February 22, 2024 Yates County – Planning Partnership
10 a.m. – 11 a.m. EST

Attendees	• 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	- In-Kind Tracking - Schedule - Progress Report - Public/Stakeholder Outreach - RA Overview - Questions/Next Steps
In-Kind Tracker Schedule Progress Report	- 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. Planning partnership meetings will continue to be open to the public. Municipal worksheets needed: - Hazard Event History - NFIP Questionnaire - Building Permits - Problem areas - New Development - Status of 2019 mitigation actions

RA Overview	- Dam Failure: preliminary ranking – **Low**
	  ○ One HHD.
	- Extreme Temperature: Preliminary ranking – **Medium**
	  ○ Entire county is exposed.
	  ○ 3 USDA declarations.
	- Disease Outbreak: Preliminary Ranking – **Medium**
	  ○ Qualitative assessment
	  ○ Factored in vulnerable populations.

	○ Entire county is exposed. ○ Influenza, West Nile, Lyme Disease, COVID, etc. - HazMat: preliminary ranking – **Medium** - Man-made hazard. ○ 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** ○ Assessed population and buildings located in the moderate landslide susceptibility area = 6% of population, 4.4% of buildings. - Severe Winter Storm: Preliminary Ranking – **Medium** ○ Entire population and buildings are exposed in the County. ○ 13 winter weather events since 2018-2023. - Transportation Accidents: Preliminary ranking – **Medium** ○ 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. ○ 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** ○ 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. ○ Factored in power and utility outages, history of occurrence NOAA_NCEI database. ○ 9 FEMA disaster declarations since 1954. - Flood: Preliminary Ranking – **Medium** ○ 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.
Questions	Paul M: Does the dams include the man-made lakes? Concern for stormwater flooding as well. Heather A.: we looked at what was reported on NYS dm list. Feel free to change flooding ranking based on your stormwater flooding concerns.
Next Steps	- **SWOO link will be sent out for review of the hazards of concern.**

	- **Tetra Tech planners will follow up with worksheets needed and online forms.** -


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

TETRA TECH

Jurisdiction: _____

Name: _____ Title: _____

Date	Start Time	End Time	# hours	Task Description	Hourly Rate	Total *# hours x rate*	Comments *describe task in more detail*
					$		

Scan the UR code for the online form to enter your time.

-or-
https://www.surveymonkey.com/r/YatesHMPInKind

3

Project Schedule

TETRA TECH

- **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)**

4

Public and Stakeholder Outreach

TETRA TECH

- 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

5

Municipal Worksheets

TETRA TECH

- 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

6

Worksheet Status

TETRA TECH

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

7

Risk Assessment Overview

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

8

Hazards of Concern (2024 HMP)

TETRA TECH

- Dam Failure
- Disease Outbreak
- Drought
- Extreme Temperature
- Flood
- Harmful Algal Bloom
- Hazardous Materials
- Landslide
- Severe Storm
- Severe Winter Storm
- Transportation Accidents

9

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

10

Conducting a Risk Assessment

TETRA TECH

Identify Hazards

Describe Hazards

Identify Community Assets

Analyze Impacts

Summarize Vulnerability

11

Preliminary Risk Assessment Results

12

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

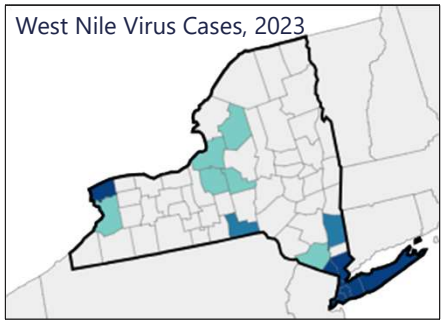
Preliminary Hazard Ranking
MEDIUM

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

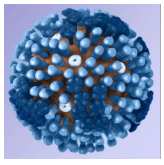
Hazard Types
- Influenza
- West Nile Virus
- Lyme Disease
- Coronavirus

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



14

Drought

Preliminary Hazard Ranking
MEDIUM

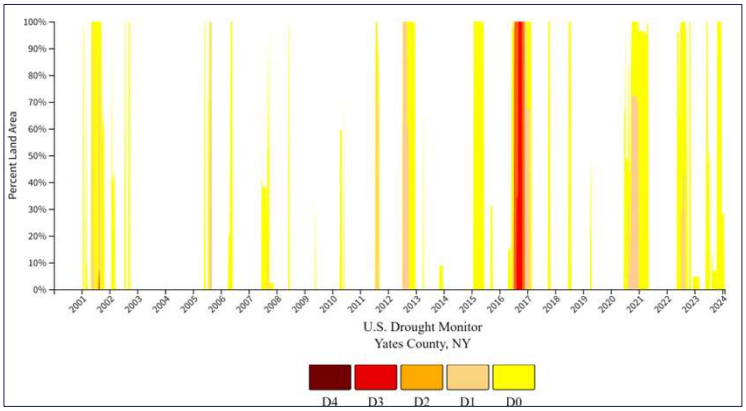
Droughts can affect Yates County's industries and make day to day tasks more difficult to complete when water usage must be monitored.

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



15

Extreme Temperature

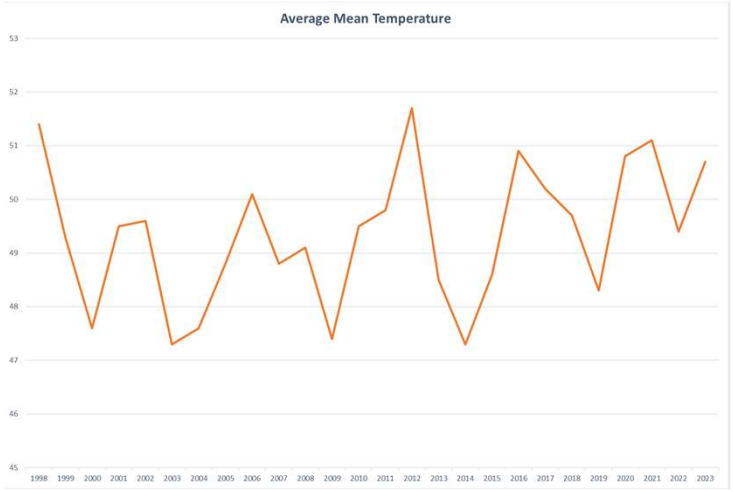
Preliminary Hazard Ranking
MEDIUM

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



16

Flood

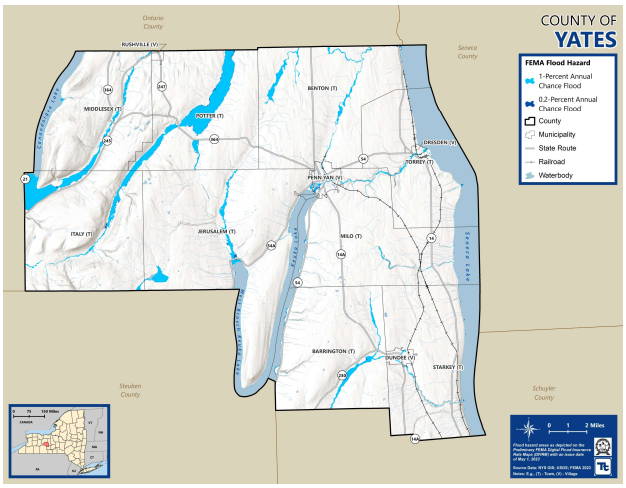
Preliminary Hazard Ranking
MEDIUM

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

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)

17

Harmful Algal Bloom

Preliminary Hazard Ranking
MEDIUM

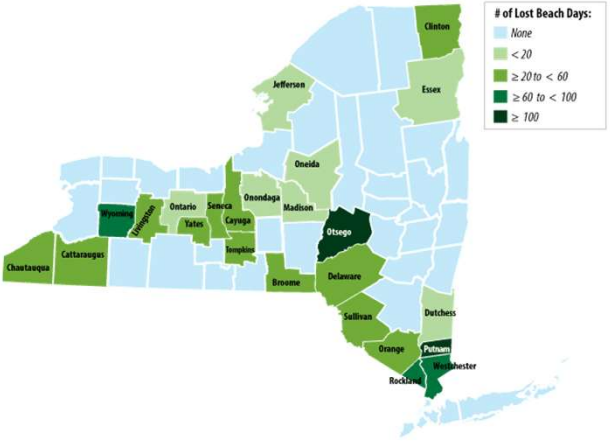
Harmful algal blooms (HABs) in freshwater (lakes, ponds, rivers, and streams) generally consist of visible patches of cyanobacteria, also called blue-green algae. Several types of cyanobacteria can produce toxins and other harmful compounds that can pose health risks to people and animals through ingestion,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



18

Hazardous Materials

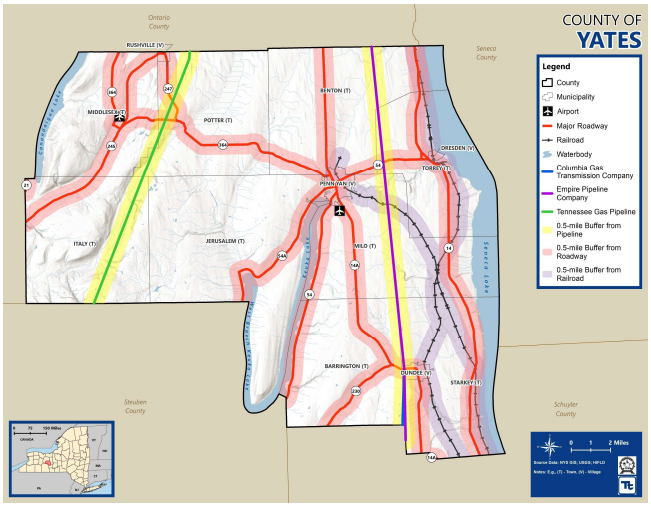
Preliminary Hazard Ranking
MEDIUM

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



19

Landslides

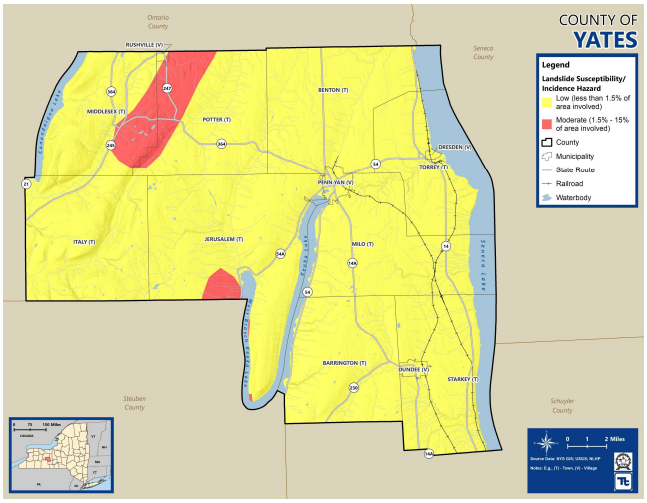
Preliminary Hazard Ranking
LOW

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



20

Severe Weather

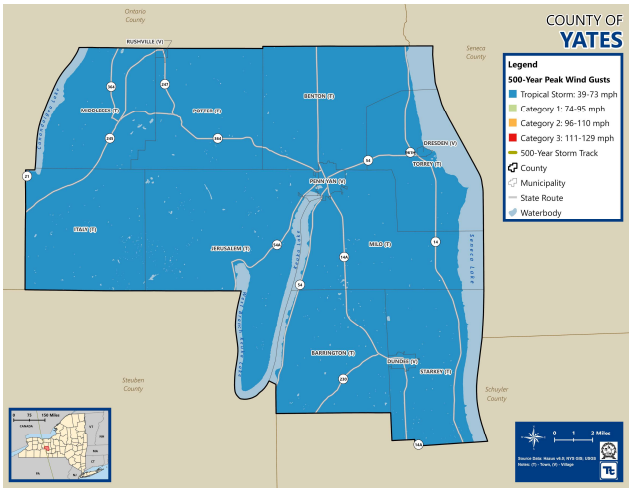
Preliminary Hazard Ranking
MEDIUM

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)

21

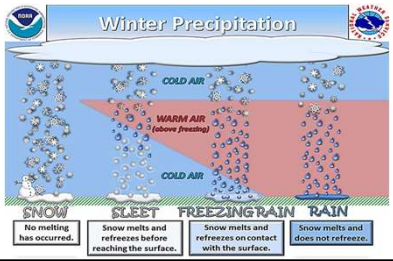
Severe Winter Weather

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

General Building Stock and Critical Facilities Exposed
22,096
(100%)
The entire County is exposed and vulnerable; however structural impacts are minimal.



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)

Hazard Types
- Heavy Snow
- Blizzard
- Sleet
- Ice Storm

22

Transportation Accidents

Preliminary Hazard Ranking
LOW

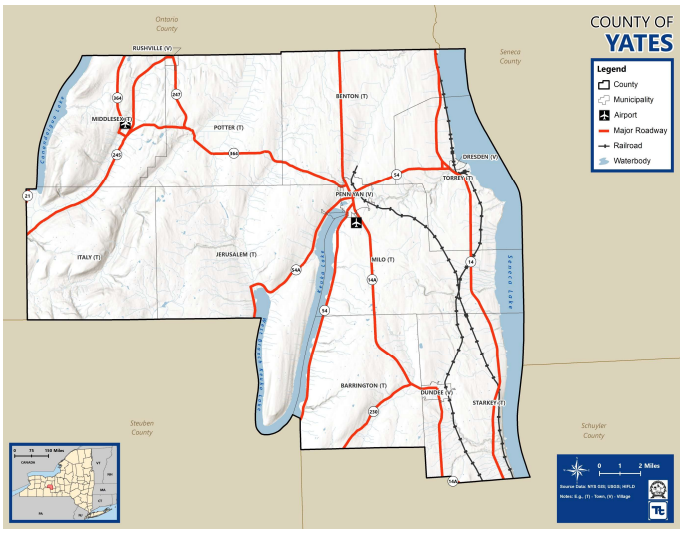
Transportation accidents include, vehicular accidents, aviation accidents, railway accidents, and hazardous materials in transit.

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.



23

Preliminary Hazard Ranking Methodology

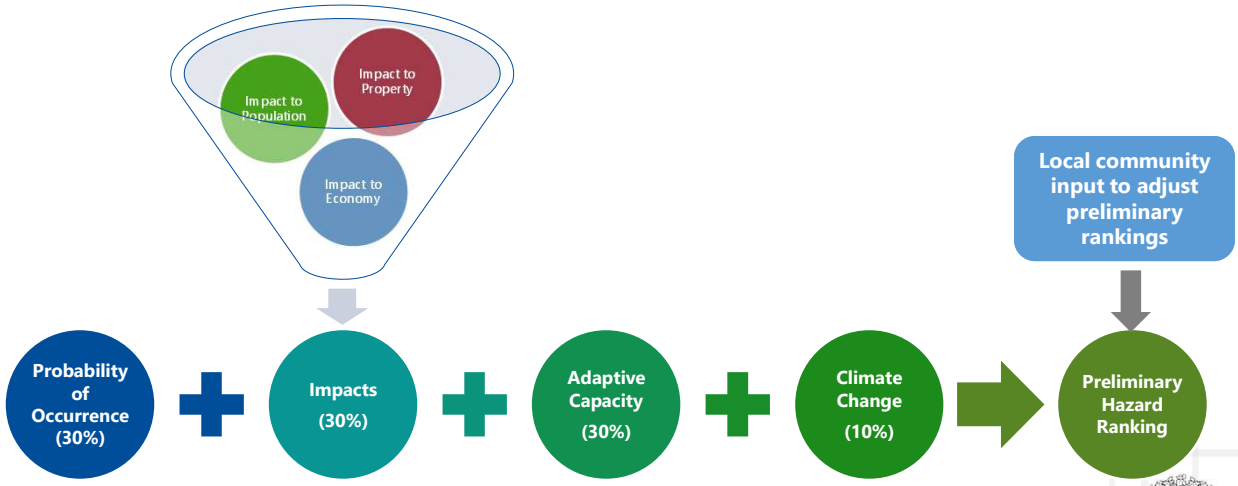
TETRA TECH

- 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.

24

Preliminary Hazard Ranking Formula

TETRA TECH

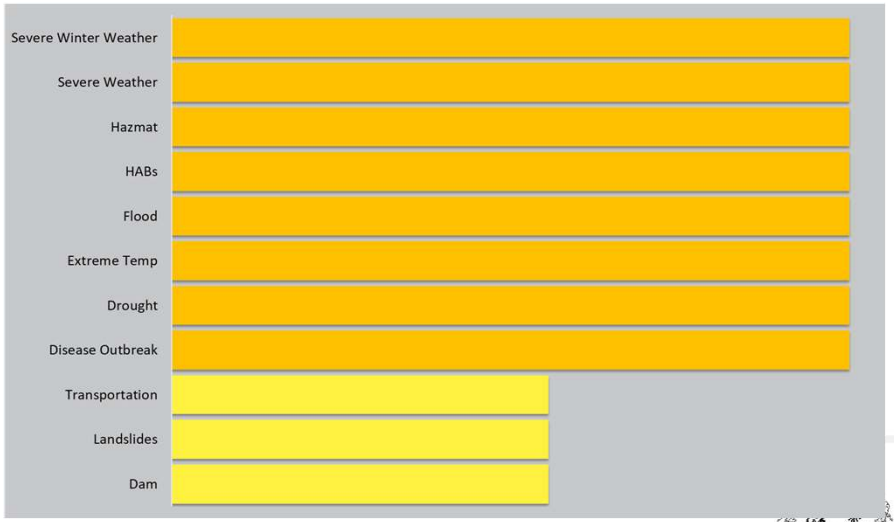


25

Hazard Ranking (Countywide)

TETRA TECH

- **Medium**
  - Severe Winter Weather
  - Severe Weather
  - Hazmat
  - HABs
  - Flood
  - Extreme Temp
  - Drought
  - Disease Outbreak
- **Low**
  - Transportation
  - Landslides
  - Dam Failure



26

Preliminary Hazard Ranking (Municipal)

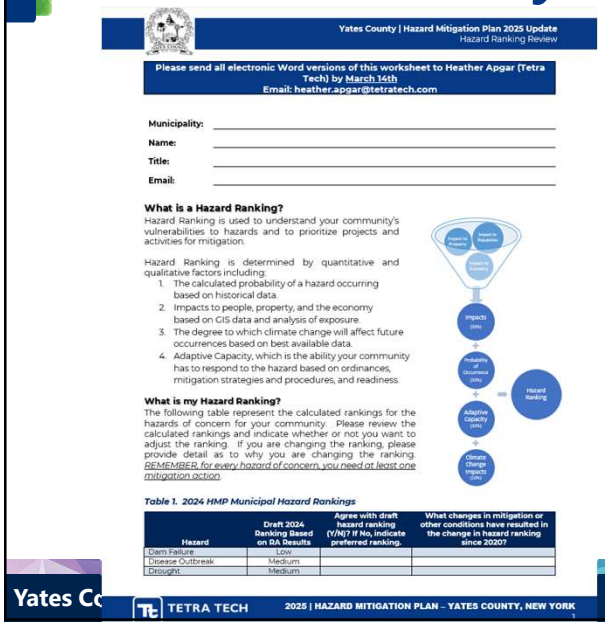
TETRA TECH

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**

27

Review Preliminary Ranking

TETRA TECH



Yates County | Hazard Mitigation Plan 2025 Update
Hazard Ranking Review

Please send all electronic Word versions of this worksheet to Heather Apgar (Tetra Tech) by March 14th
Email: heather.apgar@tetratech.com

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

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

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

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

Table 1. 2024 HMP Municipal Hazard 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 2020?
Dam Failure	Low		
Disease Outbreak	Medium		
Drought	Medium		

TETRA TECH 2025 | HAZARD MITIGATION PLAN – YATES COUNTY, NEW YORK 1

Yates County | Hazard Mitigation Plan 2025 Update
Hazard Ranking Review

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 2020?
Extreme Temperature	Medium		
Flood	Medium		
HABs	Medium		
Hazmat	Medium		
Landslides	Low		
Severe Weather	Medium		
Severe Winter Weather	Medium		
Transportation	Low		
Utility Failure	Medium		

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

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

Table 2. 2023 HMP Municipal 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	
Extreme Temperature	Moderate	
Flood	Moderate	
HABs	Moderate	
Hazmat	Strong	
Landslides	Moderate	
Severe Weather	Moderate	
Severe Winter Weather	Moderate	
Transportation	Moderate	
Utility Failure	Moderate	

TETRA TECH 2025 | HAZARD MITIGATION PLAN – YATES COUNTY, NEW YORK 2

28

Review Preliminary Rankings

TETRA TECH

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	

29

Review Preliminary Adaptive Capacity

TETRA TECH

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	

30

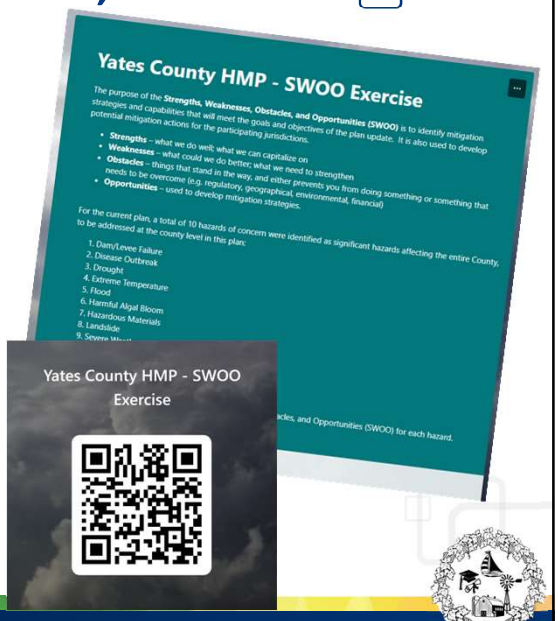
Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

31

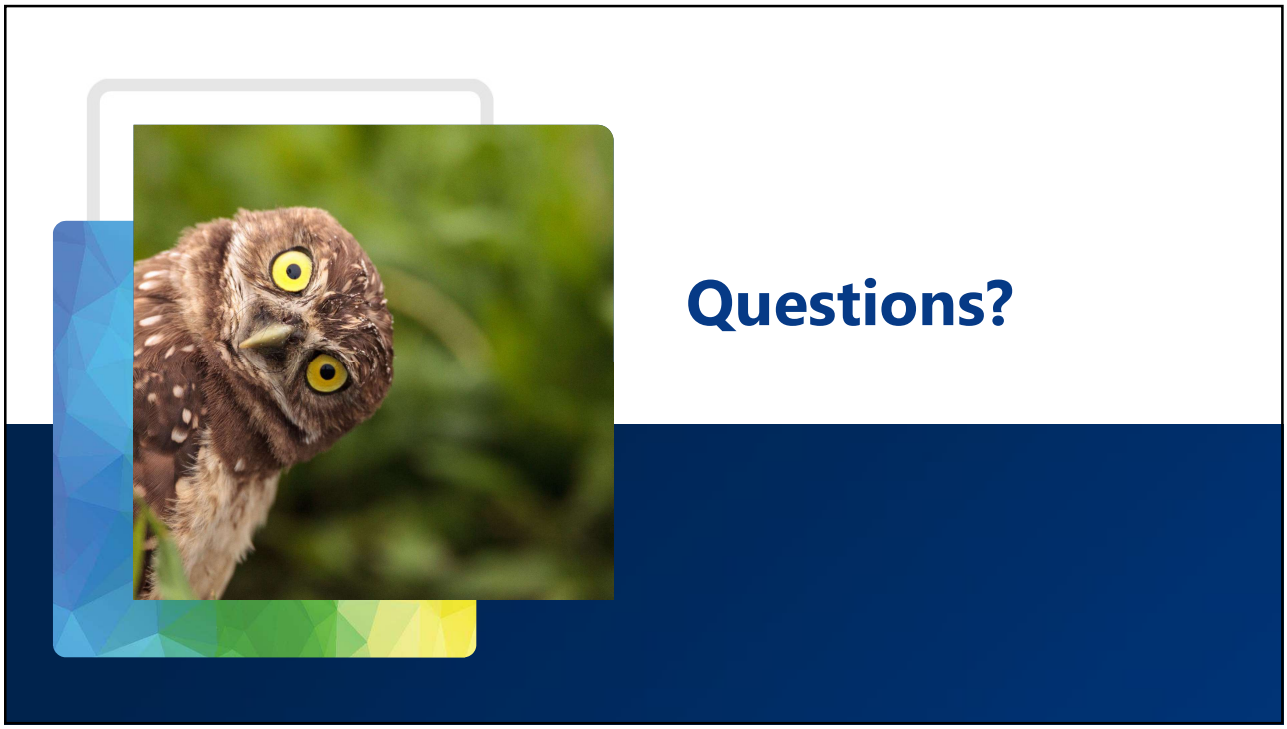
Strengths, Weaknesses, Obstacles, and Opportunities (SWOO)

TETRA TECH

- 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.



32


Questions?

33


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@tetratech.com
Thank You!

34