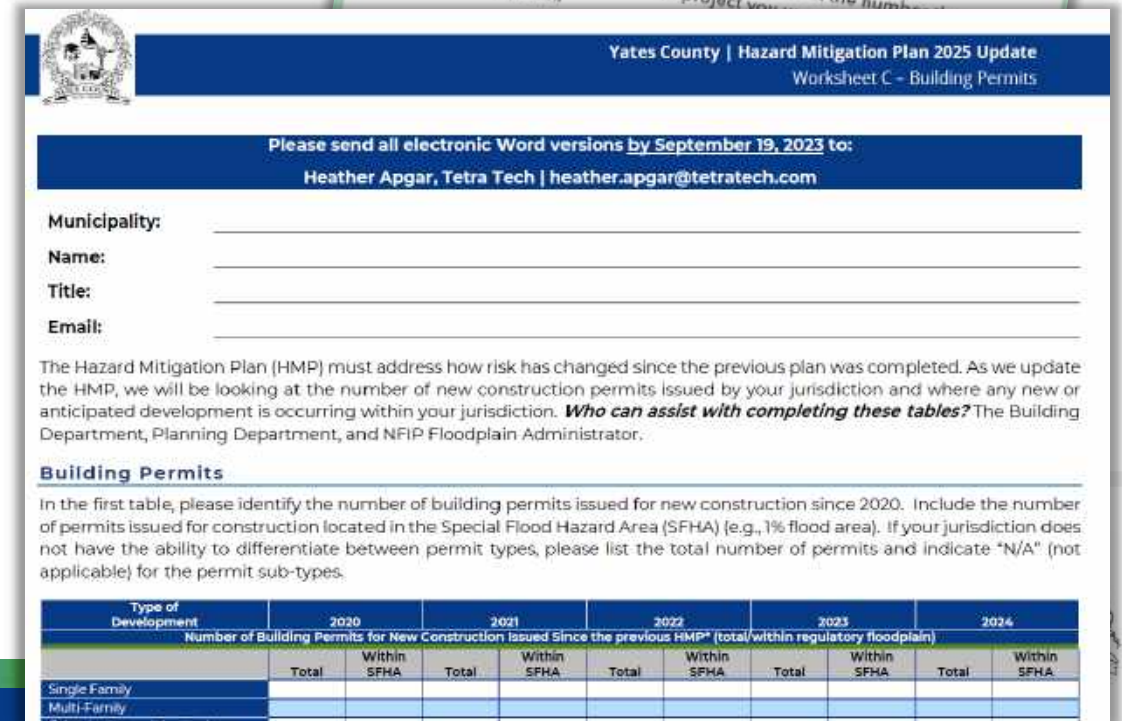


A lifeline enables the continuous operation of critical government and business functions and is essential to human health and safety or economic security.



New and Future Development

- Where is development occurring in your municipality?
 - Provide input online – <https://arcg.is/198ev>
- How many NEW building permits have you issued since 2020?
 - Complete the worksheet you received today

Yates County | Hazard Mitigation Plan 2025 Update
Worksheet C - Building Permits

Please send all electronic Word versions **by September 19, 2023** to:
Heather Apgar, Tetra Tech | heather.apgar@tetratech.com

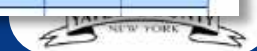
Municipality: _____
Name: _____
Title: _____
Email: _____

The Hazard Mitigation Plan (HMP) must address how risk has changed since the previous plan was completed. As we update the HMP, we will be looking at the number of new construction permits issued by your jurisdiction and where any new or anticipated development is occurring within your jurisdiction. **Who can assist with completing these tables?** The Building Department, Planning Department, and NFIP Floodplain Administrator.

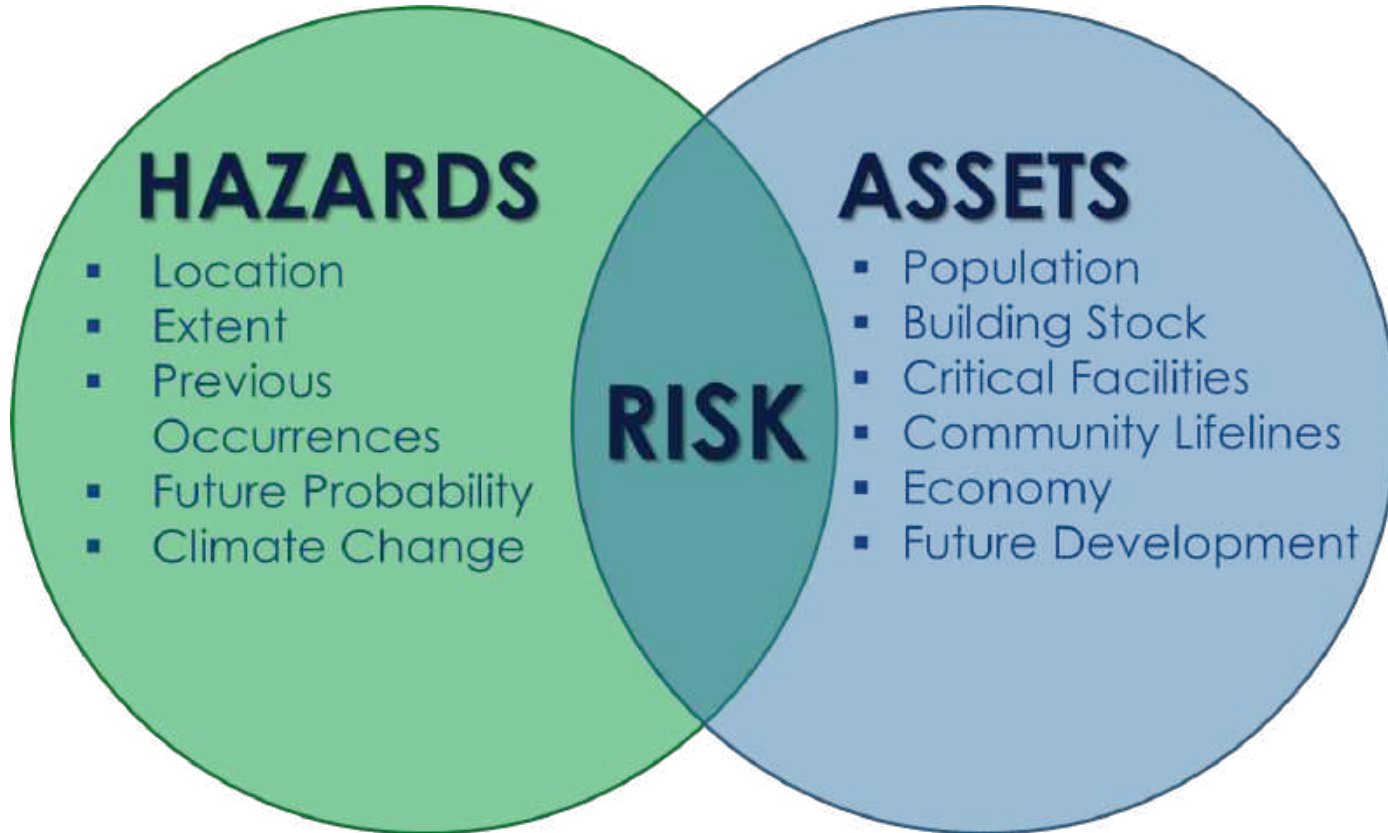
Building Permits

In the first table, please identify the number of building permits issued for new construction since 2020. Include the number of permits issued for construction located in the Special Flood Hazard Area (SFHA) (e.g., 1% flood area). If your jurisdiction does not have the ability to differentiate between permit types, please list the total number of permits and indicate "N/A" (not applicable) for the permit sub-types.

| Type of Development | 2020 | | 2021 | | 2022 | | 2023 | | 2024 | |
|---------------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA |
| Single Family | | | | | | | | | | |
| Multi-Family | | | | | | | | | | |



Phase 2 - Risk Assessment



- Review and update list of hazards of concern
- Update hazard profiles
- Complete risk assessment
- Review risk assessment results with Steering Committee and Planning Partnership



Hazards of Concern

Dam Failure



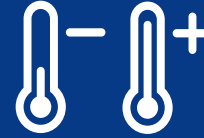
Disease Outbreak



Drought



Extreme Temperature



Flood



Harmful Algal Bloom



Hazardous Materials



Landslides



Severe Storm



Severe Winter Storm



Transportation Accident

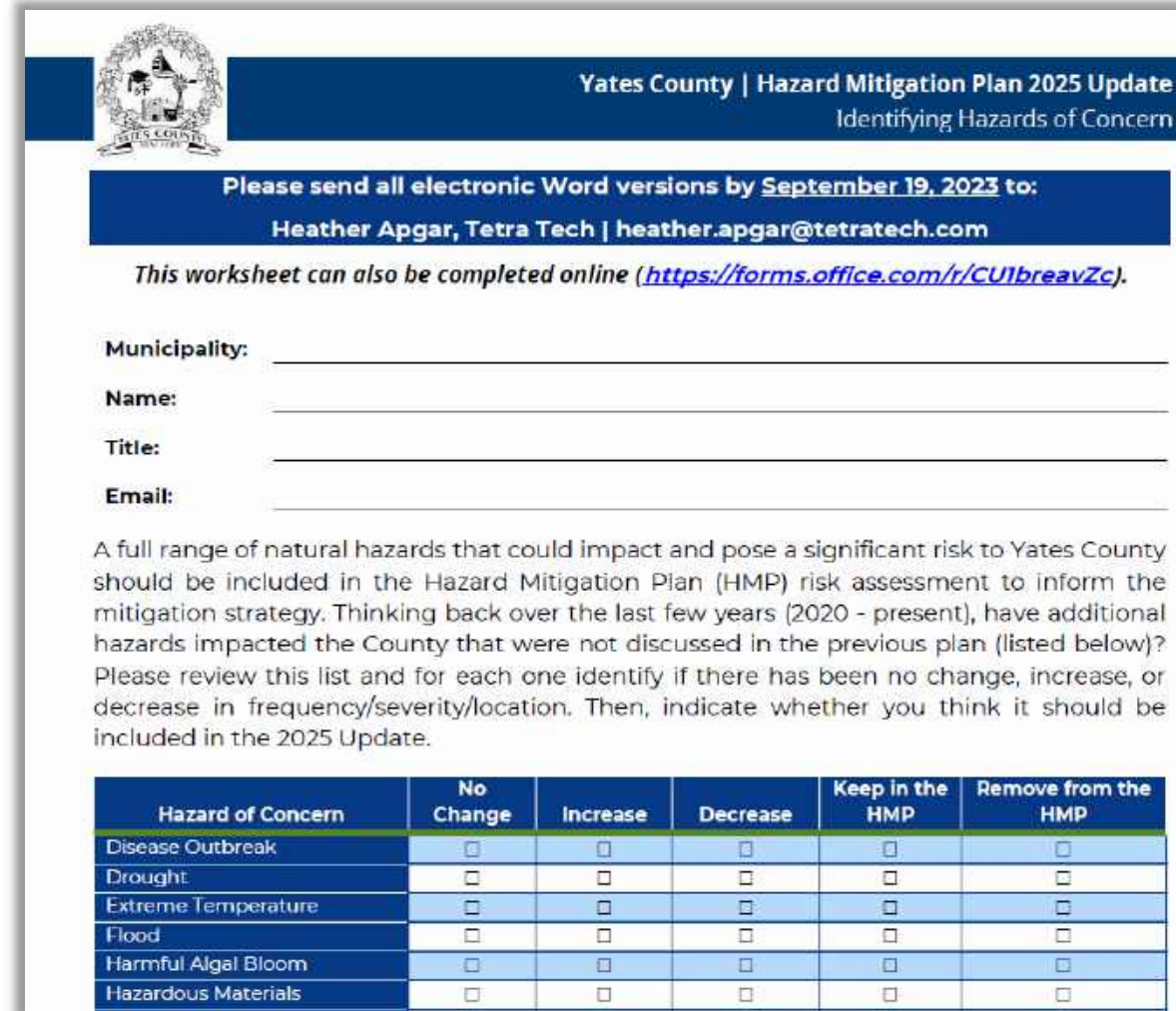


Utility Failure



Hazards of Concern Worksheet

- Complete the worksheet and let us know what hazards we should include in the 2025 update
- We will have a virtual meeting in a few weeks to confirm the hazards



Yates County | Hazard Mitigation Plan 2025 Update
Identifying Hazards of Concern

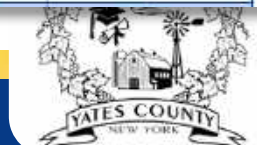
Please send all electronic Word versions by **September 19, 2023** to:
Heather Apgar, Tetra Tech | heather.apgar@tetratech.com

This worksheet can also be completed online (<https://forms.office.com/r/CUIbreavZc>).

Municipality: _____
Name: _____
Title: _____
Email: _____

A full range of natural hazards that could impact and pose a significant risk to Yates County should be included in the Hazard Mitigation Plan (HMP) risk assessment to inform the mitigation strategy. Thinking back over the last few years (2020 - present), have additional hazards impacted the County that were not discussed in the previous plan (listed below)? Please review this list and for each one identify if there has been no change, increase, or decrease in frequency/severity/location. Then, indicate whether you think it should be included in the 2025 Update.

| Hazard of Concern | No Change | Increase | Decrease | Keep in the HMP | Remove from the HMP |
|---------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Disease Outbreak | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Drought | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Extreme Temperature | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Flood | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Harmful Algal Bloom | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hazardous Materials | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



Hazard Event History


- We need to know how events have impacted your community over the last 5 years
- Where are your problem areas?
- Complete the worksheet or the online form
- Input due by September 19th

Yates County Hazard Event History

Yates County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2020). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

Underneath each event description, please provide a summary of local impacts from event. If this event did not impact your jurisdiction, please enter "No damages or losses sustained".

* Required


Yates County | Hazard Mitigation Plan 2025 Update
 Worksheet A – Hazard Event History

Please send all electronic Word versions by **September 19, 2023** to:
Heather Appgar, Tetra Tech | heather.appgar@tetratech.com

This worksheet can also be completed online (<https://forms.office.com/r/fih2ZZmGcf>).

Municipality: _____
 Name: _____
 Title: _____
 Email: _____

Yates County has frequently experienced natural hazard events. Please complete the table below to summarize specific loss and damages experienced during hazard events since the last hazard mitigation plan update (2020). Information already populated in the table below is based on County-wide events that resulted in significant damages and losses.

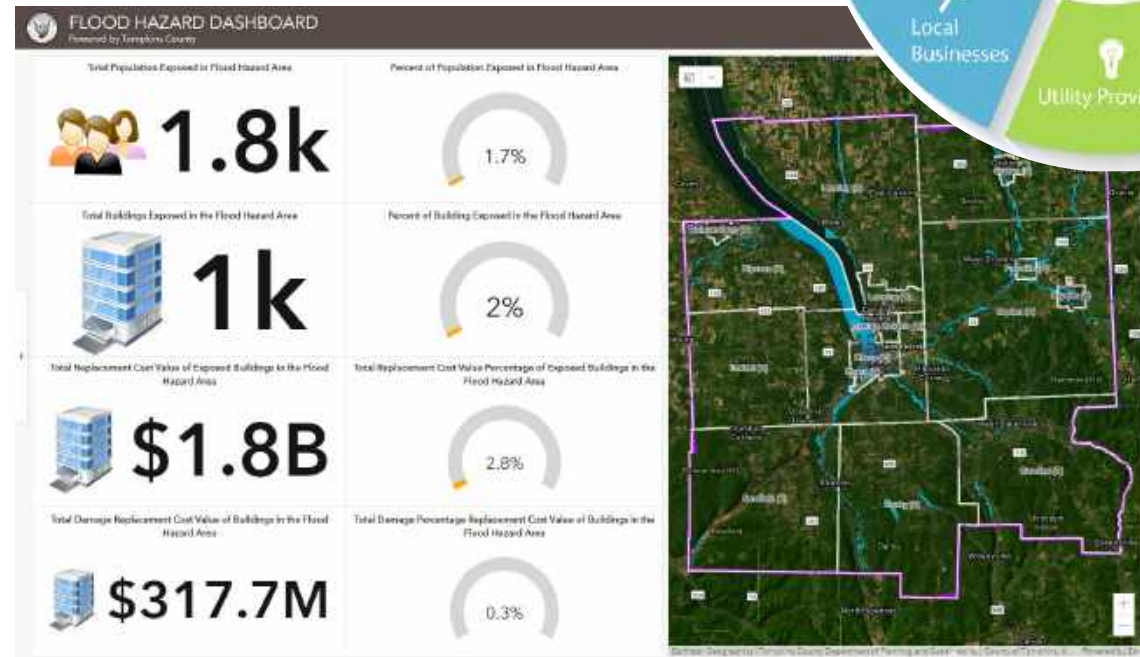
Please update the table to provide a summary of local impacts to the listed events AND note other local hazard events that resulted in damages, closures, or other impacts.

| Dates of Event | Event Type (Disaster Declaration if applicable) | Summary of Event | Municipal Summary of Damages and Losses |
|--------------------|---|---|---|
| February 6-7, 2020 | Heavy Snow | A period of heavy snowfall, followed by lingering snow showers, led to an accumulated 4 to 10 inches of snowfall throughout Yates County. | |



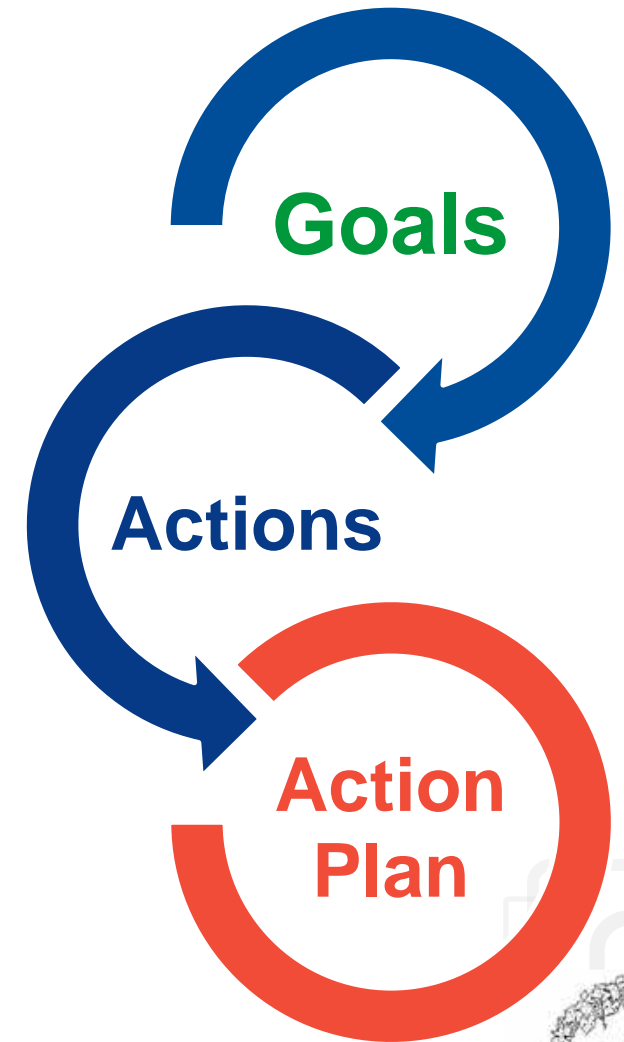
Phase 3 - Public Involvement Strategy

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



Phase 4 – Mitigation Strategy

- Review 2020 mitigation actions
- Review and update goals/objectives
- Problem statements and potential solutions
 - What specific actions will be taken to reduce hazard risk?
- Develop an action plan
 - How will the actions be prioritized and implemented?
 - One mitigation action for every hazard of concern!



Phase 4 – Capabilities and Integration

- Review existing capabilities and identify how each reduces risk and if it incorporates elements of the HMP
- Describe current and future integration process for the County and each jurisdiction

Regulatory

- Current ordinances that integrate mitigation (e.g., local flood damage prevention ordinance, stormwater management, wetlands protection, etc.).

Operational and Administrative

- County/community boards/departments that integrate mitigation in their current processes and how.

Funding

- Funding sources at the local level that may be used to fund mitigation projects.

Education/Outreach

- Current action the County/community is taking to integrate mitigation in their outreach and notifications to residents.

Adaptive Capacity


- Review the County and municipalities' adaptive capacity to deal with the potential impacts of climate change.



NFIP Questionnaire

- FEMA requires any municipality that participates in the NFIP to provide details on how they implement the NFIP
- Complete the handout or the online form
- Input due by September 19th



 Yates County | Hazard Mitigation Plan 2025 Update
Worksheet B - NFIP Questionnaire

Please send all electronic Word versions by **September 19, 2023** to:
Heather Apgar, Tetra Tech | heather.apgar@tetratech.com

This worksheet can also be completed online through this weblink (<https://forms.office.com/r/vDkaAQEXAH>).

Municipality: _____
Name: _____
Title: _____
Email: _____

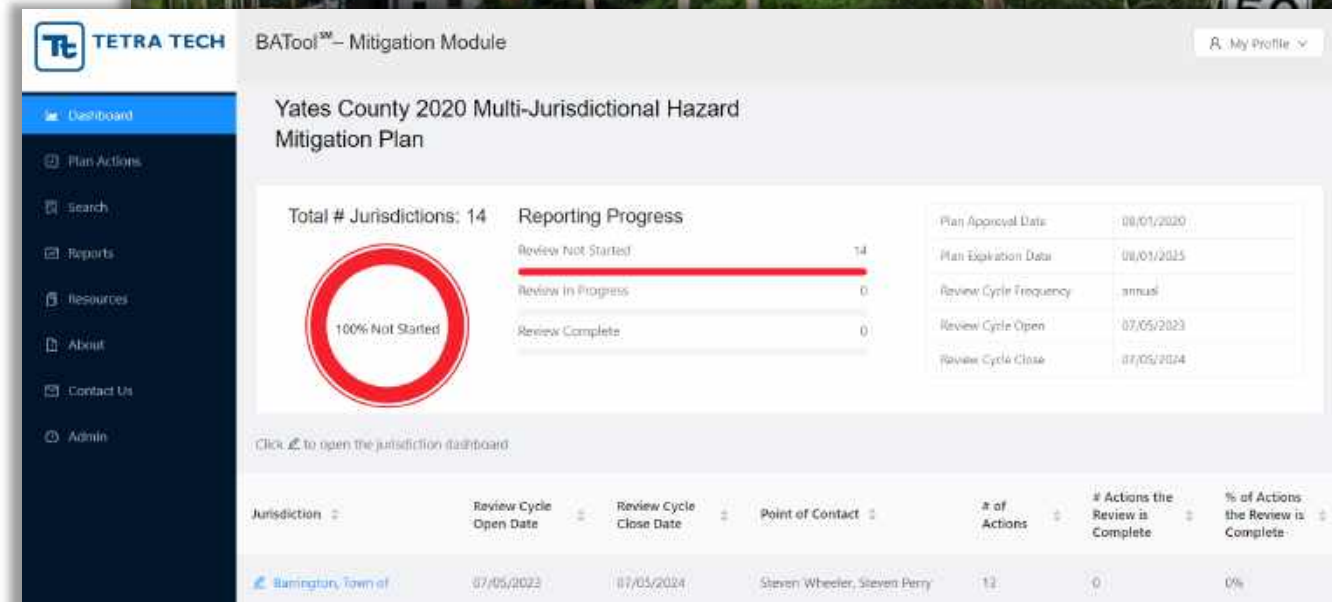
In accordance with 44 CFR § 201.6(c)(3)(ii), the Hazard Mitigation Plan must describe how each jurisdiction participates in the National Flood Insurance Program (NFIP) and how the jurisdiction enforces NFIP requirements. To help meet this requirement, please complete the following table. **Who can assist with completing this table?** NFIP Floodplain Administrator – as identified by role/title in your flood damage prevention ordinance.

| NFIP Topic | Comments |
|---|----------|
| Flood Vulnerability Summary Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none">• Do you maintain a list of properties that have been damaged by flooding? | |
| <ul style="list-style-type: none">• Do you maintain a list of property owners interested in flood mitigation?• How many homeowners and/or business owners are interested in mitigation, reduction or prevention? | |



Review Your 2020 Mitigation Actions

- Update the 2020 mitigation actions through the BAToolSM – less paperwork!
- Video tutorial on using the program and Tetra Tech available to help
- Populate 2025 mitigation actions



Phase 5 – Plan Maintenance

- Develop a game plan for maintaining the 2025 HMP over the next 5 years
 - How often will you meet to discuss progress on the HMP?
 - How will the County and jurisdictions integrate the HMP?
 - How will you monitor progress on the 2025 mitigation actions?



Phase 6 – Plan Updates and Deliverables

| Volume I | Appendices | Volume II |
|----------------------------|---|-----------------------------|
| Table of Contents | Sample Adoption Resolution | Planning Team |
| Executive Summary | Participation Matrix | Jurisdictional Annexes (14) |
| Introduction | Meeting Documentation | |
| Planning Process | Public and Stakeholder Outreach | |
| County Profile | Risk Assessment Information | |
| Risk Assessment | Mitigation Strategy Support Documentation | |
| Capability Assessment | Plan Maintenance Tools | |
| Mitigation Strategies | Linkage Procedures (if applicable) | |
| Plan Maintenance | Critical Facilities | |
| Acronyms and Abbreviations | High Hazard Potential Dam (HHPD) | |
| Glossary | | |
| References | | |



Phase 7 - Plan Review & Adoption

- Once FEMA approves the HMP, the County and each jurisdiction will need to adopt the plan
- Adoption demonstrates the County's and municipalities commitment the goals, objectives, and mitigation actions identified in the HMP
- Integrate the HMP!
 - Include hazard mitigation principles, vulnerability information, and mitigation actions into existing plans, codes, etc.
 - This will help in reducing risk and increase resilience across Yates County

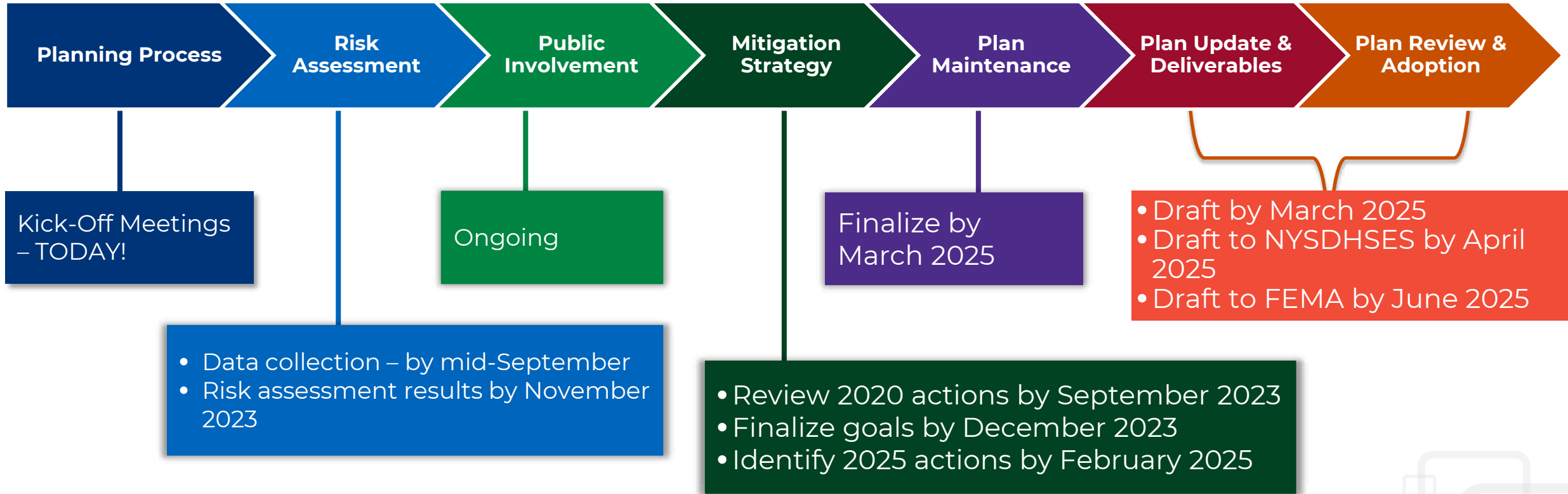




Project Schedule

Upcoming meetings and key milestones throughout the HMP update process

Schedule





Questions?

February 8, 2024 Yates County – Steering Committee

10 a.m. – 11 a.m. EST

| | |
|---|---|
| Attendees | <ol style="list-style-type: none"> 1. Ryan Bailey – Yates County OES 2. Brian Winslow – Yates County OES 3. Grant Downs – Town of Torrey Councilman 4. Amy Ciller – Yates County DSS 5. Anthony Validzic – Milo 6. Kevin Clapp – DHSES 7. Diane Caves – Yates County OES 8. Roland Paperman – DHSES 9. Sandi Perl – The Living Well Mission 10. Michael Tarasoff – DHSES 11. Tim Growth – Yates County 12. Heather Apgar – Tetra Tech 13. Grace Altenburg – Tetra Tech |
| Agenda | <ul style="list-style-type: none"> - In-Kind Tracking - Schedule <ul style="list-style-type: none"> o Progress Report o Public and Stakeholder Outreach - Strengths, Weaknesses, Obstacles, and Opportunities - Risk Assessment Overview - Goals/Objectives - Questions/Next Steps/Wrap Up |
| In-Kind Tracking | <ul style="list-style-type: none"> - In-Kind Tracking Form: https://www.surveymonkey.com/r/YatesHMPInKind |
| Strengths, Weaknesses, Obstacles, and Opportunities | <ul style="list-style-type: none"> - SWOO survey: https://forms.office.com/r/qYQd3r93Tq - Helps us to identify mitigation actions for the March meeting. - Not mandatory but any feedback will be helpful. - Goal is to take weaknesses and obstacles and turn those into mitigation actions for the plan. |

| | |
|---------------------------------|---|
| <p>Risk Assessment Overview</p> | <ul style="list-style-type: none"> - Risk Ranking Meeting Survey: https://forms.office.com/r/bfjaGpP9D3?origin=lprLink - Risk Ranking Post-Meeting Survey: <p>Diane Caves: We have been fortunate to not have had any aviation accidents in the last 5 years, but if we were to go back 10 - 15 years we would find more.</p> <p>Diane Caves: Brian and I will talk more about Transportation Accidents. We think this may be a Medium Risk level.</p> <p>Brian Winslow: Every couples years we will have a train derail. We had a aircraft incidents in a 10 year span. Some of our busier roads there was a gas tanker accidents, with gas leak into tributaries. Some of these incidents may not be available online.</p> |
| <p>Goals/Objectives</p> | <ul style="list-style-type: none"> - Goals and Objectives Survey: https://forms.office.com/r/2wnJ25JB0s - Add in socially vulnerable populations and community lifelines in Goal 1. <p>Kevin Clapp: here are the states goals and objectives https://mitigateny.org/state_mitigation/goals_and_objectives</p> |
| <p>Questions</p> | <ul style="list-style-type: none"> - Brian Winslow: well put together, thank you on behalf of the County. |
| <p>Next Steps</p> | <ul style="list-style-type: none"> - |



Yates County Hazard Mitigation Plan Update

Steering Committee Meeting #2 – Review Preliminary Hazard Ranking and Goals/Objectives

February 8, 2024

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

Today's Agenda

1. In-Kind Tracking
2. Schedule
3. Progress Report
4. Public and Stakeholder Outreach
5. Risk Assessment Overview
6. Goals/Objectives
7. Questions/Next Steps/Wrap Up

In-Kind Tracking

Jurisdiction: _____

Name: _____ Title: _____

| Date | Start Time | End Time | # hours | Task Description | Hourly Rate | Total # hours x rate | Comments describe task in more detail. |
|------|------------|----------|---------|------------------|-------------|----------------------|--|
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Scan the QR code for the online form to enter your time.



-or-

<https://www.surveymonkey.com/r/YatesHMPIInKind>



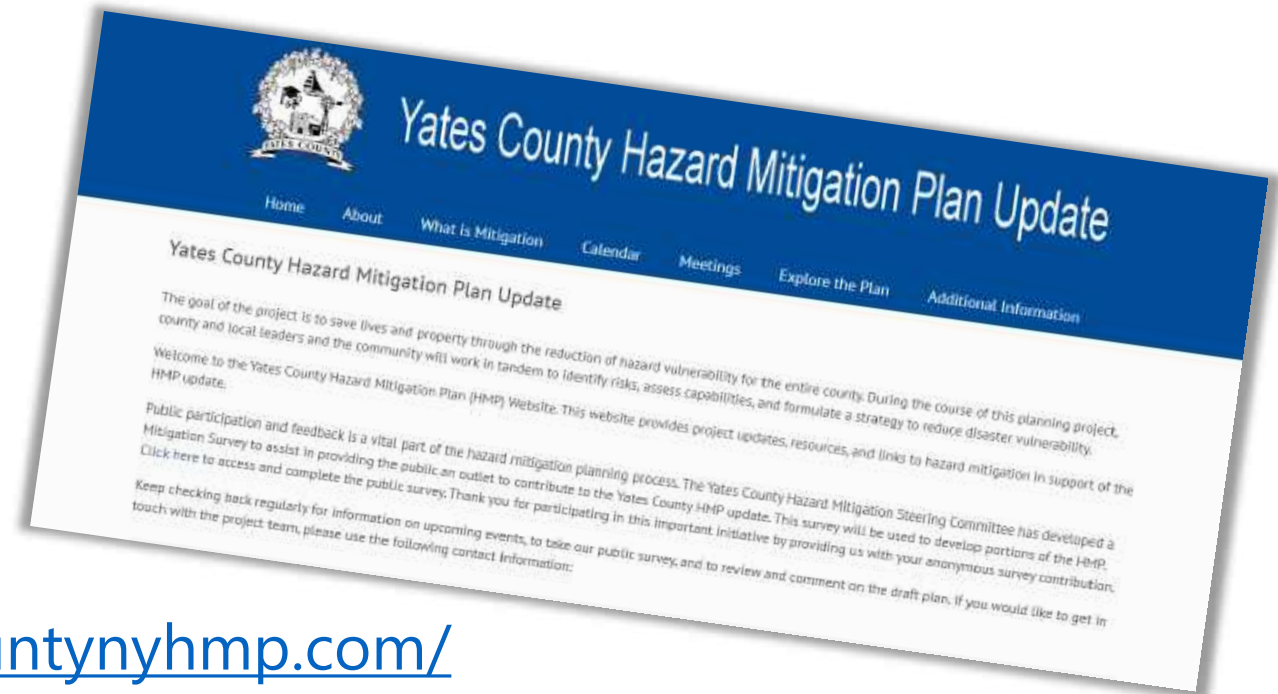
Project Schedule

- **Planning Process**
 - Ongoing
- **Update Risk Assessment**
 - Discuss risk assessment results – **TODAY!**
 - Discuss risk assessment with municipalities – **February 22nd**
- **Public and Stakeholder Outreach**
 - Ongoing
- **Capability Assessment**
 - Ongoing
- **Mitigation Strategy**
 - Continue working with municipalities
 - Mitigation Strategy Workshop with FEMA and State – **March 26th (in person)**
- **Plan Maintenance**
 - Finalize plan maintenance procedures by **March 2024**
- **Develop Plan**
 - Draft Plan to Steering Committee by **April 2024 (tentative)**
 - Draft Plan Presentation - **May 1st (tentative)**
 - Public Review Period – **May-June 2024 (tentative)**
 - Draft to NYS DHSES – **June 2024 (tentative)**
 - Draft to FEMA – **August/September 2024 (tentative)**
 - Adoption – **October/November 2024 (tentative)**



Public and Stakeholder Outreach

- Public Outreach Toolkit –
 - Social media templates and posts
 - Printable materials
- Surveys
 - Stakeholders
 - Neighboring communities
 - Public
- HMP website - <https://www.yatescountynyhmp.com/>
- StoryMap (coming soon!)
- Planning Partnership meetings open to the public and stakeholders



Risk Assessment Overview

*How are the rankings calculated?
What is the preliminary ranking?*



Hazards of Concern (2024 HMP)



Dam Failure



Disease Outbreak



Drought



Extreme Temperature



Flood



Harmful Algal Bloom



Hazardous Materials



Landslide



Severe Storm



Severe Winter Storm



Transportation
Accidents



What is Risk?

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



HAZARD

VS

RISK

A **HAZARD** is something that has the potential to harm you



RISK is the likelihood of a hazard causing harm



Conducting a Risk Assessment

Identify Hazards

Describe Hazards

Identify Community Assets

Analyze Impacts

Summarize Vulnerability





Preliminary Risk Assessment Results



Dam Failure

Preliminary Hazard Ranking

LOW

Dam failures in Yates 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.

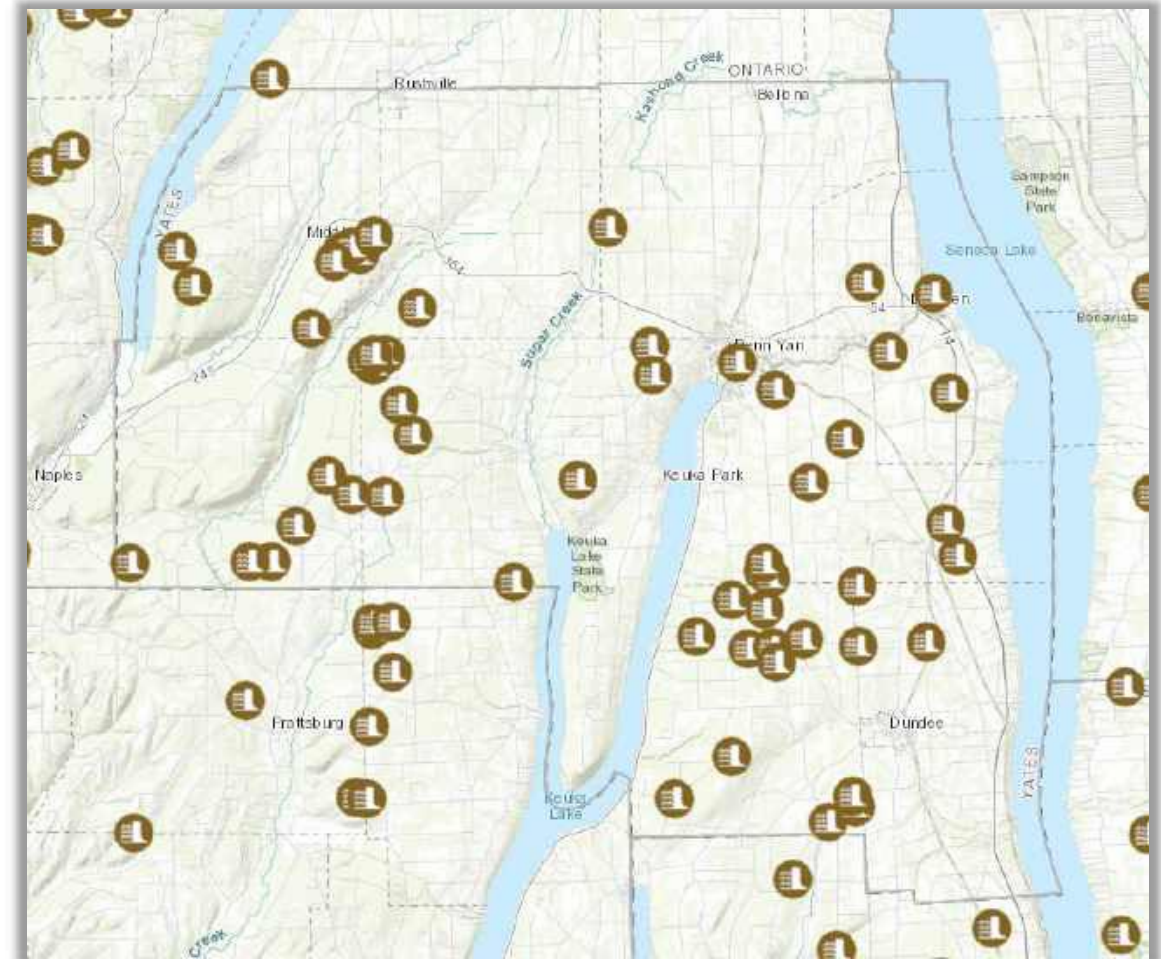
Number of Dams

66

- 24 - Low Hazard (A)
- 2 - Intermediate Hazard (B)
- 1 - High Hazard (C)
- 39 - Negligible Hazard (D)

Impacts

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





Disease Outbreak

Preliminary Hazard Ranking

MEDIUM

Disease outbreaks can impact the entirety of Yates 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

24,773

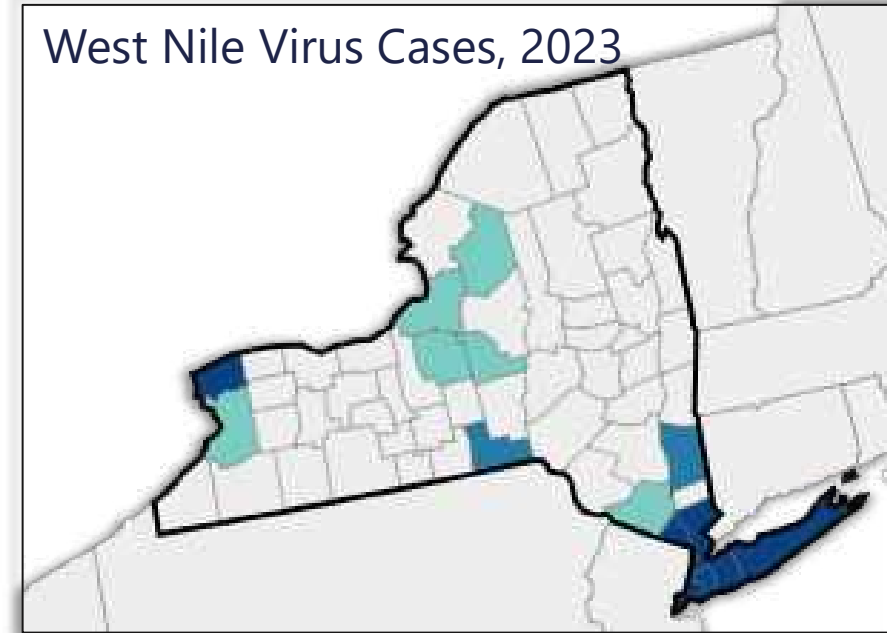
(100%)

The entire County is exposed and vulnerable

Hazard Types

- Influenza
- West Nile Virus
- Lyme Disease
- Coronavirus

West Nile Virus Cases, 2023

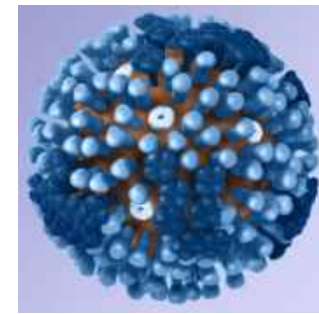


History

- Between 1999 and 2022, two human infections was reported.
- In 2020, there were 13 reported cases of Lyme disease
- For the 2023-2024 flu season, as of January 27th, there have been 126 confirmed cases of influenza.
- Since 2020, Yates County reported 4,544 positives cases of Covid-19 and 45 deaths related to Covid-19.

Impacts

- Public health threats
- Economy
- Long-term health issues
- Fatalities





Drought

Preliminary Hazard Ranking
MEDIUM

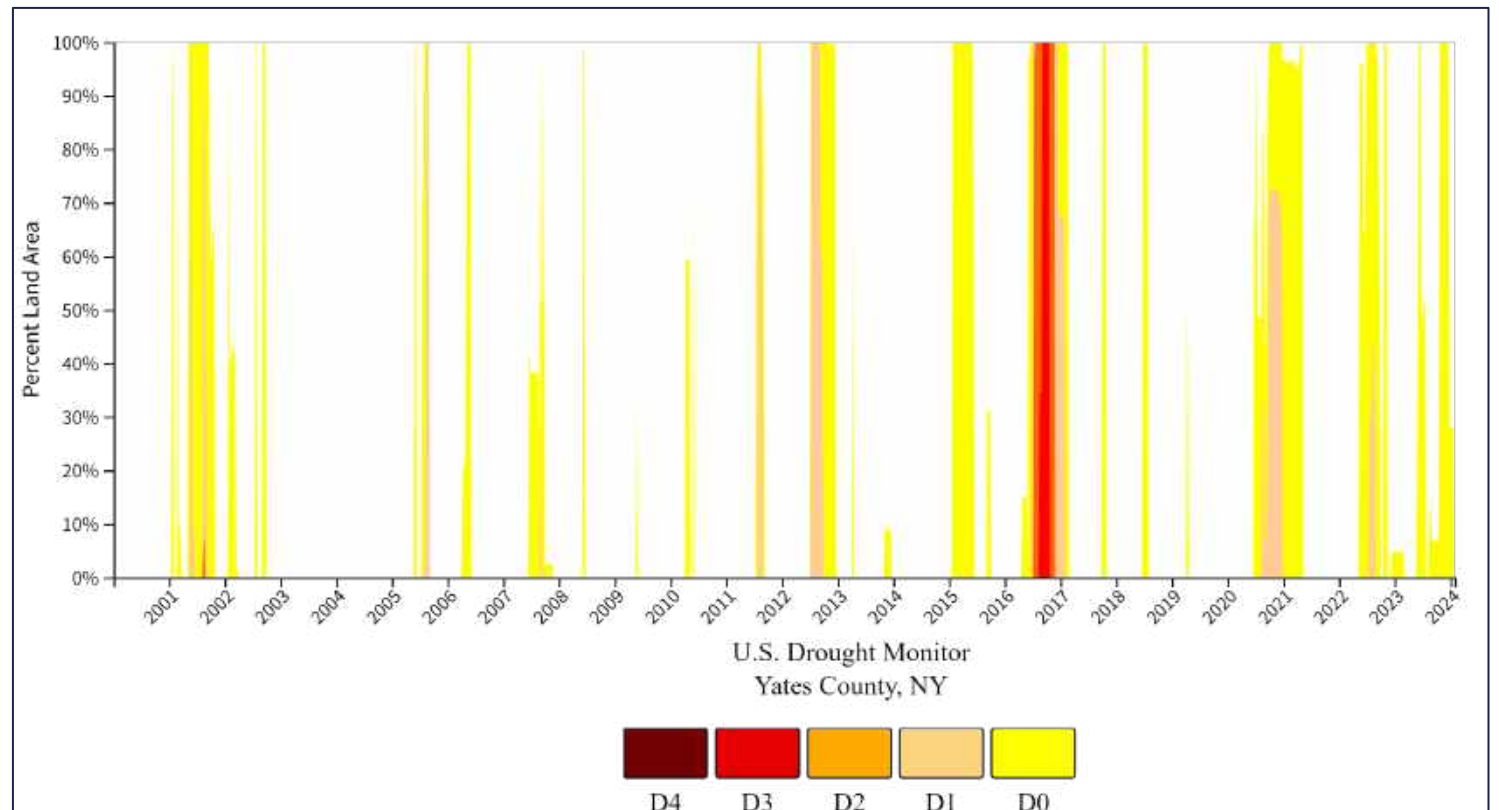
Droughts can affect Yates County's industries and make day to day tasks more difficult to complete when water usage must be monitored.

Population Exposed
24,773
(100%)
The entire County is exposed and vulnerable

Agriculture
867 farms
\$114.6 million in sales

Drought History (2000 to 2023)
17 reported impacts

Historical Drought Conditions for Yates County





Extreme Temperature

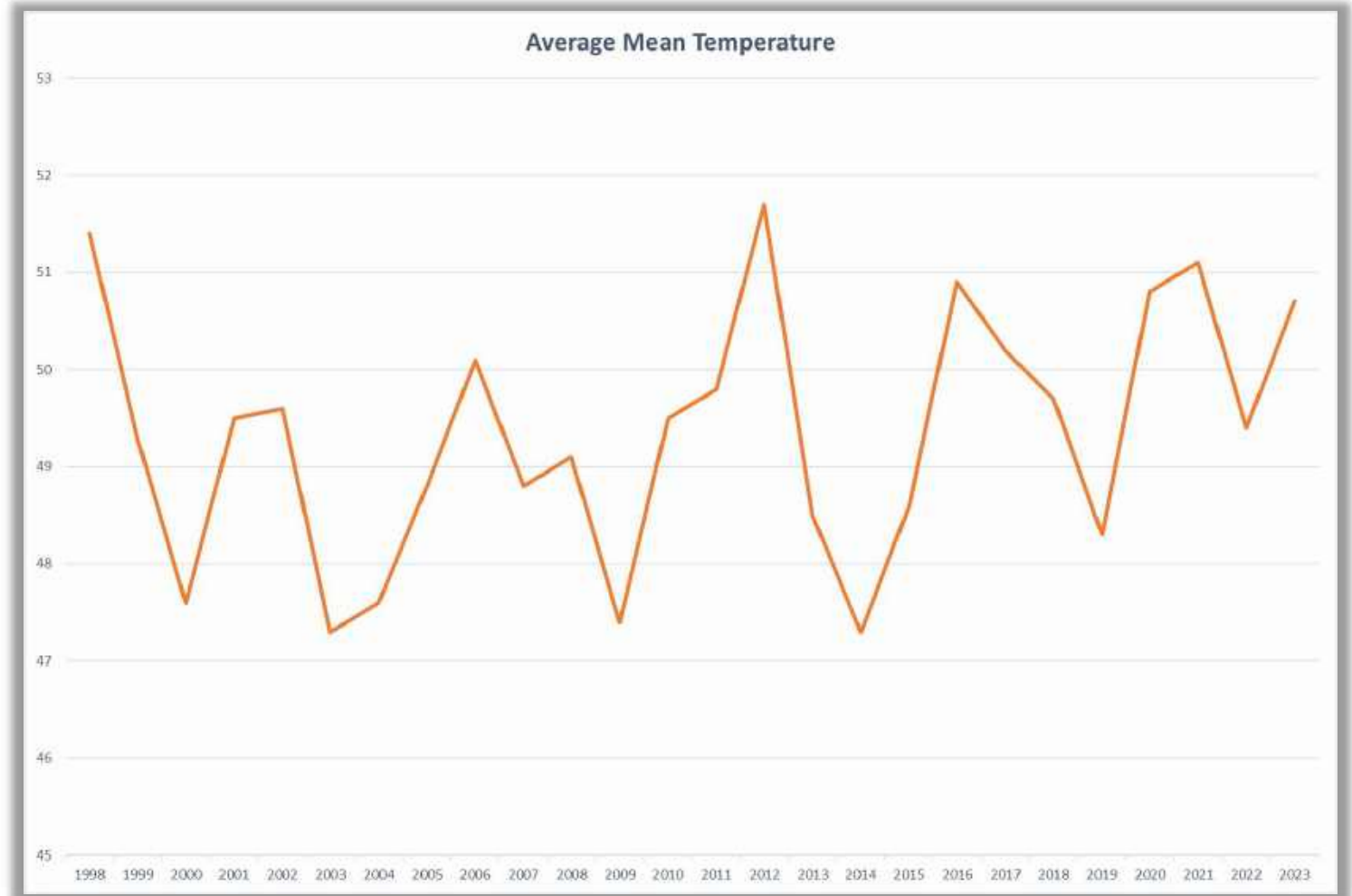
Preliminary Hazard Ranking
MEDIUM

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

Population Exposed
24,773
(100%)
The entire County is exposed and vulnerable

USDA Declarations
3
3 frost/freeze events

Agriculture
867 farms
\$114.6 million in sales





Flood

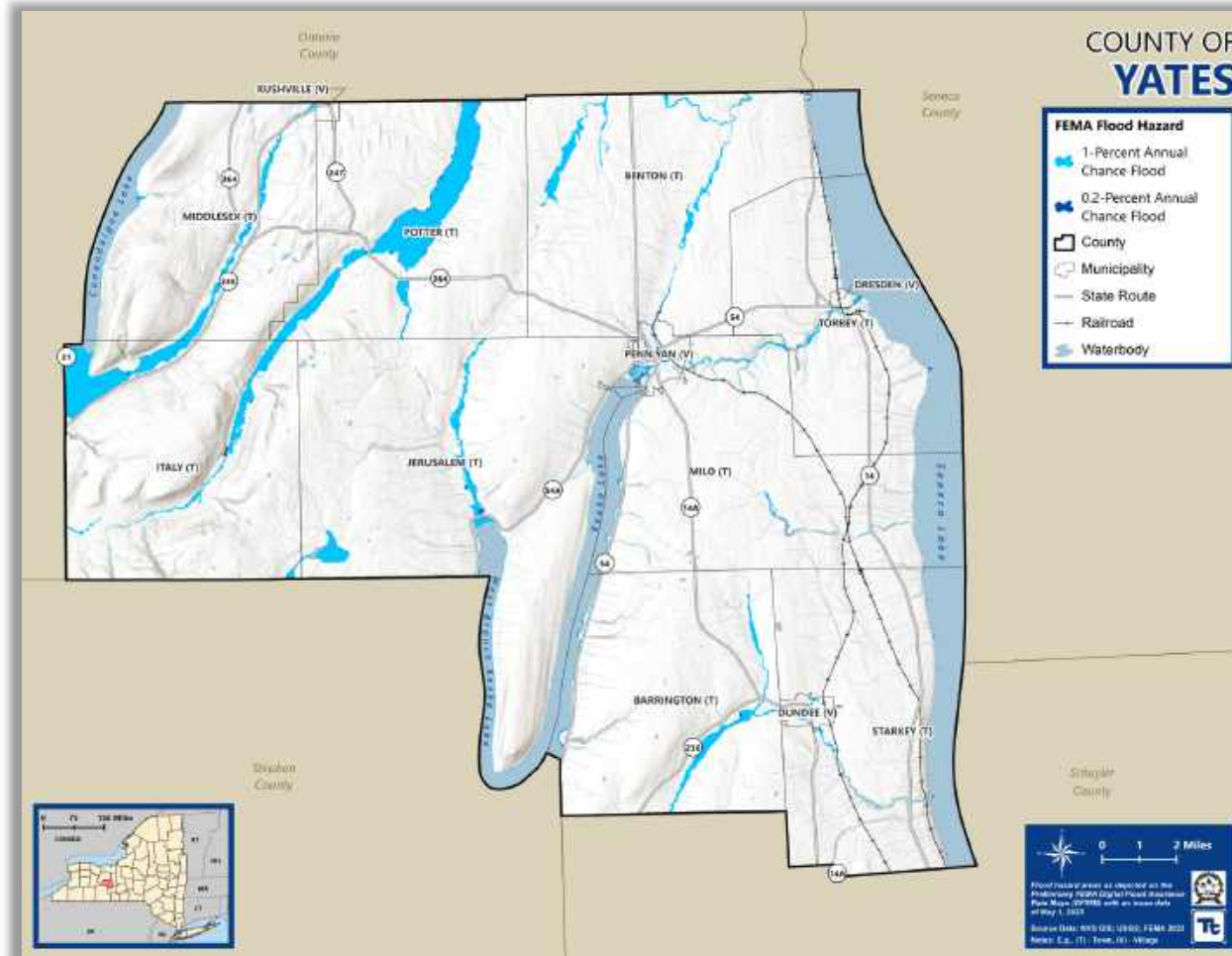
Preliminary Hazard Ranking
MEDIUM

Floods are one of the costliest natural hazards in Yates County, leading to displaced residents and economic hardships, especially to communities located within floodprone areas or floodplains.

Population Exposed
522
(2.1%)
In 1% Annual Chance Flood Hazard Area

Vulnerable Population
235
(1.8%)
In 1% Annual Chance Flood Hazard Area

Buildings
465
(2.1%)
In 1% Annual Chance Flood Hazard Area



Total Land in Flood Hazard Area
8,277 acres
(3.8%)

Incidents
Since 1954, FEMA included Yates County in 8 declarations.

- DR-487 (Storms, Rain, Flooding)
- DR-725 (Severe Storms and Flooding)
- DR-1095 (Severe Storms and Flooding)
- DR-1335 (Severe Storms and Flooding)
- DR-1486 (Severe Storms, Flooding, Tornadoes)
- DR-1534 (Severe Storms and Flooding)
- DR-1993 (Severe Storms, Flooding, Tornadoes, Wind)
- DR-4180 (Severe Storms and Flooding)



Harmful Algal Bloom

Preliminary Hazard Ranking

MEDIUM

Harmful algal blooms (HABs) in freshwater (lakes, ponds, rivers, and streams) generally consist of visible patches of cyanobacteria, also called blue-green algae. Several types of cyanobacteria can produce toxins and other harmful compounds that can pose health risks to people and animals through ingestion, skin contact, or inhalation.

Population Exposed

24,773

(100%)

Entire population exposed; however, those that are located near impacted waters or rely on lakes for drinking water are more at risk

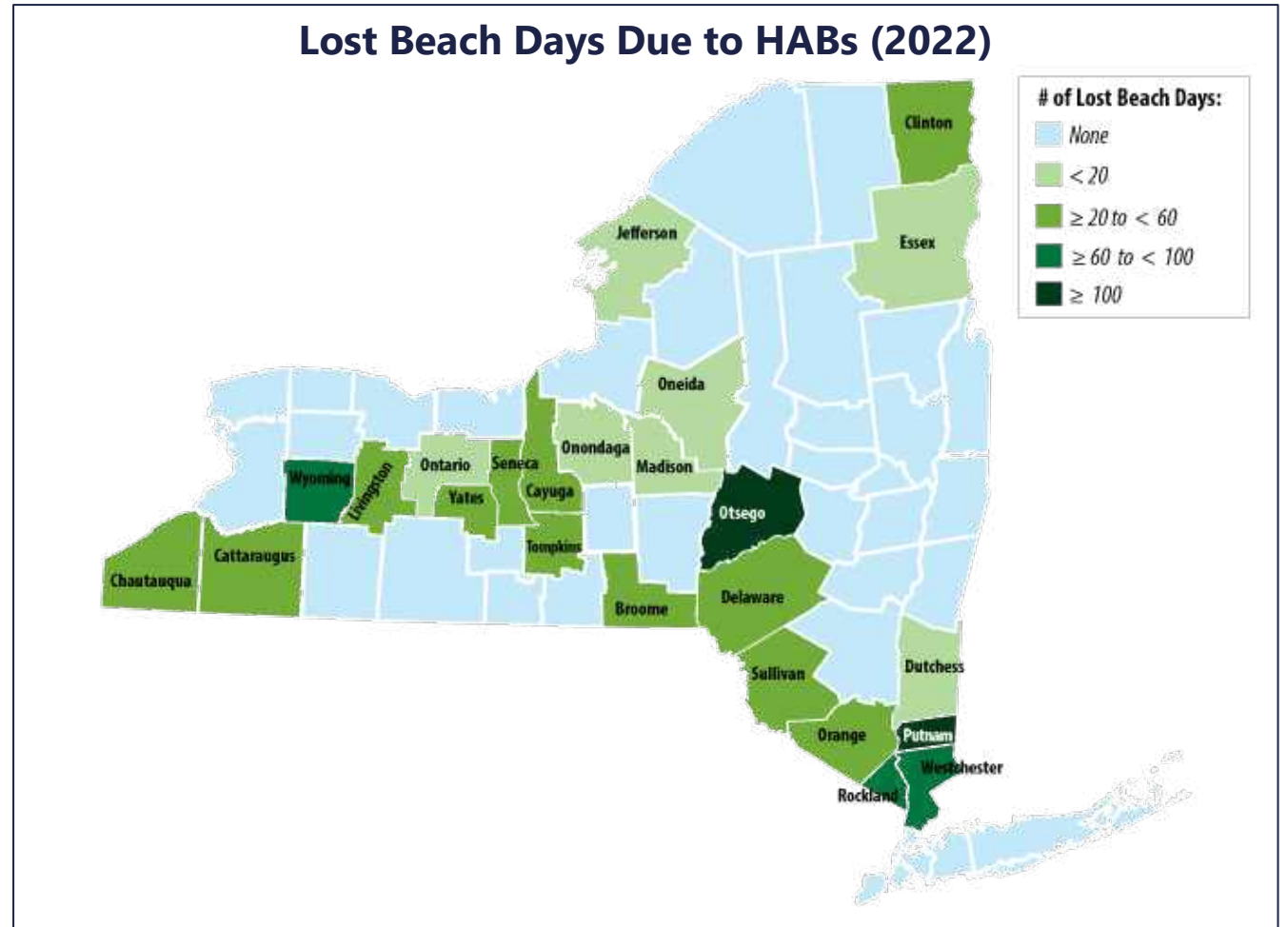
Event History

Since 2019, there have been 560 HAB reports in Yates County. Canandaigua Lake, Half Moon Lake, Keuka Lake, and Seneca Lake have all been impacted by HABs. In 2022, Beaches on Keuka Lake reported closure for a total of 32 days as a result of HABs.

Impacts

- Drinking water contamination
- Water quality
- Health issues (skin irritation, stomach issues)
- Depleting oxygen in water
- Economic losses from fisheries and recreational areas

Lost Beach Days Due to HABs (2022)





Hazardous Materials

Preliminary Hazard Ranking

MEDIUM

Hazardous material releases may happen during manufacturing, storage, transportation, or usage, both along transportation routes and at fixed-site facilities. These releases can cause harm to humans, wildlife, properties, and also lead to air, water, and soil contamination.

Population Exposed

14,553
(58.7%)

Population located within
0.5 miles of pipelines,
major roadways, or
railroads

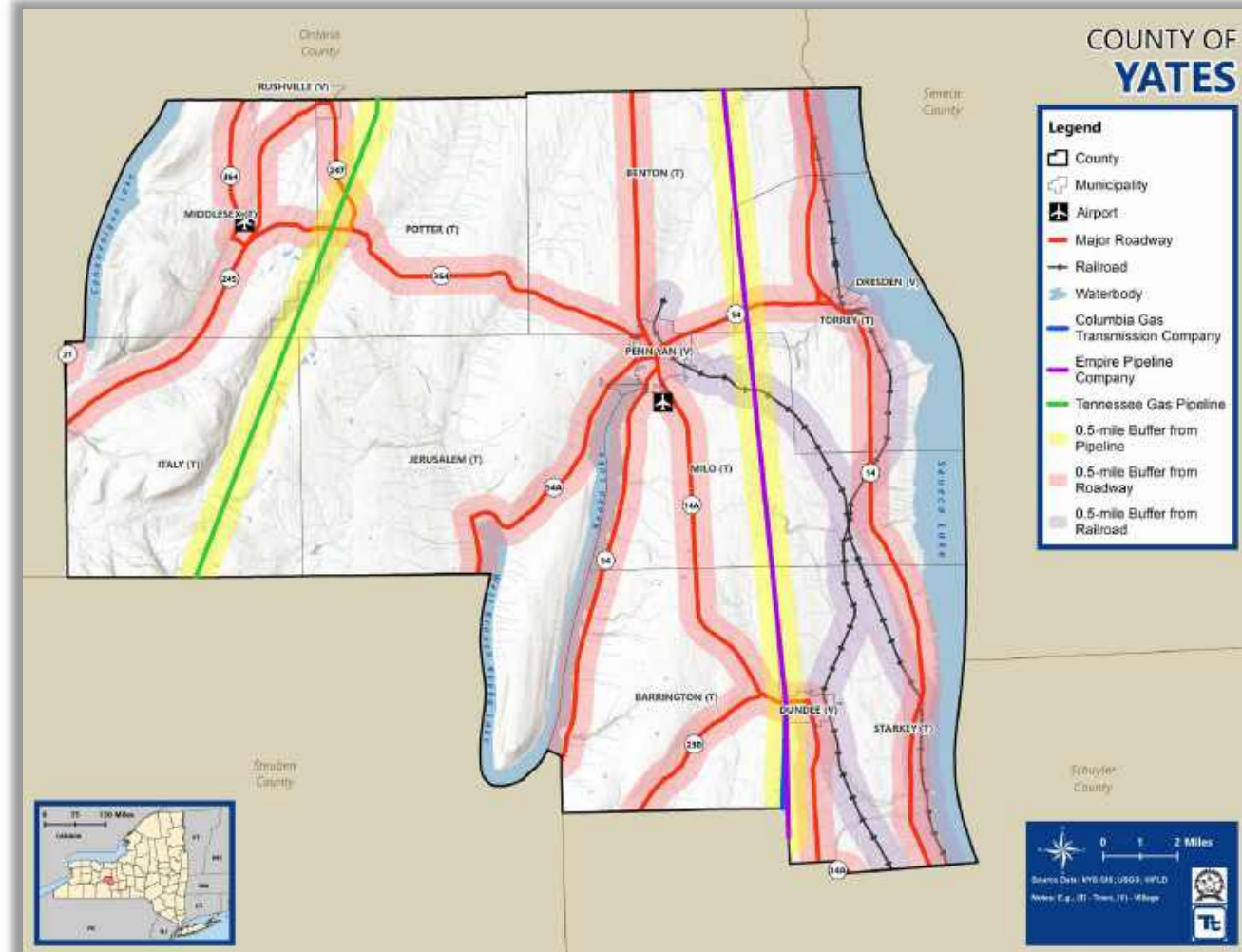
Buildings Exposed

10,722
(48.5%)

Buildings located within
0.5 miles of pipelines,
major roadways, or
railroads

Potential Impacts

- Death
- Serious injury
- Long-lasting health effects
- Property damage
- Air and water contamination
- Closed or damaged transportation routes
- Loss of natural resources





Landslides

Preliminary Hazard Ranking
LOW

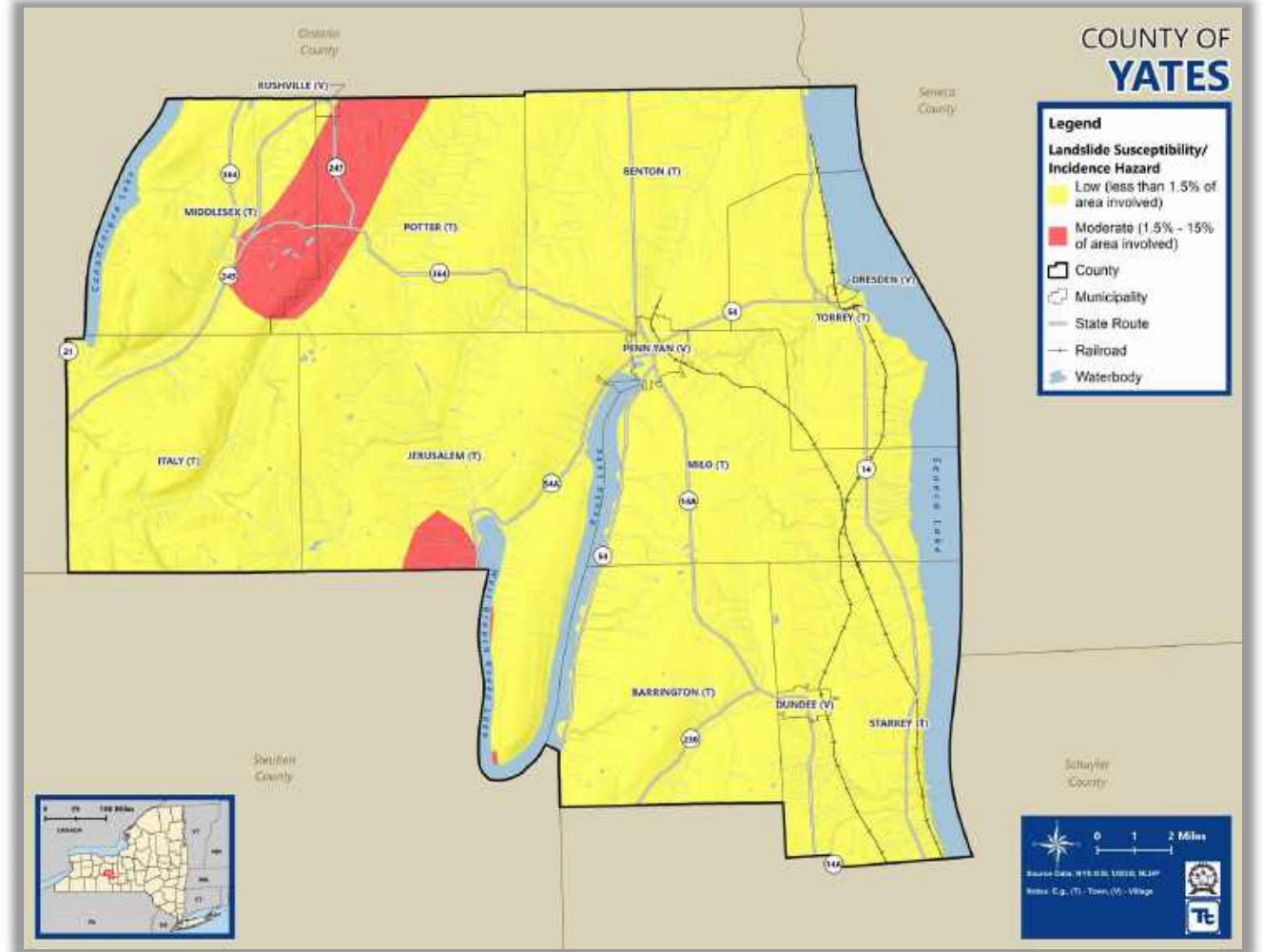
Landslides are composed of natural rock, soil, artificial fill, or a combination and move along a downward slope. They flow rapidly, striking at avalanche speeds that can travel several miles, growing in size as they pick up trees, boulders, cars and other materials.

Population Exposed
1,490
(6%)
People living in moderate landslide susceptibility areas

Buildings Exposed
966
(4.4%)
Buildings located in moderate landslide susceptibility areas

Potential Impacts

- Utility disruptions and outages
- Loss of life
- Damaged infrastructure
- Loss of natural resources
- Flooding
- Block or damage transportation routes





Severe Weather

Preliminary Hazard Ranking

MEDIUM

Severe storm events are a common occurrence in Yates County. A variety of severe storm types, such as thunderstorms, lightning, hail, tornadoes, high winds, and tropical cyclones have damaged property and infrastructure, disrupt power, downing trees, and power lines, and causing injuries and fatalities.

Population Exposed

24,773

(100%)

The entire County is vulnerable

Buildings Exposed

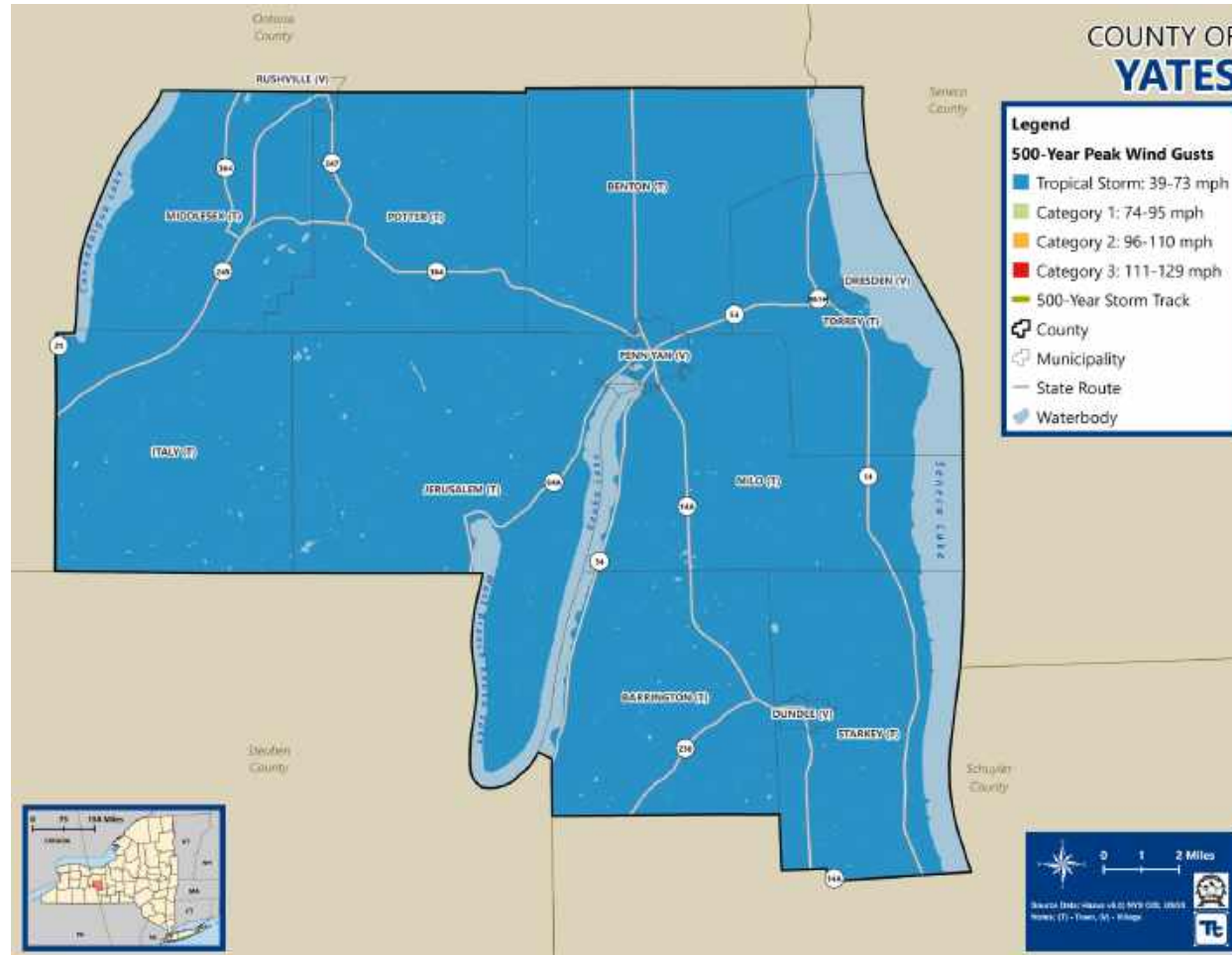
22,096

(100%)

The entire County is vulnerable

Potential Impacts

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



Incidents

- Between 2018 and 2023, 49 severe weather events were recorded by NOAA NCEI.
- Since 1954, FEMA included Yates County in 11 declarations.
 - DR-338 (Tropical Storm Agnes)
 - DR-487 (Storms, Rain, Flooding)
 - DR-725 (Severe Storms and Flooding)
 - DR-1095 (Severe Storms and Flooding)
 - DR-1335 (Severe Storms and Flooding)
 - DR-1486 (Severe Storms, Flooding, Tornadoes)
 - DR-1534 (Severe Storms and Flooding)
 - DR-1993 (Severe Storms, Flooding, Tornadoes, Wind)
 - EM-3351 (Hurricane Sandy)
 - DR-4180 (Severe Storms and Flooding)
 - DR-4625 (Remnants of Tropical Storm Fred)



Severe Winter Weather

Preliminary Hazard Ranking

MEDIUM

In Yates County, winter weather includes heavy snow, sleet, blizzards, and ice storms. These events occur frequently during the winter months and has the potential to be life-threatening.

Population Exposed

24,773

(100%)

The entire County is exposed and vulnerable

Blizzard Warning
Severe winter weather is expected within the next **12 to 36 hours** or is occurring – including whiteout conditions. **Do not travel.**
take action.

Winter Storm Warning
Dangerous winter weather is expected within the next **12 to 36 hours** or is occurring. **Considerable travel problems** are expected.
take action.

Winter Weather Advisory
Potentially dangerous winter weather is expected within the next **12 to 36 hours** or is occurring. **Travel difficulties** are expected.
be aware.

Incidents

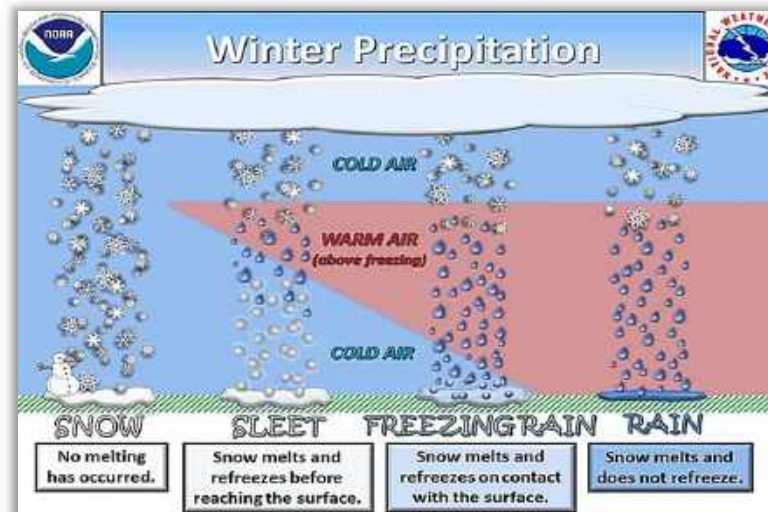
- Between 2018 and 2023, 13 winter weather events were recorded by NOAA NCEI.
- Since 1954, FEMA included Yates County in three declarations.
 - DR-898 (Severe Winter Storm)
 - EM-3107 (Severe Blizzard)
 - DR-1467 (Ice Storm)

General Building Stock and Critical Facilities Exposed

22,096

(100%)

The entire County is exposed and vulnerable; however structural impacts are minimal.



Hazard Types

- Heavy Snow
- Blizzard
- Sleet
- Ice Storm



Transportation Accidents

Preliminary Hazard Ranking

LOW

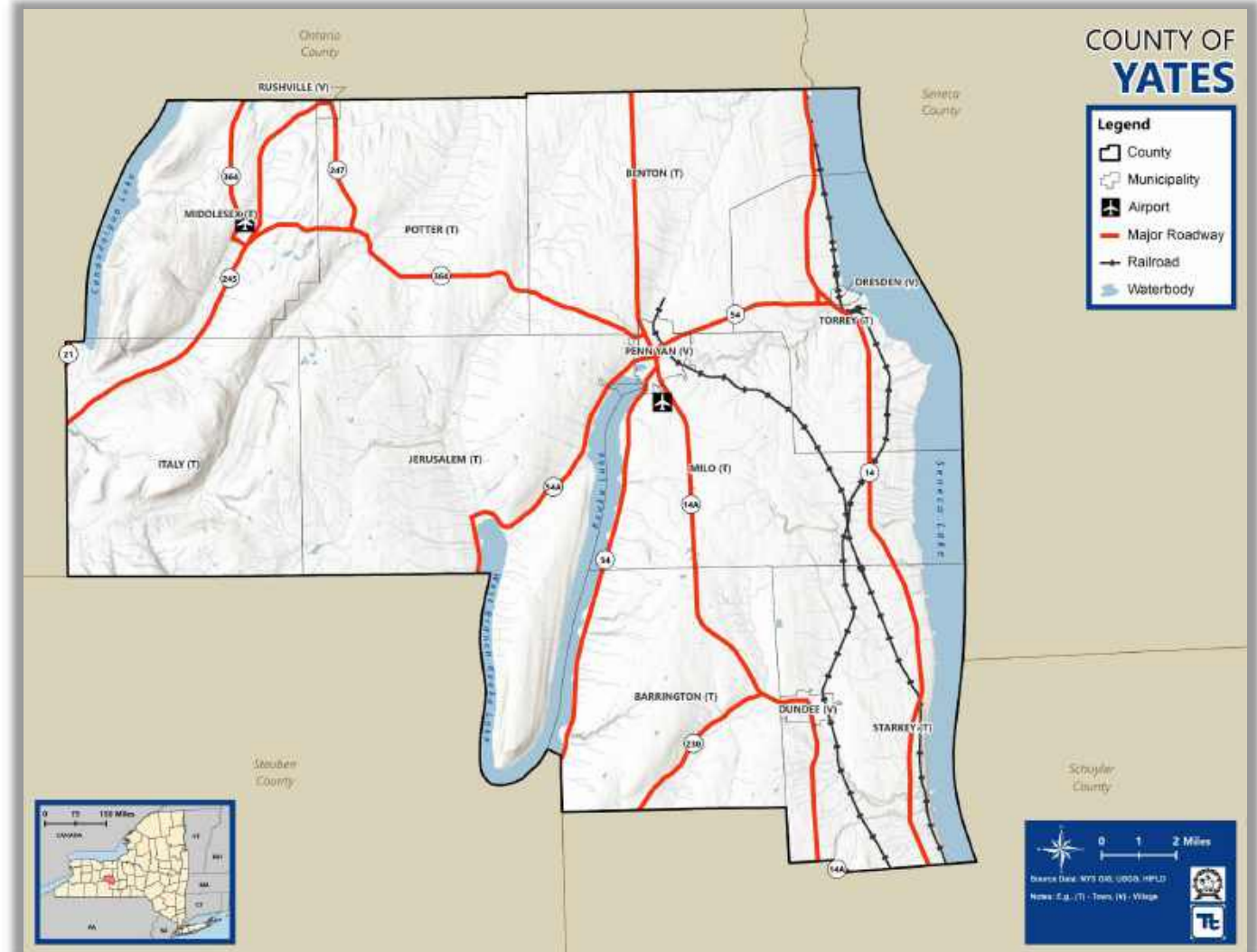
Transportation accidents include, vehicular accidents, aviation accidents, railway accidents, and hazardous materials in transit.

Incidents

Between 2018 and 2023, there have been over 3,900 vehicle crashes report to ITSMR throughout the County. No reports were found related to aviation or rail incidents or hazardous materials in transit.

Impacts

- While this is a manmade hazard, natural hazards can increase the potential of accidents to occur.
- Widespread hazard that can occur anywhere in Yates County.
- According to NYS Department of Health, Motor vehicle crash injuries are a leading cause of injury related deaths for Yates County residents.

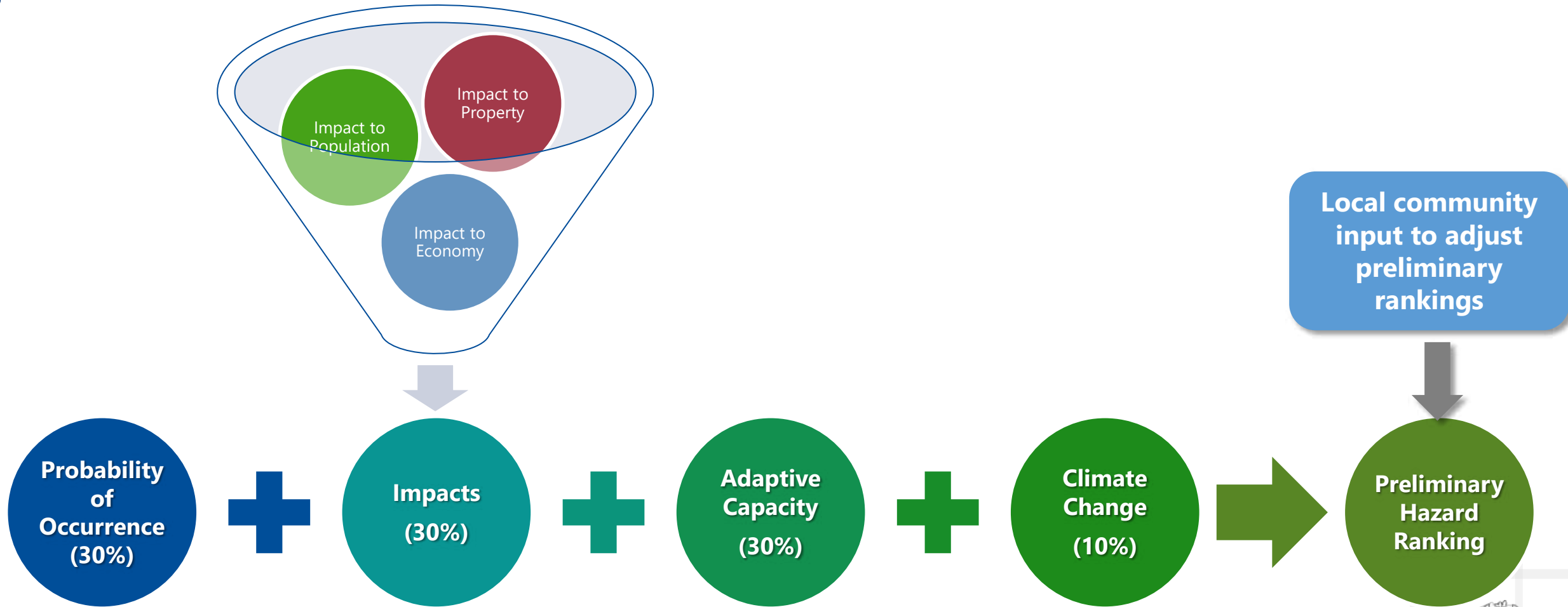


Preliminary Hazard Ranking Methodology

- 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



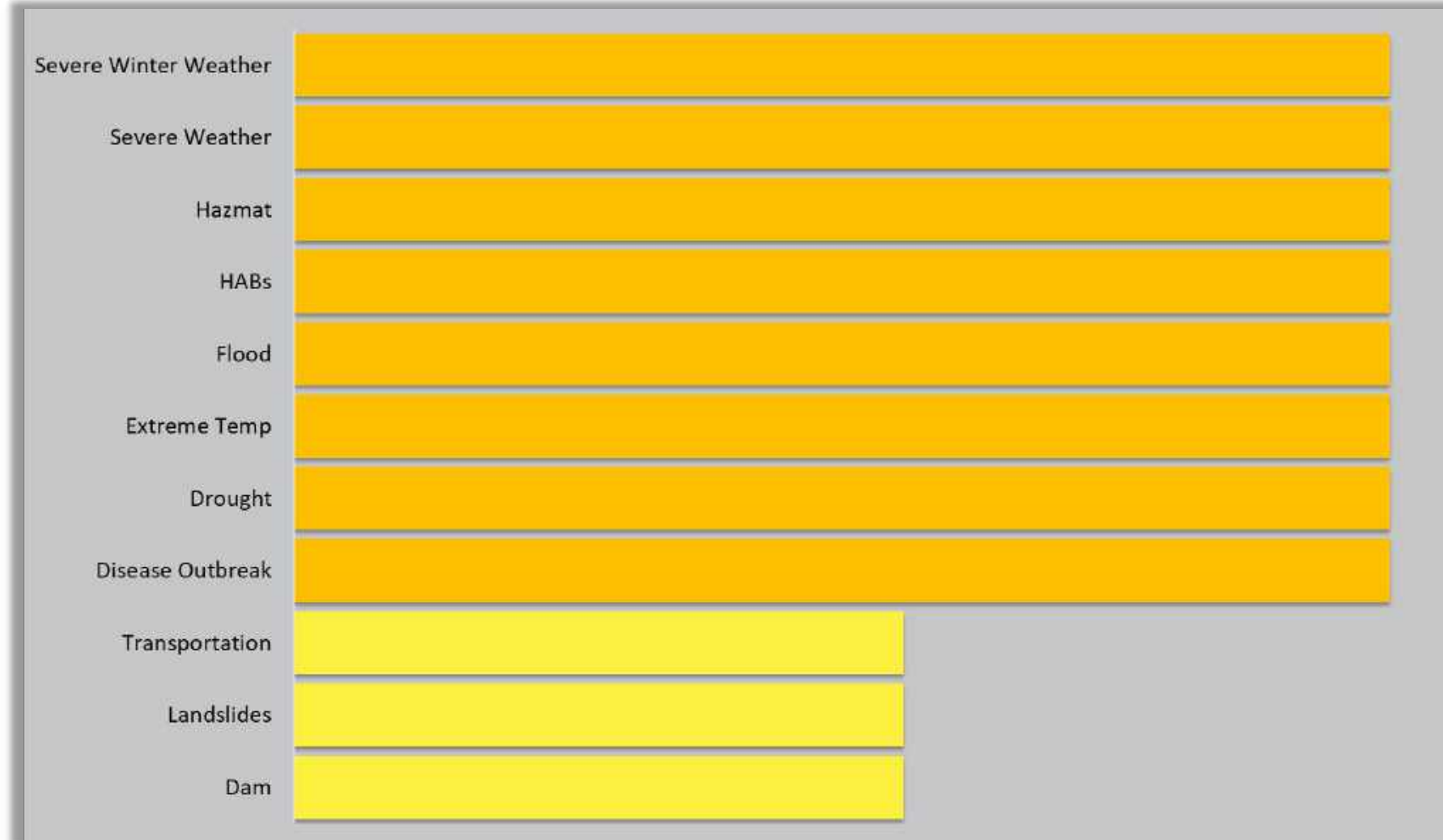
Hazard Ranking (Countywide)

- **Medium**

- Severe Winter Weather
- Severe Weather
- Severe Weather
- Hazmat
- HABs
- Flood
- Extreme Temp
- Drought
- Disease Outbreak

- **Low**

- Transportation
- Landslides
- Dam Failure



Preliminary Hazard Ranking (Municipal)

| Jurisdictions | Hazard Ranking | | | | | | | | | | |
|---------------------|----------------|------------------|---------------|---------------|---------------|---------------|---------------|------------|----------------|-----------------------|----------------|
| | Dam | Disease Outbreak | Drought | Extreme Temp | Flood | HABs | Hazmat | Landslides | Severe Weather | Severe Winter Weather | Transportation |
| Barrington (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Benton (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Dresden (V) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Dundee (V) | Low | Medium | Medium | Medium | Low | Low | Medium | Low | Medium | Medium | Low |
| Italy (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Jerusalem (T) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Middlesex (T) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Milo (T) | Low | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Low |
| Penn Yan (V) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Potter (T) | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Medium | Low |
| Rushville (V) | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Medium | Low |
| Starkey (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Torrey (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Yates County | Low | Medium | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Low |



Do you agree with the rankings?

- Use the online form to let us know if you agree with the rankings.
- If you do not agree, what should the ranking be?
- Click the link in the chat or scan the QR code

Yates County - Hazards of Concern (for meeting)

Please use this form to provide feedback about the preliminary hazard rankings for Yates County.

* Required

1. Do you agree with the preliminary rankings for Yates County? *

| | Yes | No |
|---------------------------------------|-----------------------|-----------------------|
| Dam Failure - LOW | <input type="radio"/> | <input type="radio"/> |
| Disease Outbreak - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Drought - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Extreme Temperature - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Flood - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| HABS - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Hazmat - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Landslides - LOW | <input type="radio"/> | <input type="radio"/> |
| Severe Weather - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Severe Winter Weather - MEDIUM | <input type="radio"/> | <input type="radio"/> |
| Transportation Accidents - LOW | <input type="radio"/> | <input type="radio"/> |

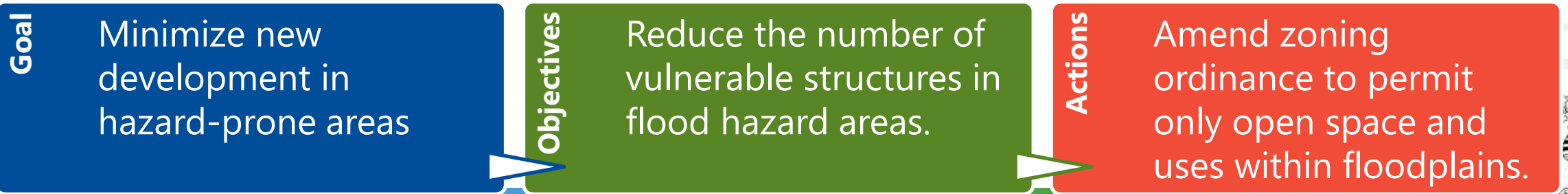




Goals and Objectives

Goals and Objectives – Review and Update

| Goal Number | Goal | Modify, Add, or Remove? |
|-------------|--|-------------------------|
| 1 | Reduce the likelihood and impacts of hazards on life, property, and the environment. | |
| 2 | Protect life, property, critical infrastructure, the environment, and the economy from hazard impacts. | |
| 3 | Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts. | |



Goals and Objectives Review and Update

| Objective Number | Objectives |
|------------------|---|
| 1 | Develop and/or update local regulations based on current information and best practices. |
| 2 | Maintain natural systems to reduce the impacts of hazards. |
| 3 | Acquire, retrofit, or relocate structures from flood-prone areas. |
| 4 | Retrofit critical infrastructure to protect against hazard impacts. |
| 5 | Enhance stormwater management infrastructure. |
| 6 | Ensure that critical facilities can continue to function during and after hazard impacts. |
| 7 | Encourage residents and business owners to insure their property against hazard impacts, including through flood insurance through the National Flood Insurance Program (NFIP). |
| 8 | Work with legislators to develop and enact legislation that reduces long-term vulnerability to hazards. |
| 9 | Ensure that local officials attend current training on regulatory issues and best practices. |
| 10 | Provide information to individuals throughout the county on the hazards they face and what property protection measures they can take. |

Goals for the 2024 HMP

- We need your input!
- Complete this online form to review and comment on the goals/objectives.
- Click the link in the chat or scan the QR code



Yates County HMP | Goals and Objectives

According to CFR 201.6(c)(3)(i): "The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards." The mitigation goals have been developed based on the risk assessment results, discussions, research, and input from among the committee, existing authorities, policies, programs, resources, stakeholders and the public.

For the 2024 Update, we need to look at the previous plan's goals and objectives and update accordingly. They should be in-line with goals and objectives established in other related planning documents and mechanisms.

Review the tables below and indicate whether or not the goals should be kept, changed, or another goal should be added. Conduct the same exercise with the objectives.

* Required

1. Name *

2. Department/Agency: *

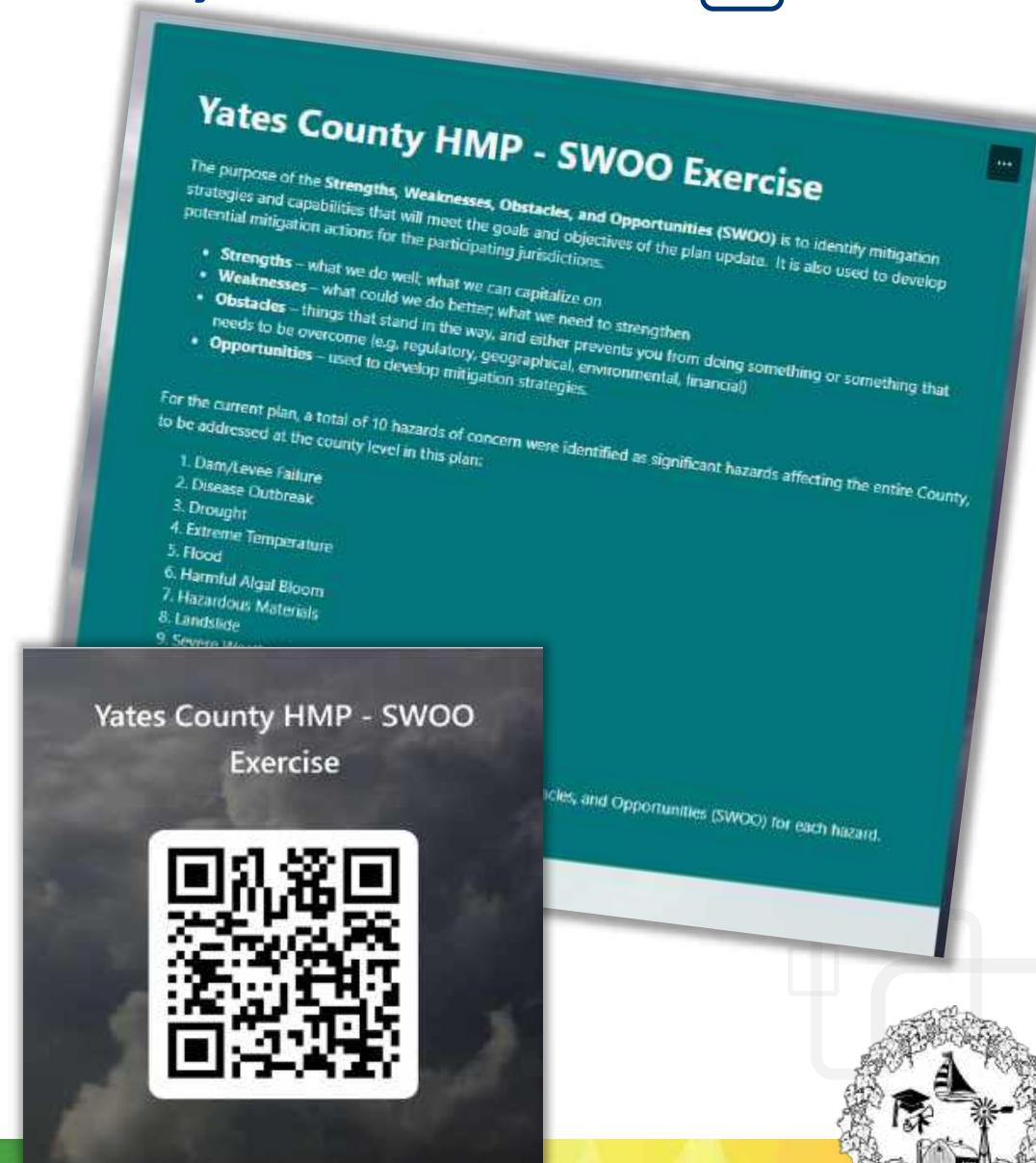




Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

- 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.





Questions?

Yates County Project Contacts

Diane Caves, Deputy Director
Yates County Emergency Services
315-536-3000 | dcaves@yatescounty.org

Tetra Tech Project Contacts

Heather Apgar, CFM
(973) 630-8046 | heather.apgar@tetrattech.com



**Thank
You!**

February 22, 2024 Yates County – Planning Partnership

10 a.m. – 11 a.m. EST

| | |
|---|---|
| Attendees | <ul style="list-style-type: none"> • Heather Apgar, Tetra Tech • Grace Altenburg, Tetra Tech • Doug Sinclair, Yates County Public Health • Jamie L. Sisson, Town of Jerusalem Supervisor • Colby Petersen, YC Soil and Water Conservation District • Brian Winslow, YC OES • Grant Downs, Town of Torrey • Brian Shriver, Town of Starkey • Brett McMichael, Village of Penn Yan • Ryan Bailey, YC OES • Nea Curtis, Village of Rushville |
| Agenda | <ul style="list-style-type: none"> - In-Kind Tracking - Schedule - Progress Report - Public/Stakeholder Outreach - RA Overview - Questions/Next Steps |
| In-Kind Tracker Schedule Progress Report | <ul style="list-style-type: none"> - Reminder to track your participation and time through the In-Kind tracker! - Plan to have draft completed by Summer. Draft plan to NYS by June and off to FEMA by late fall. - Working on our public and stakeholder outreach. An email will go out with materials to promote the HMP on social media platforms and offices (StoryMap, graphics and HMP website). Toolkit for public outreach to be sent out to assist with outreach. - Mitigation strategy: working with you to get the annex completed. Next meetings will be to go over mitigation actions and come up with new actions. <p>Planning partnership meetings will continue to be open to the public.</p> <p>Municipal worksheets needed:</p> <ul style="list-style-type: none"> - Hazard Event History - NFIP Questionnaire - Building Permits - Problem areas - New Development - Status of 2019 mitigation actions |
| RA Overview | <ul style="list-style-type: none"> - Dam Failure: preliminary ranking – Low <ul style="list-style-type: none"> o One HDD. - Extreme Temperature: Preliminary ranking – Medium <ul style="list-style-type: none"> o Entire county is exposed. o 3 USDA declarations. - Disease Outbreak: Preliminary Ranking – Medium <ul style="list-style-type: none"> o Qualitative assessment o Factored in vulnerable populations. |

| | |
|-------------------|---|
| | <ul style="list-style-type: none"> ○ Entire county is exposed. ○ Influenza, West Nile, Lyme Disease, COVID, etc. - HazMat: preliminary ranking – Medium - Man-made hazard. <ul style="list-style-type: none"> ○ Assessed population and buildings located within a ½ mile of major roadways, pipelines, and railroads = 59% of population exposed, 49% buildings exposed. - Landslide: Preliminary ranking – Low <ul style="list-style-type: none"> ○ Assessed population and buildings located in the moderate landslide susceptibility area = 6% of population, 4.4% of buildings. - Severe Winter Storm: Preliminary Ranking – Medium <ul style="list-style-type: none"> ○ Entire population and buildings are exposed in the County. ○ 13 winter weather events since 2018-2023. - Transportation Accidents: Preliminary ranking – Medium <ul style="list-style-type: none"> ○ Qualitative assessment. ○ Assessed major roadways, railways, and airports. ○ 2018-2023 there have been over 3,900 accidents reported. ○ Rail is accidents with trains hitting cars. One train was derailed a couple years ago. - Drought: Preliminary Ranking – Medium - Qualitative assessment. <ul style="list-style-type: none"> ○ Looked at agriculture and reported impacts according to the drought impact reporter. ○ Entire population, more vulnerable populations and those who rely on well water are most at risk. - HABS: Preliminary ranking – Medium <ul style="list-style-type: none"> ○ Qualitative assessment. ○ Considered the municipalities that are located closer to the bodies of water hat have reported HABS. ○ Those who rely on the lakes for drinking water are most at risk. ○ Since 2019 there has been 560 HAB reports. ○ Takes into account water contamination, for what is available. - Severe Storm: Preliminary Ranking – Medium - Entire population and buildings are exposed. <ul style="list-style-type: none"> ○ Factored in power and utility outages, history of occurrence NOAA_NCEI database. ○ 9 FEMA disaster declarations since 1954. - Flood: Preliminary Ranking – Medium <ul style="list-style-type: none"> ○ Quantitative assessment ○ 522 people exposed to the 1% annual chance flood hazard area. ○ Almost 4 % of the county’s land area is in the flood hazard area. ○ Looked at number of NFIP policy to make rankings for each municipality. |
| <p>Questions</p> | <p>Paul M: Does the dams include the man-made lakes? Concern for stormwater flooding as well.</p> <p>Heather A.: we looked at what was reported on NYS dm list. Feel free to change flooding ranking based on your stormwater flooding concerns.</p> |
| <p>Next Steps</p> | <p>- SWOO link will be sent out for review of the hazards of concern.</p> |

| | |
|--|--|
| | <ul style="list-style-type: none">- Tetra Tech planners will follow up with worksheets needed and online forms.- |
|--|--|



Tt TETRA TECH


Yates County Hazard Mitigation Plan Update

Planning Partnership Meeting #2 – Review Preliminary Hazard Ranking

February 22, 2024

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

1




Today's Agenda

1. In-Kind Tracking
2. Schedule
3. Progress Report
4. Public and Stakeholder Outreach
5. Risk Assessment Overview
6. Questions/Next Steps/Wrap Up

2

In-Kind Tracking




Jurisdiction: _____

Name: _____ Title: _____


| Date | Start Time | End Time | # hours | Task Description | Hourly Rate | Total # hours @ rate | Comments (describe task in more detail) |
|------|------------|----------|---------|------------------|-------------|----------------------|---|
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Scan the QR code for the online form to enter your time.



-or-


<https://www.surveymonkey.com/r/YatesHMPInKind>



Yates County Hazard Mitigation Plan 2024 Update

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Project Schedule



- **Planning Process**
 - Ongoing
- **Update Risk Assessment**
 - Discuss risk assessment results with Steering Committee – February 8th
 - Discuss risk assessment with municipalities – **TODAY!**
- **Public and Stakeholder Outreach**
 - Ongoing
- **Capability Assessment**
 - Ongoing
- **Mitigation Strategy**
 - Continue working with municipalities
 - Mitigation Strategy Workshop with FEMA and

State – **March 26th (in person)**

- **Plan Maintenance**
 - Finalize plan maintenance procedures by **March 2024**
- **Develop Plan**
 - Draft Plan to Steering Committee by **April 2024 (tentative)**
 - Draft Plan Presentation - **May 1st (tentative)**
 - Public Review Period – **May-June 2024 (tentative)**
 - Draft to NYS DHSES – **June 2024 (tentative)**
 - Draft to FEMA – **August/September 2024 (tentative)**
 - Adoption – **October/November 2024 (tentative)**



Yates County Hazard Mitigation Plan 2024 Update

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Public and Stakeholder Outreach



- Public Outreach Toolkit –
 - Social media templates and posts
 - Printable materials
- Surveys
 - Stakeholders
 - Neighboring communities
 - Public
- HMP website - <https://www.yatescountynyhmp.com/>
- StoryMap (coming soon!)
- Planning Partnership meetings open to the public and stakeholders



Yates County Hazard Mitigation Plan 2024 Update



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Municipal Worksheets




- To help us update your annex, we need the following worksheets (or online forms) completed and returned ASAP!
 - Hazard Event History
 - NFIP Questionnaire
 - Building Permits
 - Problem Areas
 - New Development
 - Status of 2019 Mitigation Actions

Yates County Hazard Mitigation Plan 2024 Update




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Worksheet Status




| Jurisdiction | Tt Planner | A - HOC and Events | B - NFIP | C - Building Permits | Problem Area Survey | New Development Survey | 2019 Mitigation Action Stats |
|----------------|----------------|--------------------|----------|----------------------|---------------------|------------------------|------------------------------|
| Yates County | Maddie/Heather | X | X | | | | |
| Barrington (T) | Maddie | X | X | | X | X | |
| Benton (T) | Maddie | | | | | X | |
| Dresden (V) | Maddie | | | | X | | |
| Dundee (V) | Grace | | X | | | | |
| Italy (T) | Grace | X | X | | | X | |
| Jerusalem (T) | Grace | X | X | | | X | |
| Middlesex (T) | Grace | | | | | | |
| Milo (T) | Grace | X | X | | X | | |
| Penn Yan (V) | Emily | X | X | | | X | |
| Potter (T) | Emily | X | | | | | |
| Rushville (V) | Emily | | | | | | |
| Starkey (T) | Emily | X | X | | | | |
| Torrey (T) | Emily | X | X | X | X | X - thru WS | X |



Yates County Hazard Mitigation Plan 2024 Update

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Risk Assessment Overview

*How are the rankings calculated?
 What is the preliminary ranking?*


8

Hazards of Concern (2024 HMP)







Dam Failure




Disease Outbreak




Drought




Extreme Temperature




Flood




Harmful Algal Bloom




Hazardous Materials




Landslide




Severe Storm



Severe Winter Storm



Transportation Accidents



Yates County Hazard Mitigation Plan 2024 Update

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What is Risk?

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



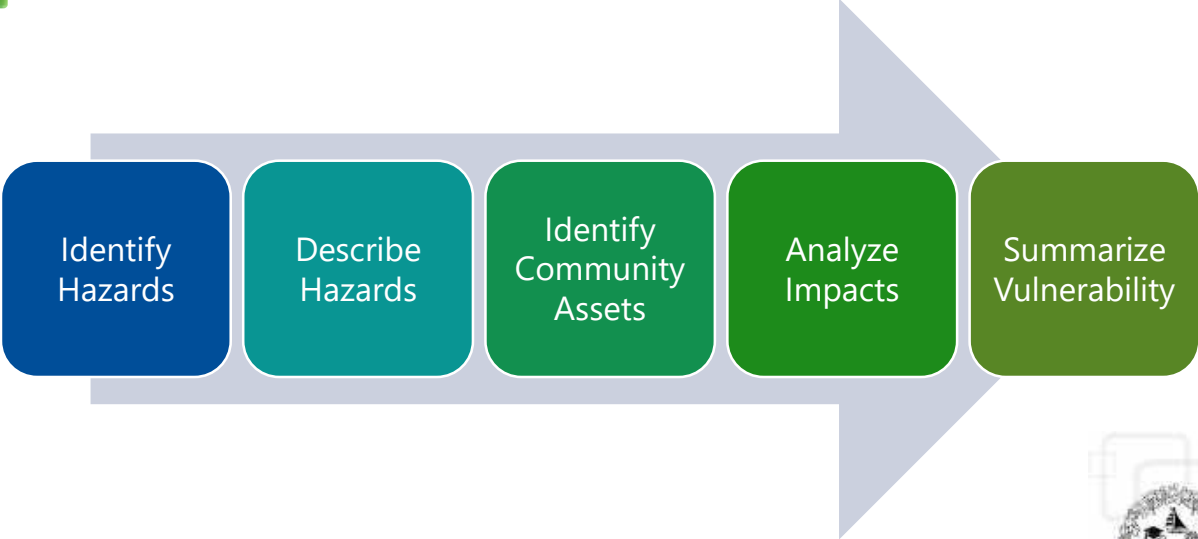

HAZARD vs RISK

| | |
|---|---|
| <p style="font-size: 0.8em;">A HAZARD is something that has the potential to harm you</p> | <p style="font-size: 0.8em;">RISK is the likelihood of a hazard causing harm</p> |
|  |  |

Yates County Hazard Mitigation Plan 2024 Update

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Conducting a Risk Assessment




```
graph LR; A[Identify Hazards] --> B[Describe Hazards]; B --> C[Identify Community Assets]; C --> D[Analyze Impacts]; D --> E[Summarize Vulnerability];
```

Identify Hazards Describe Hazards Identify Community Assets Analyze Impacts Summarize Vulnerability

Yates County Hazard Mitigation Plan 2024 Update



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Preliminary Risk Assessment Results

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Dam Failure

Preliminary Hazard Ranking

LOW

Dam failures in Yates 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

66

- 24 - Low Hazard (A)
- 2 - Intermediate Hazard (B)
- 1 - High Hazard (C)
- 39 - Negligible Hazard (D)

Impacts

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



13



Disease Outbreak

Preliminary Hazard Ranking

MEDIUM

Disease outbreaks can impact the entirety of Yates 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

24,773

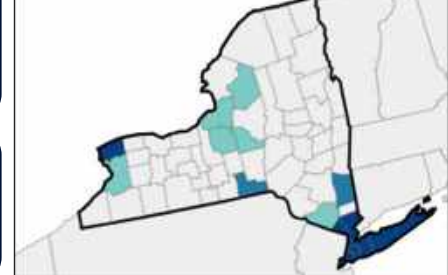
(100%)

The entire County is exposed and vulnerable

Hazard Types

- Influenza
- West Nile Virus
- Lyme Disease
- Coronavirus

West Nile Virus Cases, 2023

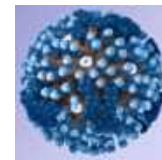


History


- Between 1999 and 2022, two human infections was reported.
- In 2020, there were 13 reported cases of Lyme disease
- For the 2023-2024 flu season, as of January 27th, there have been 126 confirmed cases of influenza.
- Since 2020, Yates County reported 4,544 positives cases of Covid-19 and 45 deaths related to Covid-19.

Impacts

- Public health threats
- Economy
- Long-term health issues
- Fatalities



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Drought

Preliminary Hazard Ranking

MEDIUM

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

Population Exposed

24,773

(100%)

The entire County is exposed and vulnerable

Agriculture

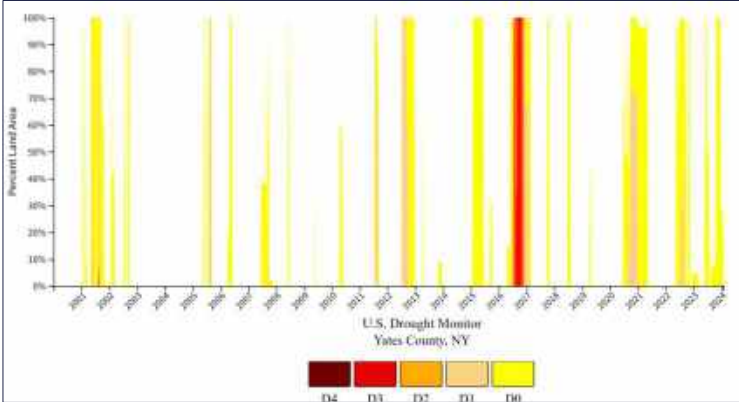
867 farms

\$114.6 million in sales

Drought History (2000 to 2023)


17 reported impacts

Historical Drought Conditions for Yates County



U.S. Drought Monitor
Yates County, NY

15



Extreme Temperature

Preliminary Hazard Ranking

MEDIUM

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

Population Exposed

24,773

(100%)

The entire County is exposed and vulnerable

USDA Declarations

3

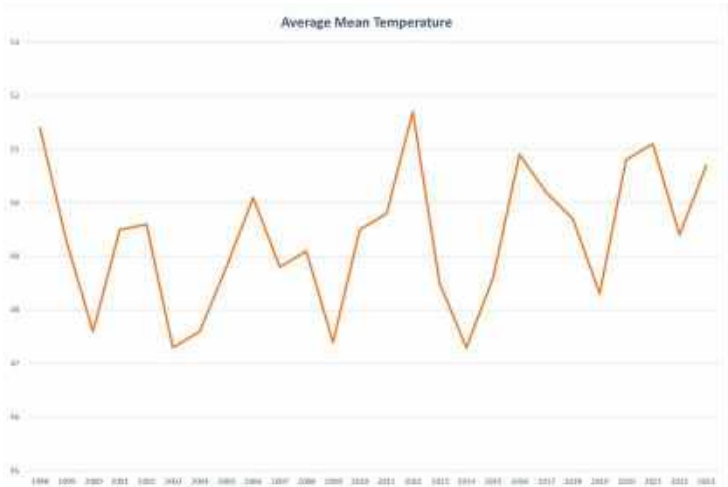
3 frost/freeze events

Agriculture


867 farms

\$114.6 million in sales

Average Mean Temperature



16



Flood

Preliminary Hazard Ranking
MEDIUM

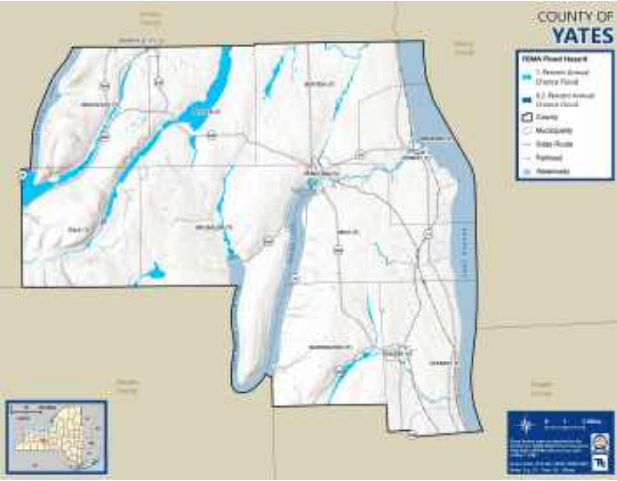
Floods are one of the costliest natural hazards in Yates County, leading to displaced residents and economic hardships, especially to communities located within floodprone areas or floodplains.

Population Exposed

522

(2.1%)

In 1% Annual Chance Flood Hazard Area



Total Land In Flood Hazard Area

8,277 acres

(3.8%)

Vulnerable Population

235

(1.8%)

In 1% Annual Chance Flood Hazard Area

Buildings

465

(2.1%)


In 1% Annual Chance Flood Hazard Area

Incidents

Since 1954, FEMA included Yates County in 8 declarations.

- DR-487 (Storms, Rain, Flooding)
- DR-725 (Severe Storms and Flooding)
- DR-1095 (Severe Storms and Flooding)
- DR-1335 (Severe Storms and Flooding)
- DR-1486 (Severe Storms, Flooding, Tornadoes)
- DR-1534 (Severe Storms and Flooding)
- DR-1993 (Severe Storms, Flooding, Tornadoes, Wind)
- DR-4180 (Severe Storms and Flooding)

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Harmful Algal Bloom

Preliminary Hazard Ranking
MEDIUM


Harmful algal blooms (HABs) in freshwater (lakes, ponds, rivers, and streams) generally consist of visible patches of cyanobacteria, also called blue-green algae. Several types of cyanobacteria can produce toxins and other harmful compounds that can pose health risks to people and animals through ingestion, skin contact, or inhalation.

Population Exposed

24,773

(100%)

Entire population exposed; however, those that are located near impacted waters or rely on lakes for drinking water are more at risk




Event History

Since 2019, there have been 560 HAB reports in Yates County. Canandaigua Lake, Half Moon Lake, Keuka Lake, and Seneca Lake have all been impacted by HABs. In 2022, Beaches on Keuka Lake reported closure for a total of 32 days as a result of HABs.

Impacts

- Drinking water contamination
- Water quality
- Health issues (skin irritation, stomach issues)
- Depleting oxygen in water
- Economic losses from fisheries and recreational areas

18



Hazardous Materials

Preliminary Hazard Ranking

MEDIUM

Hazardous material releases may happen during manufacturing, storage, transportation, or usage, both along transportation routes and at fixed-site facilities. These releases can cause harm to humans, wildlife, properties, and also lead to air, water, and soil contamination.

Population Exposed

14,553

(58.7%)

Population located within 0.5 miles of pipelines, major roadways, or railroads

Buildings Exposed


10,722

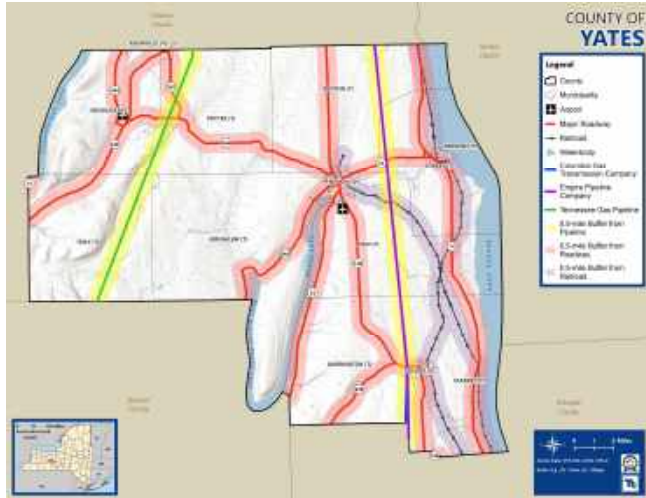
(48.5%)

Buildings located within 0.5 miles of pipelines, major roadways, or railroads


Potential Impacts

- Death
- Serious injury
- Long-lasting health effects
- Property damage
- Air and water contamination
- Closed or damaged transportation routes
- Loss of natural resources





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Landslides

Preliminary Hazard Ranking

LOW

Landslides are composed of natural rock, soil, artificial fill, or a combination and move along a downward slope. They flow rapidly, striking at avalanche speeds that can travel several miles, growing in size as they pick up trees, boulders, cars and other materials.

Population Exposed

1,490

(6%)

People living in moderate landslide susceptibility areas

Buildings Exposed


966

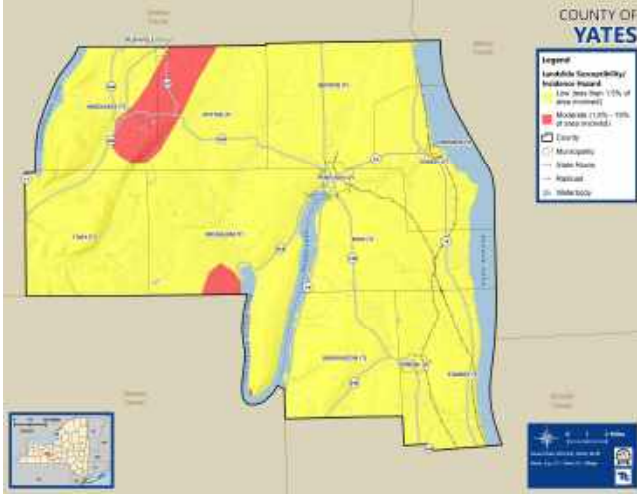
(4.4%)

Buildings located in moderate landslide susceptibility areas


Potential Impacts

- Utility disruptions and outages
- Loss of life
- Damaged infrastructure
- Loss of natural resources
- Flooding
- Block or damage transportation routes





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Severe Weather

Preliminary Hazard Ranking

MEDIUM


Severe storm events are a common occurrence in Yates County. A variety of severe storm types, such as thunderstorms, lightning, hail, tornadoes, high winds, and tropical cyclones have damaged property and infrastructure, disrupt power, downing trees, and power lines, and causing injuries and fatalities.

Population Exposed

24,773

(100%)

The entire County is vulnerable



Incidents

- Between 2018 and 2023, 49 severe weather events were recorded by NOAA NCEI.
- Since 1954, FEMA included Yates County in 11 declarations.
 - DR-338 (Tropical Storm Agnes)
 - DR-487 (Storms, Rain, Flooding)
 - DR-725 (Severe Storms and Flooding)
 - DR-1095 (Severe Storms and Flooding)
 - DR-1335 (Severe Storms and Flooding)
 - DR-1486 (Severe Storms, Flooding, Tornadoes)
 - DR-1534 (Severe Storms and Flooding)
 - DR-1993 (Severe Storms, Flooding, Tornadoes, Wind)
 - EM-3351 (Hurricane Sandy)
 - DR-4180 (Severe Storms and Flooding)
 - DR-4625 (Remnants of Tropical Storm Fred)

Buildings Exposed

22,096


(100%)

The entire County is vulnerable

Potential Impacts

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

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Severe Winter Weather

Preliminary Hazard Ranking

MEDIUM

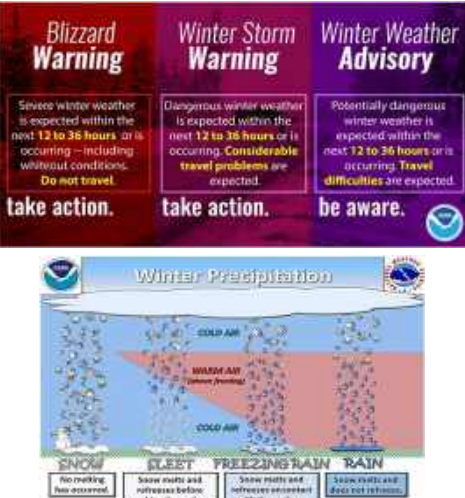
In Yates County, winter weather includes heavy snow, sleet, blizzards, and ice storms. These events occur frequently during the winter months and has the potential to be life-threatening.

Population Exposed

24,773

(100%)

The entire County is exposed and vulnerable



Incidents

- Between 2018 and 2023, 13 winter weather events were recorded by NOAA NCEI.
- Since 1954, FEMA included Yates County in three declarations.
 - DR-898 (Severe Winter Storm)
 - EM-3107 (Severe Blizzard)
 - DR-1467 (Ice Storm)

General Building Stock and Critical Facilities Exposed

22,096


(100%)

The entire County is exposed and vulnerable; however structural impacts are minimal.

Hazard Types

- Heavy Snow
- Blizzard
- Sleet
- Ice Storm

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Transportation Accidents


Preliminary Hazard Ranking

LOW

Transportation accidents include, vehicular accidents, aviation accidents, railway accidents, and hazardous materials in transit.

Incidents

Between 2018 and 2023, there have been over 3,900 vehicle crashes report to ITSMR throughout the County. No reports were found related to aviation or rail incidents or hazardous materials in transit.




Impacts

- While this is a manmade hazard, natural hazards can increase the potential of accidents to occur.
- Widespread hazard that can occur anywhere in Yates County.
- According to NYS Department of Health, Motor vehicle crash injuries are a leading cause of injury related deaths for Yates County residents.


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Preliminary Hazard Ranking Methodology

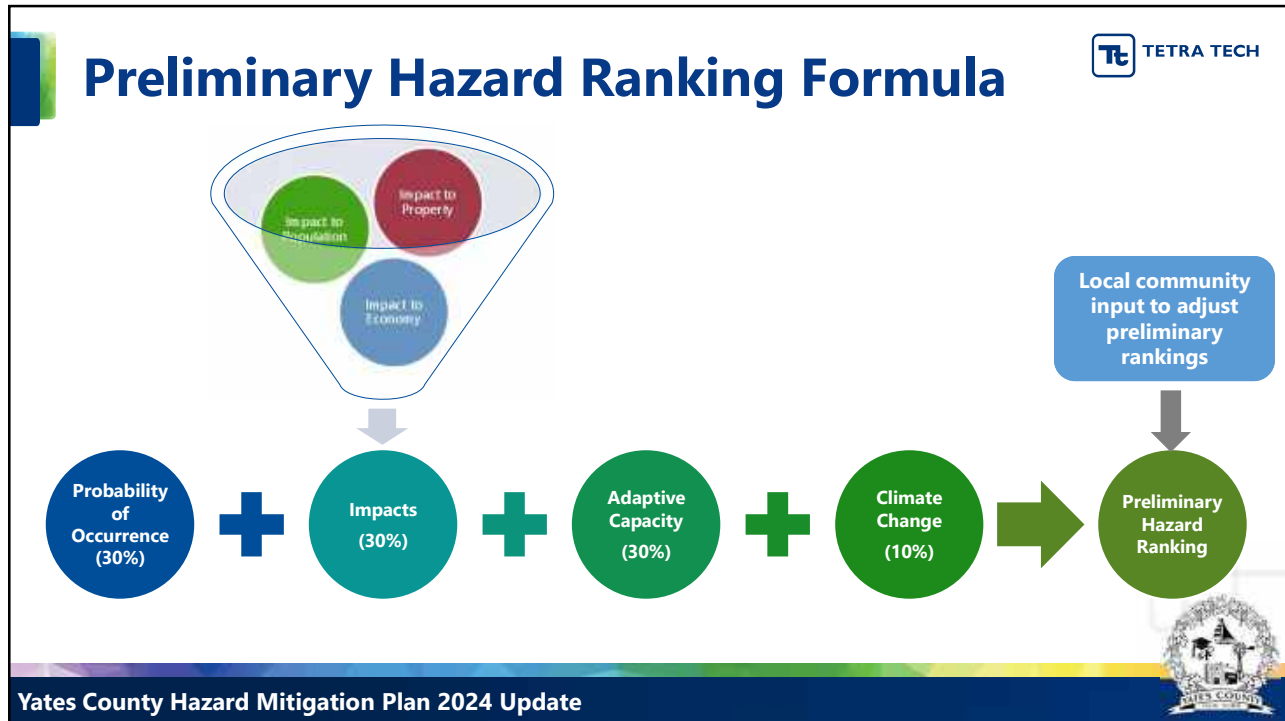


- The calculated probability of a hazard occurring based on historical data
- Impacts to people, property, and the economy* based on GIS data and analysis of exposure.
- The degree to which *climate change* will affect future occurrences based on best available data.
- The degree to which existing *capabilities*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

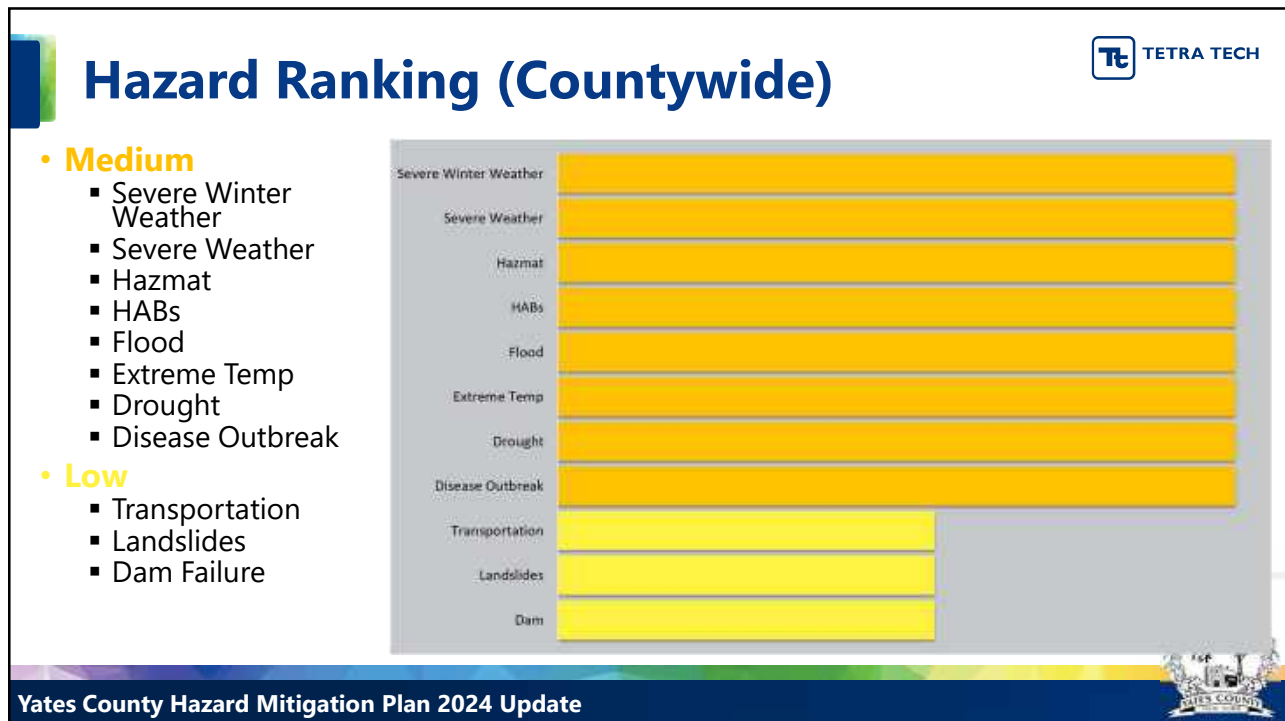
Yates County Hazard Mitigation Plan 2024 Update



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Preliminary Hazard Ranking (Municipal)




| Jurisdictions | Hazard Ranking | | | | | | | | | | |
|---------------------|----------------|------------------|---------------|---------------|---------------|---------------|---------------|------------|----------------|-----------------------|----------------|
| | Dam | Disease Outbreak | Drought | Extreme Temp | Flood | HABs | Hazmat | Landslides | Severe Weather | Severe Winter Weather | Transportation |
| Barrington (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Benton (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Dresden (V) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Dundee (V) | Low | Medium | Medium | Medium | Low | Low | Medium | Low | Medium | Medium | Low |
| Italy (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Jerusalem (T) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Middlesex (T) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Milo (T) | Low | Medium | Medium | Medium | Medium | Medium | Low | Low | Medium | Medium | Low |
| Penn Yan (V) | Low | Medium | Medium | Medium | Low | Medium | Medium | Low | Medium | Medium | Low |
| Potter (T) | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Medium | Low |
| Rushville (V) | Low | Medium | Medium | Medium | Low | Low | Low | Medium | Medium | Medium | Low |
| Starkey (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Torrey (T) | Low | Medium | Medium | Medium | Low | Medium | Low | Low | Medium | Medium | Low |
| Yates County | Low | Medium | Medium | Medium | Medium | Medium | Medium | Low | Medium | Medium | Low |

Yates County Hazard Mitigation Plan 2024 Update


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Review Preliminary Ranking



Yates County | Hazard Mitigation Plan 2024 Update
Hazard Ranking Review

Please send all electronic Word versions of this worksheet to Heather Apper (Yates Tech) by March 31st.
Email: heather.apper@yates-tech.com

Municipality: _____
Name: _____
Title: _____
Email: _____

What is a Hazard Ranking?
Hazard Ranking is used to understand your community's susceptibility to hazards and to prioritize projects and activities for mitigation.

Hazard Ranking is determined by quantitative and qualitative factors including:

- 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.
- Adaptive Capacity, which is the ability your community has to respond to the hazard based on ordinances, mitigation strategies and procedures, and resources.

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. MEMBERS: For every hazard of concern, you need at least one stakeholder review.

Table 1 - 2023 HMAP Municipal Hazard Rankings

| Hazard | 2023 Ranking | 2024 Ranking | Notes |
|-----------------------|---------------------|--------------|--------|
| | Extreme Temperature | Medium | Medium |
| Flood | Low | Low | |
| HABs | Medium | Medium | |
| Hazmat | Low | Low | |
| Landslides | Low | Low | |
| Severe Weather | Medium | Medium | |
| Severe Winter Weather | Medium | Medium | |
| Transportation | Low | Low | |

Yates County | Hazard Mitigation Plan 2024 Update
Hazard Ranking Review


| Hazard | 2023 Ranking | 2024 Ranking | Notes |
|-----------------------|--------------|--------------|-------|
| Extreme Temperature | Medium | Medium | |
| Flood | Low | Low | |
| HABs | Medium | Medium | |
| Hazmat | Low | Low | |
| Landslides | Low | Low | |
| Severe Weather | Medium | Medium | |
| Severe Winter Weather | Medium | Medium | |
| Transportation | Low | Low | |
| Utility Failure | Medium | Medium | |

What is Adaptive Capacity?
Adaptive capacity describes a jurisdiction's current ability to prevent, limit 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 non-compliance with codes, policies, non-compliance in place, no infrastructure, limited or no deployable resources, limited capabilities to respond, long recovery.
- Moderate** adaptive capacity means minimum requirements are in place; moderate capabilities, mitigation resources are identified but not implemented; moderate 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 decrease vulnerability.


Table 2 - 2023 HMAP Municipal Adaptive Capacity

| Hazard | 2023 Adaptive Capacity | 2024 Adaptive Capacity | Notes |
|-----------------------|------------------------|------------------------|-------|
| Extreme Temperature | Medium | Medium | |
| Flood | Low | Low | |
| HABs | Medium | Medium | |
| Hazmat | Low | Low | |
| Landslides | Low | Low | |
| Severe Weather | Medium | Medium | |
| Severe Winter Weather | Medium | Medium | |
| Transportation | Low | Low | |
| Utility Failure | Medium | Medium | |


Yates County Hazard Mitigation Plan 2024 Update


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Review Preliminary Rankings




| Hazard | Draft 2024 Ranking Based on RA Results | Agree with draft hazard ranking (Y/N)? If No, indicate preferred ranking. | What changes in mitigation or other conditions have resulted in the change in hazard ranking since 2018? |
|-----------------------|--|---|--|
| Dam Failure | Low | Yes | |
| Disease Outbreak | Medium | Yes | |
| Drought | Medium | Yes | |
| Extreme Temperature | Medium | Yes | |
| Flood | Medium | No - High | Stormwater flooding causes significant damage; flood should be ranked as high |
| HABs | Medium | Yes | |
| Hazmat | Medium | No - Low | No facilities or major roadways that would lead to hazmat incidents; change to low |
| Landslides | Low | Yes | |
| Severe Weather | Medium | Yes | |
| Severe Winter Weather | Medium | Yes | |
| Transportation | Low | Yes | |
| Utility Failure | Medium | Yes | |


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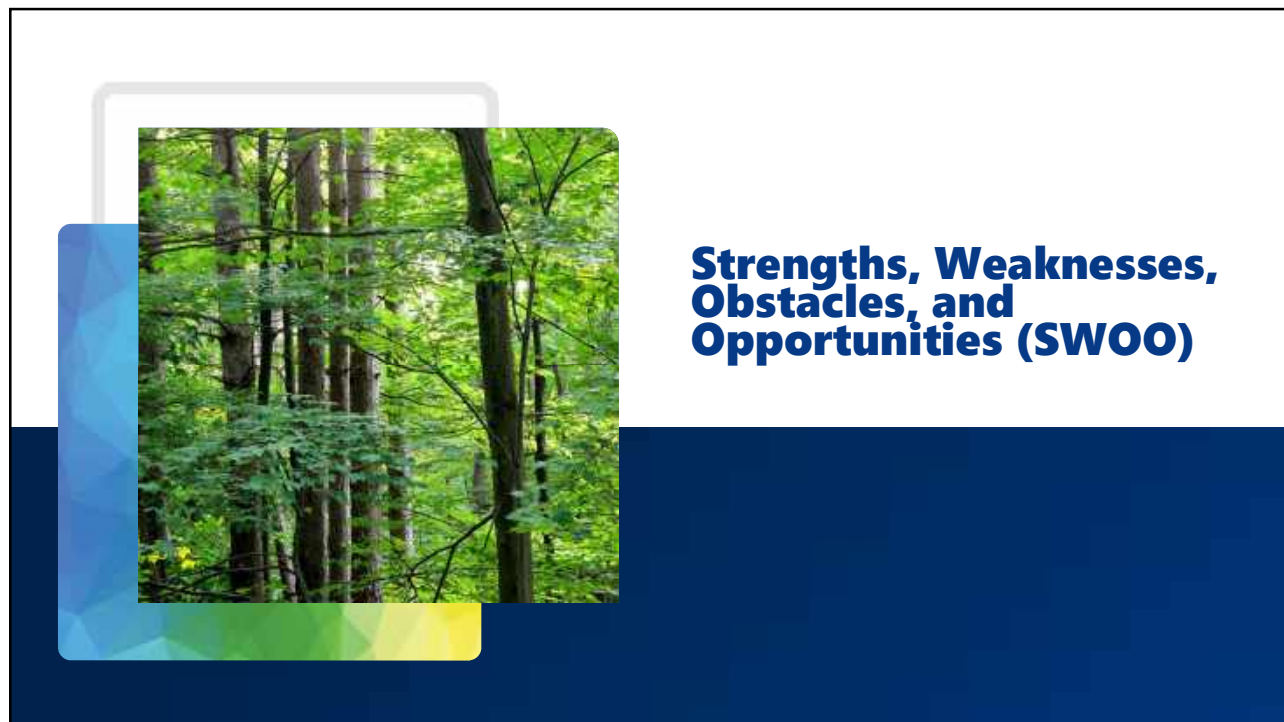
Review Preliminary Adaptive Capacity



| Hazard | Preliminary Ranking | What should we indicate for your community's adaptive capacity for each hazard? |
|-----------------------|---------------------|--|
| Dam Failure | Moderate | |
| Disease Outbreak | Moderate | |
| Drought | Moderate | Weak – many residents rely on surface water and we do not have backup water sources in the event of a severe drought |
| Extreme Temperature | Moderate | |
| Flood | Moderate | |
| HABs | Moderate | |
| Hazmat | Strong | |
| Landslides | Moderate | |
| Severe Weather | Moderate | |
| Severe Winter Weather | Moderate | Strong – the City experiences winter weather every year and we have programs and resources to decrease our vulnerability |
| Transportation | Moderate | |
| Utility Failure | Moderate | |

Yates County Hazard Mitigation Plan 2024 Update



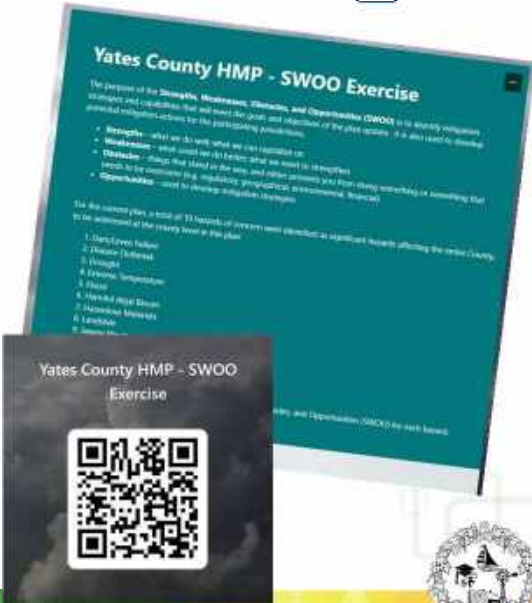
30



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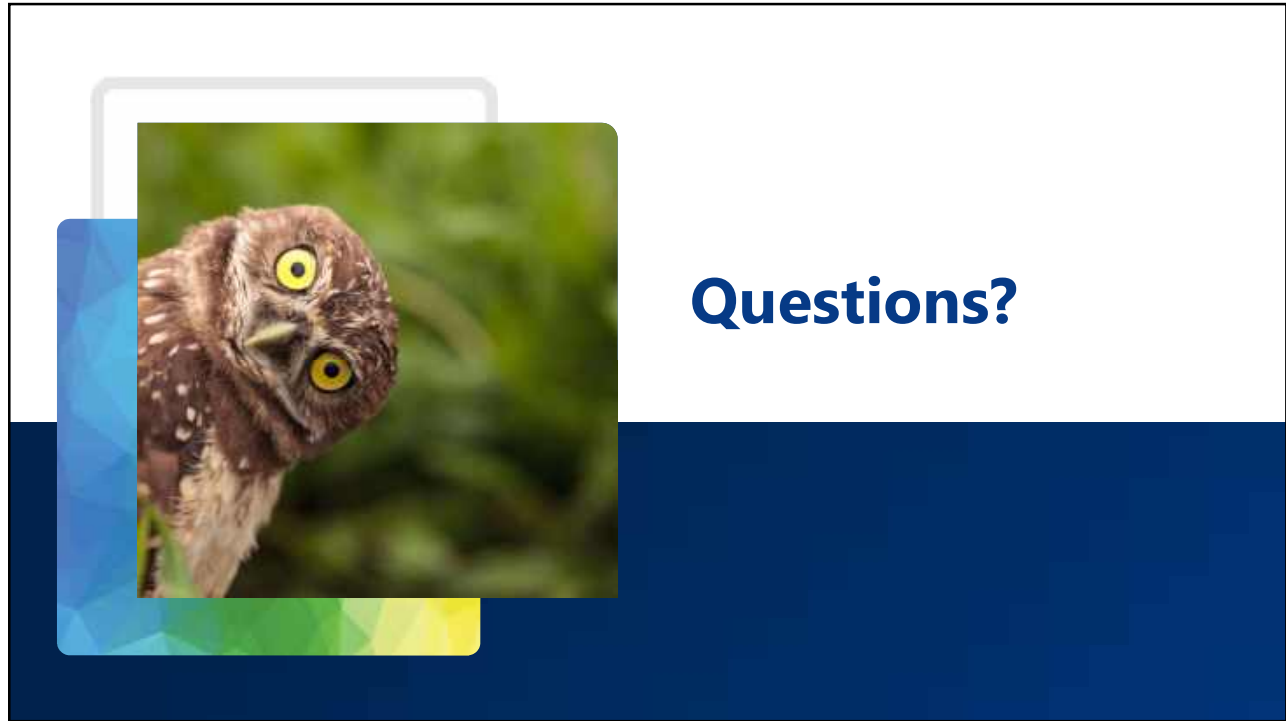
Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

- 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.

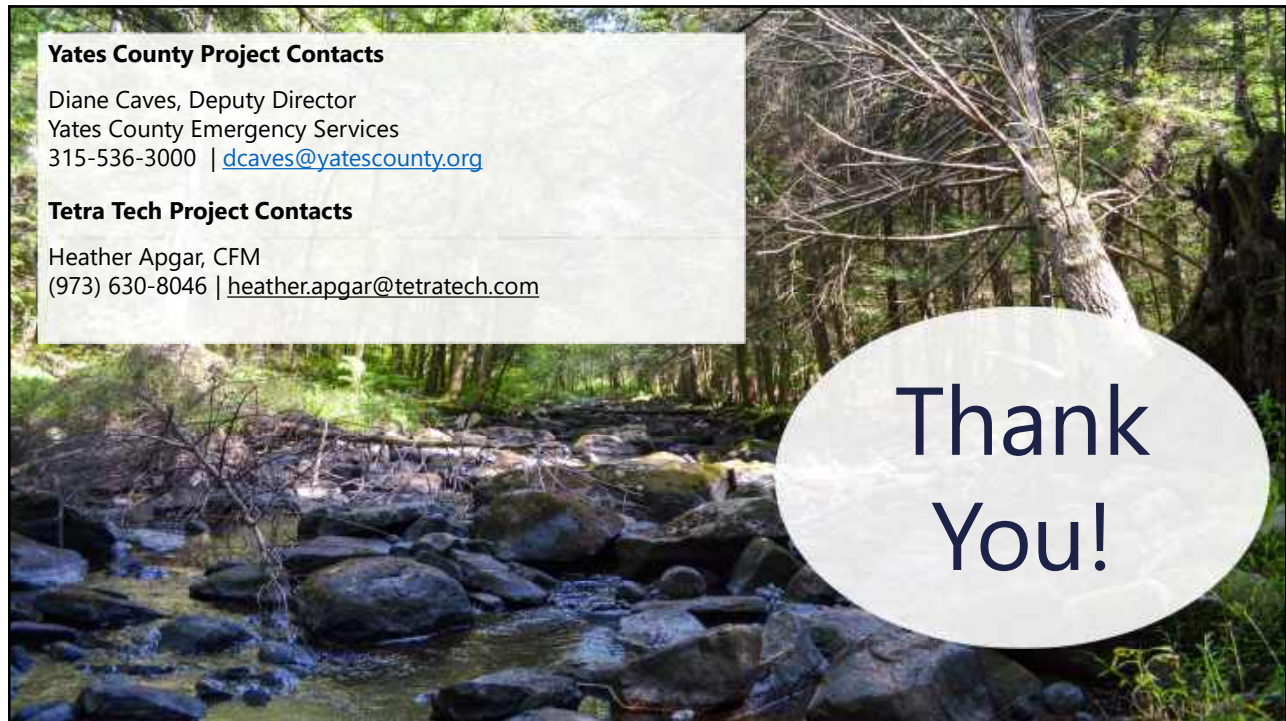



Yates County Hazard Mitigation Plan 2024 Update

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**Yates County, NJ – Hazard Mitigation Plan 2025 Update
 Planning Partnership Mitigation Strategy Workshop | Meeting Minutes**



| | |
|-----------------------------|---|
| Purpose of Meeting: | Planning Partnership Mitigation Strategy Workshop |
| Location of Meeting: | Yates County Auditorium (417 Liberty Street, Penn Yan, NY) |
| Date of Meeting: | May 30, 2024 @ 9:00 A.M. |

| | |
|--|---|
| <p>Attendees:</p> <ul style="list-style-type: none"> • Yates County <ul style="list-style-type: none"> ○ Jessica Mullins, Yates County Administrator ○ George A. Roets, Director, Yates County Community Services Department ○ Leigh Battin, Director of Finance, Yates County Department of Finance ○ Amy D. Miller, Commissioner, Yates County Department of Social Services ○ Doug Rapalee, Highway Superintendent, Yates County Highway Department ○ Tim Groth, Director of Information Technology (IT), Yates County IT ○ Diane Caves, Deputy Director, Yates County Office of Emergency Services (OES) ○ Ryan Bailey, Emergency Medical System (EMS) Coordinator, Yates County OES ○ Jeff Ayers, Yates County Planner, Yates County Planning and Development Department ○ Alyssa Palmer, Probation Director, Yates County Probation Department ○ Doug Sinclair, Director of Public Health, Yates County Public Health Department ○ Francis Ryan, Sheriff, Yates County Sheriff's Office ○ Robert Cilino, Communications Support Specialist, Yates County Sheriff's Office ○ Brandon Jensen, Undersheriff, Yates County Sheriff's Office • Barrington (T) <ul style="list-style-type: none"> ○ Steve Wheeler, Highway Superintendent • Benton (T) <ul style="list-style-type: none"> ○ None • Dresden (V) <ul style="list-style-type: none"> ○ William Hall, Mayor • Dundee (V) <ul style="list-style-type: none"> ○ Fred Cratsley, Mayor • Italy (T) <ul style="list-style-type: none"> ○ Andy Best, Highway Superintendent ○ Richard Craig, Supervisor • Jerusalem (T) <ul style="list-style-type: none"> ○ Tony Hurd, Highway Superintendent ○ James McKinley, Code Enforcement ○ Jamie L. Sisson, Supervisor | <ul style="list-style-type: none"> • Middlesex (T) <ul style="list-style-type: none"> ○ None • Milo (T) <ul style="list-style-type: none"> ○ Anthony Validzic, Codes Enforcement Officer • Penn Yan (V) <ul style="list-style-type: none"> ○ Chris Brand, Village of Penn Yan Street Department • Potter (T) <ul style="list-style-type: none"> ○ Tim Pagel, Code Enforcement Officer • Rushville (V) <ul style="list-style-type: none"> ○ Tim Pagel, Code Enforcement Officer • Starkey (T) <ul style="list-style-type: none"> ○ Ralph Warren, Highway Superintendent • Torrey (T) <ul style="list-style-type: none"> ○ Tim Chambers, Highway Superintendent ○ Grant Downs, Councilman • Cornell Cooperative Extension Yates County <ul style="list-style-type: none"> ○ Sandi Bastedo, Executive Director ○ Caroline Boutard-Hunt, Agricultural Educator • Keuka College <ul style="list-style-type: none"> ○ Jim Cunningham, Director of Campus Safety • Ontario County Planning Department <ul style="list-style-type: none"> ○ Linda Phillips, Planner • New York State Department of Health <ul style="list-style-type: none"> ○ Albert Cheverie, Preparedness Representative • New York State Department of Transportation, Region 6 <ul style="list-style-type: none"> ○ Timothy Alimosy, Regional Emergency Manager • New York State Division of Homeland Security and Emergency Services <ul style="list-style-type: none"> ○ Kevin Clapp, Supervisor, Hazard Mitigation Planning ○ Scott Feuerstein, Planning Manager • New York State Police <ul style="list-style-type: none"> ○ Brian Bernard, EM Supervisor • Tetra Tech <ul style="list-style-type: none"> ○ Tony Subbio, Project Manager, Tetra Tech ○ Emily Vassallo, Planner, Tetra Tech |
|--|---|

Agenda Summary: The purpose of the meeting was to describe the contents of 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"> • Tetra Tech provided an overview on the status of the project, including the anticipated timeline. • Tetra Tech reminded attendees to log their time on the project using the In-Kind Tracking tool. | Planning Partnership <ul style="list-style-type: none"> • Attendees will log their time in the In-Kind Tracking tool. |
| 3 | Identifying and Developing Mitigation Strategies <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 incorporates changing conditions for the life of the County’s assets. ○ Consider changing demographics, development patterns, and 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 in the plan are eligible for certain types of FEMA funding. • 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 Mitigation Strategy 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 should not be a wish list!</i> • Hazards of concern include dam failure, disease outbreak, drought, extreme temperature, flood, harmful algal blooms, hazardous materials, landslide, transportation accident, severe weather, severe winter weather, and utility failure. Attendees reported having varying | - |



| | | |
|---|---|---|
| | <p>experiences with the power company regarding clearing trees from power lines.</p> <ul style="list-style-type: none"> • Jurisdictions can leverage their capabilities to reduce risk to hazards. • Actions should align with the goals and objectives of the updated HMP. | |
| 4 | <p>Review Previous Actions</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. | <p>Planning Partnership</p> <ul style="list-style-type: none"> • Complete outstanding worksheets and submit to assigned Tetra Tech planner. |
| 5 | <p>Developing New Potential Actions</p> <ul style="list-style-type: none"> • Quality not quantity <ul style="list-style-type: none"> ○ Each action needs detailed information on the why, who, what, and when of the action. • 2020 projects <ul style="list-style-type: none"> ○ If a project is not finished and is still a priority, include it in 2025 HMP. ○ Remove general projects or make them more specific. ○ Remove ongoing capabilities like maintenance or annual outreach. • Each hazard needs at least one mitigation action unless a municipality has no risk from a particular hazard of concern. • 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). • Improvements to the 2025 HMP from the 2020 HMP include a stronger connection between the risk assessment and mitigation strategy, including more specific, achievable actions, and having at least one action for each hazard of concern. Individual actions can address more than one hazard. • Four types of Mitigation Actions: <ul style="list-style-type: none"> ○ Plans and regulations ○ Structure and Infrastructure ○ Natural systems protection ○ Education and awareness | - |
| 6 | <p>Next Steps</p> <ul style="list-style-type: none"> • Complete your worksheets, ask questions, and provide to Tetra Tech staff. | <p>Planning Partnership</p> <ul style="list-style-type: none"> • Complete your worksheets, ask questions, and |



| | | |
|---|---|---|
| | <ul style="list-style-type: none"> • Provide an update to Tetra Tech staff on any missing worksheets, when you will submit them, and how Tetra Tech can assist you. • Continue to share information about the HMP Update via social media, community groups, and networks. Let Tetra Tech know who you share information with. • Work with Tetra Tech planners to complete annexes and finalize actions. | <p>provide to Tetra Tech staff.</p> <ul style="list-style-type: none"> • Provide an update to Tetra Tech staff on any missing worksheets, when you will submit them, and how Tetra Tech can assist you. • Continue to share information about the HMP Update via social media, community groups, and networks. Let Tetra Tech know who you share information with. • Work with Tetra Tech planners to complete annexes and finalize actions. |
| 7 | <p>Questions</p> <ul style="list-style-type: none"> • Attendees had no questions at this time. | - |
| 8 | <p>Breakouts</p> <ul style="list-style-type: none"> • Attendees split into breakout groups to discuss and develop mitigation actions for inclusion in the HMP. | - |



**Yates County
Multi-Jurisdictional
Hazard Mitigation Plan 2025
Update**

Mitigation Strategy Workshop
May 30, 2024 | 9:00 am

While waiting for the meeting to start, please do not forget to sign in!

1

Today's Agenda

1. Identifying and Developing Mitigation Strategies
2. Review Previous Actions
3. Developing New Potential Actions
4. Workshop to Review Previous Actions, Identify New Actions
5. **Check in with Tetra Tech staff before leaving**

2


In-Kind Tracking

TETRA TECH

Jurisdiction: _____ Title: _____
Name: _____

| Date | Start Time | End Time | # hours | Task Description | Hourly Rate | Total # hours x rate | Comments (attach to task in survey 2024) |
|------|------------|----------|---------|------------------|-------------|----------------------|--|
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Scan the QR code for the online form to enter your time.




or
<https://www.surveymonkey.com/r/YatesHMPinKind>

Yates County Hazard Mitigation Plan Update

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Identifying and Developing Mitigation Strategies



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Purpose of Mitigation Strategy

TETRA TECH

- The **Mitigation Strategy** is the roadmap to reduce the risk of hazards identified in the HMP. The strategy is based on hazard impacts, asset vulnerability, and your 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 Jurisdictions' 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.**

Yates County Hazard Mitigation Plan Update

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Using Your Mitigation Strategy to Reduce Risk

TETRA TECH

- 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.

Yates County Hazard Mitigation Plan Update

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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!*)

Yates County Hazard Mitigation Plan Update

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Hazards of Concern

Yates County Hazard Mitigation Plan Update

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Capability Assessment

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

Yates County Hazard Mitigation Plan Update

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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?

Yates County Hazard Mitigation Plan Update

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Goals and Objectives – Review and Update

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

| Goal | Objectives | Actions |
|--|---|---|
| Minimize new development in hazard-prone areas | Reduce the number of vulnerable structures in flood hazard areas. | Amend zoning ordinance to permit only open space and uses within floodplains. |

Yates County Hazard Mitigation Plan Update


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Goals and Objectives Review and Update

| Objective Number | Objectives |
|------------------|---|
| 1.1 | Develop and/or update local regulations based on current information and best practices. |
| 1.2 | Maintain natural systems to reduce the impacts of hazards. |
| 2.1 | Acquire, retrofit, or relocate structures from flood-prone areas. |
| 2.2 | Retrofit critical infrastructure to protect against hazard impacts. |
| 2.3 | Enhance stormwater management infrastructure. |
| 2.4 | Ensure that critical facilities can continue to function during and after hazard impacts. |
| 2.5 | Encourage residents and business owners to insure their property against hazard impacts, including through flood insurance through the National Flood Insurance Program (NFIP). |
| 3.1 | Work with legislators to develop and enact legislation that reduces long-term vulnerability to hazards. |
| 3.2 | Ensure that local officials attend current training on regulatory issues and best practices. |
| 3.3 | Provide information to individuals throughout the county on the hazards they face and what property protection measures they can take. |

Yates County Hazard Mitigation Plan Update

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Review Previous Actions

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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.



Yates County Hazard Mitigation Plan Update

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Developing New Potential Actions

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Requirements for the Mitigation Strategy Update

- **Quality not quantity**
 - Each action needs detailed information on the why, who, what, and when of the action.
- **2020 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)

Yates County Hazard Mitigation Plan Update

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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.)

Yates County Hazard Mitigation Plan Update

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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

Yates County Hazard Mitigation Plan Update

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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.

Yates County Hazard Mitigation Plan Update

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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.


Yates County Hazard Mitigation Plan Update

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Questions?

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Workshop


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

Before you leave, check in with Tetra Tech staff!

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Yates County Hazard Mitigation Plan Update

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YATES COUNTY HAZARD MITIGATION PLAN UPDATE
Mitigation Action Workshop – AGENDA
MEETING DATE/TIME: May 30, 2024 – 9:00 a.m. – 12:00 p.m.
Yates County Auditorium
417 Liberty Street, Penn Yan, NY



- 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. Breakouts**

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

| Mitigation Type | Description | Examples |
|---------------------------------------|---|--|
| Local Plans and Regulations | These actions include government authorities, policies, or codes that influence the way land and buildings are developed and built. | <ul style="list-style-type: none"> ▪ 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 |
| 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 |



| 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. |



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



| DISEASE OUTBREAK | | |
|---|--|---|
| 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. |



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



DROUGHT

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| <ul style="list-style-type: none">○ Install graywater systems in homes to encourage water reuse.○ Rotate crops by growing a series of different types of crops on the same fields every season to reduce soil erosion.○ Planting “cover crops,” such as oats, wheat, and buckwheat, to prevent soil erosion.● Increase Capability:<ul style="list-style-type: none">○ Practice active water conservation techniques.○ Seek ways to operate wells in such a way to enhance their functional longevity and supply capability. | | <ul style="list-style-type: none">○ agreements with alternative suppliers.○ Develop a drought contingency plan.○ Develop criteria-"triggers" for drought related actions.○ Improve accuracy of water supply forecasts.○ Provide incentives to influence active water conservation techniques such as water user rate reductions.○ Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes.○ Use of water buffalo tankers.○ Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells.○ Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc. |
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| EXTREME TEMPERATURE | | |
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| 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 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">○ None | <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 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">○ 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">○ Require minimum temperatures in housing/landlord codes• Increase Capability:<ul style="list-style-type: none">○ Educate citizens regarding the dangers of extreme heat and cold and the steps they can take to protect themselves when extreme temperatures occur○ Establish warming and cooling centers○ Establish extreme temperature planning in emergency operation plans○ Create a database to track those individuals at high risk of death such as the elderly, homeless, etc. |



| FLOOD | | |
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| 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. |



| FLOOD | | |
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| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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.● 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. |



| FLOOD | | |
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| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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.○ 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. |



| FLOOD | | |
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| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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.○ 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). |



| FLOOD | | |
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| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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. |



| FLOOD | | |
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| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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 to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.○ 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. |



| HARMFUL ALGAL BLOOMS | | |
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| Personal Scale | Corporate Scale | Government Scale |
| <ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ Participate in quarantine, control, or eradication programs.• Reduce exposure to the hazard:<ul style="list-style-type: none">○ Comply with harmful algal bloom rules and regulations to minimize the exposure to HAB.• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Form citizen action groups to promote awareness and best practices on local levels.• Increase Capability:<ul style="list-style-type: none">○ Regularly check the NJ DEP HAB information page for updated information.○ Broaden collaborations focused on ecosystem restoration and ecosystem-based management. | <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">○ Build and maintain partnerships with government agencies, academia, and stakeholders to coordinate information sharing, and response for Invasive Species and Harmful Algal Blooms throughout the county/region. | <ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ Work with Federal/State agencies on quarantine, control, or eradication programs.• Reduce exposure to the hazard:<ul style="list-style-type: none">○ Create/disseminate planting guides which explain which types of plants and vegetation are safe to plant within the county.• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ Pass municipal ordinances to enforce best practices for HAB at the local level.• Increase Capability:<ul style="list-style-type: none">○ Build and maintain partnerships with other stakeholders to coordinate information sharing, and response for HAB throughout the county/region.○ Work with federal/state agencies to disseminate information to local municipalities regarding HAB from the NJ DEP and US EPA.○ Disseminate information to the general public to educate them on HAB.○ Work with stakeholders to identify and expand resources for prevention and early detection of HAB.○ Broaden collaborations focused on ecosystem restoration and ecosystem-based management. |



| HARMFUL ALGAL BLOOMS | | |
|-----------------------------|------------------------|--|
| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ Build ecological restoration planning into IS management projects. |



| HAZARDOUS MATERIALS | | |
|---|---|--|
| Personal Scale | Corporate Scale | Government Scale |
| <ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ Identify and eliminate sources of potential hazardous material spills.• Reduce exposure to the hazard:<ul style="list-style-type: none">○ Increase distance between hazardous material sites and development.• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ None• Increase Capability:<ul style="list-style-type: none">○ Personal planning for potential event. | <ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ Identify and eliminate sources of potential hazardous material spills.• 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">○ Increase inspection of hazardous material facilities and transport vehicles.○ Conduct training for response. | <ul style="list-style-type: none">• Manipulate the Hazard:<ul style="list-style-type: none">○ Identify and eliminate sources of potential hazardous material spills.• Reduce exposure to the hazard:<ul style="list-style-type: none">○ Increase inspection of hazardous material facilities and transport vehicles.• Reduce vulnerability to the hazard:<ul style="list-style-type: none">○ None• Increase Capability:<ul style="list-style-type: none">○ Increase inspection of hazardous material facilities and transport vehicles.○ Conduct training for response.○ Public outreach. |



| 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. |



| LANDSLIDE | | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">• 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 (e.g. encourage plants with strong root systems).○ 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. |



| 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 weather (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 weather (e.g. obtain a NOAA weather radio). ○ Develop a Continuity of Operations Plan (COOP). | <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. |



| SEVERE STORM | | |
|----------------|--|---|
| Personal Scale | Corporate Scale | Government Scale |
| | <ul style="list-style-type: none">○ 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">○ 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.○ 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. |



| SEVERE STORM | | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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 pro-active 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. |



| 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 of 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. ○ Develop a Continuity of Operations Plan (COOP) to address operations before, during and after coastal storm events. ○ Utilize weather radios at the work place to keep your employees aware of severe weather 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. |



| WINTER STORM | | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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.○ 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". |



| WINTER STORM | | |
|----------------|-----------------|---|
| Personal Scale | Corporate Scale | Government Scale |
| | | <ul style="list-style-type: none">○ 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. |



Yates County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: May 30, 2024
Time: 9:00 AM



| Name | Jurisdiction | Title | Email |
|----------------|-------------------------------|--------------------|---------------------------|
| George A. Roeb | Yates Community Center | Dir CS | groets@yatescounty.org |
| Alyssa Palmer | Yates Co. Probation | Probation Director | apalmer@yatescounty.org |
| Doug Sinclair | Yates County Public Health | Health Director | dsinclair@yatescounty.org |
| Sando Baskedo | CCE Yates | Executive Director | sb932@cornell.edu |
| Brandon Jensen | YATES COUNTY SHERIFF'S OFFICE | UNDERSHERIFF | bjensen@yatescounty.org |
| Francis Ryan | Yates County Sheriff | Sheriff | FRYAN@yatescounty.org |
| Diane Caves | Yates County OES | Deputy Director | dcaves@yatescounty.org |
| Ryan Bailey | Yates County OES | EMS Coordinator | rbailey@yatescounty.org |
| Doug Rapake | Yates County Highway | Highway Supt. | drapake@yatescounty.org |
| TIM GROTH | YATES COUNTY I.T. | DIRECTOR OF I.T. | TGROTH@YATESCOUNTY.ORG |



Yates County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: May 30, 2024
Time: 9:00 AM



| Name | Jurisdiction | Title | Email |
|----------------------|---------------------------------------|---------------------------|-------------------------------|
| Caroline Burtel Hunt | CCE of Yates County | agriculture educator | cb239@cornell.edu |
| Jim Cunningham | Keuka College | Director of Campus safety | JCUNNING@KEUKA.EDU |
| Jamie Sisson | Town of Jerusalem | Deputy | |
| Jessica Mullins | YC Admin | YC. | Jmullins1@yatescounty.org |
| Scott Feuerstein | NYS DHSES | Planning Manager | scott.feuerstein@dhses.ny.gov |
| Leigh Battin | YC Director of Finance → | | lbattin@yatescounty.org |
| Jana Marenley | Code Enforcement Town of Jerusalem | — | — |
| Robert Cilino | YCSO Comm- | | |
| William H. Hall | Village of Dresden | | |
| Maari Downs | Town of Torrey | Councilman | gjdwns1946@gmail.com |



Yates County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: May 30, 2024
Time: 9:00 AM



| Name | Jurisdiction | Title | Email |
|-----------------|--|------------------|--|
| Tim Payer | Village of Rushville Town of Patten | CEO | cebofficer@villageofrushville.com topceo@frontier.com |
| Steve Wheeler | T/O Barrington | Hwy Supt | townband@frontier.net |
| Ralph Warner | T/O Starkey | Hwy Spt. | StarkeyHwyofFrontier.net |
| Freddie Crutley | V/O DUNDÉE | MAYOR | MayorofDundee@gmail.com |
| Tony Hurd | T/O Seneca | Hwy SPT | |
| Andy Best | T/O Italy | Hwy Supt. | |
| Albert Cheverie | nysPD4 | Police Chief | albert.cheverie@health.ny.gov |
| Richard CRAIG | Town ITALY | SUPERVISOR | PECCRAIG1953@GMAIL |
| Chris Brand | Vill Penn Yan | Streets | Streets@VillageofPennYan.com |
| Anthony Valozic | Town of Milo | Code Enforcement | codeofficer@townofmilo.com |



Yates County 2025 Hazard Mitigation Plan
Topic: Planning Partnership Mitigation Strategy Workshop
Date: May 30, 2024
Time: 9:00 AM



| Name | Jurisdiction | Title | Email |
|------------------|------------------|---------------------------------|-------------------------------|
| Jeff Ayers | Yates Co | Planner | jayers@yatescounty.org |
| Jim Chambers | Yates Co | Highway Superintendent | tl.Chambers31@yphoo.com |
| Linda Phillips | Ontario Co | Planner | linda.phillips@ontario.ny.gov |
| Amy D Melle | Yan | DSS | amymelle@dfa.state.ny.us |
| Jamie L Sisson | Jerusalem | Supervisor | Supervisor@jerusalem-ny.gov |
| BRIAN BERNARD | Ny State Police | EM Supervisor | brian.bernard@troopers.ny.gov |
| TIMOTHY ALIMASSY | NYS DOT REGION 6 | REGIONAL EMERGENCY MANAGER | Timothy.Alimassy@dot.ny.gov |
| Kevin Ciapp | IVYS DISTRICT | Supervisor - Hazard Planning | KEVIN.CIAPP@hives.ny.gov |
| Tony Subbio / PM | Tetra Tech | PM | tony.subbio@tetratech.com |
| Emily Vassallo | Tetra Tech | Planner | emly.vassallo@tetratech.com |



YATES COUNTY HAZARD MITIGATION PLAN UPDATE
Steering Committee Draft Plan Review Meeting – AGENDA
MEETING DATE/TIME: October 9, 2024 11:00 A.M. – 12:00 P.M. EST.



Virtual Meeting

Dial-In Phone Number: +1 213-357-2812; Conference ID: 173 036 046#

Join by Meeting: <https://msteams.link/1MGZ>

- 1. Welcome and Introduction**
- 2. In Kind Tracking**
- 3. Public and Stakeholder Engagement**
- 4. HMP Draft Review**
 - **What's New?**
 - **2025 Framework**
 - **Review Process**
- 5. Next Steps**
- 6. Questions/Wrap Up**

Yates County Project Contact

Diane Caves, Deputy Director
Yates County Office of Emergency Services
(315) 536-3000 | dcaves@yatescounty.org

Tetra Tech Project Contact

Jessica Stokes, MSEM, NJCEM
6 Century Drive, Parsippany, NJ 07054
(973) 630-8017 | jessica.stokes@tetrattech.com

**Yates County, NJ – Hazard Mitigation Plan 2025 Update
Steering Committee Draft Plan Review Meeting | Meeting Minutes**



| Purpose of Meeting: | Steering Committee Draft Plan Review Meeting | |
|-----------------------------|--|---|
| Location of Meeting: | Teleconference | |
| Date of Meeting: | October 9, 2024 @ 11:00 A.M. | |
| Attendees: | <ul style="list-style-type: none"> • Yates County Office of Emergency Services <ul style="list-style-type: none"> ○ Diane DiFabio, Deputy Director ○ Brian Winslow, Director ○ Sheriff Frank Ryan, Yates County ○ Jessica Mullins, County Admin ○ Amy Miller, Yates DSS ○ Undersheriff Brandon Jensen • Yates County Planning Department <ul style="list-style-type: none"> ○ Jeff Ayers, County Planner • Yates County Soil and Water Conservation District <ul style="list-style-type: none"> ○ Colby Peterson, Director | <ul style="list-style-type: none"> • Yates County Social Services Department <ul style="list-style-type: none"> ○ Amy Miller, Commissioner • NYS DHSES <ul style="list-style-type: none"> ○ Kevin Clapp, Hazard Mitigation • Keuka College <ul style="list-style-type: none"> ○ Jim Cunningham, Keuka College Campus Safety • 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 Yates 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 ▪ Socially Vulnerable Populations | Steering Committee <ul style="list-style-type: none"> • Continue public outreach |
| 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"> <ul style="list-style-type: none"> <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 17 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 18 Hazard Ranking <ul style="list-style-type: none"> ▪ Provides information on the methodology used to determine the preliminary hazard rankings ○ Chapter 19 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 20 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 21 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 15 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 | |
|--|---|--|

**Yates County, NJ – Hazard Mitigation Plan 2025 Update
Steering Committee Draft Plan Review Meeting | Meeting Minutes**



| | | |
|---|---|---|
| | <p>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.</p> <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 ○ Appendix L: Dam Supplement | |
| 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 Yates County HMP website for a 30-day review period (starting today, October 9!) <ul style="list-style-type: none"> ○ https://www.yatescountynyhmp.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 begin their review after the public review period ● Public feedback to be incorporated as appropriate prior to submittal to NYSDHSES/FEMA for their review <ul style="list-style-type: none"> ○ 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! <ul style="list-style-type: none"> ○ Planning Partnership/Public Draft Plan Review Meeting is tonight at 7:00PM (https://msteams.link/FNGX). ● Public Review Period (30 days) – October 9, 2024 through November 9, 2024 ● Submit Draft Plan for NYSDHSES Review by mid-November ● Submit Draft Plan for FEMA Review by end of December ● FEMA approves plan (early February 2025); begin adoption | - |
| 8 | <p>Questions/Discussion</p> <ul style="list-style-type: none"> ● None Received | - |



Yates County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

Steering Committee Draft Plan Review
October 9, 2024 | 11:00 am

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

Today's Agenda

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

In-Kind Tracking

Jurisdiction: _____

Name: _____ Title: _____

| Date | Start Time | End Time | # hours | Task Description | Hourly Rate | Total # hours x rate | Comments describe task in more detail |
|------|------------|----------|---------|------------------|-------------|----------------------|---------------------------------------|
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Scan the QR code for the online form to enter your time.



-or-

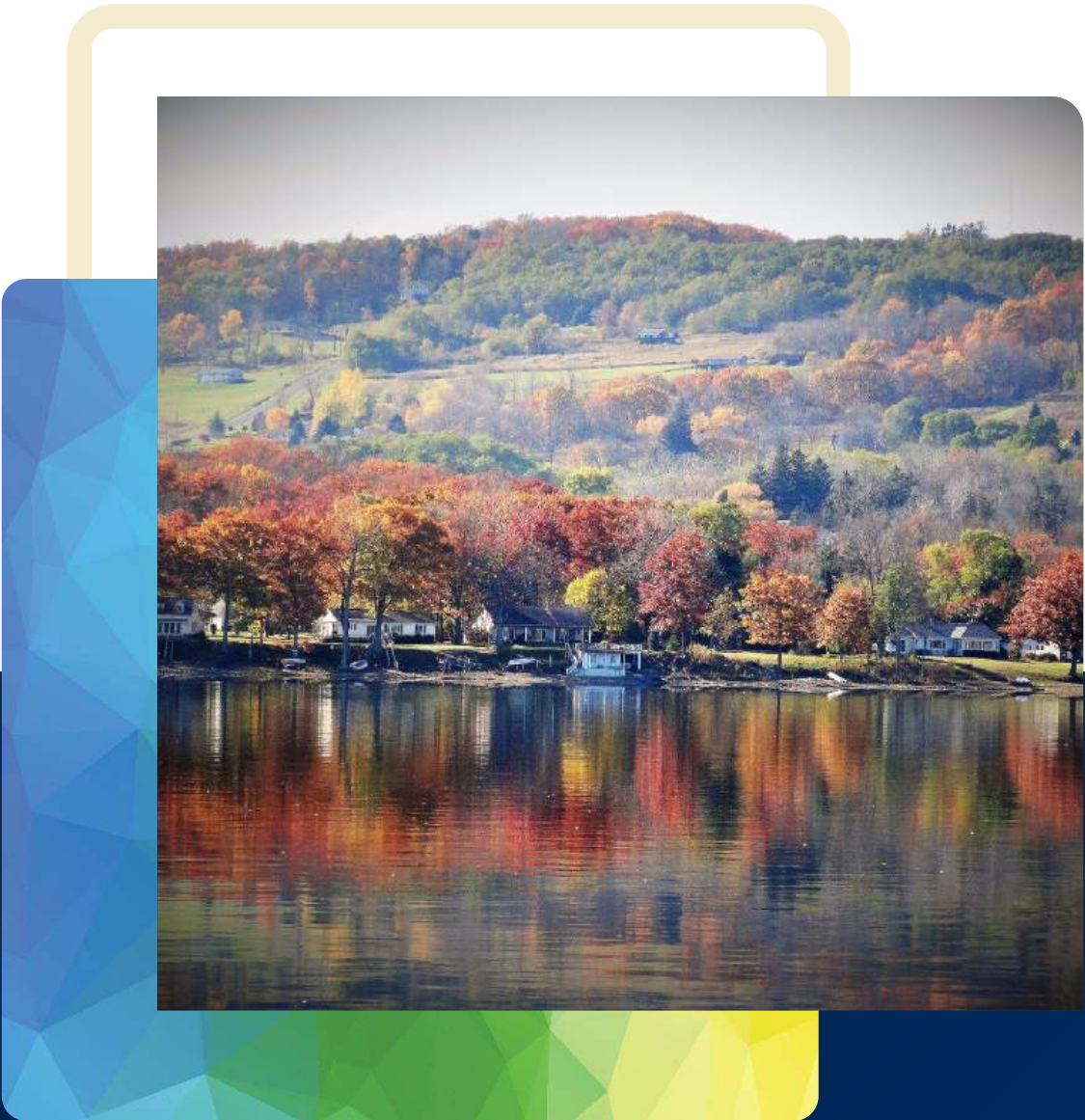
<https://www.surveymonkey.com/r/YatesHMPIInKind>



Public Outreach and Engagement

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

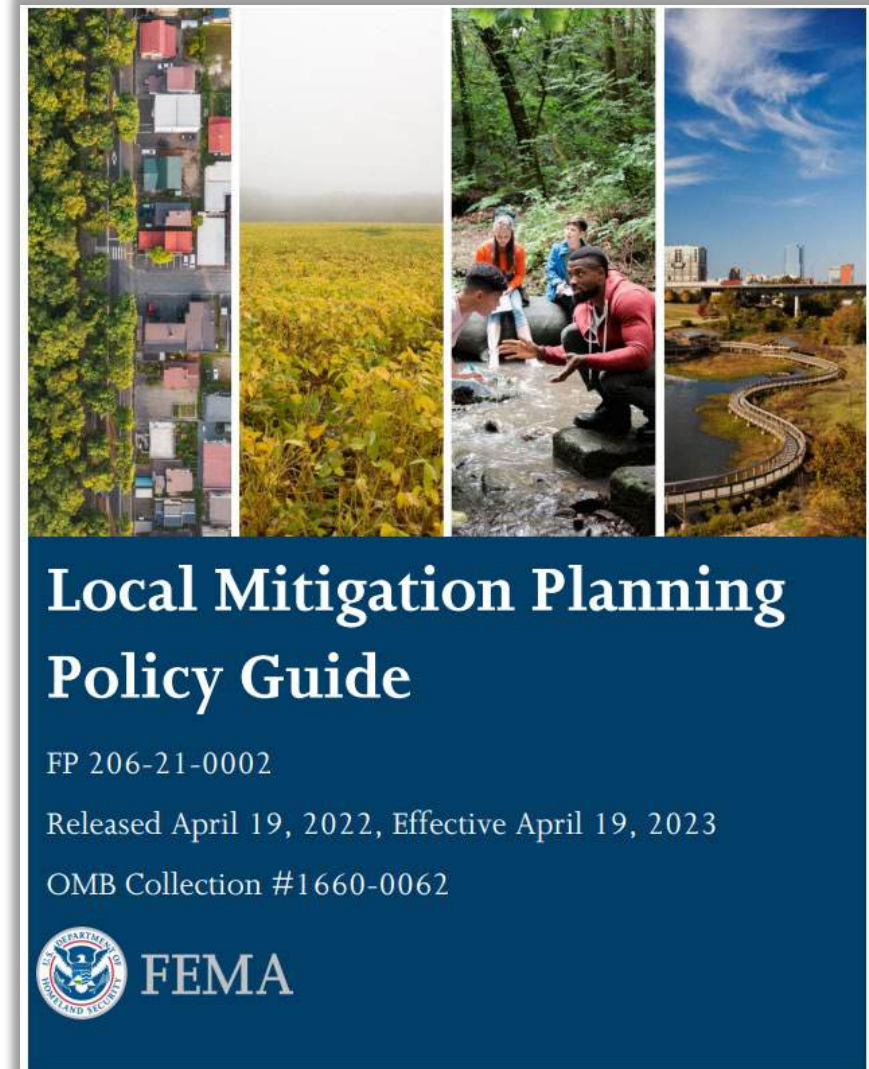




HMP Draft Review

What's New in the 2025 Update?

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



What's New in the 2025 Update?

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



What's New in the 2025 Update?

- **Hazards of Concern –**

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



What's New in the 2025 Update?

- **Jurisdictional Annexes**

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



2025 HMP Framework

Volume I

- Executive Summary
- Chapter 1. Introduction
- Chapter 2. Planning Process
- Chapter 3. County Profile
- Chapter 4. Risk Assessment Methodology
- Chapter 5. Hazards of Concern ID
- Chapters 6-17. Hazard Profiles
 - Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Harmful Algal Blooms, Hazardous Materials, Landslide, Severe Storm, Transportation Accidents, Utility Failure, Winter Storm
- Chapter 18. Hazard Ranking
- Chapter 19. Capability Assessment
- Chapter 20. Mitigation Strategy
- Chapter 21. Plan Maintenance



2025 HMP Framework

Volume II

- Chapter 8. Planning Partnership
- Chapter 9-15. Jurisdictional Annexes

Appendices

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

Volume I

Executive Summary

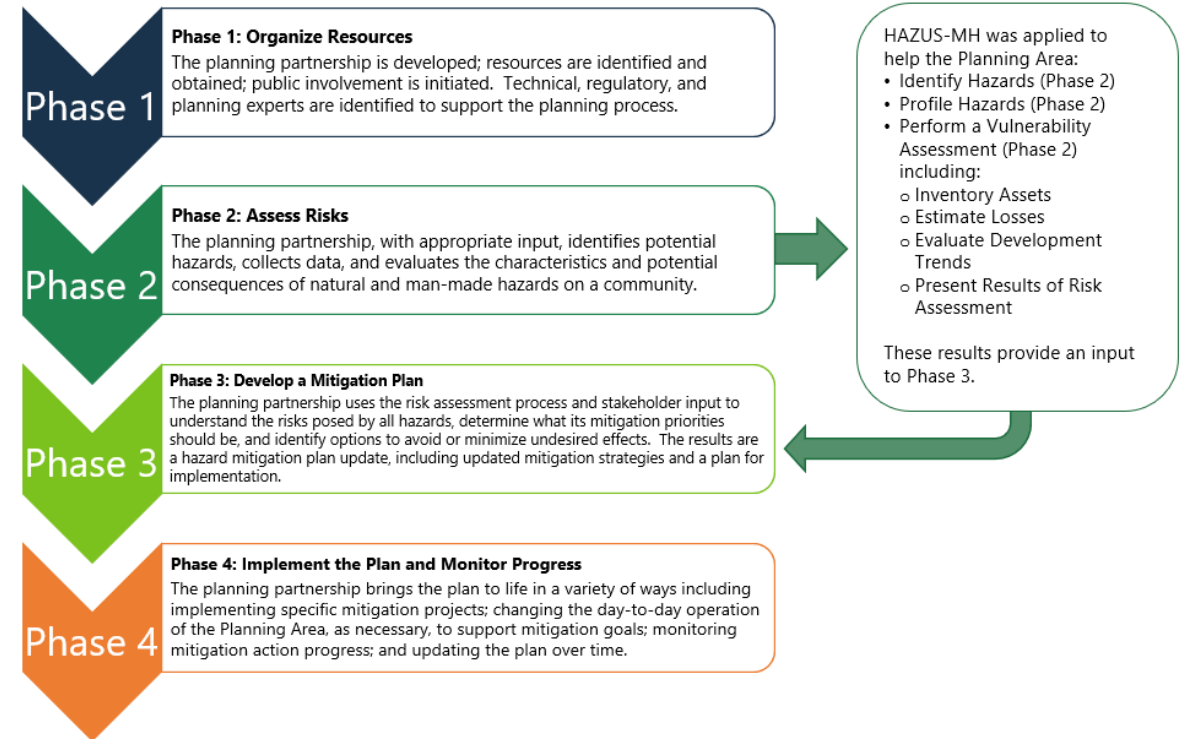
- Provides an overview of how the plan is laid out by describing the various chapters within the plan
 - Light summaries of key components of the HMP
 - Hazard Mitigation Overview
 - Planning Process
 - Involvement by Stakeholders and the Public
 - Risk Assessment for Local Hazards of Concern
 - Capability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



Volume I

1. Introduction

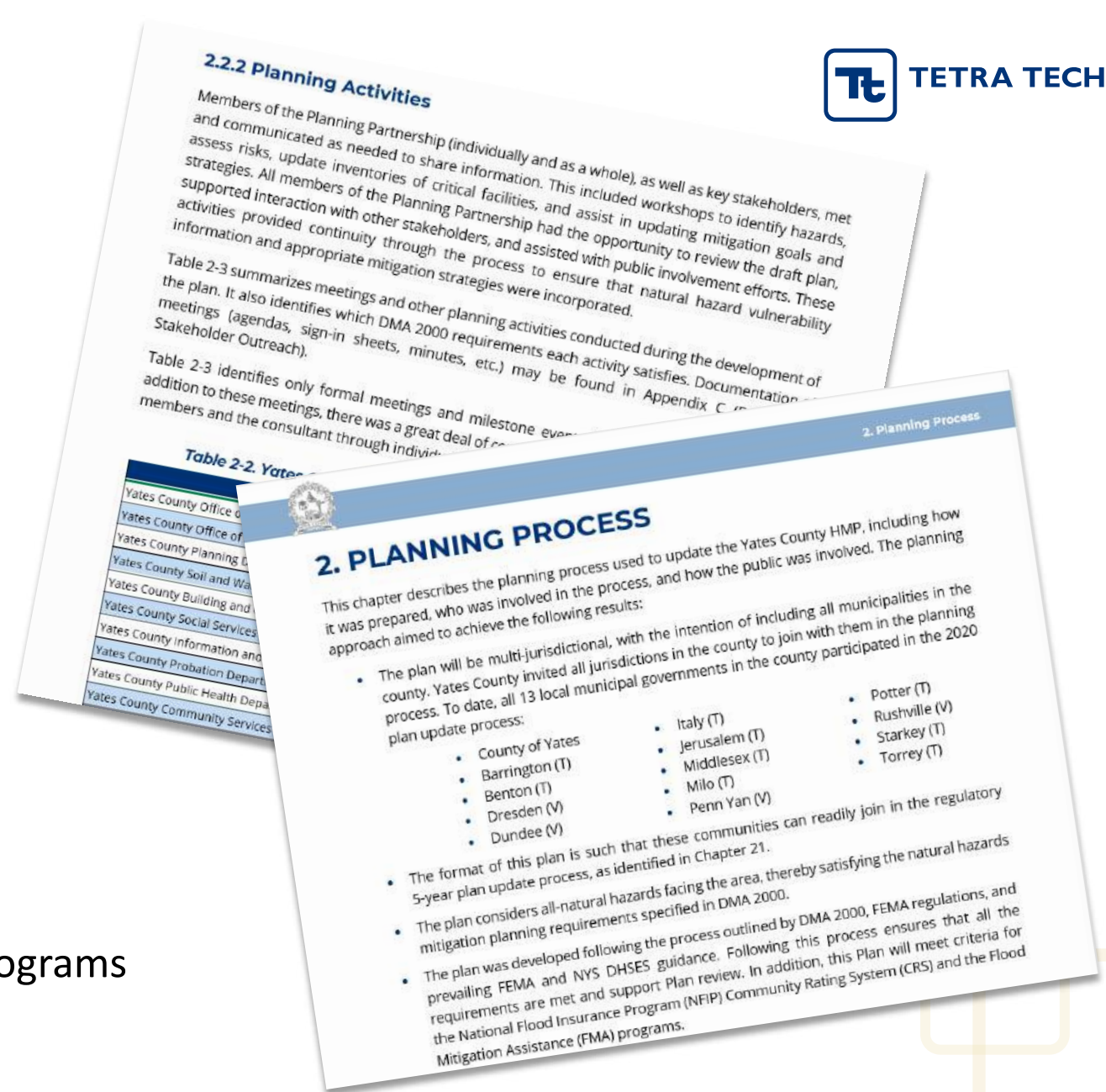
- Plan Purpose
- Background of the plan
- Plan Organization
- Planning Differences – 2020 HMP vs. 2025 HMP



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



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



4. Risk Assessment Methodology

- Describes the various procedures and tools used to complete the risk assessment
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 - Identifying and profiling each hazard of concern
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 - 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



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- 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

19. Capability Assessment

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



Volume I

20. Mitigation Strategy

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

| Goals | |
|---------|--|
| Goal 1: | Reduce the likelihood and impacts of hazards on life, property, and the environment. |
| Goal 2: | Protect life, property, critical infrastructure <i>and community lifelines</i> , the environment, and the economy from hazard impacts. |
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Volume I

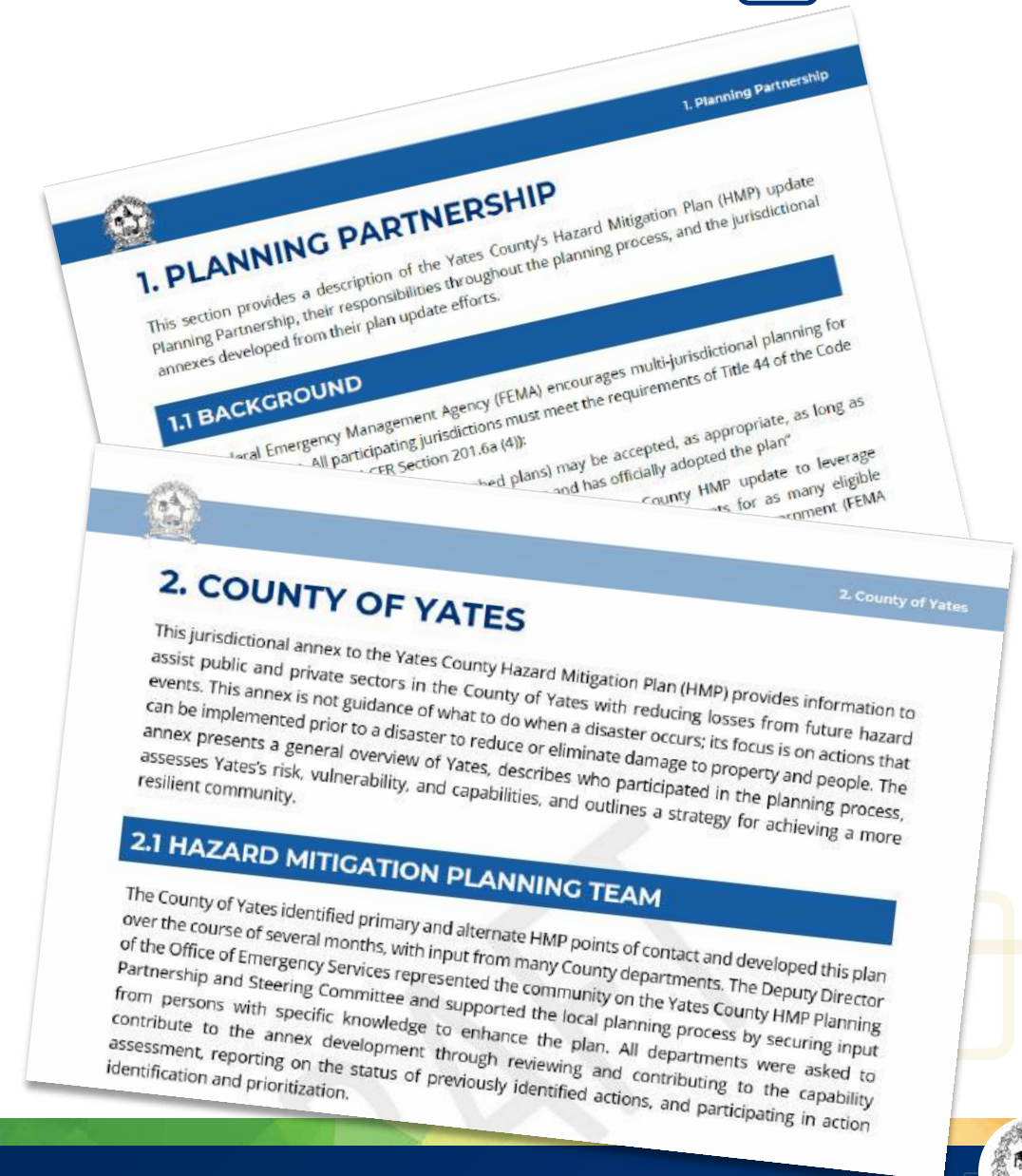
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- Ongoing Planning Partnership – meet annually to discuss HMP
- Monitoring
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- Integrating the HMP with existing and future programs
- Continued public involvement



Volume II

- **Chapter 1 – Planning Partnership**
 - Participating jurisdictions
 - Introduction to jurisdictional annexes
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 - Points of Contact and Who Participated
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Next Steps

- Draft Plan Review Meeting – TODAY!
 - Planning Partnership/Public Draft Plan Review Meeting is tonight at 7:00PM (<https://msteams.link/FNGX>).
- Public Review Period (30 days) – October 9 through November 9
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**Thank
You!**



YATES COUNTY HAZARD MITIGATION PLAN UPDATE
Planning Partnership Draft Plan Review Meeting – AGENDA
MEETING DATE/TIME: October 9, 2024 7:00 P.M. – 8:00 P.M. EST.



Virtual Meeting

Dial-In Phone Number: +1 213-357-2812; Conference ID: 509 450 455#

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

- 1. Welcome and Introduction**
- 2. In Kind Tracking**
- 3. Public and Stakeholder Engagement**
- 4. HMP Draft Review**
 - **What's New?**
 - **2025 Framework**
 - **Review Process**
- 5. Next Steps**
- 6. Questions/Wrap Up**

Yates County Project Contacts

Diane Caves, Deputy Director
Yates County Office of Emergency Services
(315) 536-3000 | dcaves@yatescounty.org

Tetra Tech Project Contacts

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6 Century Drive, Parsippany, NJ 07054
(973) 630-8017 | jessica.stokes@tetrattech.com

**Yates County, NJ – Hazard Mitigation Plan 2025 Update
 Planning Partnership Draft Plan Review Meeting | Meeting Minutes**



| | | |
|-----------------------------|--|--|
| Purpose of Meeting: | Planning Partnership Draft Plan Review Meeting | |
| Location of Meeting: | Teleconference | |
| Date of Meeting: | October 9, 2024 @ 7.00 pm | |
| Attendees: | <ul style="list-style-type: none"> • Yates County Office of Emergency Services <ul style="list-style-type: none"> ○ Ryan Bailey, EMS Coordinator ○ Diane Caves, Deputy Director • Yates County Public Health Department <ul style="list-style-type: none"> ○ Douglas Sinclair, Director • Town of Jerusalem <ul style="list-style-type: none"> ○ Tony Hurd, Highway Superintendent • Town of Potter <ul style="list-style-type: none"> ○ Tim Pagel, Code Enforcement | <ul style="list-style-type: none"> • Town of Starkey <ul style="list-style-type: none"> ○ Geroge E. Lawson, Supervisor • Village of Rushville <ul style="list-style-type: none"> ○ Tim Pagel, Code Enforcement • NYS DHSES <ul style="list-style-type: none"> ○ Michael Tarasoff, Representative • 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 Planning Partnership and the Public to comment on the draft 2025 Yates County HMP framework, 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 ▪ Socially Vulnerable Populations | Planning Partnership <ul style="list-style-type: none"> • Continue public outreach |
| 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 | - |



| | | |
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| | <ul style="list-style-type: none"> <ul style="list-style-type: none"> <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 17 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 18 Hazard Ranking <ul style="list-style-type: none"> ▪ Provides information on the methodology used to determine the preliminary hazard rankings ○ Chapter 19 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 20 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 21 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 15 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 | |
|--|---|--|

**Yates County, NJ – Hazard Mitigation Plan 2025 Update
 Planning Partnership Draft Plan Review Meeting | Meeting Minutes**



| | | |
|----------|---|---|
| | <p>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.</p> <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 ○ Appendix L: Dam Supplement | |
| 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 Yates County HMP website for a 30-day review period (starting today, October 9!) <ul style="list-style-type: none"> ○ https://www.yatescountynyhmp.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 begin their review after the public review period ● Public feedback to be incorporated as appropriate prior to submittal to NYSDHSES/FEMA for their review <ul style="list-style-type: none"> ○ If needed, we will hold a brief meeting to discuss public comments and how to incorporate – date TBD | - |
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| 8 | <p>Questions/Discussion</p> <ul style="list-style-type: none"> ● None Received | - |



Yates County Multi-Jurisdictional Hazard Mitigation Plan 2025 Update

Planning Partnership Draft Plan Review
October 9, 2024 | 7:00 PM

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

Today's Agenda

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

In-Kind Tracking

Jurisdiction: _____

Name: _____ Title: _____

| Date | Start Time | End Time | # hours | Task Description | Hourly Rate | Total # hours x rate | Comments describe task in more detail |
|------|------------|----------|---------|------------------|-------------|----------------------|---------------------------------------|
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Scan the QR code for the online form to enter your time.



-or-

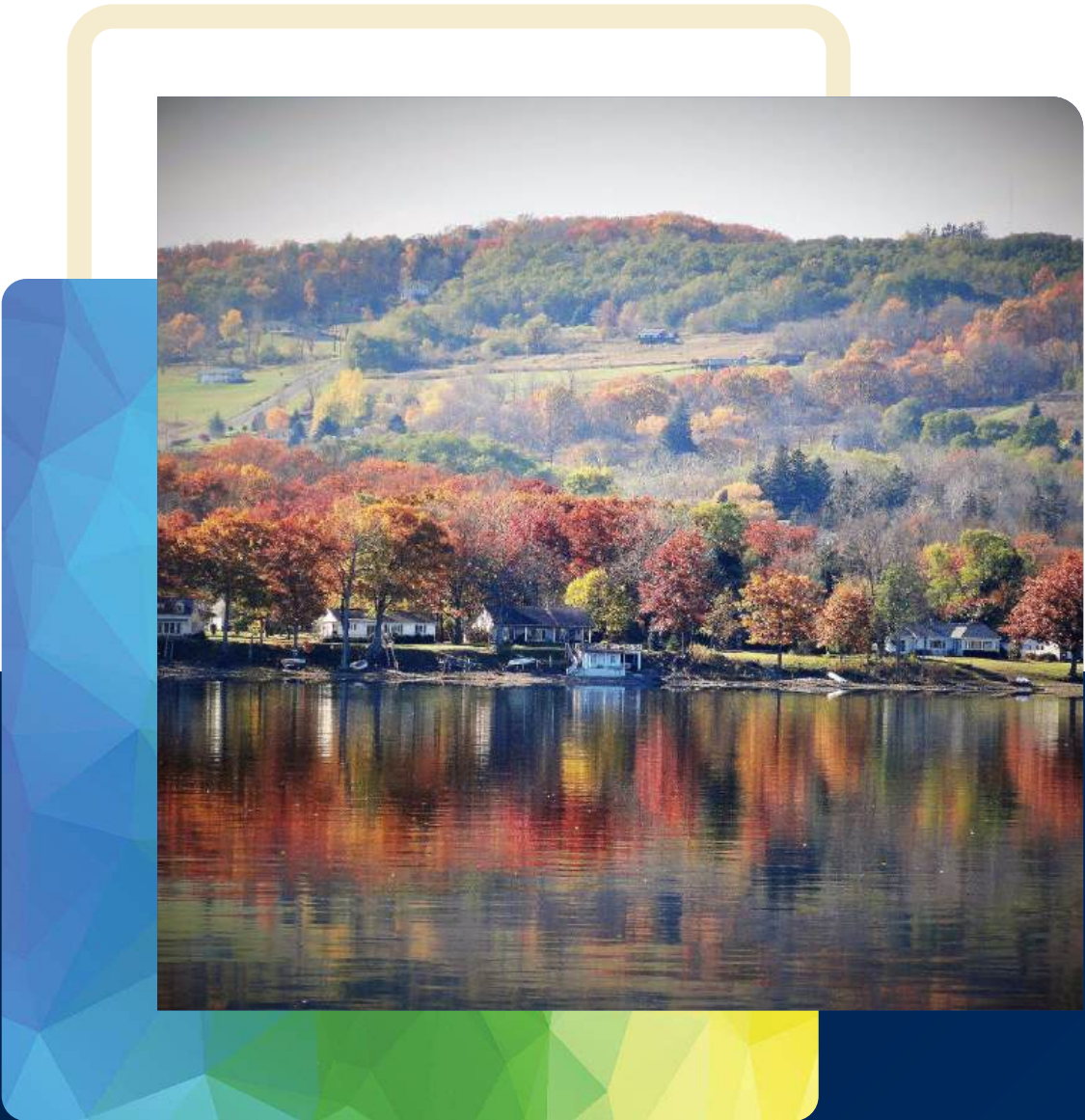
<https://www.surveymonkey.com/r/YatesHMPIInKind>



Public Outreach and Engagement

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

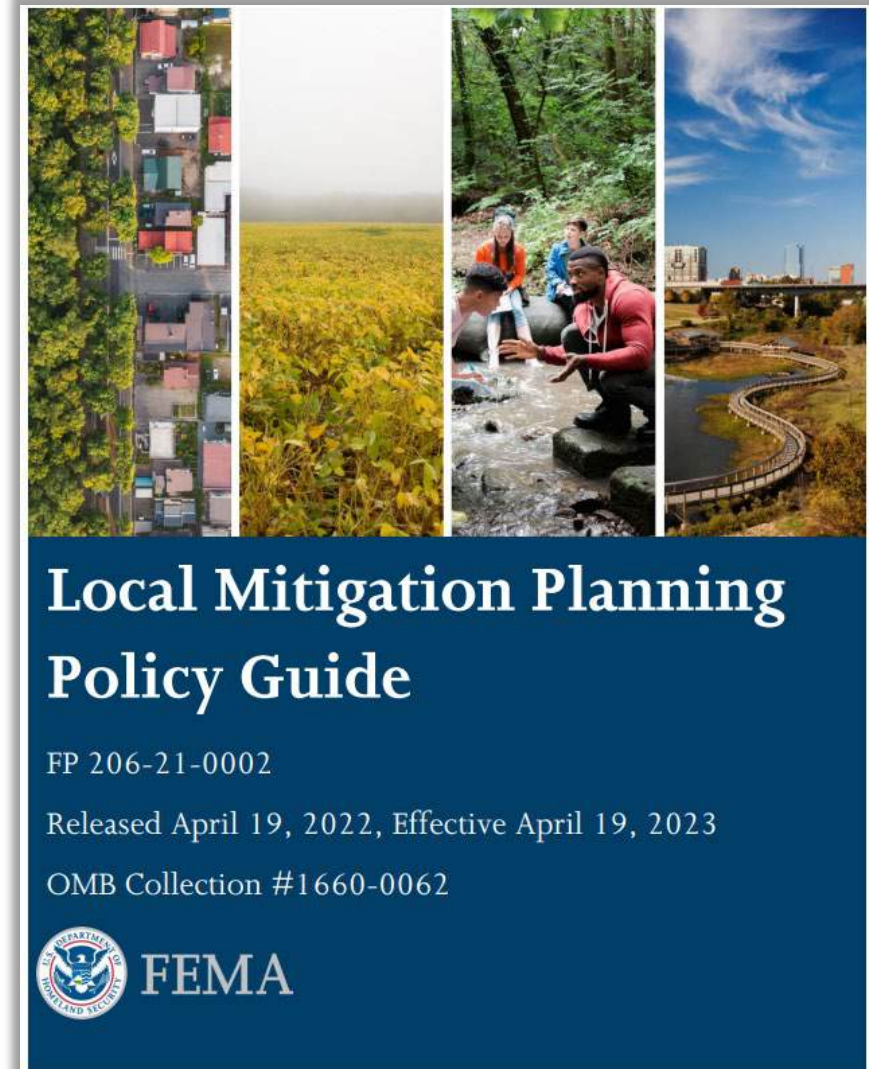




HMP Draft Review

What's New in the 2025 Update?

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



What's New in the 2025 Update?

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



What's New in the 2025 Update?

- **Hazards of Concern –**

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



What's New in the 2025 Update?

- **Jurisdictional Annexes**

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



2025 HMP Framework

Volume I

- Executive Summary
- Chapter 1. Introduction
- Chapter 2. Planning Process
- Chapter 3. County Profile
- Chapter 4. Risk Assessment Methodology
- Chapter 5. Hazards of Concern ID
- Chapters 6-17. Hazard Profiles
 - Dam Failure, Disease Outbreak, Drought, Extreme Temperature, Flood, Harmful Algal Blooms, Hazardous Materials, Landslide, Severe Storm, Transportation Accidents, Utility Failure, Winter Storm
- Chapter 18. Hazard Ranking
- Chapter 19. Capability Assessment
- Chapter 20. Mitigation Strategy
- Chapter 21. Plan Maintenance



2025 HMP Framework

Volume II

- Chapter 8. Planning Partnership
- Chapter 9-15. Jurisdictional Annexes

Appendices

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Volume I

Executive Summary

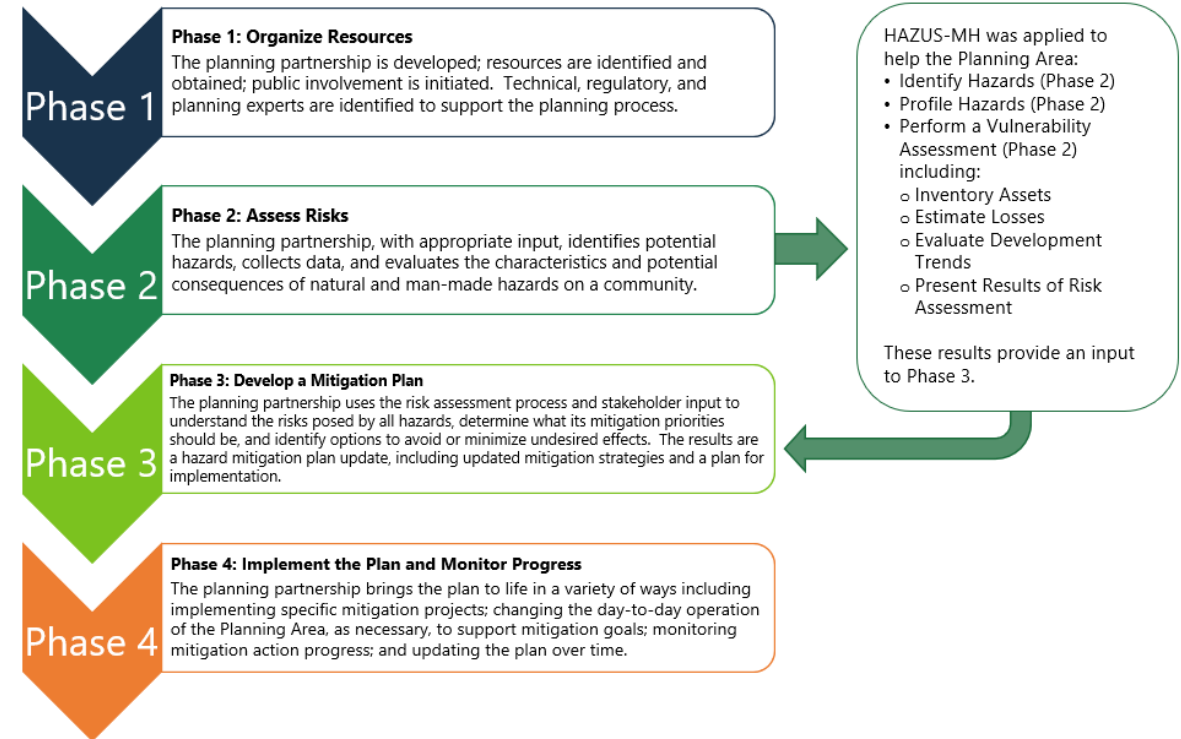
- Provides an overview of how the plan is laid out by describing the various chapters within the plan
 - Light summaries of key components of the HMP
 - Hazard Mitigation Overview
 - Planning Process
 - Involvement by Stakeholders and the Public
 - Risk Assessment for Local Hazards of Concern
 - Capability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



Volume I

1. Introduction

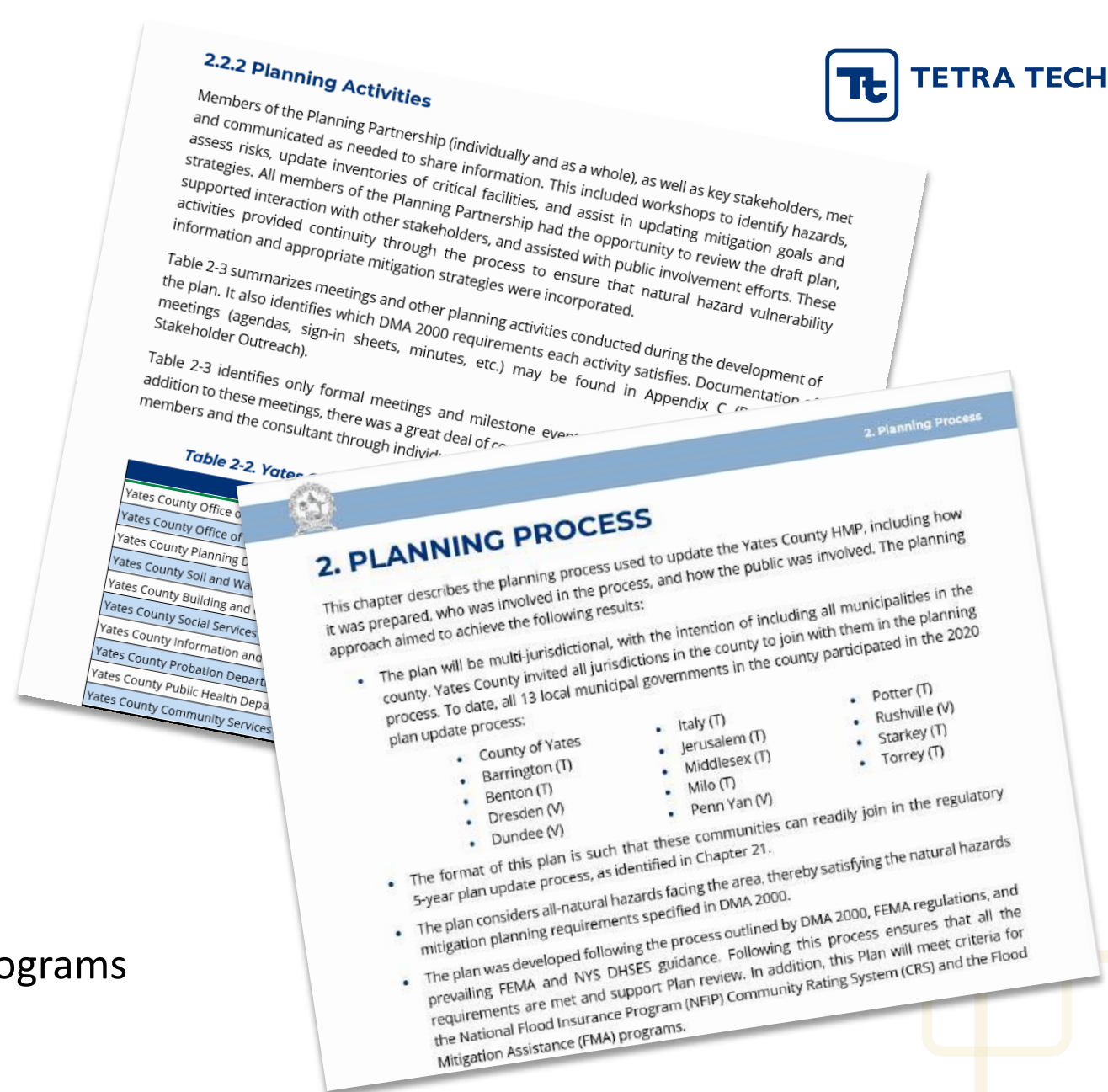
- Plan Purpose
- Background of the plan
- Plan Organization
- Planning Differences – 2020 HMP vs. 2025 HMP



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



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



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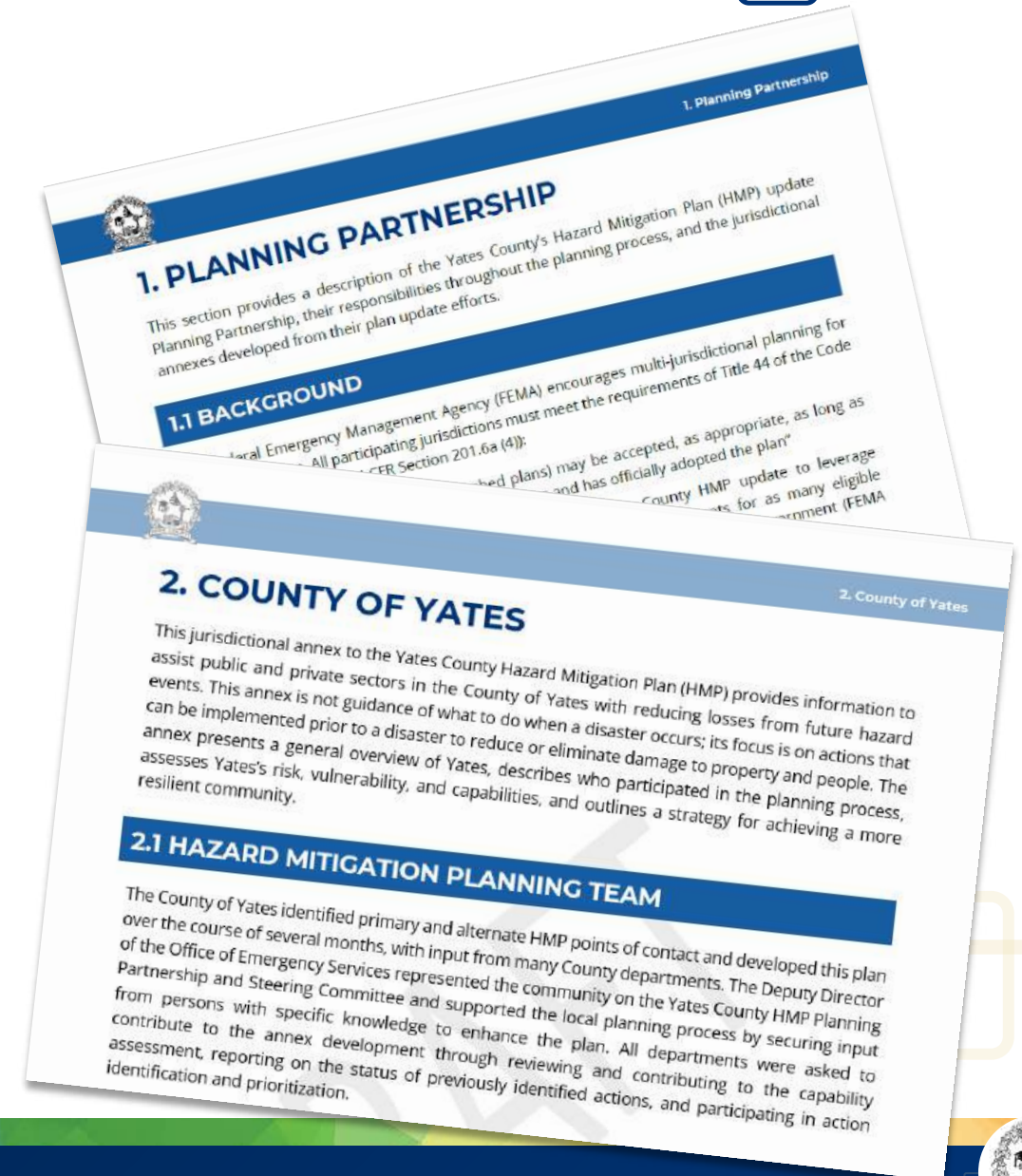
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**Thank
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APPENDIX C: PUBLIC AND STAKEHOLDER OUTREACH



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, 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 the identified hazards.

WEBSITE AND SOCIAL MEDIA POST

Examples of outreach materials for social media dispersed to the Planning Partnership can be found at the end of this appendix.

STAKEHOLDER SURVEYS

This section contains information and results gathered from the Yates County HMP Stakeholder Survey. 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 that provide various services to the Planning Area (emergency services, academic/research, public works, utility providers, business/commerce, hospitals/medical services, and transportation). Results of the surveys are provided below, with personal information redacted.

Stakeholder Survey Results

The stakeholder survey was designed to help identify general needs for hazard mitigation and resiliency within Yates County from its perspective, as well as to identify specific projects that may be included in the mitigation plan. It was distributed to identified stakeholders, including the various county and municipal departments and agencies in the county. As of July 26, 2024, nine stakeholders completed the survey, with respondents coming from the following sectors: academic/research, emergency services, health and human services, hospitals/medical services, transportation and public works. The majority of respondents represented groups that served Yates County as a whole (77.8 percent) or the Town of Jerusalem (33.3 percent).

Neighbor Survey Results

The neighbor survey was sent to the surrounding municipalities of the Yates County due to their proximity to and because effects of hazard events that impact the Planning Area would be similar



to that of their neighbors. As of July 26, 2024, three neighboring counties submitted the survey (Ontario, Schuyler, and Seneca County)

PUBLIC SURVEY RESULTS

This section contains information and results gathered from the Yates 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. Fifty-four respondents completed this survey over a period of four months during the planning process. The survey was available on Yates County's HMP website (<https://www.yatescountynyhmp.com/>) and participants posted a link to the survey through their social media accounts. Full survey responses are provided at the end of the appendix.

Public Survey Results

Responses were collected and provided back to plan participants for consideration in the mitigation action development (72 responses in total).

- Survey respondents indicated they were from the Towns of Barrington, Benton, Jerusalem, Middlesex, Milo, Potter, Stakey, and Torrey; the Villages of Dundee and Penn Yan; and surrounding jurisdictions including the Towns of Geneva, Canandaigua, and Urbana.
- The majority of respondents have lived in Yates County for over 20 years (58 percent), own their residence (90 percent), and live in a single-family home (94 percent).
- The majority of residents were over the age of 60 (45.1 percent).
- Of the 72 respondents who answered this question, only nine (13.4 percent) indicated that their property is located in a designated floodplain. Of those residents just two (2.9 percent) indicated their home is covered by flood insurance.
- A majority of respondents (66.6 percent) indicated that they receive emergency information through the internet and social media, followed by mass notification systems (65.3 percent).
- 77.4 percent of respondent said 'no' when asked if their home was damaged from a hazard event. Damages reported were related to hail, wind, flooding, and extreme temperature (heat and cold).



YATES COUNTY — NEW YORK —

HAZARD MITIGATION PLAN 2024 UPDATE



UPDATING THE 2020 HMP

Yates County, along with participating jurisdictions, is in the process of updating the countywide Hazard Mitigation Plan. The objective of the plan is to identify projects that have the potential to decrease or eliminate damages caused by future natural hazards, ultimately making Yates County a more resilient place. As a component of this planning process, we are seeking your input on which natural hazards have the most impact on you and what actions the county can take to reduce the impacts of these hazards. If you reside or work in Yates County, we kindly request that you take a few minutes to complete our mitigation survey in order to assist us in comprehending the extent to which natural hazards are affecting you and your community.

<https://www.surveymonkey.com/r/YatesPublicSurvey>

BENEFITS OF HAZARD MITIGATION PLANS

- Awareness of risk and vulnerabilities.
- Identification of implementable strategies and funding sources.
- Reduction of natural hazard impacts (save lives, preserve property and the local economy).
- Creates partnerships and develops comprehensive approaches that enhance project grant funding opportunities.
- Pooling of resources and reducing their level of effort while avoiding duplication of effort.
- Creation of more resilient communities – bounce back from disasters faster!



WHAT IS MITIGATION?

Hazard mitigation is an action to help reduce long-term risks caused by hazards, such as flooding, hurricanes, and winter storms.



PURPOSE

The purpose of hazard mitigation is to protect people and structures and minimize the costs of disaster response and recovery.



GOALS

The goal of the Rockland County HMP is to identify projects that can reduce damages from future natural hazards.

For more information about this process, visit the project website:

[HTTPS://WWW.YATESCOUNTYNYHMP.COM/](https://www.yatescountynyhmp.com/)

Yates County Hazard Mitigation Plan 2024 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 reduce vulnerability to hazards and protect Yates County's communities' health, safety, quality of life, environment, and economy. HMPs must be reviewed and updated every five years and formally adopted by participating jurisdictions. County and local leaders, along with the community, will work together to identify risks, assess capabilities, and develop a strategy to reduce disaster vulnerability.

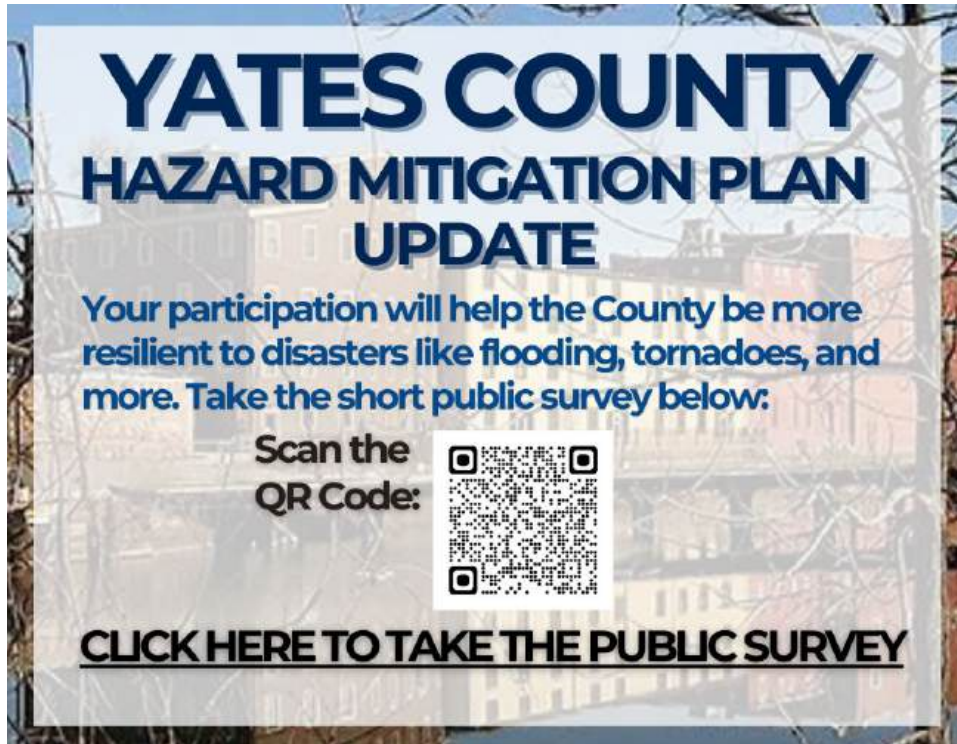
Yates County and its jurisdictions must have a FEMA-approved HMP to be eligible for grant funding for pre- and post-disaster programs. In the next year, Yates County and its jurisdictions will update the current HMP with the following objectives:

- Engage the public for input and feedback throughout the planning process.
- Conduct a thorough risk assessment using the best available data.
- Establish hazard mitigation goals, objectives, and actions to reduce loss of life and property from natural hazards.
- Minimize long-term impacts, damages, and repair costs to human health and structures.
- Obtain state and federal approval of the HMP.
- Be eligible for federal funds for pre-disaster mitigation planning.

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




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



YATES COUNTY HAZARD MITIGATION PLAN UPDATE

Your participation will help the County be more resilient to disasters like flooding, tornadoes, and more. Take the short public survey below:

Scan the QR Code:



CLICK HERE TO TAKE THE PUBLIC SURVEY



YATES COUNTY NEW YORK

Hazard Mitigation Plan Update

The County needs your help!

Provide input on the hazards your family experiences for the 2024 HMP update:

<https://www.surveymonkey.com/r/YatesPublicSurvey>



2024

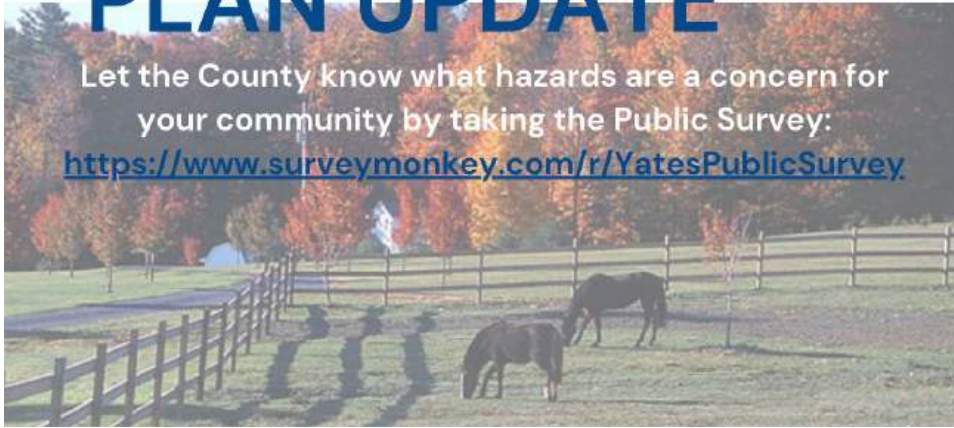


Did you take the Public Survey yet?

HAZARD MITIGATION PLAN UPDATE

Let the County know what hazards are a concern for your community by taking the Public Survey:

<https://www.surveymonkey.com/r/YatesPublicSurvey>



2024 Hazard Mitigation Plan Update

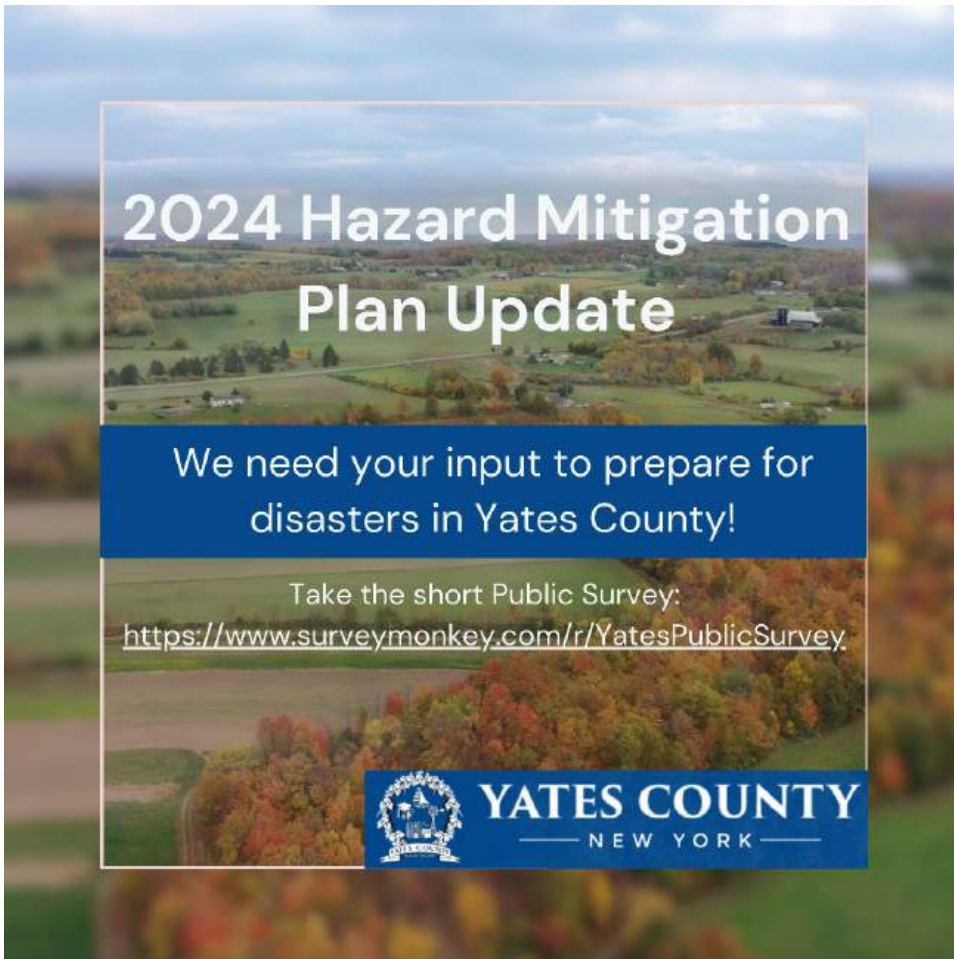
We need your input to prepare for disasters in Yates County!

Take the short Public Survey:

<https://www.surveymonkey.com/r/YatesPublicSurvey>



YATES COUNTY
NEW YORK





YATES COUNTY

NEW YORK

ARE YOU PREPARED FOR A DISASTER ?

- Do you have a plan?
- Do you have an emergency kit?
- Are you ready for the next big storm?



TAKE THE SURVEY

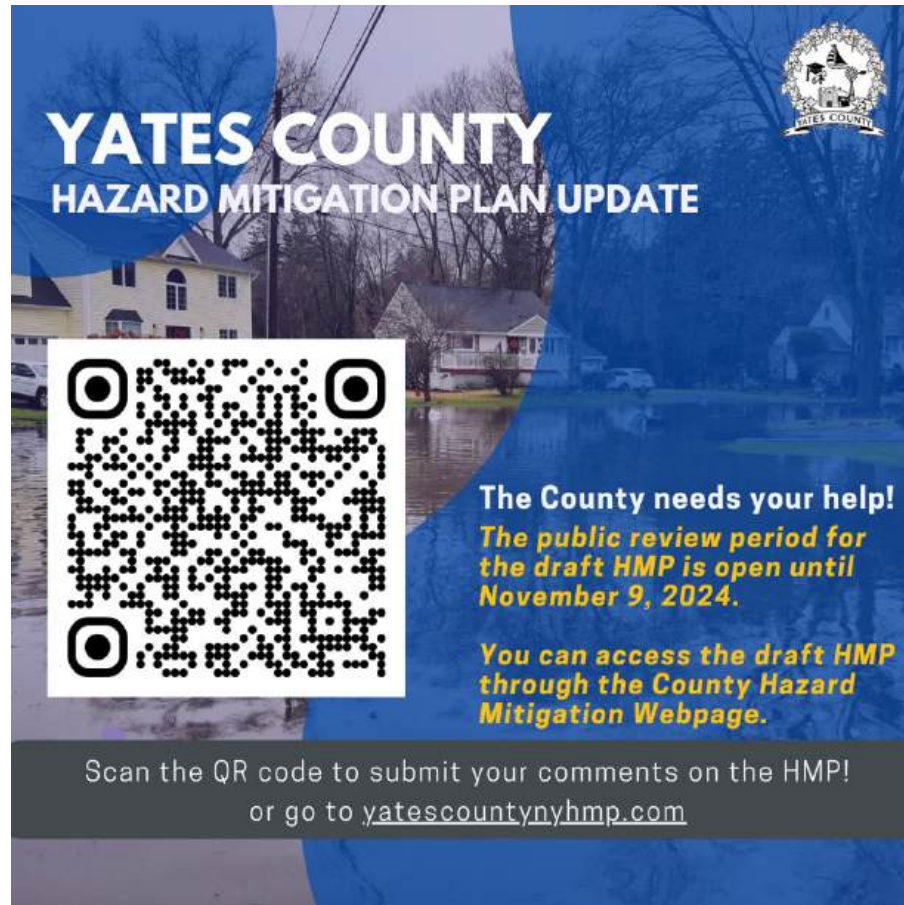
<https://www.surveymonkey.com/r/YatesPublicSurvey>

ARE YOU PREPARED FOR A DISASTER IN YATES COUNTY?



- DO YOU HAVE A PLAN?
- DO YOU HAVE AN EMERGENCY KIT?
- ARE YOU READY FOR THE NEXT BIG STORM TO HIT?

**ANSWER THESE QUESTIONS BY
TAKING A QUICK SURVEY →**





YATES COUNTY
HAZARD MITIGATION PLAN UPDATE



The County needs your help!
The public review period for the draft HMP is open until November 9, 2024.

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 [yatescountynyhmp.com](https://www.yatescountynyhmp.com)



The Public Review Period is Open!
Visit
<https://www.yatescountynyhmp.com/draft-plan/> to review the draft HMP
now through November 9, 2024.

Access the survey to submit your comments:





Yates 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!

yatescountynyhmp.com



WE NEED YOUR

 *feedback*

www.yatescountynyhmp.com

The Yates County Hazard Mitigation Plan draft is ready for review. The public commenting period is open until **November 9, 2024.**

Visit the County HMP webpage to view the draft plan!

Submit your feedback through online survey:

https://www.surveymonkey.com/r/YatesCounty_PublicReview

Let Us Know!





Your Opinion Matters!

Review the draft 2025 Yates County Hazard Mitigation Plan (HMP) now through November 9, 2024! The draft HMP will be available for public review on the County's HMP website:
www.yatescountynyhmp.com

Use this URL or scan the QR Code below to open the review survey
https://www.surveymonkey.com/r/YatesCounty_PublicReview





Yates County Hazard Mitigation Plan Update - Public Survey

Yates County has assembled a team to update our hazard mitigation plan (HMP) which addresses hazards that impact our county and municipalities. Please help us plan for future disasters by completing this survey regarding hazards in Yates County. To learn more about the HMP process, [click here](#).

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

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



Natural Hazard Information

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

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

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

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

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

Other (please specify)

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

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

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

- Yes
 No

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

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

- Yes
 No

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

- Yes
 No

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

- Yes
 No
 N/A

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

- Yes
- No
- N/A



Community Vulnerabilities and Hazard Mitigation Strategies

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

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

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

Other (please specify)

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

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

Other (please specify)

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

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

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

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

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

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

Other (please specify)

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



General Household Information

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

16. Please indicate the municipality in which you live:

- Barrington (T) Italy (T) Potter (T)
- Benton (T) Jerusalem (T) Rushville (V)
- Dresden (V) Middlesex (T) Starkey (T)
- Dundee (V) Milo (T) Torrey (T)
- Other (please specify) Penn Yan (V)

17. How long have you lived here?

- Less than 1 year 10 to 19 years
- 1 to 5 years 20 years or more
- 6 to 9 years

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

- Own
- Rent

19. What type of residence do you live in?

- Single-family detached Condominium
- Multi-family detached Apartment Complex
- Town Home Commercial
- Other (please specify)

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

21. Please indicate your age range:

Under 18

18 to 30

31 to 40

41 to 50

51 to 60

61+



Yates County Hazard Mitigation Plan - Stakeholder Survey

Yates County and its municipalities are in the process of updating the Hazard Mitigation Plan (HMP) in order to be eligible for federal grant funding for public and private mitigation projects. The HMP provides a “blueprint” by which participating jurisdictions can make coordinated, cost-effective efforts toward reducing losses from natural and human-caused disasters. To learn more about the HMP process, [click here](#).

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

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

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



Yates County Hazard Mitigation Plan - Stakeholder Survey

General Information

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

* 1. Contact Information

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

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

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

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

Other (please specify)

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

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

- | | | |
|---|--|--|
| <input type="checkbox"/> Yates County (entire area) | <input type="checkbox"/> Italy (T) | <input type="checkbox"/> Potter (T) |
| <input type="checkbox"/> Barrington (T) | <input type="checkbox"/> Jerusalem (T) | <input type="checkbox"/> Rushville (V) |
| <input type="checkbox"/> Benton (T) | <input type="checkbox"/> Middlesex (T) | <input type="checkbox"/> Starkey (T) |
| <input type="checkbox"/> Dresden (V) | <input type="checkbox"/> Milo (T) | <input type="checkbox"/> Torrey (T) |
| <input type="checkbox"/> Dundee (V) | <input type="checkbox"/> Penn Van (V) | |
| <input type="checkbox"/> Other (please specify) | | |

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

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

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

- Yes
 No

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



Yates County Hazard Mitigation Plan - Stakeholder Survey

Risk Overview

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

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

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

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

- Yes
 No
 Don't Know

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

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

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

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

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

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

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



Social Vulnerability and Underserved Communities

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

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

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

- Yes
 No
 Not Sure

Other (please specify)

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

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

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

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

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

19. What barriers and community characteristics exist within Yates 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.



Facility Information

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

20. Does your agency own or lease facilities?

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

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

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

- Yes
- No
- Don't Know

If yes, please specify the facilities and damages sustained.

23. What support does your organization need from Yates County to help reduce vulnerabilities to your facilities?



Capabilities and Mitigation Strategies

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

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

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

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

26. 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?

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

- Yes
 No
 Don't Know

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

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



Yates County Hazard Mitigation Plan - Stakeholder Survey

Project Identification

29. 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.

30. 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.



Yates County Hazard Mitigation Plan - Stakeholder Survey

Final Thoughts

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



Yates County Hazard Mitigation Plan - Neighboring Community Survey

Yates County and its municipalities are in the process of updating the Hazard Mitigation Plan (HMP). The HMP provides a “blueprint” by which participating jurisdictions can coordinate efforts to reduce losses from natural hazards. It is required by the Federal Emergency Management Agency (FEMA) in order to be eligible for federal grant funding for public and private mitigation projects. To learn more about the HMP process, [click here](#).

Due to your proximity to Yates County, the effects of many of these disasters would be similar in your community, and your involvement in this process could reap mutual benefits. By participating in the 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).

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

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



Yates County Hazard Mitigation Plan - Neighboring Community Survey

General Information

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

*** 1. Contact Information**

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

*** 2. Please indicate the jurisdiction you represent.**

- | | |
|---|---|
| <input type="checkbox"/> Cohocton, Town of | <input type="checkbox"/> Schuyler County |
| <input type="checkbox"/> Geneva, Town of | <input type="checkbox"/> Seneca County |
| <input type="checkbox"/> Gorham, Town of | <input type="checkbox"/> Seneca, Town of |
| <input type="checkbox"/> Naples, Town of | <input type="checkbox"/> South Bristol, Town of |
| <input type="checkbox"/> Ontario County | <input type="checkbox"/> Steuben County |
| <input type="checkbox"/> Prattsburgh, Town of | <input type="checkbox"/> Tyrone, Town of |
| <input type="checkbox"/> Pulteney, Town of | <input type="checkbox"/> Wayne, Town of |
| <input type="checkbox"/> Rushville, Village of | |
| <input type="checkbox"/> Other (please specify) | |



Emergency Operations and Continuity of Operations Planning

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

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

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

4. Do you include Yates County in your community's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

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

5. Does your community participate in Yates County's comprehensive emergency operations planning, such as by participating on a planning team, or providing resources during an emergency?

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

6. Do you include Yates County 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?

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

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

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

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



Information Sharing

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

9. Does your community have access to contact information for Yates County's emergency operation centers?

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

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

- Yes
- No
- Don't Know
- N/A

If yes, please explain.

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

- Yes
- No
- Don't Know
- N/A

If yes, please explain.

12. Please describe any situations or hazards that are of concern to both your community and Yates 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?

13. Please explain how information is shared between communities regarding mitigation projects.



Projects, Grants, Education, and Outreach

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

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

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

If you selected anything above, please explain.

15. Have your community and Yates County collaborated on grant applications?

- Yes
- No
- Don't Know
- N/A

If yes, please explain.

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

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

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



Evacuation and Sheltering

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

18. Do you collaborate with Yates County on establishing evacuation routes and alternate evacuation routes?

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

19. Do you and Yates County consult with one another before making evacuation decisions that would impact one another (recommending evacuation routes into neighboring jurisdictions)?

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

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

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

21. Do you collaborate with Yates County on establishing shelters?

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

22. Do you and Yates County consult with one another before making sheltering decisions that would impact one another (recommending shelters in neighboring communities)?

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

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

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



Yates County Hazard Mitigation Plan - Neighboring Community Survey

Final Thoughts

24. Do you have any relevant questions or comments for Yates County?



Yates County Hazard Mitigation Plan Update

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

Explore the Draft Plan

2025 Yates County Hazard Mitigation Plan Update

The 2025 Draft Yates County HMP is now available for public review. The draft submitted to the State is available by clicking the files below. To provide feedback, please submit this form (https://www.surveymonkey.com/r/YatesCounty_PublicReview) and/or contact the County and Tetra Tech contacts on the Home page of this website.

- [2025 Draft Yates County HMP Update – Volume I](#)
- [2025 Draft Yates County HMP Update – Volume II](#)
- [2025 Draft Yates County HMP Update – Appendices](#)

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

APPENDIX D: PARTICIPTION MATRIX



The matrix in Appendix D is intended to give a broad overview of FEMA, the State of New York, county, municipal, and stakeholder personnel that participated in the Yates County HMP update planning process. Meeting attendees and input provided are also included. 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, etc.), 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 jurisdictional annex in Volume II. A list of participating jurisdiction and stakeholder representatives is found in Table D-1.

In preparation for the draft plan public review, each jurisdiction was asked to have their 'mitigation team' review their annex to ensure it was complete and accurate for posting to Yates County's HMP website (<https://www.yatescountynyhmp.com/>).

DRAFT



Table D-1. Participation Matrix

| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|------------------------|--|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| County of Yates | | | | | | | | | | | | | | |
| Brian Winslow | Director, Office of Emergency Services | | | X | X | | X | | | X | X | | X | |
| Diane DiFabio | Deputy Director, Office of Emergency Services | X | X | X | | X | X | X | X | X | X | X | | |
| Ryan Bailey | EMS Coordinator, Office of Emergency Services | X | X | X | X | X | | X | | X | X | | | |
| Jeff Ayers | County Planner, Planning Department | X | X | | | X | X | | | X | X | | | |
| Colby Peterson | Director, Soil and Water Conservation District | X | X | | X | | X | | | X | X | | | |
| Joe Reed | Supervisor, Building and Grounds | X | X | | | | | | | X | X | | | |
| Amy Miller | Commissioner, Social Services Department | X | X | X | | X | X | | | X | X | | | |
| Tim Groth | Director, Information and Technology | X | X | X | | X | | | | X | X | | | |
| Kerry Brennan | Personnel Officer, Personnel Office | | X | | | | | | | X | X | | | |
| Alyssa Palmer | Director, Probation Department | X | X | | | X | | | | X | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|---------------------------|---|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Douglas Sinclair | Director, Public Health Department | X | X | | X | X | | X | | X | X | | | |
| George Roets | Director, Community Services Department | X | X | | | X | | | | X | X | | | |
| Jessica Mullins | Yates County Administrator | | | | | X | X | | | X | X | | | |
| Leigh Batton | Director of Finance, Finance Department | | | | | X | | | | X | X | | | |
| Doug Rapalee | Highway Superintendent, Highway Department | | | | | X | | | | X | X | | | |
| Francis Ryan | Sheriff, Sheriff's Office | | | | | X | X | | | X | X | | | |
| Robert Cilino | Communications Support Specialist, Sheriff's Office | | | | | X | | | | X | X | | | |
| Brandon Jensen | Undersheriff, Sheriff's Office | | | | | X | X | | | X | X | | | |
| Town of Barrington | | | | | | | | | | | | | | |
| Steven Wheeler | Highway Superintendent | X | X | | | X | | | | X | X | X | | |
| Steven Perry | Town Supervisor | | | | | | | | | | X | | X | |
| Jesse Jayne | Code Enforcement Officer | | | | | | | | | | X | | | X |
| Joy L. C. Perry | Town Clerk | | | | | | | | | | X | | | |
| Town of Benton | | | | | | | | | | | | | | |
| Jayson Hoover | Highway Superintendent | X | X | | | | | | | X | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|---------------------------|----------------------------------|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| John Prendergast | Supervisor | | X | | | | | | | | X | X | | |
| Richard Harper | Deputy Supervisor | | | | | | | | | | X | | X | |
| Thomas Fulkrod | Zoning Officer | | | | | | | | | | X | | | X |
| Jeremy Delyser | Engineer | | | | | | | | | | X | | | |
| Bobbi Wolfe | Town Clerk/Tax Collector, RMC | | | | | | | | | | X | | | |
| Village of Dresden | | | | | | | | | | | | | | |
| Colleen Riviello | Clerk, Treasurer, Administration | | | | | | | | | | X | X | | |
| William Hall | Mayor – Board of Trustees | | | | | X | | | | | X | | X | |
| Tim Steed | Engineer – Hunt Engineers | | | | | | | | | | X | | | |
| Brian Ellis | DPW Superintendent | | | | | | | | | | X | | | |
| Thomas Fulkrod | Code Enforcement Officer | | | | | | | | | | X | | | X |
| Kathy Whitney | Deputy Clerk Admin | | | | | | | | | | X | | | |
| Village of Dundee | | | | | | | | | | | | | | |
| Steven Dean | Superintendent of Public Works | | | | | | | | | | X | X | | |
| Frederick Cratsley, Jr. | Mayor | | | | | X | | | | | X | | X | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|--------------------------|---------------------------------|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Alec Miller | Fire Chief | | | | | | | | | | X | | | |
| Thomas Grady | Code Enforcement Officer | | | | | | | | | | X | | | X |
| Christine Sutherland | Clerk/Treasurer | | | | | | | | | | X | | | |
| Town of Italy | | | | | | | | | | | | | | |
| Richard Craig | Town Supervisor | | | | | X | | | | | X | X | | |
| Andy Best | Highway Superintendent | | | | | X | | | | | X | | X | |
| Steve Faulker | Former Highway Superintendent | | | | | | | | | | X | | | |
| Chris Whipple | Code Enforcement Officer | | | | | | | | | | X | | | X |
| Debbie Craig | Town Clerk | | | | | | | | | | X | | | |
| Town of Jerusalem | | | | | | | | | | | | | | |
| Tony Hurd | Highway Superintendent | | | | | X | | X | X | | X | X | | |
| Jamie Sisson | Supervisor | | | | X | X | | | | | X | | X | |
| Bill Gerhardt | Former Code Enforcement Officer | | | | | | | | | | X | | | |
| James McKinley | Code Enforcement Officer | | | | | X | | | | | X | | | X |
| Sheila McMichael | Town Clerk | | | | | | | | | | X | | | |
| Tim Cutler | Planning Board Chair | | | | | | | | | | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|----------------------------|--------------------------------|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Daryl Jones | Deputy Supervisor | | | | | | | | | | X | | | |
| Ginny Fenton | Water/Sewer Department | | | | | | | | | | X | | | |
| Terry Kwiecinski | Assessor | | | | | | | | | | X | | | |
| Town of Middlesex | | | | | | | | | | | | | | |
| David C. Adams | Supervisor | | | | | | | | | | X | X | | |
| Dawn M. Kane | Code Enforcement Officer | | | | | | | | | | X | | X | X |
| Alan Williams | Water Superintendent | | | | | | | | | | X | | | |
| Joshua Burnett | Highway Superintendent | | | | | | | | | | X | | | |
| Lynnette F. Miller | Town Clerk | | | | | | | | | | X | | | |
| Town of Milo | | | | | | | | | | | | | | |
| Anthony Validzic | Code Enforcement Officer | X | X | X | | X | | | | X | X | | | X |
| Leslie Church | Supervisor | | | | | | | | | | X | X | | |
| Patricia Christensen | Town Clerk | | | | | | | | | | X | | X | |
| Eric Wiles | Town Engineer/CPL | | | | | | | | | | X | | | |
| Lance Yonge | Highway Superintendent | | | | | | | | | | X | | | |
| Kasey Christensen | Sewer and Water Superintendent | | | | | | | | | | X | | | |
| Village of Penn Yan | | | | | | | | | | | | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|-----------------------|---------------------------------|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Melissa Gerhardt | Director of Public Works | | | | | | | | | | X | X | | |
| Brett McMichael | Deputy Director of Public Works | | | | X | | | | | | X | | X | |
| Jamie Kincaid | Code Enforcement Officer | | | | | | | | | | X | | | X |
| Robert Elliott | Village Engineer | | | | | | | | | | X | | | |
| Chris Brand | Streets Supervisor | | | | | X | | | | | X | | | |
| Danny Condella | Mayor | | | | | | | | | | X | | | |
| Holly Easling | Clerk/Treasurer | | | | | | | | | | X | | | |
| Justin Hamm | Lieutenant | | | | | | | | | | X | | | |
| Jonathan MacKerchar | Athletic Director at SD | | | | | | | | | | X | | | |
| Town of Potter | | | | | | | | | | | | | | |
| Art Parsons | Highway Superintendent | X | X | | | | | | | X | X | | | |
| Paul Moberg | Town Councilperson | X | X | | | | | | | X | X | | X | |
| Larry Lewis | Town Supervisor | | | | | | | | | | X | X | | |
| Ed Moberg | Zoning Board | | | | | | | | | | X | | | |
| Brian Bootes | Deputy Supervisor | | | | | | | | | | X | | | |
| Tim Pagel | Code Enforcement | | X | | | X | | X | | | X | | | X |
| Deborah Adams | Town Clerk | | | | | | | | | | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|-----------------------------|-----------------------------------|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Chris Mumby | Town Councilperson | | | | | | | | | | X | | | |
| Village of Rushville | | | | | | | | | | | | | | |
| Art Rilands | Public Works Supervisor | | | | | | | | | | X | X | | |
| Dave LeClair | Mayor | | | | | | | | | | X | | X | |
| Tim Pagel | Code Enforcement | | X | | | X | | X | | | X | | | X |
| Greg Hoteling | Village Engineer | | | | | | | | | | X | | | |
| Jim Adams | Fire Chief | | | | | | | | | | X | | | |
| Jeannie Kesel | Clerk | | | | | | | | | | X | | | |
| Neal Curtis | Temporary Public Works Supervisor | | | | X | | | | | | X | | | |
| Town of Starkey | | | | | | | | | | | | | | |
| Ralph Warren | Highway Superintendent | X | X | | | X | | | | X | X | | | |
| Brian Shriver | Code Enforcement | | | | X | | | | | | X | | | X |
| Geroge E. Lawson | Supervisor | | X | | | | | | | | X | X | | |
| Candace J. Iszard | Town Clerk | | | | | | | | | | X | | X | |
| Town of Torrey | | | | | | | | | | | | | | |
| Grant Dawns | Town Councilman | X | X | X | X | X | | | | X | X | | | |
| Brice Henderson | Town Councilman | X | X | | | | | | | X | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|---------------------|---|---|---|---|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Tim Chambers | Highway Superintendent | | | | | X | | | | | X | X | | |
| Josh Wood | Deputy Highway Superintendent | | | | | | | | | | X | | X | |
| Dwight James | Town Code and Zoning Officer | | | | | | | | | | X | | | X |
| Warren Zimmerman | Dresden Fire Chief | | | | | | | | | | X | | | |
| Peter Martini | Town Supervisor | | | | | | | | | | X | | | |
| Betty Daggett | Town Clerk | | | | | | | | | | X | | | |
| Colby Petersen | Deputy Supervisor | | | | | | | | | | X | | | |
| Stakeholders | | | | | | | | | | | | | | |
| Kevin Clapp | New York State Department of Homeland Security and Emergency Services - Hazard Mitigation | X | X | X | | | X | | | X | X | | | |
| Dyan Maybee | New York State Department of Homeland Security and Emergency Services - R-5 Coordinator | X | X | | | | | | | X | X | | | |
| Scott Feuerstein | New York State Department of Homeland Security and Emergency Services - Planning Manager | | | X | | | | | | X | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|------------------|--|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Roland Paperman | New York State Department of Homeland Security and Emergency Services - Hazard Mitigation | X | X | X | | | | | | X | X | | | |
| Michael Tarasoff | New York State Department of Homeland Security and Emergency Services - Hazard Mitigation | | | X | | | | X | | | | | | |
| Timothy Alimossy | New York Department of Transportation, Region 6 - Regional Emergency Manager | | | | | X | | | | | X | | | |
| Albert Cheverie | New York State Department of Health - Preparedness Representative | | | | | X | | | | | X | | | |
| Lori Miller | New York State Electric and Gas - Supervisor | X | X | | | | | | | X | X | | | |
| Josh Colton | Finger Lakes Community Health - Manager | X | X | | | | | | | X | X | | | |
| Alan Storey | Keuka College - Associate Vice President for Facilities | X | X | | | | | | | X | X | | | |
| Amy Cotner | Keuka College - Associate Vice President for Student Life and Dean of Students, Title IX Coordinator | X | X | | | | | | | X | X | | | |



| Name | Title / Position | Attended Steering Committee Kick-Off Meeting (08/22/23) | Attended Planning Partnership Kick-Off Meeting (08/22/23) | Attended Steering Committee Risk Assessment Meeting (02/08/24) | Attended Planning Partnership / Public Risk Assessment Meeting (02/22/24) | Mitigation Strategy Workshop (05/08/24) | Attended Draft Review Meeting (02/15/24) | Attended Public Draft Plan Review Meeting (02/20/24) | Feedback provided | Steering Committee Member | Planning Partnership Member | Primary Point of Contact | Alternate Point of Contact | NFIP Administrator |
|-----------------------|--|---|---|--|---|---|--|--|-------------------|---------------------------|-----------------------------|--------------------------|----------------------------|--------------------|
| Jim Cunningham | Keuka College - Director of Campus Safety | | | | | X | X | | | X | X | | | |
| Sandi Perl | The Living Well Mission - Executive Director | X | X | X | | | | | | X | X | | | |
| Debra Teickey | Ontario City | | X | | | | | | | | X | | | |
| Linda Phillips | Ontario County Planning Department - Senior Planner | | X | | | X | | | | X | X | | | |
| Jonathan MacKerchar | Penn Yan Central Schools - Athletic Director | | X | | | | | | | | X | | | |
| Justin Hamm | Penn Yan Police Department - Lieutenant | | X | | | | | | | | X | | | |
| Sandi Bastedo | Cornell Cooperative Extension Yates County - Executive Director | | | | | X | | | | | X | | | |
| Caroline Boutard-Hunt | Cornell Cooperative Extension Yates County - Agricultural Educator | | | | | X | | | | | X | | | |

**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: | | | |
| Hazards of Concern: | <input type="checkbox"/> Dam Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Flood <input type="checkbox"/> Harmful Algal Blooms | <input type="checkbox"/> Hazardous Materials <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Transportation Accidents <input type="checkbox"/> Utility Failure <input type="checkbox"/> Severe Winter Weather | |
| 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 | <input type="checkbox"/> Low |
| Alternatives | Action | | Evaluation |
| | No action | | Problem persists |
| | | | |
| | | | |



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 Yates County Hazard Mitigation Plan include:

- Dam Failure
- Disease Outbreak
- Drought
- Extreme Temperature
- Flood
- Harmful Algal Blooms
- Hazardous Materials
- Landslide
- Severe Storm
- Transportation Accident
- Winter Storm
- Utility Failure

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: Reduce the likelihood and impacts of hazards on life, property, and the environment.
- Goal 2: Protect life, property, critical infrastructure and community lifelines, the environment, and the economy from hazard impacts.
- 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: Reduce the risk of natural hazards for socially vulnerable populations.
- Goal 5: 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?
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 project or initiative commensurate with the benefits achieved?



4. **Political** – Is there overall public support for the mitigation action? Is there the political will to support it?
5. **Legal** – Does the jurisdiction have the authority to implement the action?
6. **Fiscal** - Can the project be funded under existing program budgets (i.e., is this initiative currently budgeted for)? 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?
8. **Social Vulnerability** – Does the action benefit socially vulnerable populations and underserved communities?
9. **Administrative** – Does the jurisdiction have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?
10. **Hazards of Concern** – Does the action reduce the risk to multiple 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 5 years (within our planning horizon)?
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?

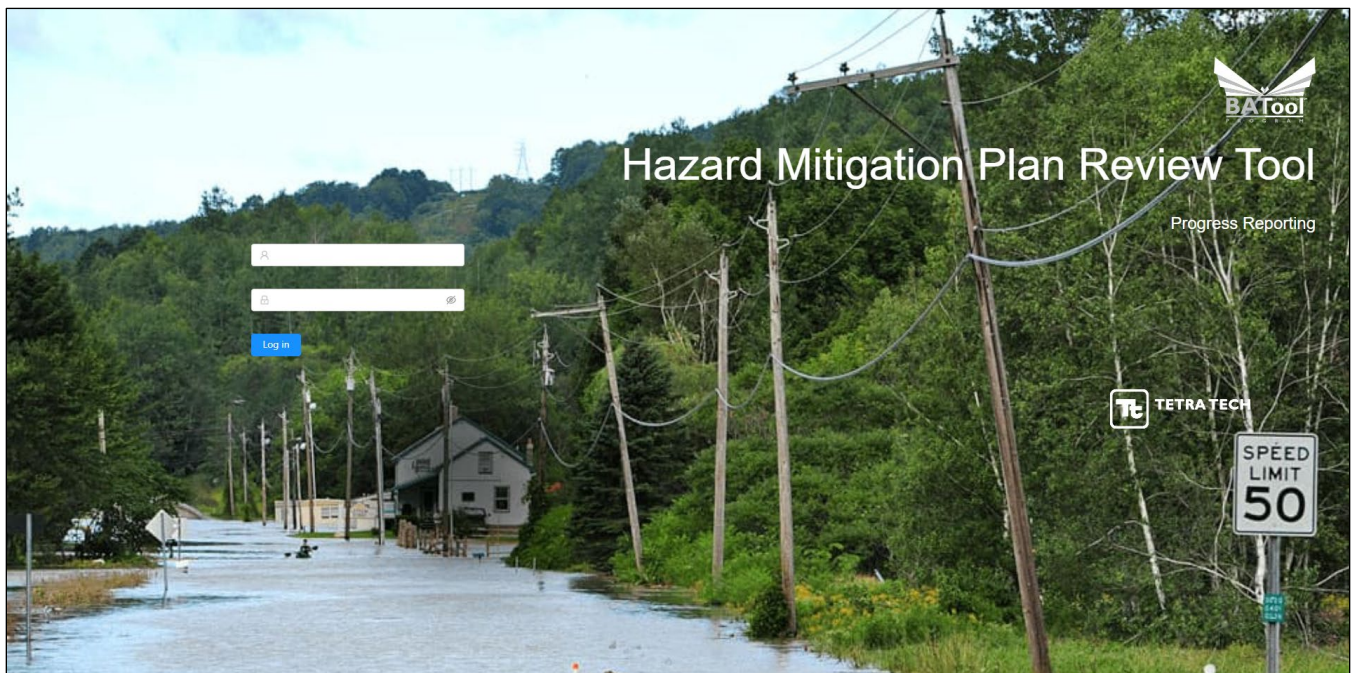
APPENDIX F: PLAN MAINTENANCE TOOLS

This appendix includes tools and worksheets to facilitate plan maintenance and review by the Yates 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.



Worksheet #1

Progress Report

step 2

Page 1 of 3

Progress Report Period: _____ to _____
(date) (date)

Project Title: _____ Project ID#: _____

Responsible Agency: _____

Address: _____

City/County: _____

Contact Person: _____ Title: _____

Phone #(s): _____ email address: _____

List Supporting Agencies and Contacts:

Total Project Cost: _____

Anticipated Cost Overrun/Underrun: _____

Date of Project Approval: _____ Start date of the project: _____

Anticipated completion date: _____

Description of the Project (include a description of each phase, if applicable, and the time frame for completing each phase): _____

| Milestones | Complete | Projected Date of Completion |
|------------|----------|------------------------------|
| | | |
| | | |
| | | |
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| | | |



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

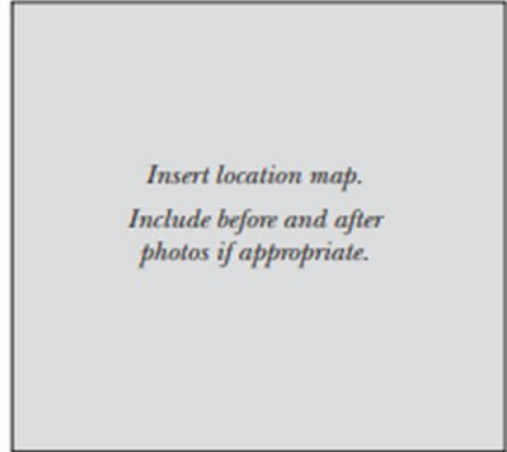
Project Name and Number: _____

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. <i>(See Worksheet #4)</i> | |
| 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

DRAFT



This information is redacted for the public document. A full list of critical facilities identified for the vulnerability analysis is available at the Yates County Office of Emergency Services. Contact the Yates County Hazard Mitigation Coordinator at the Yates County Office of Emergency Services to view the list.

DRAFT

**APPENDIX H: RISK ASSESSMENT
SUPPLEMENTARY DATA**



This appendix contains information and details to support information provided in Chapters 6 through 17 (Hazard Profiles).

HISTORY OF HAZARD EVENTS WITHIN THE COUNTY

To supplement the information provided in this plan, events prior to the update of this plan are included below by hazard of concern type. Many sources provided historical information regarding previous occurrences and losses associated with hazards throughout New York and Yates County. It is noted that, with several sources reviewed for the purpose of this HMP, loss and impact information for many events could vary depending on the sources.

For more information on past events and impacts, refer to the 2020 Yates County Hazard Mitigation Plan.

Dam Failure

There are no known records of dam failure events that have impacted Yates County between 1868 and 2018 (ASDSO 2018, Stanford University 2018).

Disease Outbreak

Known disease outbreak events that have impacted The State of New York and Yates County between 1918 and 2018 are identified in Table H-2. Many sources were researched for historical information regarding disease outbreak events in Yates County; therefore, Table H-2 may not include all disease outbreak events that have impacted the County.

Table H-1. Disease Outbreak Events in Yates County Between 1918 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|--|
| 1918 | N/A | N/A | Countywide | The worldwide Spanish influenza outbreak struck Yates County. Schools were closed; civic gatherings and church services canceled. By mid-October, about 250 cases were reported in Penn Yan alone. Dresden and Rushville were especially hard hit. The Spanish influenza outbreak was the catalyst for building the Soldiers and Sailors Hospital. |
| 2009 | N/A | N/A | Countywide | Flu-like illness reported in emergency rooms in the Yates County Department of Public Health conducted several vaccination clinics in the County. Schools in the County also vaccinated approximately 1,000 children. |



Sources: MacAlpine 2014; Observer-Review.com 2009

Drought

Known drought events that have impacted The State of New York and Yates County between 1999 and 2018 are identified in Table H-3. Many sources were researched for historical information regarding drought events in Yates County; therefore, Table H-3 may not include all drought events that have impacted the County.

Table H-2. Drought Events in Yates County Between 1999 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-----------------------------|-------------------------|--------------------|-------------------|---|
| August 10, 1999 | N/A | N/A | Countywide | The U.S. Department of Agriculture declared all of New Jersey and 34 counties in New York as agricultural disaster areas in August 1999 for what President Clinton described as a "severe drought." The declaration made farmers in these areas eligible for emergency, low-interest loans because of losses due to excessive heat and drought" (USDA "News Release No. 0329.99" August 10, 1999). The declared counties in New York included Yates County. |
| September 1-30, 1999 | N/A | N/A | Countywide | A very dry spring and summer season caused major crop failures and some wells to run dry. Many streams and rivers were also brought to their lowest levels. The most affected crops were corn and hay, which had a significant impact on dairy farmers. Crop damage was estimated at \$2,941,176. |
| April 1, 2001 | N/A | N/A | Countywide | Monthly precipitation totals were well over 2.00 inches below normal at some locations, and it was the driest April on record at both Walton and the NWS office and the Binghamton Regional Airport. |
| July 1-30, 2016 | N/A | N/A | Countywide | A significant lack of rain since May 2016 found many areas in the Finger Lakes and South Tier New York regions with as little as 25 percent of normal rainfall through the end of July. Dryness due to lack of rainfall saw short-term drought conditions deteriorate from Moderate to Severe Drought. |
| August 1-September 30, 2016 | N/A | N/A | Countywide | Rainfall since the late spring was only recording up to 50 to 80 percent of normal. Portions of the area deteriorated from severe to extreme drought. Agricultural interests reported significant stress to non-irrigated crops, and several communities began to place voluntary and mandatory water restrictions on their residents. The USDA designated Yates County and fourteen other New York counties as primary natural disaster areas due to losses caused by drought. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|--------------------|-------------------------|--------------------|-------------------|---|
| October 1-31, 2016 | N/A | N/A | Countywide | A moderate to heavy rain event on Oct 21st helped to ease the drought. Drought classification was improved to Severe Drought. |

Sources: USDA 2017; U.S. Drought Monitor 2017

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

- FEMA Federal Emergency Management Agency
- N/A Not applicable
- NRCC Northeast Regional Climate Center
- NWS National Weather Service
- USDA U.S. Department of Agriculture

Extreme Temperature

Known extreme temperature events that have impacted The State of New York and Yates County between 2009 and 2018 are identified in Table H-4. Many sources were researched for historical information regarding extreme temperature events in Yates County; therefore, Table H-4 may not include all extreme temperature events that have impacted the County.

Table H-3. Extreme Temperature Events in Yates County Between 2009 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|---|
| January 2009 | N/A | N/A | Countywide | The January temperature averaged more than 5°F colder than normal, with 18 of the first 23 days recorded below freezing, breaking the previous 30-year record of 16.4 of 30 days in January. USDA crop losses reported in Yates County for 2009 related to frost and freeze totaled \$47,780. |
| July 5-8, 2010 | N/A | N/A | Countywide | Four days of 90-degree temperatures and higher in the region prompted USDA crop losses reported in Yates County for 2010 related to heat totaled \$94,807, with the greatest losses affecting the sweet corn crop. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|--------------------------|-------------------------|--------------------|-------------------|---|
| March–April, 2012 | N/A | N/A | Countywide | <p>After a winter of record high temperatures, many crops in New York blossomed earlier than usual and were destroyed when exposed to early spring freezing temperatures occurring between March 1 and April 30.</p> <p>In March 2012, Yates County was designated a primary county in USDA Disaster (S3250) which resulted from frosts and freezes. USDA crop losses reported in Yates County for 2012 related to freeze and frost totaled \$527,811.</p> |
| June 2012 | N/A | N/A | Countywide | <p>Temperatures averaged above normal in June for the Great Lakes climate division of New York State, where it was the 18th warmest June since 1895. At the same time, the climate division posted below normal rainfall for the fourth out of the five previous months.</p> <p>This event resulted in a USDA Disaster Declaration (S3427), and Yates County was included as a primary county in this declaration. Yates County was considered to be abnormally dry for this time of year. USDA crop losses reported in Yates County for 2012 related to excessive heat totaled \$35,229.</p> |
| December 2013–March 2014 | N/A | N/A | Countywide | <p>The winter of 2013-2014 was one of the coldest in recent history for New York State. Temperatures finished below normal every month for the Rochester climate station, with the average temperature between November and April being 30.3°F, which was 3.4°F below normal. The January through March timeframe finished more than 4 degrees below normal. The Rochester station recorded seven new daily low temperature records: November 13 and 24, December 17, January 3 (low max and low min records), January 7, and March 6.</p> <p>The long winter of sub-zero temperatures led to deep winter freezes, severely damaging farms, orchards, and vineyards across upstate New York. A survey of damaged farms by Cornell University reported primary bud damage as high as 85 percent in the Finger Lakes region and 97 percent in Lake Erie region.</p> <p>This event resulted in a USDA Disaster Declaration (S3666), and Yates County was included as a primary county in this declaration. USDA reported 2014 indemnity losses in Yates County of more than \$102,259 to its grape crop caused by frosts and freezes. Another \$16,886 was paid to grape crops as a result of the freeze in 2013, which may have been a result of the 2013–2014 winter season.</p> |

Sources: NOAA-NCEI 2017; USDA 2017



Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

- N/A Not Applicable
- FEMA Federal Emergency Management Agency
- NOAA-NCEI National Oceanic Atmospheric Administration – National Centers for Environmental Information
- NYS New York State
- NYSDEC New York State Department of Conservation
- NWS National Weather Service
- USDA United States Department of Agriculture

Flood

Known flood events that have impacted The State of New York and Yates County between 1972 and 2018 are identified in Table H-5. Many sources were researched for historical information regarding flood events in Yates County; therefore, Table H-5 may not include all flood events that have impacted the County.

Table H-4. Flood Events in Yates County Between 1972 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-------------------|-------------------------|--------------------|-----------------------------|---|
| June 23-26, 1972 | DR-338 | Yes | Countywide | Tropical Storm Agnes. |
| October 2, 1975 | DR-487 | Yes | Countywide | Severe Storms, Heavy Rain, Landslides, Flooding. |
| September 1984 | DR-725 | Yes | Countywide | Severe Storms and Flooding. |
| November 12, 1995 | N/A | N/A | Countywide | \$5,000 in property damages. |
| January 19, 1996 | DR-1095 | Yes | Countywide | Severe Storms and Flooding resulted in \$7.9 million in property damages. |
| April 30, 1996 | N/A | N/A | Jerusalem (T), Penn Yan (V) | Flash flooding of many creeks and small streams throughout the County. The hardest-hit areas were in the Town of Jerusalem where County Route 29 was flooded between Route 54A and Belknap Road, and also in the Village of Penn Yan where several roads were closed due to flooding. \$10,000 in property damages were reported. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|--------------------|-------------------------|--------------------|--|---|
| July 31, 2000 | DR-1335 | Yes | Penn Yan (V) | Thunderstorm rain resulted in numerous reports of flooding across Yates County. Culver Hill Road was washed out and Pre-Emption Road was flooded. Soldiers and Sailors Hospital in the Village of Penn Yan reported flooding in the main hallway. Crop losses were also caused by the magnitude of the flooding. |
| September 23, 2000 | N/A | N/A | Jerusalem (T) | 4 to 5 inches of rain caused washed out roads and flooded basements mostly in the Town of Jerusalem, which includes Bluff Point, Branchport, Keuka Park, and Keuka Lake State Park. |
| August 5, 2003 | DR-1486 | Yes | Dundee (V), Barrington (T), Starkey (T) | Very heavy rainfall from slow-moving thunderstorms caused flash flooding of small streams leading to numerous road closures in southeast Yates County. Rainfall amounts were on the order of 3 to 4 inches in a 3-hour period. Several roads were undermined and damaged by the flood waters. At one point, most roads in the Village of Dundee, and the Towns of Barrington and Starkey were either closed or impassable. \$100,000 in property damages were reported. |
| May 20, 2004 | DR-1534 | Yes | Countywide | Heavy rain caused extensive flooding on roads; water, mudslides, and debris on roads; and numerous road closures. \$30,000 in property damages were reported. |
| April 2, 2005 | N/A | N/A | Jerusalem (T), Italy (T), Penn Yan (V), Dundee (V) | Some road closures. The areas affected the most were the Town of Jerusalem, Town of Italy, Village of Penn Yan, and Village of Dundee. Several streams and creeks came out of their banks. \$100,000 in property damages were reported. |
| July 21, 2009 | N/A | N/A | Italy (T) | A culvert flooded, causing two different driveways to be washed out and covered with rock debris. This occurred at the intersection of the driveway and Sliter Hill Road at the Vagabond Inn. \$3,000 in property damages. |
| April 27, 2011 | DR-1993 | Yes | Barrington (T), Benton (T), Italy (T), Jerusalem (T), Middlesex (T), Penn Yan (V) | A total of seven towns and one village reported significant roadway damages. In most cases, the damages were related to either shoulder washouts or significant debris buildup on roadways. In one case, the road was fully washed out. Several other roads had deep, newly formed pot holes and voids. In addition to roadway damage, several cases of mass wasting and sediment transport were reported. In the Town of Middlesex, one home had soil and debris build-up as high as the door knob level. Another area along South Lake Road had the downward movement of an entire portion of a hillside with localized water damages to several homes. A voluntary evacuation was in place for the area along South Lake Road. Some of the harder-hit areas included Barrington, Benton, Italy, Jerusalem, Middlesex, and Penn Yan. \$800,000 in property damages. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|---|--|
| May 13-22, 2014 | DR-4180 | Yes | Penn Yan (V) | Radar rainfall estimates indicated that a narrow band of 4 to 5 inches of rain occurred over the central portion of Yates and Seneca Counties. This rainfall resulted in devastating flash flooding in Penn Yan where roads and buildings were destroyed by flood waters. Jacobs Brook became a raging torrent of water as it traveled into and under the center of the Village. The hardest-hit areas were in the vicinity of Elm Street and Champlin Avenue where roads buckled, parking lots caved in, and the Owl's Nest Community Center collapsed. Tractor-trailer container boxes were seen floating down the streets where they collided into the Wagner Restaurant causing significant structural damage. Foundations of several homes were washed away during the flood. Total public damages were estimated between \$10-12 million. One motorist was trapped in their vehicle and required rescue. |
| May 16, 2014 | N/A | N/A | Rushville (V), Penn Yan (V), Middlesex (T), Jerusalem (T) | A slow-moving, steady area of heavy rainfall brought 1 to 3 inches of rain to the region causing areas of flash flooding. Water was reported to be rushing into a house in the Village of Rushville. Water was running rapidly over several streets in Penn Yan. Sandbagging operations were undertaken by the local fire department. \$150,000 in property damages were reported in the Villages of Penn Yan and Rushville, and the Towns of Middlesex, and Jerusalem (Branchport). |
| July 28, 2014 | N/A | N/A | Rushville (V) | Flooding occurred across several State highways with considerable damage to the road shoulders and culverts. Numerous basements were pumped out in the Village of Rushville. \$100,000 in property damages were reported. |
| August 3, 2014 | N/A | N/A | Penn Yan (V), Jerusalem (T) | Numerous road washouts were reported in the Town of Jerusalem, Branchport (Jerusalem) and Village of Penn Yan. \$275,000 in property damages were reported. |
| June 14, 2015 | N/A | N/A | Countywide | A tropical-like air mass was in place allowing for 2-4 inches of very heavy rain to fall in a narrow band extending from near Watkins Glen to areas north of Binghamton. Severe flash flooding was encountered, and numerous roads and culverts destroyed by raging water. In some areas, homes, schools and other businesses were flooded. Cumulative damage estimates across the affected areas were about \$10 million. \$650,000 in damages were reported in Yates County. |
| July 18, 2015 | N/A | N/A | Jerusalem (T) | Heavy rain and flooding caused the closure of County Route 245 from the County line to Flint Hill Road. There were numerous reports of road flooding and closures in the Town of Jerusalem. \$75,000 in property damages were reported. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|---|
| April 20, 2017 | N/A | N/A | Countywide | An area of moderate to heavy rain with embedded thunderstorms moved through Central New York causing areas of common urban flooding and ponding of water in a few locations. \$3,000 in property damages were reported. |
| July 13, 2017 | N/A | N/A | Countywide | Flash flooding had caused debris to collect on several roads in the area. \$8,000 in property damages. |

Sources: FEMA 2017, NYS DHSES 2014, NCEI 2017, NWS 2010

Note (1): Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

- DHSES Division of Homeland Security and Emergency Services
- DPW Department of Public Works
- DR Federal Disaster Declaration
- FEMA Federal Emergency Management Agency
- HMGF Hazard Mitigation Grant Program
- mph Miles per hour
- N/A Not applicable
- NYS New York State

Harmful Algal Blooms

Known harmful algal bloom events that have impacted The State of New York and Yates County between 2015 and 2018 are identified in Table H-6. Many sources were researched for historical information regarding harmful algal bloom events in Yates County; therefore, Table H-6 may not include all harmful algal bloom events that have impacted the County.

Table H-5. Harmful Algal Bloom Events in Yates County Between 2015 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|----------------------------|-------------------------|--------------------|--|--|
| August 21-October 21, 2015 | N/A | N/A | Benton (T), Torrey (T), Milo (T), Starkey (T), Dresden (V) | Water sampling results from Seneca Lake confirmed the presence of a cyanobacteria HAB, which may produce toxins or other harmful compounds. |
| September 4-18, 2015 | N/A | N/A | Middlesex (T), Italy (T) | Water sampling results from Canandaigua Lake confirmed that toxins were present in quantities to potentially cause health effects if people or animals came in contact with the water. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-------------------------------|-------------------------|--------------------|--|--|
| September 2-23, 2016 | N/A | N/A | Benton (T), Torrey (T), Milo (T), Starkey (T), Dresden (V) | Water sampling results from Seneca Lake confirmed that toxins were present in quantities to potentially cause health effects if people or animals came in contact with the water. |
| September 9-23, 2016 | N/A | N/A | Middlesex (T), Italy (T) | Water sampling results from Canandaigua Lake confirmed the presence of a cyanobacteria HAB, which may produce toxins or other harmful compounds. |
| August 4-October 13, 2017 | N/A | N/A | Jerusalem (T), Milo (T), Penn Yan (V), Barrington (T) | Water sampling results from Keuka Lake confirmed that toxins were present in quantities to potentially cause health effects if people or animals came in contact with the water. |
| September 15-October 6, 2017 | N/A | N/A | Middlesex (T), Italy (T) | Water sampling results from Canandaigua Lake confirmed that toxins were present in quantities to potentially cause health effects if people or animals came in contact with the water. |
| September 22-October 20, 2017 | N/A | N/A | Benton (T), Torrey (T), Milo (T), Starkey (T), Dresden (V) | Water sampling results from Seneca Lake confirmed that toxins were present in quantities to potentially cause health effects if people or animals came in contact with the water. |

Sources: NYSDEC 2017

HAB Harmful Algal Bloom

N/A Not Applicable

Hazardous Materials

Known hazardous material events that have impacted The State of New York and Yates County between 2000 and 2018 are identified below. Many sources were researched for historical information regarding hazardous material events in Yates County; therefore, the summary below may not include all hazardous material events that have impacted the County.

The U.S. Department of Transportation (USDOT) Pipeline and HazMat Safety Administration (PHMSA) provides an incident report database with information on incidents throughout the United States. The data are from HazMat incident reports. According to this database, between 2000 and April 2018, seven incidents occurred in Yates County (all highway), releasing over 3,200 gallons of fuel oil, gasoline, or diesel fuel; and 210 gallons of propane (PHMSA 2018). These incidents were typically small, localized events.



The NYSDEC Spill Incidents Database lists 368 spill incidents throughout the County from January 1, 2000, through April 19, 2018 (NYSDEC 2018). US EPA maintains records of amounts of chemicals released at facilities each year through its Toxic Release Inventory (TRI) Program. In 2016, two TRI facilities in Yates County collectively contributed to 32,600 pounds of on- and off-site disposals or other releases (US EPA 2018). Yates County’s map of industrial/business sites that file Tier II Reports in compliance with SARA Title III is not included for security purposes.

Landslide

Known landslide events that have impacted The State of New York and Yates County between 1975 and 2018 are identified in Table H-7. Many sources were researched for historical information regarding landslide events in Yates County; therefore, Table H-7 may not include all landslide events that have impacted the County.

Table H-6. Landslide Events in Yates County Between 1975 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|---|
| October 2, 1975 | DR-487 | Yes | Countywide | Severe Storms, Heavy Rain, Landslides, Flooding |

Sources: NCEI 2017

Severe Storm

Known severe storm events that have impacted The State of New York and Yates County between 1954 and 2018 are identified in Table H-9. Many sources were researched for historical information regarding severe storm events in Yates County; therefore, Table H-9 may not include all severe storm events that have impacted the County.

Table H-7. Severe Storm Events in Yates County Between 1954 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|-----------------------------------|
| July 14, 1954 | N/A | N/A | Countywide | \$2.5 million in property damages |
| June 27, 1978 | N/A | N/A | Countywide | \$2.5 million in property damages |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|--|
| June 13, 1994 | N/A | N/A | Countywide | \$50,000 in property damages |
| January 27, 1996 | N/A | N/A | Countywide | There were many reports of downed trees and wires, as winds gusted over 60 mph. \$12,000 in property damages were reported. |
| May 10, 1996 | N/A | N/A | Countywide | Severe thunderstorms downed trees and wires throughout Yates County. \$10,000 in property damages were reported. |
| June 22, 1996 | N/A | N/A | Middlesex (T) | Vine Valley in the town of Middlesex in Yates County shortly after noon. There was considerable damage in this community. Several mobile homes were damaged due to fallen trees or flying debris. An outer wall of a community center, constructed of cinder block, was also blown out. The tornado was rated as F1, with a damage path of one and a half miles long, and 50 yards wide. \$75,000 in property damages were reported. |
| May 31, 1998 | N/A | N/A | Countywide | Hail as large as 3 to 4 inches in diameter accompanied some of the tornadic supercells across New York's southern tier; smashing windows, severely denting cars, and causing crop losses. New York State Electric and Gas Company estimated that hundreds of thousands of customers were without power during the height of the storms late that afternoon and evening. Some of the more remote locations did not have power restored for the better part of a week. Trees were blown down on top of cars and trailers in Vine Valley and Middlesex. \$150,000 in property damages were reported. |
| May 31, 1998 | N/A | N/A | Countywide | A severe thunderstorm moved across Yates County during the early afternoon. Trees and wires were reported down in Penn Yan. Hail as large as 3 to 4 inches in diameter accompanied some of the tornadic supercells across New York's southern tier; smashing windows, severely denting cars, and causing crop losses. New York State Electric and Gas Company estimated that hundreds of thousands of customers were without power during the height of the storms late that afternoon and evening. Some of the more remote locations did not have power restored for the better part of a week. \$15,000 in property damages were reported in the County. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|--------------------|-------------------------|--------------------|-------------------|--|
| June 2, 1998 | N/A | N/A | Countywide | Damage was fairly widespread from a combination of intense squall line and bow echo complexes as well as isolated supercells. One such supercell cut a lengthy path of wind damage over the Finger Lakes region early in the evening from western Yates County all the way through southern Cayuga County. Hail as large as golf balls was also observed with these storms. Trees were uprooted and a few utility poles were toppled in and near Penn Yan. \$10,000 in property damages were reported. |
| November 10, 1998 | N/A | N/A | Countywide | Sustained wind speeds of 25 to 35 mph were common, but gusts exceeded 50 mph at times over the higher terrain. These gusts caused trees, large branches, and utility poles to come down on a widely scattered basis. Most of the damage occurred on hilltop areas. \$10,000 in property damages were reported. |
| July 9, 1999 | N/A | N/A | Countywide | Numerous trees and powerlines downed. One tree fell on a house. \$20,000 in property damages were reported. |
| November 2, 1999 | N/A | N/A | Countywide | New York State Electric and Gas officials reported losing three major transmission lines, which knocked out power for approximately 10,000 to 15,000 central New York customers. \$33,000 in property damages were reported. |
| December 12, 2000 | N/A | N/A | Countywide | Numerous power lines and trees were brought down. Power outages were widespread. Other damage included roofs collapsed and blown off, signs were blown over, a mobile home was moved off its pad, a mobile home was flipped onto its side while being moved, a barn collapsed, a silo was damaged, and trees falling onto houses, cars, and wires. \$50,000 in property damages were reported. |
| September 19, 2003 | N/A | N/A | Countywide | Scattered reports of trees and wires down were common. Tens of thousands of electric customers were without power. A few trees and wires fell on cars and houses, and closed roads. \$50,000 in property damages were reported. |
| September 22, 2003 | N/A | N/A | Penn Yan (V) | Thunderstorm winds blew over a popup camper and several trees in the Village of Penn Yan. The camper was turned upside down. \$30,000 in property damages were reported. |
| October 15, 2003 | N/A | N/A | Countywide | Numerous trees and power lines were down area wide. A few trees fell on houses and cars. Tens of thousands of electric customers were without power. \$50,000 in property damages were reported. |
| November 13, 2003 | N/A | N/A | Countywide | Most counties had scattered trees and wires down. Tens of thousands of electric customers lost power due to wires and utility poles coming down. Wind pushed over a tractor trailer in Benton. \$20,000 in damages were reported. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-------------------|-------------------------|--------------------|--------------------------------|--|
| June 6, 2005 | N/A | N/A | Starkey (T), Barrington (T) | Thunderstorm winds downed numerous trees and wires in the towns of Barrington and Starkey. \$20,000 in property damages were reported. |
| June 13, 2005 | N/A | N/A | Countywide | Thunderstorm winds downed numerous trees, wires, and utility poles. One tree fell on a house injuring a person inside. \$50,000 in property damages were reported. |
| October 29, 2006 | N/A | N/A | Countywide | Wind gusts were measured between 45 and 55 mph during the event. Numerous trees and wires fell across the area. The storm caused \$10,000 in property damages. |
| February 18, 2011 | N/A | N/A | Countywide | High winds occurred across the region with gusts between 50 and 60 mph. Numerous trees were blown down and many customers were without power. \$30,000 in property damages were reported. |
| June 28, 2011 | N/A | N/A | Countywide | Showers and thunderstorms developed ahead of and along a cold front that pushed through the region in the afternoon. Some of the thunderstorms produced damaging wind gusts and large hail. On Keuka Lake, 12-14-foot boats were moved about 100 feet, 20 boats were tipped over and a large tree was blown down. \$20,000 in damages were reported. |
| February 24, 2012 | N/A | N/A | Penn Yan (V) | High winds, in addition to causing a measured 55 mph gust in Penn Yan, resulted in trees down in the area. One tree fell down on a house. \$15,000 in property damages were reported. |
| June 17, 2014 | N/A | N/A | Milo (T), Jerusalem (T) | Trees and lines were blown down in town and also the towns of Jerusalem and Milo. \$15,000 in property damages were reported. |
| July 3, 2014 | N/A | N/A | Countywide | Thunderstorm winds uprooted a swath of trees, causing \$10,000 in property damages. |
| July 8, 2014 | N/A | N/A | Countywide | Severe thunderstorms resulted in widespread wind damage along with several tornadoes. A tree was blown onto a car, causing \$10,000 in property damages. |

Sources: NCEI 2017; FEMA 2017

Note: Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

- ASOS Automated Surface Observing System
- E East
- EG Estimated Gusts
- FAA Federal Aviation Administration
- KT/KTS Knot(s)
- mph miles per hour



N/A Not Applicable
 S South
 SE Southeast
 W West

Transportation Accident

Known transportation accident events that have impacted The State of New York and Yates County between 1996 and 2018 are identified in Table H-10. Many sources were researched for historical information regarding transportation accident events in Yates County; therefore, Table H-10 may not include all transportation accident events that have impacted the County.

Table H-8. Transportation Accident Events in Yates County Between 1996 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|--|
| 1996 | N/A | N/A | Countywide | There were a reported five fatalities, 115 personal injuries, 365 occurrences of property damage associated with vehicle accidents in Yates County. |
| 1997 | N/A | N/A | Countywide | There were a reported four fatalities, 122 personal injuries, 366 occurrences of property damage associated with vehicle accidents in Yates County. There was also one railroad incident. |
| 1998 | N/A | N/A | Countywide | There were a reported two fatalities, 99 personal injuries, 329 occurrences of property damage associated with vehicle accidents in Yates County. |
| 1999 | N/A | N/A | Countywide | There were a reported ten fatalities, 111 personal injuries, 392 occurrences of property damage associated with vehicle accidents in Yates County. There were also two railroad incidents. |
| 2000 | N/A | N/A | Countywide | There were a reported five fatalities, 55 personal injuries, 336 occurrences of property damage associated with vehicle accidents in Yates County. |
| 2001 | N/A | N/A | Countywide | There were a reported three fatalities, 165 personal injuries, 398 occurrences of property damage associated with vehicle accidents in Yates County. |
| 2002 | N/A | N/A | Countywide | There were a reported three fatalities, 123 personal injuries, 249 occurrences of property damage associated with vehicle accidents in Yates County. |
| 2003 | N/A | N/A | Countywide | There were a reported three fatalities, 96 personal injuries, 236 occurrences of property damage associated with vehicle accidents in Yates County. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|---|
| 2004 | N/A | N/A | Countywide | There were a reported three fatalities, 96 personal injuries, 219 occurrences of property damage associated with vehicle accidents in Yates County. |
| 2005 | N/A | N/A | Countywide | There were a reported one fatalities, 86 personal injuries, 215 occurrences of property damage associated with vehicle accidents in Yates County. There were also two aircraft accidents. |
| 2006 | N/A | N/A | Countywide | There were a reported two fatalities, 90 personal injuries, 197 occurrences of property damage associated with vehicle accidents in Yates County. |
| 2007 | N/A | N/A | Countywide | There were a reported four fatalities, 89 personal injuries, 215 occurrences of property damage associated with vehicle accidents in Yates County. There was also one railroad incident. |
| 2008 | N/A | N/A | Countywide | There were a reported two fatalities, 83 personal injuries, 255 occurrences of property damage associated with vehicle accidents in Yates County. There was also one railroad incident. |
| 2009 | N/A | N/A | Countywide | There were a reported 481 vehicle accidents resulting in one fatality, 118 personal injuries, and 362 occurrences of property damage. |
| 2010 | N/A | N/A | Countywide | There were a reported 518 vehicle accidents resulting in three fatalities, 104 personal injuries, and 411 occurrences of property damage. There was also one aircraft accident. |
| 2011 | N/A | N/A | Countywide | There were a reported 465 vehicle accidents resulting in one fatality, 116 personal injuries, and 348 occurrences of property damage. |
| 2012 | N/A | N/A | Countywide | There were a reported 516 vehicle accidents resulting in six fatalities, 121 personal injuries, and 389 occurrences of property damage. |
| 2013 | N/A | N/A | Countywide | There were a reported 557 vehicle accidents resulting in two fatalities, 114 personal injuries, and 441 occurrences of property damage. |
| 2014 | N/A | N/A | Countywide | There were a reported 556 vehicle accidents resulting in four fatalities, 112 personal injuries, and 440 occurrences of property damage. There was also one railroad incident. |
| 2015 | N/A | N/A | Countywide | There were a reported 516 vehicle accidents resulting in one fatality, 87 personal injuries, and 428 occurrences of property damage. There was also one aircraft accident. |
| 2016 | N/A | N/A | Countywide | There were a reported 557 vehicle accidents resulting in one fatality, 100 personal injuries, and 456 occurrences of property damage. |

Sources: NYS DMV 2017



Note:

N/A Not Applicable

Utility Failure

Known utility failure events that have impacted The State of New York and Yates County between 1996 and 2018 are identified in Table H-11. Many sources were researched for historical information regarding utility failure events in Yates County; therefore, Table H-11 may not include all utility failure events that have impacted the County.

Table H-9. Utility Failure Events in Yates County Between 1996 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-------------------|-------------------------|--------------------|-------------------|--|
| January 27, 1996 | N/A | N/A | Countywide | There were many reports of downed trees and wires, as winds gusted over 60 mph. |
| May 10, 1996 | N/A | N/A | Countywide | Severe thunderstorms downed trees and wires throughout Yates County. |
| May 31, 1998 | N/A | N/A | Countywide | A severe thunderstorm moved across the County during the early afternoon. NYSEG estimated that hundreds of thousands of customers were without power during the height of the storm late that afternoon and evening. At some more remote locations, restoration of power did not occur for the better part of a week. In Yates County, trees and wires were reported down in Penn Yan. |
| June 2, 1998 | DR-1222 | No | Penn Yan (V) | Trees were uprooted and a few utility poles were toppled in and near Penn Yan. |
| November 10, 1998 | N/A | N/A | Countywide | Sustained wind speeds of 25 to 35 mph were common, but gusts exceeded 50 mph at times over the higher terrain. These gusts downed trees, large branches, and utility poles in widely scattered areas. |
| July 9, 1999 | N/A | N/A | Countywide | Numerous trees and powerlines downed. |
| November 2, 1999 | N/A | N/A | Countywide | NYSEG officials reported losing three major transmission lines, which knocked out power for approximately 10,000 to 15,000 central New York customers. |
| December 12, 2000 | N/A | N/A | Countywide | Numerous power lines and trees were brought down. Power outages were widespread. |



| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|--------------------|-------------------------|--------------------|--------------------------------|---|
| January 3, 2003 | EM-3173 | No | Countywide | Weight of snow combined with weight of ice from the New Year's Day storm caused power outages. At least 20,000 customers were without power at some time. |
| August 14, 2003 | EM-3186 | Yes | Countywide | A widespread power outage affected the entire northeast United States, including New York State and Yates County. Millions of people lost power during the event. |
| September 19, 2003 | N/A | N/A | Countywide | Scattered reports of trees and wires down were common. Tens of thousands of electric customers were without power. |
| October 15, 2003 | N/A | N/A | Countywide | Numerous trees and power lines were down area-wide. Tens of thousands of electric customers were without power. |
| November 13, 2003 | N/A | N/A | Countywide | Most counties, including Yates County, had scattered trees and wires down. Tens of thousands of electric customers lost power due to wires and utility poles coming down. |
| June 6, 2005 | N/A | N/A | Starkey (T), Barrington (T) | Thunderstorm winds downed numerous trees and wires in the Towns of Barrington and Starkey. |
| June 13, 2005 | N/A | N/A | Countywide | Thunderstorm winds downed numerous trees, wires, and utility poles. |
| February 18, 2011 | N/A | N/A | Countywide | High winds occurred across the region with gusts between 50 and 60 mph. Numerous trees were blown down and many customers were without power. |
| January 3, 2017 | N/A | N/A | Countywide | 911 communications systems failed and led to an outage; local fire departments were staffed during the outage. |
| August 8, 2017 | N/A | N/A | Countywide | 911 communications systems failed and led to an outage; local fire departments were staffed during the outage. |

Sources: NOAA-NCEI 2017

Note:

- DR Major Disaster Declaration (FEMA)
- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- mph Miles per hour
- NCEI National Centers for Environmental Information
- NOAA National Oceanic and Atmospheric Administration
- NYSEG New York State Gas and Electric Corporation
- N/A Not Applicable



Winter Storm

Known winter storm events that have impacted The State of New York and Yates County between 1990 and 2018, which caused at least \$1,000 in property damages, are identified in Table H-12. Many sources were researched for historical information regarding winter storm events in Yates County; therefore, Table H-12 may not include all winter storm events that have impacted the County.

Table H-10. Winter Storm Events in Yates County Between 1990 and 2018

| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|-------------------|-------------------------|--------------------|-------------------|---|
| March 3-4, 1990 | DR-898 | Yes | Countywide | Severe winter storm |
| March 13-17, 1993 | EM-3107 | Yes | Countywide | Severe blizzard |
| January 2, 1996 | N/A | N/A | Countywide | Amounts of 8 to 12 inches were widely observed, but as much as 16 inches fell across the Finger Lakes, in a band from Baldwinsville to Auburn and Dryden. \$3,000 in property damages was reported. |
| January 3, 2003 | EM-3173 | No | Countywide | Snowfall amounts were 8 to 14 inches in the central southern tier, Finger Lakes region, and northern Oneida County and 10 to 20 inches elsewhere. The weight of the snow combined with the weight of ice from the New Year's Day storm caused additional power outages. At least 20,000 customers were without power at some time. The storm caused \$300,000 in property damages across the state. |
| February 17, 2003 | EM-3184 | No | Countywide | \$25,000 in property damages was reported. |
| April 4, 2003 | DR-1467 | Yes | Countywide | During the evening of April 4th colder air spread further south into the Finger Lakes and northern Susquehanna Region. This changed moderate rain to freezing rain in these areas especially at the higher elevations. Nearby Schuyler County Emergency Manager reported an inch of ice across most of the County. Tens of thousands of electricity customers in central NYS were without power, some for up to a week. \$2 million in property damages was reported. |
| December 14, 2003 | N/A | N/A | Countywide | Across south central New York, sleet and freezing rain mixed in with snow. The snow caused numerous automobile accidents and closed schools. \$30,000 in property damages was reported. |



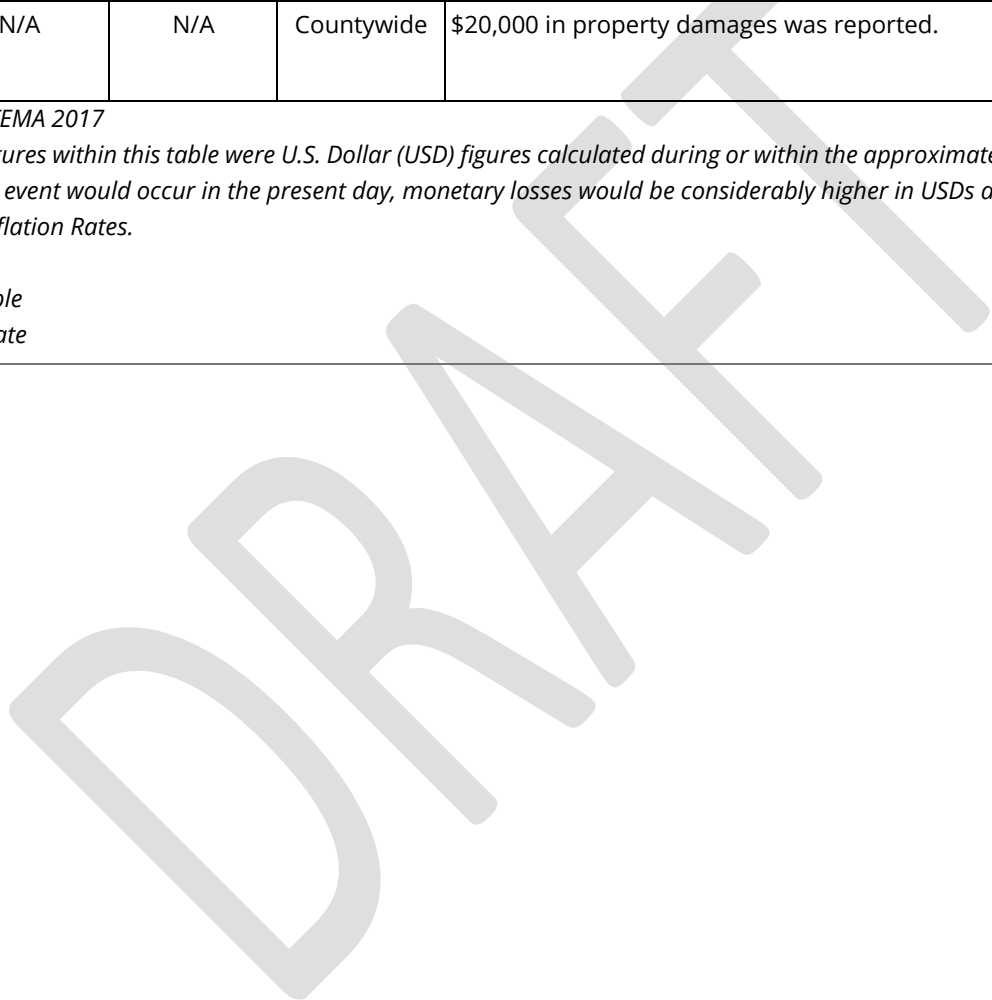
| Date(s) of Event | FEMA Declaration Number | County Designated? | Location Impacted | Losses / Impacts |
|------------------|-------------------------|--------------------|-------------------|---|
| February 3, 2004 | N/A | N/A | Countywide | Numerous accidents occurred in the afternoon and evening when people tried to return home from work. \$10,000 in property damages was reported. |
| March 16, 2004 | N/A | N/A | Countywide | \$20,000 in property damages was reported. |
| January 22, 2005 | N/A | N/A | Countywide | \$20,000 in property damages was reported. |
| March 1, 2005 | N/A | N/A | Countywide | \$20,000 in property damages was reported. |

Sources: NCEI 2017; FEMA 2017

Note: Monetary figures within this table were U.S. Dollar (USD) figures calculated during or within the approximate time of the event. If such an event would occur in the present day, monetary losses would be considerably higher in USDs as a result of increased U.S. Inflation Rates.

N/A Not Applicable

NYS New York State



**APPENDIX I: MITIGATION STRATEGY
SUPPLEMENTARY DATA**



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

2020 GOALS AND OBJECTIVES REVIEW

The goals and associated objectives for Yates County and municipalities included in the plan were developed based in part on a review of the hazard mitigation goals and objectives established in the 2023 NYS HMP, the 2020 Yates County HMP, as well as the current or expired municipal hazard mitigation plans within the county. Further, these goals were selected to be compatible with the needs and goals expressed in other available County and local community planning documents. Achievement of these goals helps to define the effectiveness of a mitigation strategy.

Table I-1 and Table I-2 summarize the goals and objectives for the 2025 HMP update, respectively. Changes to the 2020 Yates County HMP goals and objectives are indicated by italicized font.

Table I-1. 2025 Goals

| Goal Number | 2025 Goals |
|-------------|--|
| 1 | Goal 1: Reduce the likelihood and impacts of hazards on life, property, and the environment. |
| 2 | Goal 2: Protect life, property, critical infrastructure <i>and community lifelines</i> , the environment, and the economy from hazard impacts. |
| 3 | Goal 3: Educate the public, officials, and other stakeholders about the hazards they face and what can be done to mitigate hazard impacts. |
| 4 | <i>Goal 4: Reduce the risk of natural hazards for socially vulnerable populations.</i> |
| 5 | <i>Goals 5: Address long-term vulnerabilities from High Hazard Dams.</i> |

Table I-2. 2025 Objectives

| Objective Number | 2025 Objectives |
|------------------|---|
| 1 | Develop and/or update local regulations based on current information and best practices. |
| 2 | Maintain natural systems to reduce the impacts of hazards. |
| 3 | Acquire, retrofit, or relocate structures from flood-prone areas. |
| 4 | Retrofit critical infrastructure to protect against hazard impacts. |
| 5 | Enhance stormwater management infrastructure. |
| 6 | Ensure that critical facilities can continue to function during and after hazard impacts. |
| 7 | Encourage residents and business owners to insure their property against hazard impacts, including through flood insurance through the national Flood Insurance Program (NFIP). |



| Objective Number | 2025 Objectives |
|------------------|--|
| 8 | Work with legislators to develop and enact legislation that reduces long-term vulnerability to hazards. |
| 9 | Ensure that local officials attend current training on regulatory issues and best practices. |
| 10 | Provide information to individuals throughout the county on the hazards they face and what property protection measures they can take. |
| 11 | <i>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.</i> |
| 12 | <i>Ensure dam infrastructure is maintained.</i> |
| 13 | <i>Support the identification and access to funding to repair/rehabilitate/replace dams.</i> |
| 14 | <i>Ensure Emergency Action Plans are developed and updated.</i> |

MITIGATION STRATEGY WORKSHOP RESOURCES

On May 30, 2024, a Mitigation Strategy Workshop was held for all plan participants. The workshop was held in-person and was led by the contract consultant. Following the meeting, participating jurisdictions had the opportunity to work in-person with the contracting consultant. Furthermore, this meeting was supplemented by emails and phone calls between Yates County and the contract consultant, for all participants to support the development of focused problem statements based on the impacts of natural hazards in the county and their communities. These problem statements were intended to provide a detailed description of the problem area, including its impacts to the jurisdiction; past damages; loss of service; etc. An effort was made to include the street address of the property/project location, adjacent streets, water bodies, and well-known structures as well as a brief description of existing conditions (topography, terrain, hydrology) of the site. These problem statements formed a bridge between the hazard risk assessment which quantifies impacts to each community with the development of actionable mitigation strategies. Resources available at the workshop and follow up discussions included the following to assist with the identification of mitigation alternatives and the development of the mitigation strategy workshops found in Section 9 (Annexes).

1. FEMA Local Mitigation Handbook
2. Public Survey Results
3. FEMA Mitigation Action Types (Table I-3)
4. FEMA Mitigation Ideas
5. FEMA Project Useful Life Factsheet
6. Mitigation Funding Sources at the Federal, State, and Local levels (Table I-4)
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 |
| 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 |



| Mitigation Type | Description | Examples |
|----------------------------------|---|--|
| 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 |

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Potential Mitigation Funding Sources

While it is important to recognize the mitigation strategies for Yates 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 |



| Program | Description | Lead Agency | Website |
|--|--|-------------|---|
| Individual Assistance | FEMA's Individual Assistance (IA) program provides financial assistance and direct services to eligible individuals and households who have uninsured and underinsured necessary expenses and serious needs. FEMA makes these funds available after any major disaster declarations and some programs available under emergency declarations. IA supports seven types of activities through the following programs: Mass Care/Emergency Services, Individuals and Households Program, Disaster Case Management, Crisis Counseling Assistance and Training Program, Disaster Legal Services, Disaster Unemployment Assistance, and Voluntary Agency Coordination. | FEMA | https://www.fema.gov/individual-disaster-assistance |
| Public Assistance | FEMA's Public Assistance (PA) provides cost reimbursement aid to local governments (state, county, local, municipal authorities, and school districts) and certain non-profit agencies that were involved in disaster response and recovery programs or that suffered loss or damage to facilities or property used to deliver government-like services. This program is largely funded by FEMA with both local and state matching contributions required. | FEMA | https://www.fema.gov/public-assistance-local-state-tribal-and-non-profit |
| 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 |



| Program | Description | Lead Agency | Website |
|--|--|---|---|
| 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 |
| 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/ |
| Federal Highway Administration Emergency Relief | Fund for the repair or reconstruction of Federal-aid highways that have suffered serious damage as a result of (1) natural disasters or (2) catastrophic failures from an external cause | U.S. Department of Transportation (DOT) | 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 |



| Program | Description | Lead Agency | Website |
|--|---|---------------------------------|---|
| 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 |
| 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 |



| Program | Description | Lead Agency | Website |
|---|--|--|---|
| Small Business Administration Loan | Small Business Administration (SBA) provides low-interest disaster loans to homeowners, renters, business of all sizes, and most private nonprofit organizations. SBA disaster loans can be used to repair or replace the following items damaged or destroyed in a declared disaster: real estate, personal property, machinery and equipment, and inventory and business assets. | Small Business Administration (SBA) | https://www.sba.gov/funding-programs/disaster-assistance |
| Community Development Block Grant Program | Community Development Block Grants (CDBG) are federal funds intended to provide low- and moderate-income households with viable communities, including decent housing, a suitable living environment, and expanded economic opportunities. Eligible activities include community facilities and improvements, roads and infrastructure, housing rehabilitation and preservation, development activities, public services, economic development, and planning and administration. Public improvements could include flood and drainage improvements. In limited instances and during the times of "urgent need" (e.g., post-disaster) as defined by the CDBG National Objectives, CDBG funding could be used to acquire a property located in a floodplain that was severely damaged by a recent flood, demolish a structure severely damaged by an earthquake, or repair a public facility severely damaged by a hazard event. | U.S. Department of Housing and Urban Development | https://www.hudexchange.info/programs/cdbg-entitlement/ |
| Federal Transit Administration—Emergency Relief | Federal Transit Authority Emergency Relief is a grant program that funds capital projects to protect, repair, reconstruct, or replace equipment and facilities of public transportation systems. | Federal Transit Authority at the U.S. DOT | https://www.transit.dot.gov/funding/grant-programs/emergency-relief-program/emergency-relief-program |
| State, Local, and Private | | | |



| Program | Description | Lead Agency | Website |
|---|--|--|---|
| 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 |
| 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 tables below provide a list of potential personal, corporate, and government scale mitigation actions for each of the identified natural hazards in the Yates County HMP. Please note that these tables are not intended to be a comprehensive list, but rather a starting point to help identify potential actions for participating jurisdictions. This catalog of potential actions was provided to participating jurisdictions at the Mitigation Strategy Workshop.

Table I-5. Yates County Mitigation Catalog

| Personal Scale | Dam Failure 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. |



| Personal Scale | Dam Failure Corporate Scale | Government Scale |
|----------------|-----------------------------|---|
| | | <ul style="list-style-type: none">• 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 provided by dams in future land use decisions. |

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| Personal Scale | Disease Outbreak 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. |

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



| Personal Scale | Drought Corporate Scale | Government Scale |
|---|-------------------------|--|
| <ul style="list-style-type: none">• Planting “cover crops,” such as oats, wheat, and buckwheat, to prevent soil erosion.• Increase Capability:<ul style="list-style-type: none">• Practice active water conservation techniques.• Seek ways to operate wells in such a way to enhance their functional longevity and supply capability. | | <ul style="list-style-type: none">• Provide incentives to influence active water conservation techniques such as water user rate reductions.• Consider providing incentives to property owners that utilize drought resistant landscapes in the design of their homes.• Use of water buffalo tankers.• Promote well usage techniques that strive to enhance functional longevity and supply capability of private water supply wells.• Develop an ordinance to restrict the use of public water resources for non-essential usage, such as landscaping, washing cars, filling swimming pools, etc. |

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| Personal Scale | Extreme Temperature 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 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"> • None | <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 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"> • 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 the 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"> • Require minimum temperatures in housing/landlord codes • Increase Capability: <ul style="list-style-type: none"> • 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. |



| Personal Scale | Flood 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. |



| Personal Scale | Flood Corporate Scale | Government Scale |
|----------------|-----------------------|---|
| | | <ul style="list-style-type: none">• Consider increasing minimum freeboard beyond state requirements.• Continue development application reviews by County Planning Board to reduce risky development practices.• 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). |



| Personal Scale | Flood Corporate Scale | Government Scale |
|----------------|-----------------------|--|
| | | <ul style="list-style-type: none">• 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.• 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. |



| Personal Scale | Flood Corporate Scale | Government Scale |
|----------------|-----------------------|--|
| | | <ul style="list-style-type: none">• 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.• 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. |



| Personal Scale | Flood Corporate Scale | Government Scale |
|----------------|-----------------------|---|
| | | <ul style="list-style-type: none">• 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 to ensure accuracy as well as maintaining lines of communication with homeowners to make them aware of potential changes related to their property status.• 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. |



| Personal Scale | Flood Corporate Scale | Government Scale |
|----------------|-----------------------|--|
| | | <ul style="list-style-type: none">• Explore grant funding opportunities related to climate change to fund mitigation projects. |

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| Personal Scale | Harmful Algal Blooms 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"> • Comply with harmful algal bloom rules and regulations to minimize the exposure to HAB • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Form citizen action groups to promote awareness and best practices on local levels. • Increase Capability <ul style="list-style-type: none"> • Regularly check the NJ DEP HAB and Invasive Species information page for updated information. • Broaden collaborations focused on ecosystem restoration and ecosystem-based management. | <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"> • Build and maintain partnerships with government agencies, academia, and stakeholders to coordinate information sharing, and response for Invasive Species and Harmful Algal Blooms throughout the county/region. | <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"> • Create/disseminate planting guides which explain which types of plants and vegetation are safe to plant within the county. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • None • Increase Capability: <ul style="list-style-type: none"> • Work with federal/state agencies to disseminate information to local municipalities regarding HABs from the NJ DEP and US EPA • Disseminate information to the general public to educate them on HABs • Work with stakeholders to identify and expand resources for prevention and early detection of HABs • Broaden collaborations focused on ecosystem restoration and ecosystem-based management. • Build ecological restoration planning into IS management projects. |



| Personal Scale | Hazardous Materials Corporate Scale | Government Scale |
|--|---|---|
| <ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • Identify and eliminate sources of potential hazardous material spills. • Reduce exposure to the hazard: <ul style="list-style-type: none"> • Increase distance between hazardous material sites and development. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • None • Increase Capability: <ul style="list-style-type: none"> • Personal planning for potential event. | <ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • Identify and eliminate sources of potential hazardous material spills. • 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"> • Increase inspection of hazardous material facilities and transport vehicles. • Conduct training for response. | <ul style="list-style-type: none"> • Manipulate the Hazard: <ul style="list-style-type: none"> • Identify and eliminate sources of potential hazardous material spills. • Reduce exposure to the hazard: <ul style="list-style-type: none"> • Increase inspection of hazardous material facilities and transport vehicles. • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • None • Increase Capability: <ul style="list-style-type: none"> • Increase inspection of hazardous material facilities and transport vehicles. • Conduct training for response. • Public outreach. |

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| Personal Scale | Landslide 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).<ul style="list-style-type: none">• 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. |



| Personal Scale | Landslide Corporate Scale | Government Scale |
|----------------|---------------------------|---|
| | | <ul style="list-style-type: none">• Assessing vegetation in wildfire-prone areas to prevent landslides after fires (e.g. encourage plants with strong root systems).• 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. |

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| Personal Scale | Severe Storm 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"> • 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. • Increase Capability: <ul style="list-style-type: none"> • Improve awareness of impending severe weather (e.g. obtain a NOAA weather radio). • Promote 72-hour self-sufficiency. | <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. • 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 storm (e.g. obtain a NOAA weather radio). • Develop a Continuity of Operations Plan (COOP). • Monitor impending severe storm events so that you can release employees in such a manner as to not negatively impact emergency response personnel/services. | <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. • 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. • 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. • Provide NOAA weather radios to the public. • Create/Enhance "mutual aid" agreements for response to all emergencies. |



| Personal Scale | Severe Storm Corporate Scale | Government Scale |
|----------------|---------------------------------|--|
| | | <ul style="list-style-type: none">• 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 pro-active planning. |

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| Personal Scale | Transportation Accidents 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"> • None • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Utilize public transportation • Increase Capability: <ul style="list-style-type: none"> • Be aware of conditions that may cause transportation accidents | <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"> • Remove over-hanging and dead trees that have potential to fall in roadways • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Travel outside of high-trafficked times • Increase Capability: <ul style="list-style-type: none"> • Incorporate standardized trainings in standard operating procedures • Educate operators on safety protocols | <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"> • Evaluate speed limits • Increase Capability: <ul style="list-style-type: none"> • Perform traffic studies • Incorporate standardized trainings in standard operating procedures • Educate operators on safety protocols |

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| Personal Scale | Winter Storm 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 winter storm. • Be aware of inclement weather conditions and move your vehicles off the street as 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 winter storm events. • Utilize weather radios at the work place to keep your employees aware of severe weather 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 winter storm 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. |



| Personal Scale | Winter Storm Corporate Scale | Government Scale |
|--|--|--|
| | | <ul style="list-style-type: none"> • Enhance public awareness campaigns to address issues of alert and warning and actions to take during winter storm events. • Utilize the best available technology to enhance the warning systems for all winter storm events. • Coordinate winter storm warning capabilities and the dissemination of warning amongst those agencies within the planning area 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. |
| Personal Scale | Utility Failure Corporate Scale | Government Scale |
| <ul style="list-style-type: none"> • Manipulate the Hazard: | <ul style="list-style-type: none"> • Manipulate the Hazard: | <ul style="list-style-type: none"> • Manipulate the Hazard: |



| Personal Scale | Utility Failure Corporate Scale | Government Scale |
|---|---|---|
| <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"> • Purchase personal home generators • Install solar panels at homes • Have preparedness kits for power outages (candles, flashlights, solar batteries, non-perishable foods, etc.) • Increase Capability: <ul style="list-style-type: none"> • Be aware of conditions that may cause utility failures | <ul style="list-style-type: none"> • Have redundancies within the power grid • Reduce exposure to the hazard: <ul style="list-style-type: none"> • Remove trees that have potential to impact power lines • Bury power lines • Reduce vulnerability to the hazard: <ul style="list-style-type: none"> • Maintain power infrastructure to high standards • Increase Capability: <ul style="list-style-type: none"> • Utility providers to collaborate with government and customers | <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"> • Backup power for municipal facilities • Increase Capability: <ul style="list-style-type: none"> • Build strong relationships with Utility providers • Educate and public outreach about proper generator use |

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**APPENDIX J: NYS DHSES PLANNING
GUIDANCE**



This appendix includes the 2022 NYS DHSES planning standards and guidelines for hazard mitigation planning.

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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 chance 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 | Met | Not Met |
|--|-------------------------------------|------------|----------------|
| Regulation (44 CFR 201.6 Local Mitigation Plans) | (section and/or page number) | | |
| ELEMENT F. ADDITIONAL STATE REQUIREMENTS – NYS HAZARD MITIGATION PLANNING STANDARDS | | | |
| These are required actions for plans developed with NYS DHSES-administered funds. | | | |
| H1. Do jurisdictions identify critical facilities, assess vulnerabilities, and ensure protection to a 0.02% flood event or worst-case scenario? | | | |
| H2. Does the plan include an annex for every jurisdiction within the County's boundaries? | | | |
| H3. Within each jurisdictional annex, are projects developed in accordance with the NYS DHSES Proposed Projects Table? | | | |
| H4. Was the draft plan posted for public comment? | | | |
| 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> | | | |

APPENDIX K: LINKAGE PROCEDURES



This Appendix contains the linkage procedures for the Yates County Hazard Mitigation Plan.

ADMINISTRATIVE PROCESS FOR “LINKAGE” TO THE YATES COUNTY HAZARD MITIGATION PLAN

The development of the Yates County Hazard Mitigation Plan 2025 Update (the Plan) included the County and all eligible local governments within the defined planning area are included in this plan. Completed jurisdictional annexes are presented in Volume II. Any non-participating local jurisdictions such as Fire Districts, Utility Districts, School Districts, and any other eligible local government as defined in 44 CFR 201.2 within the Yates County planning area can join this plan as a participating jurisdiction and to ultimately achieve approved status by following the linkage procedures defined in this appendix.

It is assumed that some or all these local jurisdictions may choose to "link" to the Plan at some point in time to gain eligibility for programs under the DMA. In addition, some of the current partnership may not continue to meet eligibility requirements due to the lack of active participation as prescribed by the plan. These "linkage" procedures will define the requirements established by the Yates County HMP Steering Committee and all planning partners for dealing with the increase or decrease in planning partners linked to this plan. It should be noted that currently non-participating jurisdictions within the defined planning area are not obligated to link to this plan. These jurisdictions can choose to do their own "complete" plan that addresses all required elements of section 201.6 of 44CFR.

Increasing the Partnership Through Linkage

Eligibility

Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period. Eligible jurisdictions located in the planning area may link to this plan at any point during the plan's performance period (5 years after final approval). Eligibility will be determined by the following factors:

- The linking jurisdiction is a local government as defined by the Disaster Mitigation Act.
- The boundaries or service area of the linking jurisdiction is completely contained within the boundaries of the planning area established during the 2025 hazard mitigation plan development process.
- The linking jurisdiction's critical facilities were included in the critical facility and infrastructure risk assessment completed during the 2025 plan development process.



Requirements

It is expected that linking jurisdictions will complete the requirements outlined below and submit their completed template to the lead agency Yates County Office of Emergency Services for review within six months of beginning the linkage process:

1. The Yates County Hazard HMP Steering Committee has established an annual window for which linkage to the plan can occur. Linking jurisdictions are instructed to complete the following procedures during this time frame.
2. The current non-participating jurisdiction contacts the Yates County HMP Coordinator for the Plan and requests a "Linkage Package". The Yates County HMP Coordinator is:

Diane DiFabio, Deputy Director
Yates County Emergency Services
939 Route 14A,
Penn Yan, NY 14527
(315) 536-3000
dcaves@yatescounty.org

3. The Yates County HMP Coordinator will provide a linkage package that includes:
 - Copy of Volume I and II of the Plan (CDROM).
 - Planning Partner's Expectations Sheet.
 - A Sample "Letter of Intent" to Link to the Plan.
 - A Jurisdictional Template and Instructions.
 - Catalog of Hazard Mitigation Alternatives or the Mitigation Catalog.
 - A copy of Section 201.6 of Chapter 44, the Code of Federal Regulations (44CFR), which defines the federal requirements for a local hazard mitigation plan.
4. The new jurisdiction will be required to review both volumes of the Plan which includes the following key components for the planning area:
 - The Yates County risk assessment;
 - The plan's goals and objectives;
 - Plan implementation and maintenance procedures;
 - Catalog of potential mitigation actions; and
 - County-wide initiatives.

Once this review is complete, the jurisdiction will complete its specific jurisdictional annex by following the template and its instructions for completion provided by the Yates County HMP



Coordinator. Technical assistance can be provided upon request by completing the request for technical assistance (TA) form provided in the linkage package. This TA may be provided by the Yates County HMP Coordinator or any other resource within the Planning Partnership such as a member of the HMP Steering Committee or a currently participating jurisdiction. The Yates County HMP Coordinator will determine who will provide the TA and the possible level of TA based on resources available at the time of the request.

5. The new jurisdiction will also be required to develop a public involvement strategy that ensures their public's ability to participate in the plan development process. At a minimum, the new jurisdiction must make an attempt to solicit public opinion on hazard mitigation at the onset of this linkage process and a minimum of one public meeting to present their draft jurisdiction specific annex for comment, prior to adoption by the governing body. The Planning Partnership will have available resources to aid in the public involvement strategy such as the Plan website. However, it will be the new jurisdiction's responsibility to implement and document this strategy for incorporation into their annex.

It should be noted that the Jurisdictional Annex templates do not include a section for the description of the public process. This is because the original partnership was covered under a uniform public involvement strategy that covered the operational area that is described in Volume I of the plan. Since the new partner was not addressed by that strategy, they will have to initiate a new strategy, and add a description of that strategy to their annex. For consistency, new partners are encouraged to follow the public involvement format utilized by the initial planning effort as described in Volume I of the Plan.

6. Once their public involvement strategy is completed and they have completed their template, the new jurisdiction will submit the completed package to the Yates County HMP Coordinator for a pre-adoption review to ensure conformance with the regional plan format.
7. The Yates County HMP Coordinator will review for the following:
 - Documentation of public involvement and mitigation action development strategies;
 - Conformance of template entries with guidelines outlined in instructions;
 - Chosen actions are consistent with goals, objectives, and mitigation catalog of Yates County Hazard Mitigation Plan; and
 - Designated point of contact.

The Yates County HMP Coordinator may utilize members of the HMP Steering Committee or other resources to complete this review. All proposed linked annexes will be submitted to the HMP Planning Committee for their review and comment prior to submittal to the New York State Division of Homeland Security and Emergency Services (NYS DHSES).



8. Plans approved and accepted by the HMP Steering Committee will then be forwarded to NYS DHSES for review with cover letter stating the forwarded plan meets local approved plan standards and whether the plan is submitted with local adoption or for criteria met/plan not adopted review.
9. NYS DHSES will review plans for state and federal compliance. Non-compliant plans are returned to the jurisdiction for correction. Compliant plans are forwarded to FEMA Region II office for review with annotation as to the adoption status.
10. FEMA Region II reviews the new jurisdiction's plan in association with the approved plan to ensure DMA compliance. Region II notifies new jurisdiction of results of review with copies to NYS DHSES and approved planning authority.
11. New jurisdiction corrects plan's shortfalls (if necessary) and resubmits to NYS DHSES through the approved plan lead agency.
12. For plans with no shortfalls that have not been adopted from the Region II review or outstanding corrected shortfalls, the new jurisdiction governing authority adopts the plan (if not already accomplished) and forwards adoption resolution to Region II with copies to lead agency and NYS DHSES.
13. Region II Director notifies new jurisdiction governing authority of plan approval.

The new jurisdiction plan is then included with the Yates County HMP, and the linking jurisdiction is committed to participate in the ongoing plan implementation and maintenance identified in Volume I of the HMP.

APPENDIX L: DAM SUPPLEMENT

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This section contains information and details to support information provided in Chapter 3 (County Profile) and Chapter 6 (Dam Failure), which provide the distribution of dams located within Yates County and its municipalities, along with potential impacts of high hazard dams as discussed in the Emergency Action Plans (EAP) for those dams. Due to the sensitive nature of this information, details have been redacted. Contact the HMP Coordinator, Diane DiFabio, Office of Emergency Services at dcaves@yatescounty.org for more information.

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