

DRAFT

Appendix E

Stakeholder and Public Outreach Documentation

Q1 Energy Resiliency Study: Via an Energy Resiliency Study: Elevate, harden, or relocate electric facilities (substations) that are vulnerable to flooding. Explore opportunities to implement microgrids and/or distributed renewable energy systems in strategic areas to ensure power is available to support critical services during emergencies and power outages. Identify areas where transmission infrastructure is at or nearing capacity and upgrade to enable the interconnection of distributed renewable energy generation.

Answered: 5 Skipped: 0

3.8 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00% 1	0.00% 0	20.00% 1	0.00% 0	60.00% 3	5	3.80

Q2 Communications and Broadband Resiliency Study: Conduct a detailed communications and broadband resiliency study. The purposes of this study are to: Identify critical communications infrastructure vulnerable to flooding and upgrade or relocate. Consider microgrids to provide reliable access to power when the grid is down. Evaluate the potential for back-up communications systems (e.g., line-of-site technologies, such as microwave link) to provide critical communications connectivity if the broader system is disrupted.

Answered: 5 Skipped: 0

4.2 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00%	0.00%	0.00%	0.00%	80.00%	5	4.20
	1	0	0	0	4		

Q3 Purchase First Street Foundation's Flood Factor Data: With this software, the County can provide property-level data quantifying flood risks and projections of flood hazards 30 years into the future. The County may host municipal training and incorporate the dataset into the County's decision-making process, among any other related actions.

Answered: 5 Skipped: 0

2.6 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00%	0.00%	80.00%	0.00%	0.00%	5	2.60
	1	0	4	0	0		

Q4 County-wide Culvert Analysis and Upgrades: The County can proactively identify culverts for replacement or repair that are undersized for current and future climate conditions – thus posing the greatest risk for failure – and prioritize these culverts for right-sizing based on future precipitation models.

Answered: 5 Skipped: 0

3.6 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	20.00% 1	40.00% 2	0.00% 0	40.00% 2	5	3.60

Q5 County-wide Transportation Vulnerability Assessment: This analysis would assess roads, transit routes and stops, bridges, and other transportation assets to quantify climate-related risks and identify and prioritize infrastructure improvements based on risk exposure and the criticality of each asset to the county-wide transportation network.

Answered: 5 Skipped: 0

4.0 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	40.00% 2	20.00% 1	40.00% 2	5	4.00

Q6 Increase Resilience at Municipal Facilities: Assess municipal buildings (County owned) and properties for resilient retrofit opportunities and resilient site improvements: add facilities list that are in floodplains.

Answered: 5 Skipped: 0

3.4★

average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00%	0.00%	20.00%	40.00%	20.00%	5	3.40
	1	0	1	2	1		

Q7 Build out the Network of Rain and Stream Gauges: An expanded network of rain and stream gauges can provide real-time information about rainfall and stream conditions in the county and can be used to provide advance-warning to residents about potential flash flood events. Data collected from the network can also help municipalities understand how climate change is impacting their communities, model future flooding events, and make more informed decisions about future land use and development.

Answered: 5 Skipped: 0

3.0 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00%	0.00%	40.00%	40.00%	0.00%	5	3.00
	1	0	2	2	0		

Q8 Recommendations in the County Agricultural and Farmland Protection Plan: Encourage and/or incentivize towns to adopt policies to reduce loss of large blocks of Prime and Productive soils as well as soils of statewide importance Improve participation in existing farmland conservation programs. Create a Critical Farm Program. Create a county-wide lease of development rights program. Provide land transition options for retiring farmers. Support the development of a regional information exchange and disaster preparedness program. Recognize and support infrastructure and businesses that are critical to supporting local agriculture. Expand agriculture-related workforce and development opportunities.

Answered: 4 Skipped: 1

3.5 
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	25.00% 1	25.00% 1	25.00% 1	25.00% 1	4	3.50

Q9 Create an Agricultural Resiliency Program: Create a program that will provide assistance to farmers in proactively preparing for and recovering from climate events, and in adopting practices that will help make their farms and operations more resilient.

Answered: 4 Skipped: 1

3.3 ★

average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	25.00% 1	50.00% 2	0.00% 0	25.00% 1	4	3.25

Q10 Increase Resilience to Extreme Temperature Events: Provide financial support to expand the capacity of existing facilities to serve as cooling and warming centers. Identify and define criteria for new locations of cooling and warming centers. Provide financial assistance to increase resilience of individual households. Provide financial assistance to increase resilience of multi-family households. Invest in public space improvements that increase access to parks, expand the urban forest, and encourage community gathering. Plan for transportation to and from cooling and warming centers. Improve communication of heat and cold advisories in targeted neighborhoods. Train local volunteers and community leaders.

Answered: 4 Skipped: 1

3.0 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	25.00%	25.00%	0.00%	25.00%	25.00%	4	3.00
	1	1	0	1	1		

Q11 Resilient Homes Program: A “Resilient Homes Program” can provide educational, technical, and financial resources to assist home and property owners in implementing strategies to improve climate resilience, like installing green infrastructure and using sustainable building retrofitting techniques to mitigate flood and heat risks.

Answered: 4 Skipped: 1

2.8 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	25.00%	25.00%	25.00%	0.00%	25.00%	4	2.75
	1	1	1	0	1		

Q12 County-wide Open Space Plan: Develop a County-wide Open Space Plan that would identify existing open space areas to preserve and strategic parcels that could be acquired to create open space in high-value areas, including around drinking water sources, in flood-prone areas, and in highly urbanized watersheds.

Answered: 4 Skipped: 1

3.3 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	50.00% 2	0.00% 0	25.00% 1	25.00% 1	4	3.25

Q13 Sea Level Rise Resilience Planning: Resilience plans should be developed for the Albany County Water Purification District's North and South Wastewater Treatment Plants (WWTPs) to identify and implement mitigation measures that address the challenges presented by sea level rise and enable these facilities to continue functioning effectively even under conditions of higher Hudson River levels and more extreme storm events.

Answered: 4 Skipped: 1

2.3 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	50.00% 2	25.00% 1	0.00% 0	0.00% 0	25.00% 1	4	2.25

Q14 Climate Justice Corps Network: Create a youth-based Climate Justice Corps and workforce development program for supporting and implementing climate-smart resiliency strategies, like green infrastructure, tree planting, and sustainable building techniques. This Climate Justice Corps could be a county-wide network with local groups in participating communities and neighborhoods.

Answered: 4 Skipped: 1

2.5 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	25.00% 1	25.00% 1	25.00% 1	25.00% 1	0.00% 0	4	2.50

Q15 Support Municipal Participation in FEMA's CRS Program: Encourage municipal participation in FEMA's Community Rating System (CRS) program by providing technical assistance to help interested municipalities apply for, maintain, and advance their participation in CRS. The CRS program is a voluntary, incentive-based program that recognizes, encourages, and rewards local floodplain management activities that exceed the minimum standards of the National Flood Insurance Program (NFIP).

Answered: 4 Skipped: 1

3.0 
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	25.00% 1	0.00% 0	25.00% 1	50.00% 2	0.00% 0	4	3.00

Q16 Increase County Capacity to Support Resilience Efforts: Create a Director of Sustainability position Review County processes and policies for opportunities to incorporate resilience Establish a Capital Region Sustainability Council Share climate risk assessment data across departments Use this data to inform design of future capital projects. Planning scenario activities Support municipalities in obtaining funding for climate resilience Host an annual climate change conference Create a new Department or expand existing Departments to focus on building resilience. Offer permit review, planning, and other shared services to municipalities. Provide climate resilience trainings for municipalities, community groups, and other interested entities. Implement an ongoing public outreach campaign. Set policy goals, develop strategies to achieve these goals, and identify key investments.

Answered: 5 Skipped: 0

2.6 ★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	20.00% 1	20.00% 1	40.00% 2	20.00% 1	0.00% 0	5	2.60

Q17 Address problems caused by overtopping of the CR 404 causeway at Basic Creek Reservoir: Develop a plan to mitigate and minimize traffic impacts and resulting emergency response risks.

Answered: 5 Skipped: 0

4.0★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	40.00% 2	20.00% 1	40.00% 2	5	4.00

Q18 Resolve flooding and obstruction of culvert pipes at the CR405 crossing of Eightmile Creek: Determine the best approach for culvert repair or replacement.

Answered: 5 Skipped: 0

4.0★
average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	40.00% 2	20.00% 1	40.00% 2	5	4.00

Q19 Address repeated flooding and erosion in valley of Fox Creek along CR 352: Develop a solution to remedy the worst property loss and prevent risk to life/safety.

Answered: 5 Skipped: 0

3.6★

average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	60.00% 3	20.00% 1	20.00% 1	5	3.60

Q20 Address repeated flooding of private property resulting from partial obstruction of the culvert crossing at CR55 over the Vloman Kill:
Determine the best plan to remove obstruction of the easternmost of three culvert barrels.

Answered: 5 Skipped: 0

3.6★

average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	60.00% 3	20.00% 1	20.00% 1	5	3.60

Q21 Address possible failure of a critical scour-vulnerable bridge:
Determine the best alternative for bridge repair or replacement. Connected
with Plank Road project.

Answered: 5 Skipped: 0

3.8★

average rating



	LOW PRIORITY	(NO LABEL)	MEDIUM	(NO LABEL)	HIGH PRIORITY	TOTAL	WEIGHTED AVERAGE
☆	0.00% 0	0.00% 0	60.00% 3	0.00% 0	40.00% 2	5	3.80



Albany County Hazard Mitigation Plan – 2024 Update

Agenda

1. Hazard Mitigation Planning
Overview
2. Albany HMP Planning
Process and Assessment
3. Mitigation Actions
4. Next Steps



Background: Hazard Mitigation Planning

What is Hazard Mitigation?

Hazard mitigation reduces the risk that natural hazards pose to critical community assets. It focuses on long-term risk reduction, and can occur at any phase of the emergency management cycle.



Hazard Mitigation Planning

The Disaster Mitigation Act of 2000 requires state, local, tribal and territorial governments to have a FEMA-approved mitigation plan in order to be eligible for mitigation project funding:

- Updates every 5 years
- Follow the updated FEMA and NYS DHSES standards



Albany County is updating its
2018 Multi-Jurisdictional Hazard Mitigation Plan.

Hazard Mitigation Plan Update

Plan Components:

- Planning Process
- County Profile
- Hazard Profiles
- Risk Assessment
- Hazard Vulnerability Assessment
- Mitigation Goals and Strategies
- Plan Implementation, Monitoring, and Maintenance
- Jurisdictional Annex for each municipality

Ties to Funding

By participating in and adopting the HMP, each community may be eligible for funding to reduce disaster losses and protect from future disaster damages through FEMA-sponsored programs.

Having actions in the plan also increases likelihood of funding through non-FEMA grant programs.

In 2022, the Village of Pulaski, NY received \$1,000,000 for stormwater flooding improvements through a Pre-Disaster Mitigation Grant!

Mitigation Strategies



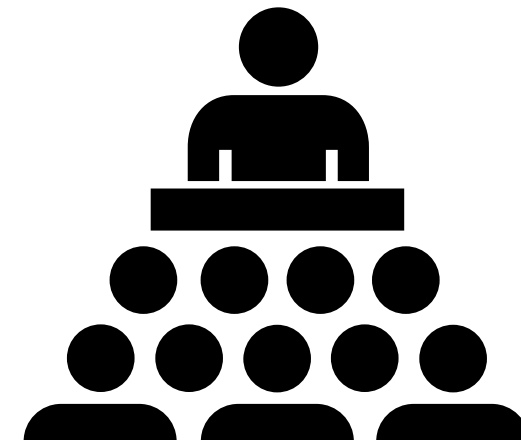
Local Plans and Regulations



Structure and Infrastructure



Natural Systems Protection



Education and Awareness

Albany HMP Planning Process and Assessment

2023 Planning Participants

Executive Steering Committee

The Executive Steering Committee will take the lead on the development of the Hazard Mitigation Plan update for Albany County. The Executive Steering Committee is composed of staff from several county departments. The Executive Steering Committee will meet regularly during the hazard mitigation planning process.

Key Stakeholders

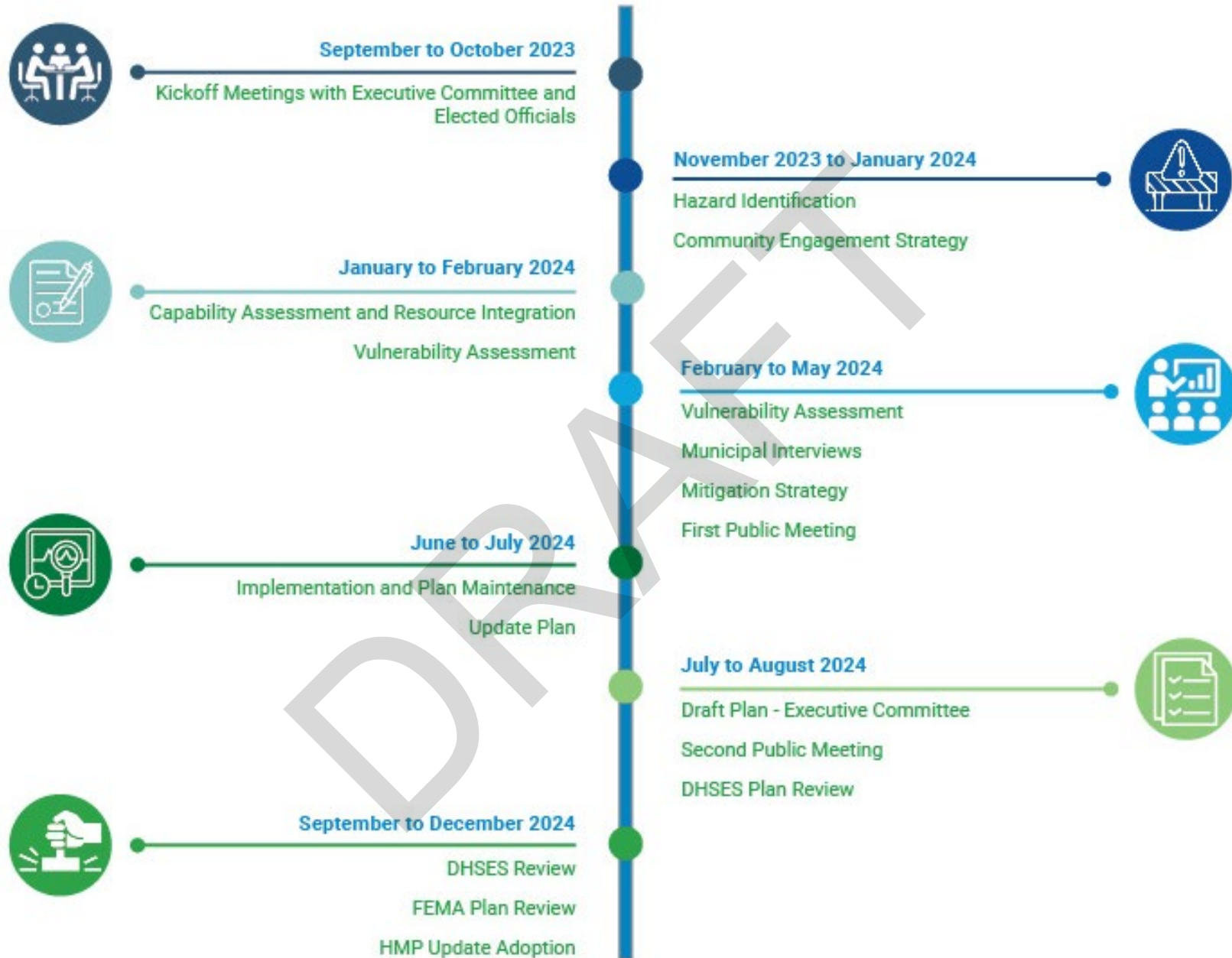
The Key Stakeholders group serves in an advisory capacity during the development of Albany County's Hazard Mitigation Plan update. The group is composed of various members of the community and adjacent governments. The Key Stakeholders will be included on a database of contacts and regularly invites to project-related meetings and events.

Project Team

The Project Team is composed of at least one municipal representative from each jurisdiction within Albany County. The Project Team will assist with data collection, document review, and coordination efforts.

Municipalities

Representatives from each City, Town, and Village have been invited to a meeting to discuss specific concerns in their jurisdictions, plan updates, and actions they can take over the next 5 years.



Community Engagement

- Meetings with planning team, municipal officials, and County stakeholders
- Presentations to emergency managers and organizations working with disadvantaged communities
- Public Information Meetings (2)
- Online survey for the public
- Online survey for officials from neighboring communities

Public Input Survey



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

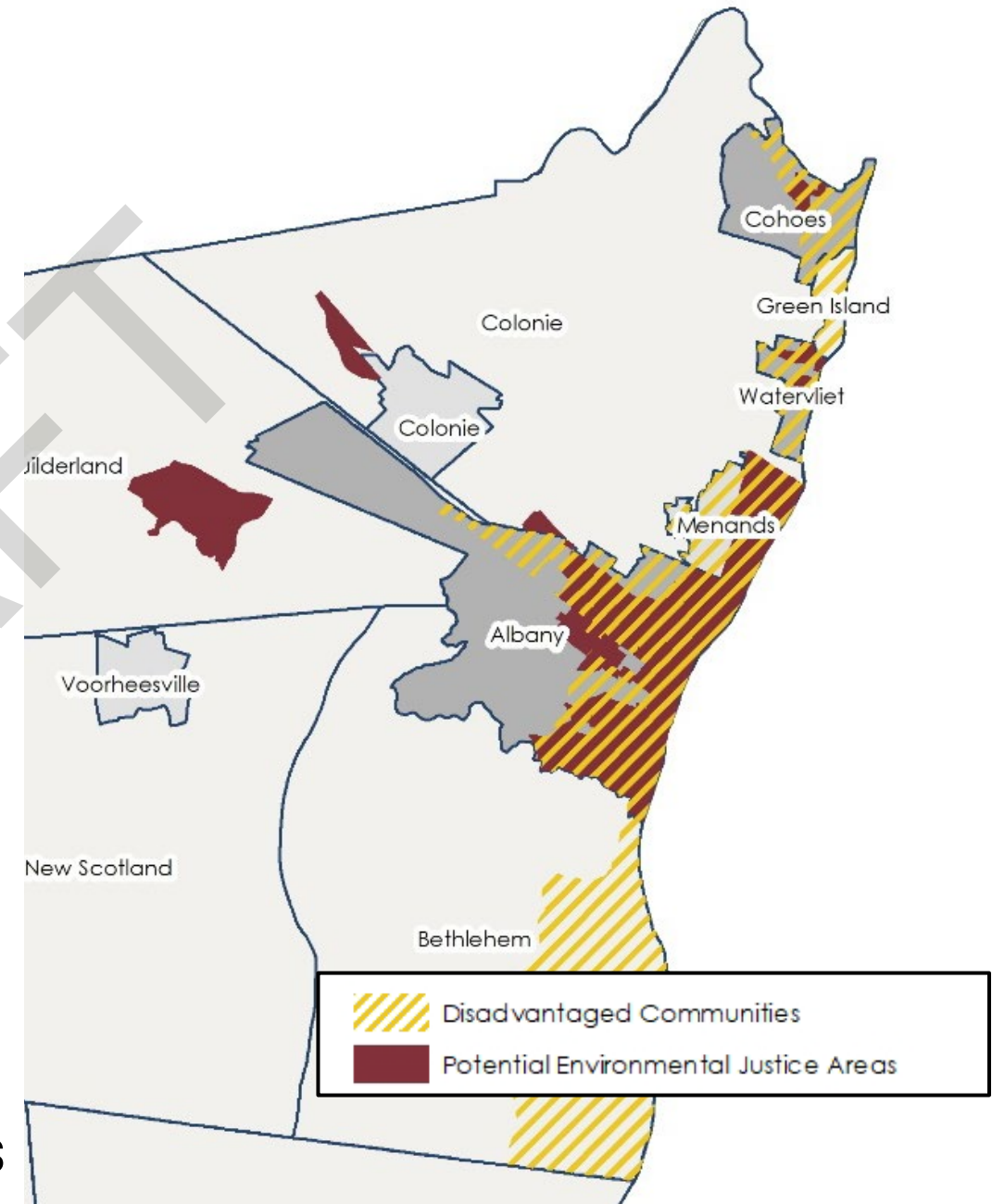
Vulnerable Populations

Potentially vulnerable populations:

- Renter households
- Low-income residents
- Older adults and people with disabilities
- Non-Native English speakers
- People without a vehicle, internet subscription, or health insurance
- Others

Engagement opportunities:

- Presentation to emergency managers and community-based organizations
- Exploring options to host public meetings in disadvantaged communities



Hazards Profiled

Albany County is prioritizing the following hazards in the plan:

1. Flood
2. Drought
3. Severe Storms
(including winter storms)
4. Extreme Temperatures
(heat & cold)
5. Landslide



STEVE JACOBS/DG

Remains of a building rest on the bottom of a landslide along Delaware Avenue on May 19, 2000. (Steve Jacobs/Times Union)

Common Concerns from Jurisdictions

- Flooding and storms
- Funding for infrastructure upgrades
- Limits on municipal authority
- Dams in other municipalities



Discussion

1. Who do you feel is particularly vulnerable to natural hazards in the County?
2. What challenges do/would they face related to natural hazards?
3. What other major concerns about natural hazards do you have, if any?



Mitigation Actions

Actions Completed Since 2018 (Examples)

County:

- ✓ DPW substation and ditch repair
- ✓ Culvert upgrades
- ✓ Streambank stabilization
- ✓ Additional pipe and drainage capacity
- ✓ Oil spill rapid response plan
- ✓ Ensuring structural integrity of historical site
- ✓ Bridge repair

Jurisdictions:

- ✓ Culvert upgrades
- ✓ Bridge replacement
- ✓ Replacement of lift station controls
- ✓ Dam improvements
- ✓ Install bladder gate system for creek

Ongoing Mitigation Actions (Examples)

County

- Relocating assets to higher ground in Colonie DPW substation
- Culvert repairs
- Plan to address property loss in valley of Fox Creek
- Bridge repair/replacement study

Jurisdictions

- Road and culvert repairs
- Sewer replacements
- Emergency shelter plan and generators
- Upgrade communications systems
- Upstream water storage to reduce downstream floods

Any actions from the 2018 plan that were not completed can be carried over into the 2024 plan, if desired.

New Mitigation Actions: All Hazards

County:

- Study what roads, bridges, etc. are vulnerable to hazards and ways to protect them
- Support farmers as they face climate hazards
- Resilient Homes Program to assist homeowners with climate hazards
- Create a youth Climate Justice Corps

Jurisdictions:

- Work with Albany County to lower climate risk at critical facilities
- Include hazard mitigation in comprehensive plan
- Upgrade emergency communication systems*
- Train staff on emergency response*

*Preparedness or response action



New Mitigation Actions: Flood

County:

- Decrease flood risk for critical infrastructure
- Identify culverts that need repair/upgrades
- Dam protection
- County sustainability council and director
- Encourage participation in FEMA Community Rating System program

Jurisdictions:

- Assess wells, fire stations, etc. for flood risk
- Upgrade pipes and culverts
- Lower the risk of dam failures
- Educate the public on reducing floods
- Partner with homeowners and businesses
- Purchase equipment to clean sewers & culverts



New Mitigation Actions: Severe Storm

County:

- Explore options for microgrids to support critical services during power outages
- Rain and stream gauges

Jurisdictions:

- New generators for important buildings
- Tree maintenance: maintenance to prevent branches from falling onto power lines, equipment for tree removal, educate residents on maintenance practices
- Upgrade buildings to serve as shelters
- Road and equipment improvements for snowstorms



New Mitigation Actions: Landslide

County:

- TBD

Jurisdictions:

- Relocate utilities away from steep slopes
- Control development in landslide-prone areas
- Open space preservation plan
- Partner with willing private landowners for property maintenance
- Conduct an engineering study to determine landslide mitigation actions



New Mitigation Actions: Drought

County:

- TBD

Jurisdictions:

- Educate the public on ways to conserve water
- Identify a backup water supply
- Upgrade water meters so that they are automatically read
- Upgrade leak detection systems
- Control invasive species to enhance clean water supply



New Mitigation Actions: Extreme Temperatures

County:

- Additional warming/cooling centers and transportation
- Financially support households in dealing with heat/cold
- Increase access to parks and trees
- Better communication for heat/cold advisories

Jurisdictions:

- Purchase generators for facilities to serve as cooling/heating centers
- Upgrade public facilities to serve as heating/cooling centers
- Develop a plan for cultural events
- Educate the public about staying safe in extreme heat



Discussion

1. Are there any other mitigation actions that you would like to see in the County?
2. How could the County reduce the risk that hazards pose to vulnerable populations?
3. What opportunities are there for additional collaboration between municipalities for hazard mitigation?



Next Steps

Requests

1. Complete feedback request
2. Publicize online survey
3. Convene focus groups, if interested



Questions/comments/ideas? Please contact:

Jayme Breschard, Senior Managing Community Planner
jbreschard@bartonandloguidice.com or 585-325-7190 x2247

Albany County Hazard Mitigation Plan – 2024 Update
Local Emergency Managers Meeting
Emergency Management Office
58 Verda Ave., Clarksville
Friday, May 10, 2024
10:00-11:30am

Please **print** your information below.

Name	Email	Title/Affiliation
1. JON WOOD		PUBLIC SAFETY
2. DOUGLAS LAGRANGE		DD. COM ND. COM SUPERVISOR
3. Douglas Miller		Public Safety Commissioner V/O Newburghville
4. Elizabeth O'Reilly		Planning Manager
5. Kevin Ciapp		SUPERVISOR - Hm Planning
6. Scott Feuerstein		Planning Manager
7. JACK BRENNAN		Director hka.org CEH
8. THOMAS REMERT		COUNTY EMERG. MGT
9. Dominic BRUNO		TOWN OF COEYMAN'S
10. Erin Kelly		Colonie EMS
11. Ryan St. Gelais		Village of Mercurs
12. Brian Strock		Police Lieutenant City of Watervliet
13. DAVID POOLE		DEPUTY DIRECTOR OF EMERGENCY MGMT. ALBANY COUNTY
14. BRIAN WOOD		Commander Albany County Emer Mang.
15.		
16.		
17.		
18.		
19.		
20.		

Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Summary

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)
 - Older adults (iii), especially during extreme temperatures
 - Transient populations with low income/resources
 - People who don't speak English well
 - Households without a vehicle
 - SRCITs, many in very rural settings who the Town needs to remain in contact with during severe weather events and power outages (New Scotland)
 - Marginalized families in City of Watervliet, including renters
 - Households in flood prone areas
 - All of the above
2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?
 - Various throughout the municipality (iii)
 - Feura Bush Apartments (New Scotland)
 - Marginalized families in City of Watervliet, including renters, especially in the 6 public housing projects owned by Watervliet Housing Authority
 - In Rensselaerville:
 - Route 145 Preston Hollow
 - Areas along Hudson River (Menands)
 - All low-income areas
 - Senior housing in low-income apartments
3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)
 - Flooding (ii) – relocation and/or repair, many in the path of dam breaks or severe flooding
 - Transportation/Mobility (ii) – including during/immediately after hazards
 - Housing/evacuation (ii) – Alternate housing locations if they need to evacuate or their homes are damaged as a result of the natural hazard. Rebuilding/repair of homes
 - Medical concerns
 - Cold, winter storm
 - Access to EMS services / loss of communication
4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?
 - Emergency transportation & coordinated alerts (Town of New Scotland)
 - Identify those persons that will be impacted and create/update the list of those who will be in need (Town of New Scotland)
 - Assist in mitigation strategies, especially with flooding along Hudson River as well as urban/flash floods. Ex: infrastructure upgrades (sea wall?) or maintenance equipment (City of Watervliet)
 - Upgrade facilities to be used as shelters (City of Watervliet)

- Improve transportation routes (Town of Rensselaerville)
 - Identify heating/cooling centers in each community (Town of Rensselaerville)
 - More preparedness training (Town of Rensselaerville)
5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)
- Meetings & public events
 - All of the above
 - All of the above plus
 - Outreach to SRCIT's groups/CAURCA's and organizations such as American Legion / VFW and other social clubs
 - Social media, attend community events, attend senior luncheons or food pantries/kitchens (e.g. Watervliet Senior Center, Redemption Church Food Kitchen)
 - Mailers
6. Can you help with any of the following?
- ☐ Publicize the public information meeting
 - ☐ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
 - ☐ Organize a focus group to ask residents for feedback
 - ☐ Other: _____
7. Other comments or ideas?

QR Code for Public Input Survey:



Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name

Email:

Title: _____

Phone

Organ

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

• 55+ housing throughout Town

• Transient populations w/ low income/resources.

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

~~West Albany~~
various

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

Flooding - relocation + or repair
mobility in general
medical concerns

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

meetings + public events.

6. Can you help with any of the following?

- ☒ Publicize the public information meeting
☐ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
☐ Organize a focus group to ask residents for feedback
☐ Other: _____

7. Other comments or ideas?

QR Code for Public Input Survey:



Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name: _____

Email: _____

Title: _____

Phone: _____

Organization: _____

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

all of above

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

None

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

cold, winter storms

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

all above

6. Can you help with any of the following?

- ☒ Publicize the public information meeting
☒ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
☐ Organize a focus group to ask residents for feedback
☐ Other: _____

7. Other comments or ideas?

QR Code for Public Input Survey:



Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name

Email

Title:

Phone

Orga

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

OLDER ADULTS PRIMARILY

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

FEWER BUSH APARTMENTS BUT MANY OLDER ADULTS IN THEIR OWN HOMES THROUGHOUT THE TOWN.

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

MANY IN THE PATH OF DAM BREAKS OR SEVERE FLOODING.

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

EMERGENCY TRANSPORTATION & COORDINATED ALERTS

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

ALL OF THE ABOVE PLUS

6. Can you help with any of the following?

- ☒ Publicize the public information meeting
☒ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
☐ Organize a focus group to ask residents for feedback
☐ Other: _____

7. Other comments or ideas?

QR Code for Public Input Survey:



Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name:

Email:

Title:

Phone:

Organization:

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

OUR SRCHS, MANY IN VERY RURAL SETTINGS AND NEED TO REMAIN IN CONTACT WITH THEM DURING SEVERE WEATHER EVENTS / POWER OUTAGES, ETC.

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

ACCESS TO EMS SERVICES / LOSS OF COMMUNICATION

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

IDENTIFY THOSE PERSONS THAT WILL BE IMPACTED AND CREATE / UPDATE THE LIST OF THOSE WHO WILL BE IN NEED.

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

OUTREACH TO SRCHS' GROUPS / CHURCHES AND ORGANIZATIONS SUCH AS AMERICAN LEGION / VFW AND OTHER SOCIAL CLUBS.

6. Can you help with any of the following?

- ☐ Publicize the public information meeting
- ☐ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
- ☐ Organize a focus group to ask residents for feedback
- ☐ Other: _____

7. Other comments or ideas?

QR Code for Public Input Survey:



Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name:

Email:

Title:

Phone:

Organization:

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

Municipality is a densely populated urban city - mostly marginalized families. (Watervliet) The city is mostly non-owner occupied households (renters).

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

(b) public housing projects (Watervliet Housing Authority).

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

- Alternate housing locations if they need to evac or their homes are damaged as a result of the natural hazard.
- Transportation for vulnerable population during or immediately after.

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

- Assist in mitigation strategies, esp. w/ flooding along Hudson River as well as urban/flash floods. ex: infrastructure upgrades (sea wall?) or maintenance equipment.

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

- Social media
- Attend community events
- Attend Senior luncheons or food pantries / Kitchens. (1) Watervliet Senior Center (2) Redemption Church Food Kitchen

6. Can you help with any of the following?

- ☒ Publicize the public information meeting
- ☒ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
- ☐ Organize a focus group to ask residents for feedback
- ☐ Other: _____

QR Code for Public Input Survey:



7. Other comments or ideas?

Local Emergency Managers Meeting: Friday, May 10, 2024

Feedback Request

Name:

Email:

Title:

Phone:

Organization:

1. Demographically, who do you feel is particularly vulnerable to natural hazards in Albany County or in your city/town/village? (Examples of demographics are older adults, persons who do not speak English well, renter households, households without a vehicle, etc.)

Household in flood prone areas
Elderly during ext. Temperatures

2. In your city/town/village, can you identify the areas or neighborhoods where vulnerable populations live?

Rte 145 Preston Hollow
areas along Hudson River (meadows)
All low income areas.

Senior housing in Low income
apts

3. What challenges do/would vulnerable populations face related to natural hazards? (Examples of natural hazards are severe storms, flooding, and extreme temperatures.)

~~Evacuation~~ Evacuation
Rebuilding/Repair of home

4. How could the County or your municipal government reduce the risk that natural hazards pose to vulnerable populations?

Improve transportation routes

More preparedness training

Identify Heat/Cooling Centers in each community

5. In your opinion, what are the best ways to gain input from vulnerable populations? (Examples of outreach include online surveys, in-person focus groups, in-person meetings, and information available at community events.)

Mailers

6. Can you help with any of the following?

- ☒ Publicize the public information meeting
- ☒ Publicize the online survey
(<https://www.surveymonkey.com/r/albanyhmp>)
- ☒ Organize a focus group to ask residents for feedback
- ☐ Other: _____

7. Other comments or ideas?

QR Code for Public Input Survey:



We will Take care of

Functional Needs

Fire Depts

County Local EMTs

Religious Stakeholders

DRAFT



Albany County Hazard Mitigation Plan



Albany County is updating their Hazard Mitigation Plan and needs your input! The plan will identify what natural hazards the County faces, identify people and property at risk, and create strategies to minimize long term damage.



Public Information Meetings

Tuesday, June 4th, 2024, at 12 p.m. or 5 p.m.

In-person at: Albany County Sheriff's Office (58 Verda Ave, Clarksville NY 12041)

OR via Zoom at the links below



Zoom link for 12-1 p.m. meeting:

<https://tinyurl.com/albanyhmp12-1>



Zoom link for 5-6 p.m. meeting:

<https://tinyurl.com/albanyhmp5-6>



Survey



How do floods, storms, and other hazards impact you?

How can the County help?

Scan the QR code or visit www.surveymonkey.com/r/albanyhmp



Questions or comments? Contact patrick.curran@albanycountyny.gov or 518-447-5639.

ALBANY COUNTY HAZARD MITIGATION PLAN PUBLIC INFORMATION MEETINGS



How do natural hazards affect you? What can the County do to help?



Tuesday, June 4th, 2024, at 12 p.m. or 5 p.m.



In-person at: Albany County Sheriff's Office

(58 Verda Ave, Clarksville NY 12041)



OR via Zoom at the links below

Zoom link for 12-1 p.m. option:

<https://tinyurl.com/albanyhmp12-1>



Zoom link for 5-6 p.m. option:

<https://tinyurl.com/albanyhmp5-6>



Questions or comments? Contact patrick.curran@albanycountyny.gov or 518-447-5639.

Take the survey for the . . .

ALBANY COUNTY HAZARD MITIGATION PLAN



How do floods, storms,
and other hazards impact
you? What can the County
do to help?

Take the Survey to add
your voice!

Scan the QR code or visit
www.surveymonkey.com/r/albanyhmp.



Albany County Hazard Mitigation Plan – 2024 Update

About Us (The Project Team)



Executive Steering Committee

Patrick Curran	Climate Policy Analyst, Office of the County Executive
Christina Rust	Health and Mental Health Policy Analyst, Office of the County Executive
Brian Wood	Commander, Emergency Management, Albany County Sheriff's Office
David Poole	Deputy Director of Emergency Management
Brent Meredith	Senior Engineer, Albany County Department of Public Works
Scott Duncan	Deputy Commissioner, Department of Public Works

About Us (The Project Team)



State Agencies

- NYS Division of Homeland Security and Emergency Services (DHSES)



Consultants

- Barton & Loguidice
- Highland Planning



Planning Partners

- Key Stakeholders



Agenda

1. Background
2. Planning Process
3. What Have We Learned?
4. Mitigation Strategy
5. Next Steps



Sunset Hill Road and Eight Mile Creek in Westerlo, NY (August 2011)

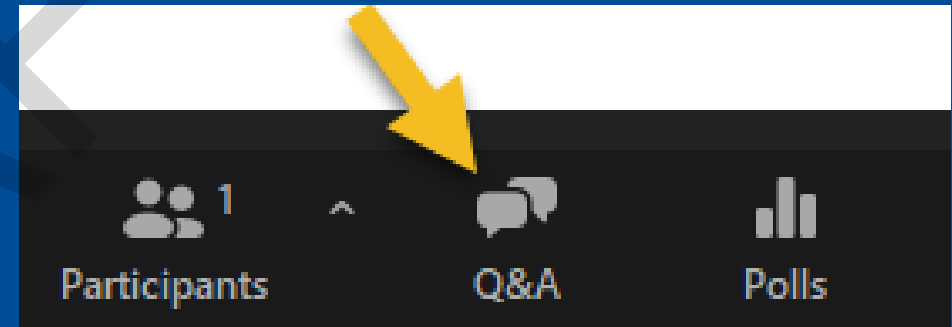
Participation

Zoom Polls



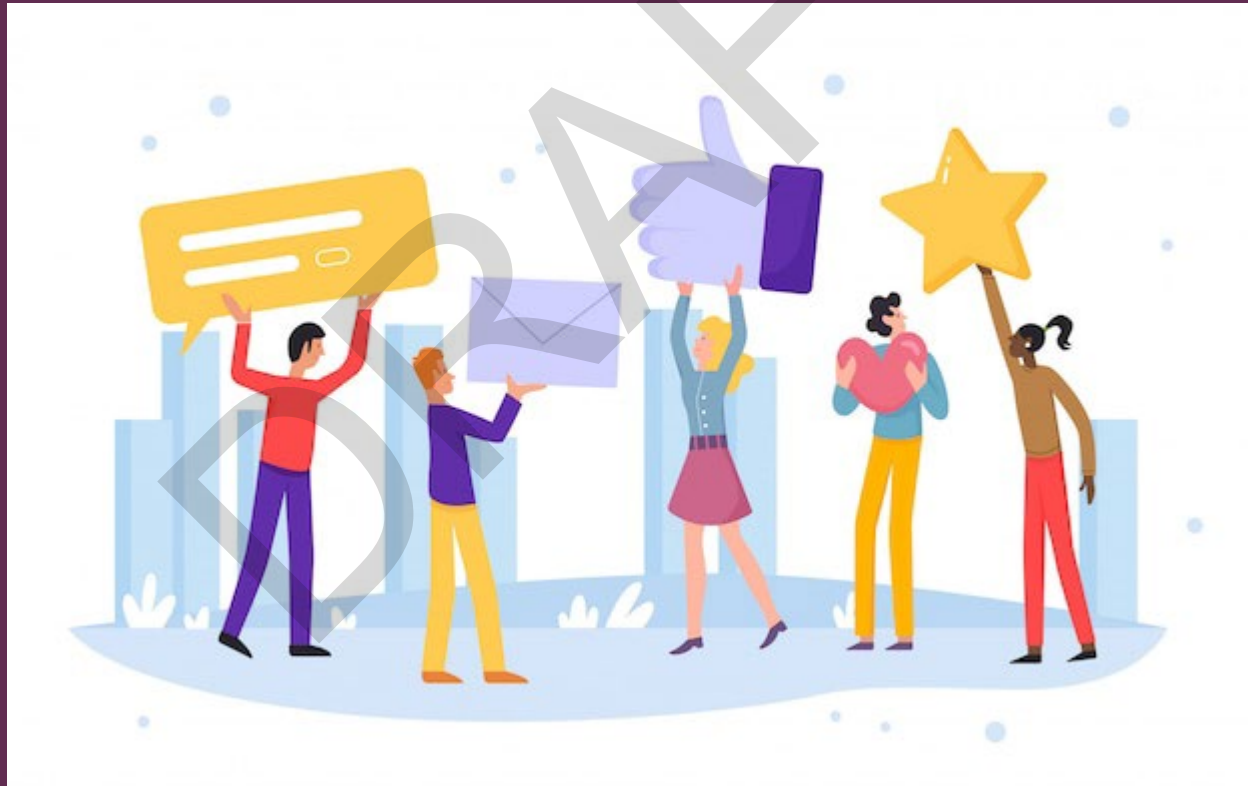
- 3 polls throughout the presentation
- You'll be prompted to answer them.

Q&A Function



- Type a question at any time!
- Computer participants: see options at the bottom of your screen.
- Phone participants using Zoom app: tap screen to see options.

Poll #1



Background

What is Hazard Mitigation?

Hazard mitigation reduces the risk that natural hazards pose to the community. It focuses on long-term risk reduction, and can happen at any time.



Hazard Mitigation Planning

Legal background:

- The Disaster Mitigation Act of 2000 requires state, local, tribal and territorial governments to have a FEMA-approved mitigation plan in order to be eligible for mitigation project funding.
- Updates must happen every 5 years and follow updated standards.

In 2022, the Village of Pulaski, NY received \$1,000,000 for stormwater flooding improvements through a Pre-Disaster Mitigation Grant!



Damage from hazards

Hazard Mitigation Plan Update

What's in an HMP?

- Description of planning process
- County description
- Natural hazards that affect the County
- Risk Assessment
- Vulnerability – Who and what is affected?
- Mitigation strategies
- Plan implementation, monitoring, and maintenance
- Jurisdictional Annex for each city, town, and village

Albany County

2024 Multi-Jurisdictional Hazard Mitigation Plan Update

June 2024

Prepared for:



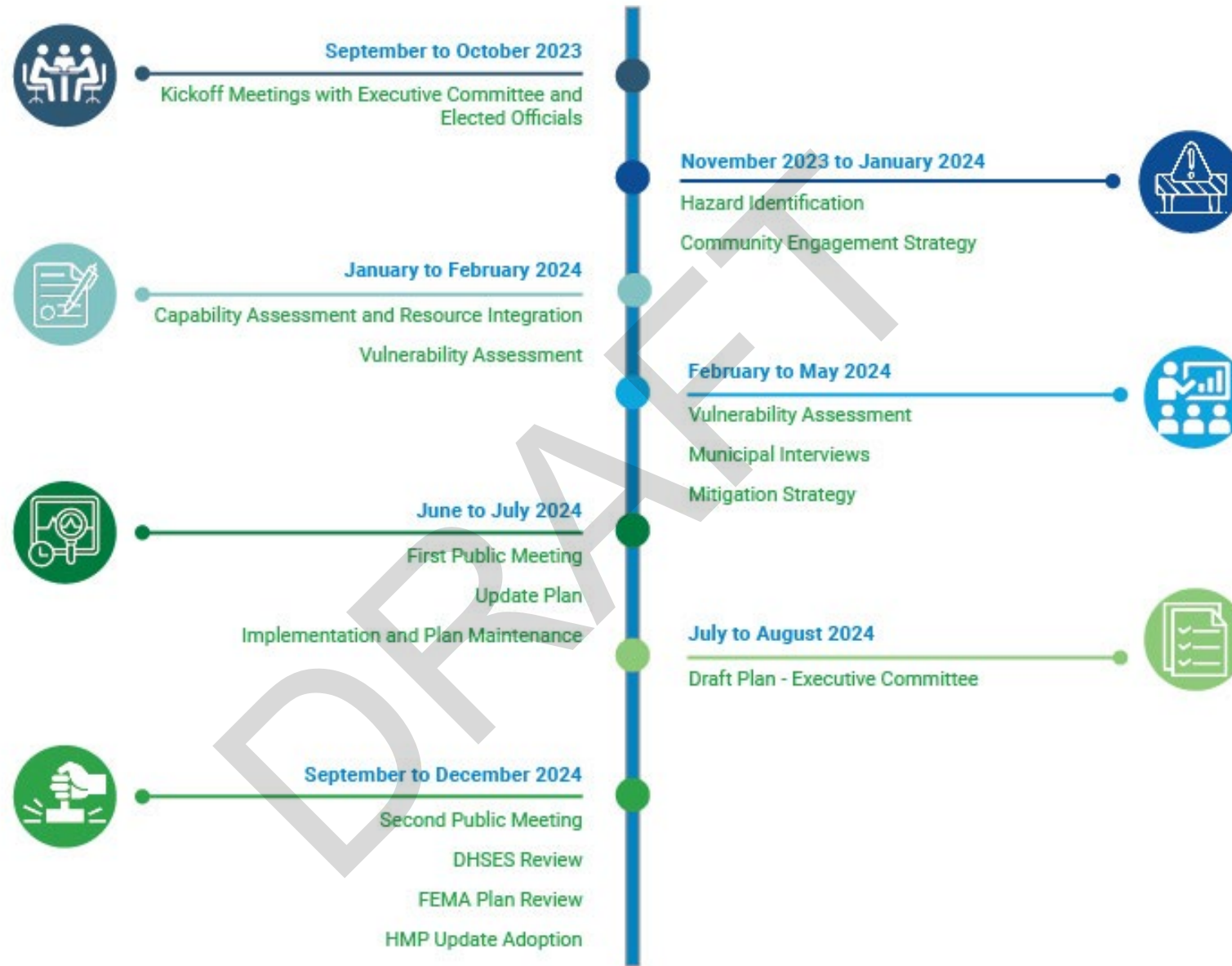
Albany County Executive
Harold L. Joyce Albany County Office Building
112 State St., Room 1200
Albany, NY 12207

Prepared by:

**Barton
&Loguidice**
59 Court St, Suite 712
Binghamton, NY 13901

Planning Process

Schedule



Planning Participants

Executive Steering Committee

(Small Group of County Staff)

- Lead development of plan
- Meet regularly

Key Stakeholders

(Organizations, Businesses, Additional County Staff)

- Give feedback via presentations
- Advise Executive Steering Committee as needed

Cities, Towns, & Villages

(Staff & Elected Officials)

- Meet with project team, provide data, review draft documents

The Public

- Provide comments via survey and public meetings
- Advocate for plan adoption

Consultants

(Barton & Loguidice, Highland Planning)

- Manage project, collect data, conduct interviews & presentations, draft documents

Neighboring Counties

- Provide comments via survey

City, Town, and Village Participation

- B&L and Highland Planning has held individual meetings with each City, Town, and Village in the County.
 - Participants include representatives such as:
 - Local elected officials
 - Town/Village board members
 - Town/Village clerks
 - Planning board members
 - Highway/DPW superintendent
 - Floodplain administrator
 - Water/sewer department staff
 - Code enforcement
 - Local fire and police department officials
 - Health Department/Social Services



What have we learned?

Hazards Profiled

Albany County is prioritizing the following hazards in the plan:

1. Flood
2. Drought
3. Severe Storms
(including winter storms)
4. Extreme Temperatures
(heat & cold)
5. Landslide



STEVE JACOBS/DG

Remains of a building rest on the bottom of a landslide along Delaware Avenue on May 19, 2000. (Steve Jacobs/Times Union)

Common Concerns from Jurisdictions

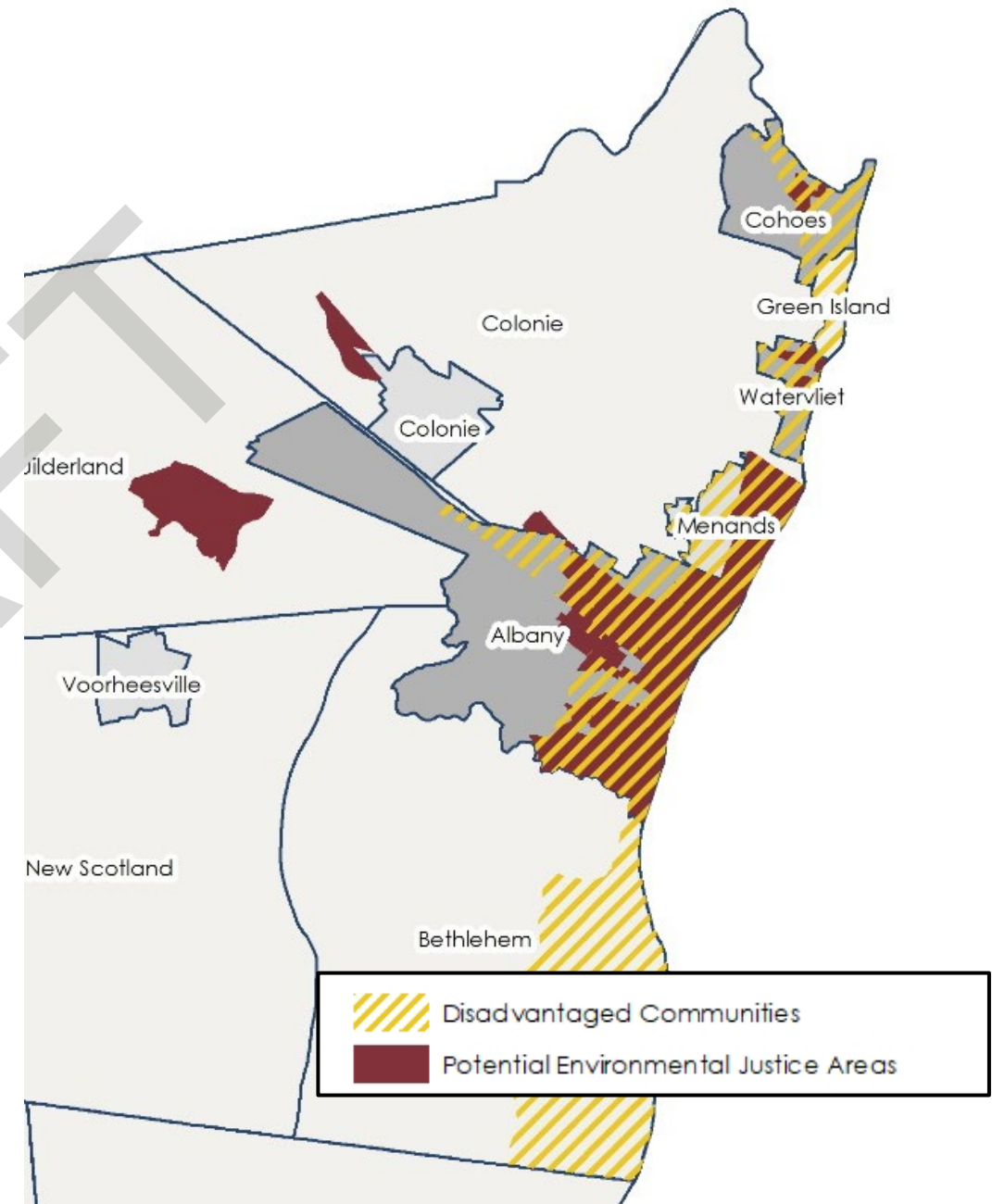
- Flooding and storms
- Funding for infrastructure upgrades
- Limits on municipal authority
- Dams in other municipalities



Who is most at risk?

Examples:

- Families in flood-prone areas
- Older adults
- Low-income residents
- Non-Native English speakers
- Renter households
- People without a vehicle
- Others



Actions Completed Since 2018 (Examples)

County:

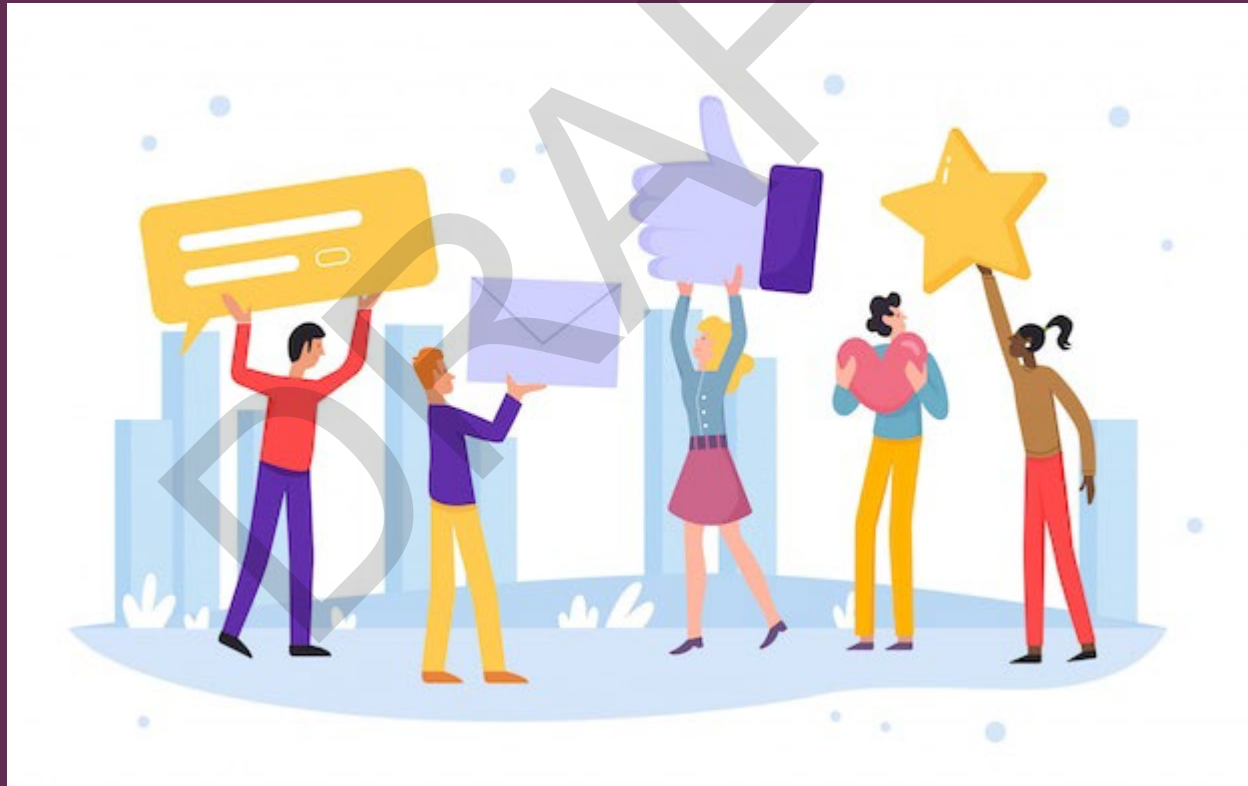
- ✓ Upgrade culverts
- ✓ Additional pipes & drainage
- ✓ Repair electric facility
- ✓ Oil spill rapid response plan
- ✓ Bridge repair

Cities, Towns, & Villages:

- ✓ Culvert upgrades
- ✓ Bridge replacement
- ✓ Replacement of lift station controls
- ✓ Dam improvements
- ✓ Install bladder gate system for creek



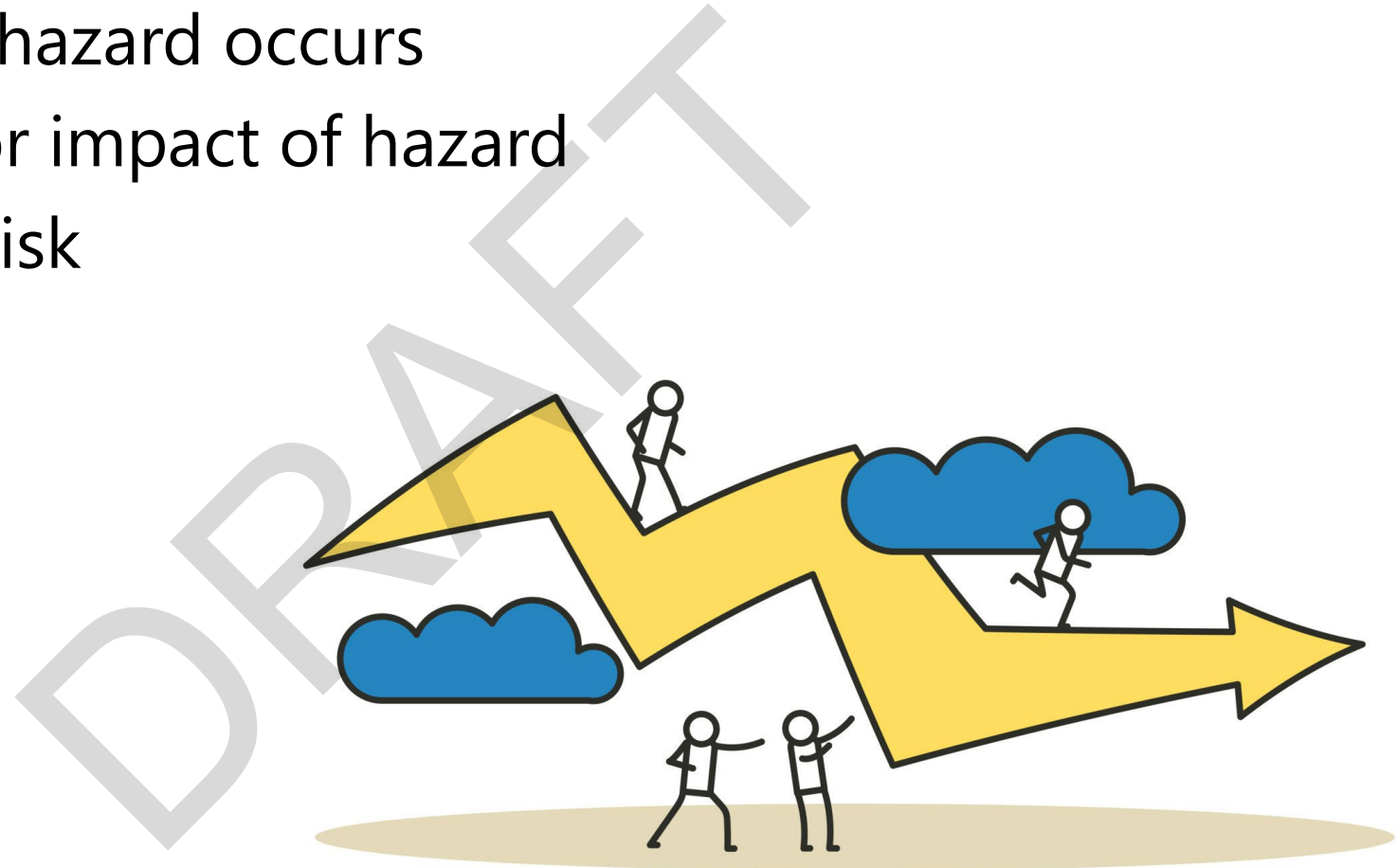
Poll #2



Mitigation Strategy

Review: What is Mitigation?

- Action taken before hazard occurs
- Reduces likelihood or impact of hazard
- Reduces long-term risk



Mitigation Strategies



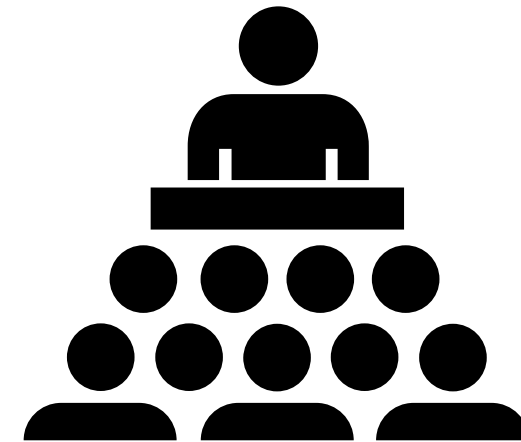
Local Plans and Regulations



Structure and Infrastructure



Natural Systems Protection



Education and Awareness

Ongoing Actions (Examples)

County

- Culvert repairs
- Bridge repair/replacement study
- Flood preparation in Colonie DPW substation

Cities, Towns, & Villages

- Road and culvert repairs
- Sewer replacements
- Emergency shelter plan and generators
- Upgrade communications systems
- Upstream water storage to reduce downstream floods

*Any actions from the 2018 plan that were not completed
can be carried over into the 2024 plan, if desired.*

New Mitigation Actions: All Hazards

County:

- Transportation vulnerability study
- Support farmers
- Support homeowners
- Climate Justice Corps

Cities, Towns, & Villages:

- Critical facility improvements
- Incorporate hazard mitigation into other plans



Albany Fire Department Engine No. 10. Photo Credit: City of Albany

New Mitigation Actions: Flood

County:

- Culvert repair
- Dam protection
- County sustainability council and director

Cities, Towns, & Villages:

- Assess wells, fire stations, etc. for flood risk
- Upgrade pipes and culverts
- Public education



2023 Flood in Albany, NY (Photo credit: Times Union)

New Mitigation Actions: Severe Storm

County:

- Energy resiliency study (reduce power outages)
- Rain and stream gauges

Cities, Towns, & Villages:

- New generators
- Tree maintenance
- Upgrade buildings (shelters)
- Snowstorm preparation



Top: Snowstorm in Albany, NY (March 2023). Photo
Credit: Associated Press.

Bottom: Downed trees after hurricane-force winds in
Upstate NY. Photo credit: Syracuse.com

New Mitigation Actions: Landslide

County:

- TBD

Cities, Towns, & Villages:

- Utility relocation
- Control development in certain areas
- Preserve open space
- Partnerships for property maintenance



2021 Landslide in Delmar, NY (Source: Times Union)

New Mitigation Actions: Drought

County:

- TBD

Cities, Towns, & Villages:

- Public education
- Backup water supplies
- Smart meters to track water usage
- Leak detection



Drought in a soybean field. Photo Credit: Cornell Cooperative Extension

New Mitigation Actions: Extreme Temperatures

County:

- Warming/cooling centers & transportation
- Financial support for households
- More parks and trees
- Improve communication

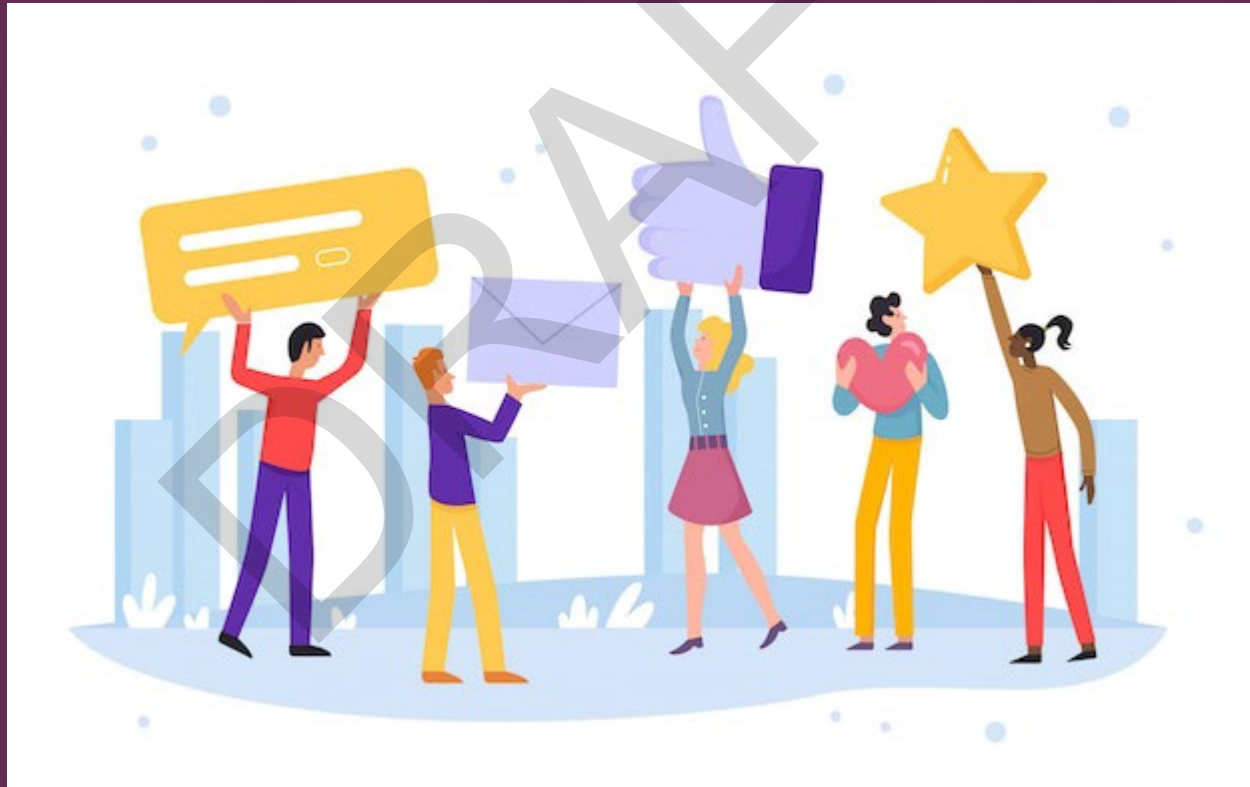
Cities, Towns, & Villages:

- Generators & building upgrades for cooling/heating centers
- Cultural events plan
- Public education



Extreme Heat and Extreme Cold. Photo credit: Harvard Health Publishing (top) and CBIA (bottom)

Poll #3



Next Steps

Next Steps for B&L

Summer 2024:

1. Revise plan based on public feedback
2. Send jurisdictional annexes to Cities, Towns, and Villages - revise based on feedback
3. Work with Executive Steering Committee on Draft Plan and how it will be implemented

Fall 2024:

1. Second Public Meeting
2. Approval by state & federal agencies
3. Cities, towns, and villages adopt the plan

Public Input Survey

Closes June 11th!



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

How Can I Get Involved?

- ✓ Attend the first Public Information Meeting
- ❑ Fill out the online survey by June 11th
- ❑ Attend the second Public Information Meeting (Fall 2024 – date TBD)
- ❑ Contact your City/Town/Village to encourage local adoption of the HMP Update (Fall – Winter 2024)

Public Input Survey

Closes June 11th!



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

Contact Us

Patrick Curran
Climate Policy Analyst
Office of the County Executive
518-447-5639
Patrick.Curran@albanycountyny.gov

Jayne Breschard, AICP, CFM
Senior Managing Community Planner
Barton & Loguidice
(585) 325-7190 x2247
jbreschard@bartonandloguidice.com

Public Input Survey

Closes June 11th!



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

Questions & Comments?

Polling Questions

Albany HMP PIM #1 (June 4, 2024)

Poll #1

1. Which reason(s) brings you to today's meeting? (checkboxes)

To learn more about the topic of natural hazard mitigation planning

To stay up-to-date on Albany County's planning efforts

To stay up-to-date on my City/Town/Village's planning efforts

To share specific concerns about natural hazards within my community

To share ideas on how my community can mitigate the impacts of natural hazards

None of the above

2. Which description(s) best represents your relationship with Albany County? (checkboxes)

I am an elected official within Albany County

I am a resident within Albany County

I am a business owner within Albany County

I visit or work within Albany County, but do not live there

None of the above

3. Where do you live? (single choice)

Albany (City)
Altamont (Village)
Berne (Town)
Bethlehem (Town)
Coeymans (Town)
Cohoes (City)
Colonie (Town)
Colonie (Village)
Green Island (Village)
Guilderland (Town)
Knox (Township)
Menands (Village)
New Scotland (Town)
Ravena (Town)
Rensselaerville (Town)
Voorheesville (Village)
Watervliet (City)
Westerlo (Town)
I don't live in Albany County

Poll #2

1. Which one of the following natural hazards impacts your community the most? Please consider damages to property, crops, people, etc. (single choice)

Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)
Flood (Riverine floods, flash floods, etc.)
Extreme Temperatures (Cold Wave, Heat Wave, Air Pollution Effects)
Drought
Landslide

2. Are there any other natural hazards impacting your community, aside from the five listed in the previous question? If yes, please list. (open answer)

3. What is the biggest way that natural hazards impact your community? (open answer)

Poll #3

1. Do you have any feedback on the example natural hazard mitigation actions presented on the past few slides? If yes, please describe. (open answer)
2. Which type(s) of natural hazard mitigation action would you like to see prioritized in Albany County? (single choice)

Local plans and regulations (e.g. zoning updates, building code revisions)

Structure and infrastructure projects (e.g. repair roads and bridges, resize culverts)

Natural systems protection and nature-based solutions (e.g. rain gardens, plant trees)

Education and awareness programs (e.g. pamphlets, workshops)

3. Keeping in mind the challenges, opportunities, and preliminary key findings discussed today, do you have any ideas for specific natural hazard mitigation strategies that you'd like to share? If yes, please describe. (open answer)

Overview				
Meeting Topic		Meeting/Webinar ID		
Albany County Hazard Mitigation Plan Update Session 2		812371898091.		
*Note that there were no poll responses completed for Session 1.				
Launched Polls				
#	Poll Name	Questions	Responses	
1	Albany County HMP Webinar - Poll 1		3	2
2	Albany County HMP Webinar - Poll 2		3	2
3	Albany County HMP Webinar - Poll 3		3	2
Albany County HMP Webinar - Poll 1				
#		Which reason(s) brings you to today's meeting?	Which description(s) best represents your relationship with Albany County?	Where do you live?
1		To stay up-to-date on Albany County's planning efforts; To stay up-to-date on my City/Town/Village's planning efforts; To share ideas on how my community can mitigate the impacts of natural hazards	I am a resident within Albany County	Bethlehem (Town)
2		To learn more about the topic of natural hazard mitigation planning; To stay up-to-date on Albany County's planning efforts; To stay up-to-date on my City/Town/Village's planning efforts		
Albany County HMP Webinar - Poll 2				
#		Which one of the following natural hazards impacts your community the most? Please consider damages to property, crops, people, etc.	Are there any other natural hazards impacting your community, besides from the five listed in the previous question? If yes, please list.	What is the biggest way that natural hazards impact your community?
1		Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)		old growth trees uprooted
2		Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)		Private road and our neighborhood has to employ who could fix any issues that a natural disaster occurs.
Albany County HMP Webinar - Poll 3				
#		Do you have any feedback on the example natural hazard mitigation actions presented on the past few slides? If yes, please describe.	Which type(s) of natural hazard mitigation action would you like to see prioritized in Albany County?	Keeping in mind the challenges, opportunities, and preliminary key findings discussed today, do you have any ideas for specific natural hazard mitigation strategies that you'd like to share? If yes, please describe.
1			Natural systems protection and nature-based solutions (e.g. rain gardens, plant trees)	
2			Structure and infrastructure projects (e.g. repair roads and bridges, resize culverts)	

Q1 Please identify the municipality you represent:

Answered: 3 Skipped: 2

#	RESPONSES	DATE
1	University at Albany	5/13/2024 8:32 AM
2	Schoharie County	4/12/2024 11:13 AM
3	Schenectady County	4/11/2024 10:52 AM

Q2 Have any of your County's departments/agencies helped to carry out mitigation actions with Albany County since 2018, when Albany's HMP was last updated? Please explain:

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	I'm not aware of any instance(s)	4/12/2024 11:13 AM
3	Not aware, I started my position with Schenectady County in 2018.	4/11/2024 10:52 AM
4	No	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q3 Have there been any changes in your County's public support or priorities about hazard mitigation as a result of natural hazard events that occur in Albany County?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	No	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q4 Have there been any recent disaster events that occurred in Albany County that have impacted your County? If so, how?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Not that I.m aware of.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q5 Albany County is profiling five (5) natural hazards: Flooding, Severe Storm, Drought, Extreme Temperature, and Landslide. Based on your experiences in your County, should the list of hazards addressed in the Albany County HMP be updated? If so, which hazards should be added or removed?

Answered: 4 Skipped: 1

#	RESPONSES	DATE
1	No	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Maybe adding "Wind" as a hazard, (we are, but it could also be covered by storms). The past two years, some serious thunderstorms with strong straight line winds have come across the Hudson River from Albany County causing significant damage in the T/ Stuyvesant.	3/19/2024 9:13 PM

Q6 Have there been any new issues with natural hazards in Albany County that have impacted your County?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Thunderstorms with Straight line winds.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q7 Are any critical facilities or infrastructure in your County impacted by natural hazards that occur in Albany County?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	No	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Not that I know of.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q8 Are there critical facilities or infrastructure in Albany County that your County depends on?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Yes, Patroon Creek & Normans kill creek	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Medical facilities.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q9 Does your County have any areas adjacent to Albany County that are out of the Special Flood Hazard Area (SFHA)/floodplain that Albany County can use to temporarily relocate its residents after a disaster?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not sure	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	Birchwood elementary school and Mohonasen School	4/11/2024 10:52 AM
4	It may be unrealistic since there's a river and significant travel distance between us but we will assist with locating an area within our county if you need it.	3/19/2024 9:13 PM
5	Yes, depending on the current situation in Saratoga County	3/11/2024 2:55 PM

Q10 Have any changes in development trends occurred in your County that could create additional risks in Albany County? Does any new development reduce risk?

Answered: 5 Skipped: 0

Albany County Hazard Mitigation Plan Update - Neighboring Community Survey

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	Ice breaker in Mohawk River helps to reduce risk in ice jams	4/11/2024 10:52 AM
4	No	3/19/2024 9:13 PM
5	None/ None that we're aware of	3/11/2024 2:55 PM

Q11 Have any jurisdictions in your County adopted new policies, plans, regulations, or reports that could support the Albany County HMP Update?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	We offer mutual aid if requested, also we participate in regional training exercises..	4/11/2024 10:52 AM
4	Not that I know of.	3/19/2024 9:13 PM
5	Not that we are aware of	3/11/2024 2:55 PM

Q12 Does your County have different or new education and outreach programs and resources available to assist Albany County in its mitigation activities?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Not to my knowledge	5/13/2024 8:32 AM
2	No	4/12/2024 11:13 AM
3	We offer mutual aid if requested, also we participate in regional training exercises..	4/11/2024 10:52 AM
4	Not that I know of.	3/19/2024 9:13 PM
5	Nothing at this time	3/11/2024 2:55 PM

Q13 Are there new projects to consider for long-term risk reduction that your County can work on together with Albany County? Please explain:

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	Stromwater resilience planning	5/13/2024 8:32 AM

Albany County Hazard Mitigation Plan Update - Neighboring Community Survey

2	There may be potential for a Catskill Creek project on the border of the towns of Broome and Rensselaerville. Another possibility is the Fox Creek on the border of the towns of Wright and Knox.	4/12/2024 11:13 AM
3	We continue to improve our ability to monitor the Mohawk river for flooding etc.	4/11/2024 10:52 AM
4	Not that I can think of but we are always open to working together.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

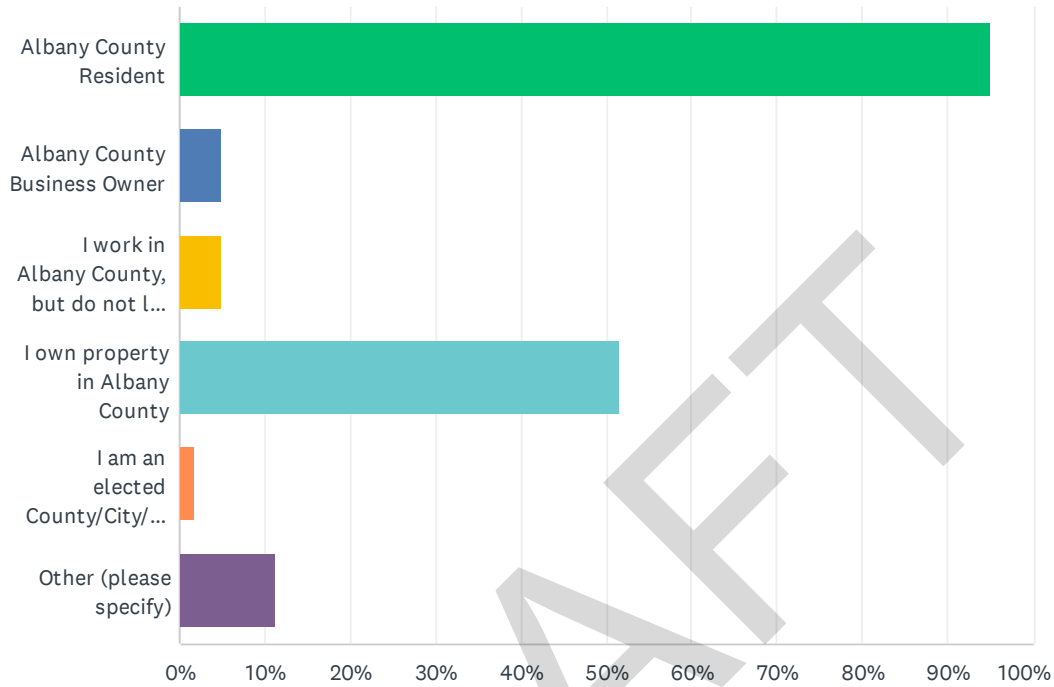
Q14 Do any challenges exist for your County to collaborate on mitigation actions with Albany County? If yes, how can those be overcome over time?

Answered: 5 Skipped: 0

#	RESPONSES	DATE
1	No sure	5/13/2024 8:32 AM
2	No extraordinary challenges	4/12/2024 11:13 AM
3	No	4/11/2024 10:52 AM
4	Only geographic challenges, otherwise we will always assist as much as possible if you need it.	3/19/2024 9:13 PM
5	No	3/11/2024 2:55 PM

Q1 Which of the following describes your relationship to Albany County? Select all that apply.

Answered: 62 Skipped: 0



ANSWER CHOICES	RESPONSES	
Albany County Resident	95.16%	59
Albany County Business Owner	4.84%	3
I work in Albany County, but do not live in Albany County	4.84%	3
I own property in Albany County	51.61%	32
I am an elected County/City/Town/Village official in Albany County	1.61%	1
Other (please specify)	11.29%	7
Total Respondents: 62		

#	OTHER (PLEASE SPECIFY)	DATE
1	President of Delmar Pointe HOA	6/5/2024 5:34 AM
2	City Engineer of City of Cohoes	5/13/2024 9:27 AM
3	Fire Chief	5/10/2024 10:33 AM
4	Fire chief	4/10/2024 4:49 PM
5	Asst. Fire Chief in department within the county	4/10/2024 6:38 AM
6	Firefighter/first responder in Albany County	4/9/2024 4:34 PM
7	Volunteer fire chief	4/9/2024 4:18 PM

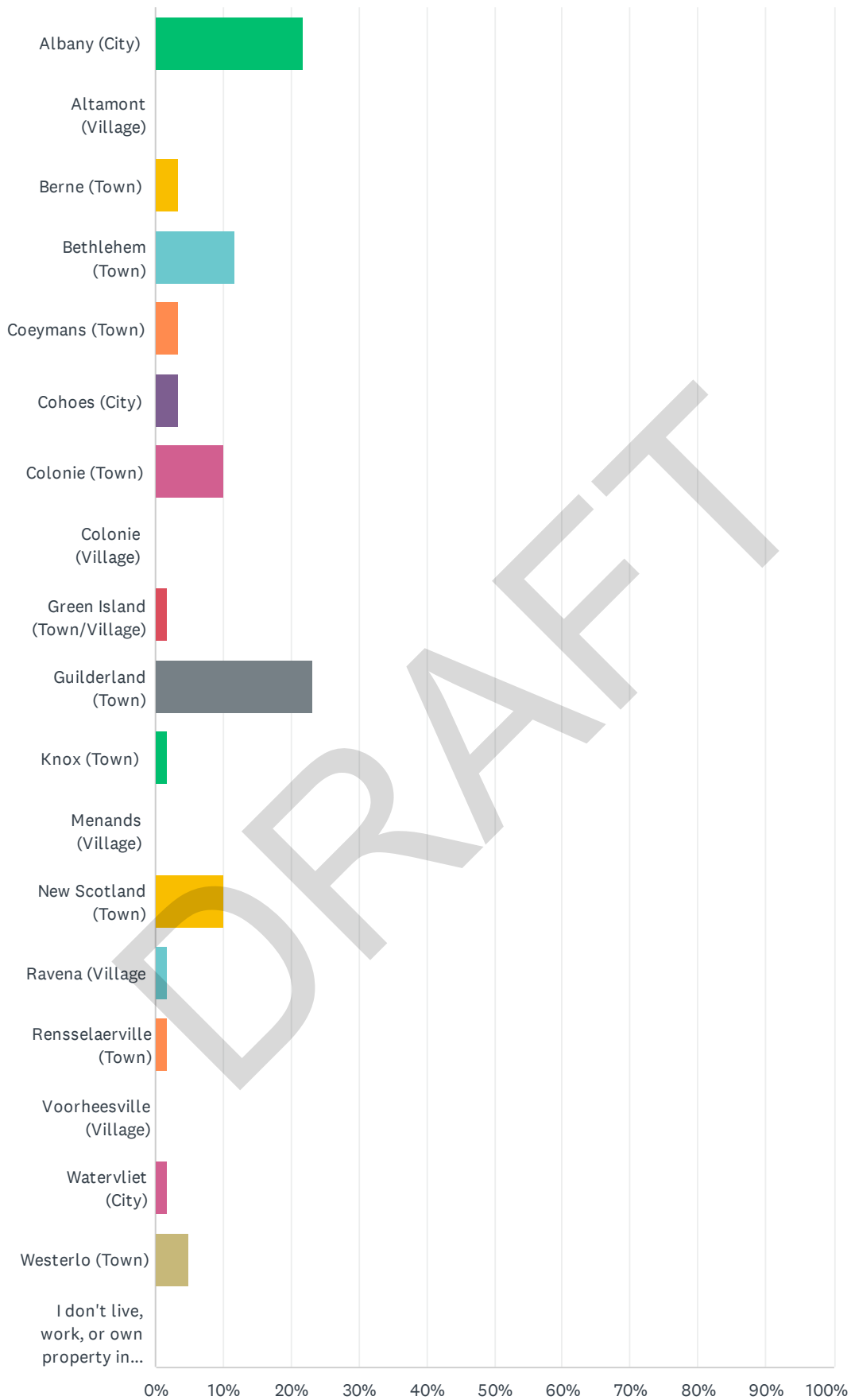
DRAFT

Q2 If you are a resident, which City, Town, or Village do you live in? (If you don't live in Albany County, please choose the City, Town, or Village where you work or own property.)

Answered: 60 Skipped: 2

DRAFT

Albany County Hazard Mitigation Plan Update - Public Input Survey

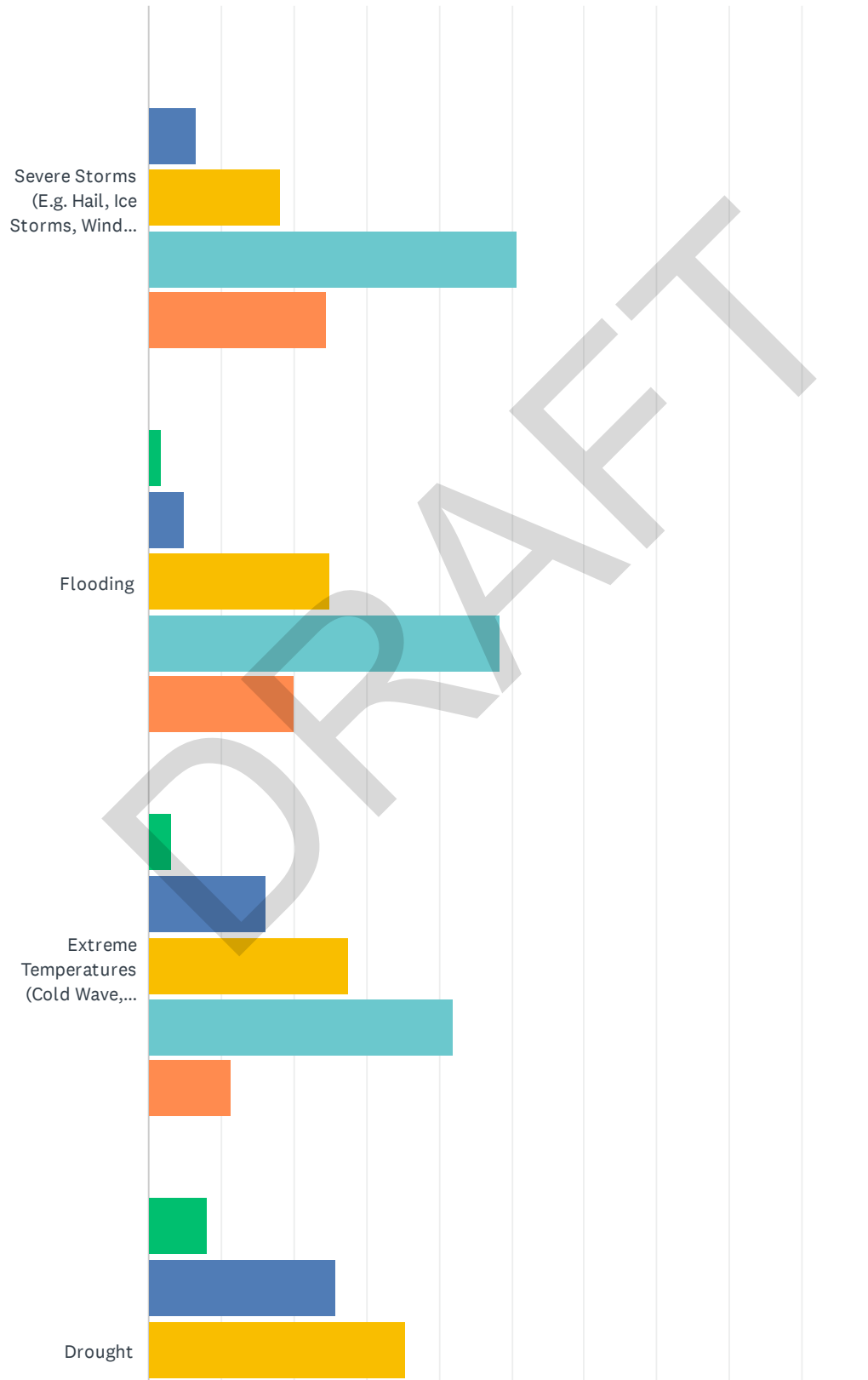


Albany County Hazard Mitigation Plan Update - Public Input Survey

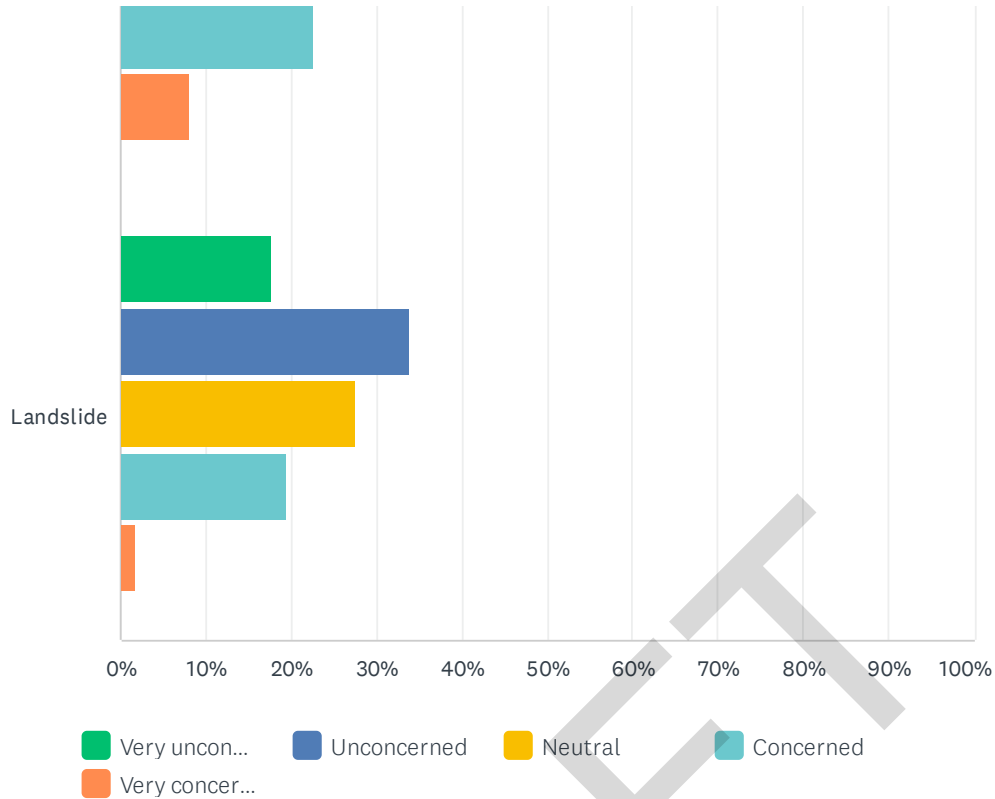
ANSWER CHOICES	RESPONSES	
Albany (City)	21.67%	13
Altamont (Village)	0.00%	0
Berne (Town)	3.33%	2
Bethlehem (Town)	11.67%	7
Coeymans (Town)	3.33%	2
Cohoes (City)	3.33%	2
Colonie (Town)	10.00%	6
Colonie (Village)	0.00%	0
Green Island (Town/Village)	1.67%	1
Guilderland (Town)	23.33%	14
Knox (Town)	1.67%	1
Menands (Village)	0.00%	0
New Scotland (Town)	10.00%	6
Ravena (Village)	1.67%	1
Rensselaerville (Town)	1.67%	1
Voorheesville (Village)	0.00%	0
Watervliet (City)	1.67%	1
Westerlo (Town)	5.00%	3
I don't live, work, or own property in Albany County.	0.00%	0
TOTAL		60

Q3 How concerned are you about the following natural hazards and how they could impact you, your family, and your community?

Answered: 62 Skipped: 0



Albany County Hazard Mitigation Plan Update - Public Input Survey



	VERY UNCONCERNED	UNCONCERNED	NEUTRAL	CONCERNED	VERY CONCERNED	TOTAL	WEIGHTED AVERAGE
Severe Storms (E.g. Hail, Ice Storms, Wind, Thunderstorms and Lightning, Winter Storms, Hurricane, Tropical Storms, Tornado, Related Power Outages)	0.00% 0	6.56% 4	18.03% 11	50.82% 31	24.59% 15	61	3.93
Flooding	1.67% 1	5.00% 3	25.00% 15	48.33% 29	20.00% 12	60	3.80
Extreme Temperatures (Cold Wave, Heat Wave, Related Air Pollution Effects)	3.23% 2	16.13% 10	27.42% 17	41.94% 26	11.29% 7	62	3.42
Drought	8.06% 5	25.81% 16	35.48% 22	22.58% 14	8.06% 5	62	2.97
Landslide	17.74% 11	33.87% 21	27.42% 17	19.35% 12	1.61% 1	62	2.53

#	OTHER NATURAL HAZARDS YOU'RE CONCERNED ABOUT (PLEASE DESCRIBE):	DATE
1	We own a private road and this is a concern for the HOA and how the county or town will assist us in taking care if there is a natural diaster that effects the road.	6/5/2024 5:34 AM
2	Flash flooding, small duration/high intensity (>1" in. of precip. over < 1 hr.) storms	5/8/2024 12:57 PM
3	Trees falling	4/14/2024 7:03 PM

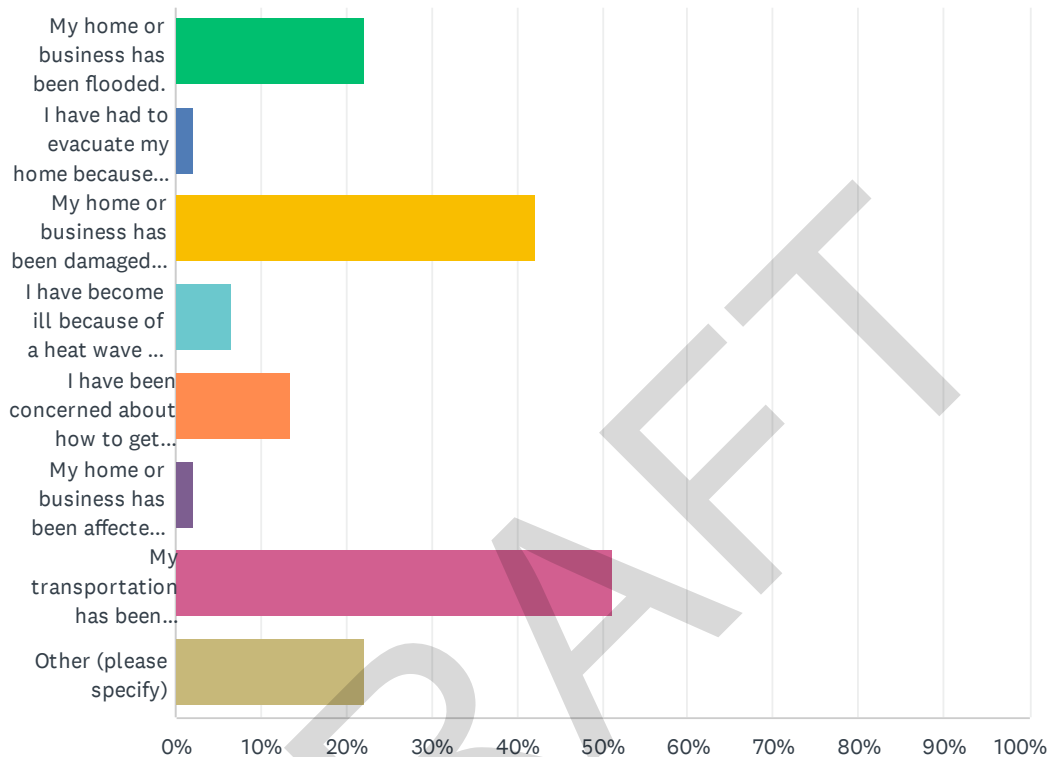
Albany County Hazard Mitigation Plan Update - Public Input Survey

4	TRAFFIC NOISE POLLUTION NYS THRUWAY	4/10/2024 7:14 PM
5	wildfire - there's no maintenance of large swaths of forest areas in Colonie	4/10/2024 8:51 AM
6	Urban flooding	4/10/2024 6:38 AM
7	Power Outages and Municipality Infrastructure related to utilities	4/9/2024 11:16 PM
8	Winter snowstorms	3/20/2024 12:08 PM

DRAFT

Q4 During the time you have lived, worked, or owned property in Albany County, how have these natural hazards impacted you? Select all that apply.

Answered: 45 Skipped: 17



ANSWER CHOICES		RESPONSES	
My home or business has been flooded.		22.22%	10
I have had to evacuate my home because of a flood or other disaster.		2.22%	1
My home or business has been damaged by a storm.		42.22%	19
I have become ill because of a heat wave or cold wave.		6.67%	3
I have been concerned about how to get water for my home, business, or farm.		13.33%	6
My home or business has been affected by a landslide.		2.22%	1
My transportation has been disrupted by a storm, flood, or landslide.		51.11%	23
Other (please specify)		22.22%	10
Total Respondents: 45			

#	OTHER (PLEASE SPECIFY)	DATE
1	What happens if the Road is damaged and who will help our neighborhood with this issue.	6/5/2024 5:34 AM
2	A lot of emergency service work.	5/10/2024 10:33 AM

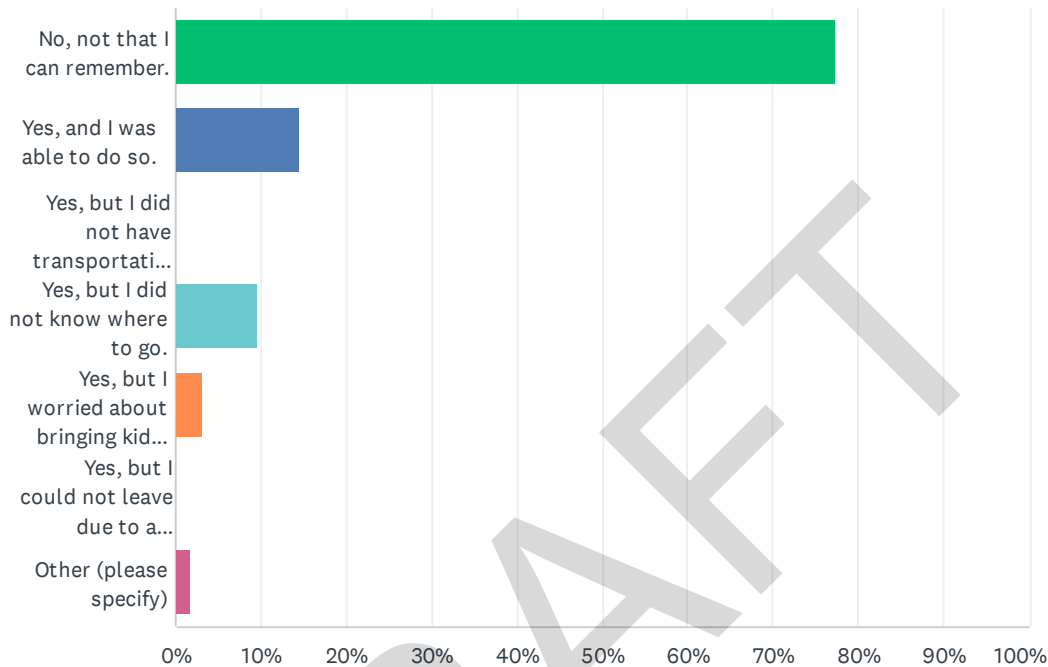
Albany County Hazard Mitigation Plan Update - Public Input Survey

3	None	5/10/2024 7:35 AM
4	The above selections are related to impacts that directly affect or involve the work I perform for the Town of Bethlehem (stormwater management)	5/8/2024 12:57 PM
5	I have been fortunate and have not been impacted by any of the above.	4/22/2024 9:56 PM
6	None	4/13/2024 9:25 AM
7	Bad drivers during bad weather	4/10/2024 4:46 PM
8	Lack of inclusion for all county resources to help in mitigation	4/10/2024 6:38 AM
9	Power Outages	4/9/2024 11:16 PM
10	Lost power and it caused basement flooding with no power no phone or service in my area	4/9/2024 4:18 PM

DRAFT

Q5 Have you ever wanted to leave your home temporarily to get away from the heat, cold, flood, storm, landslide, or other hazard? Please select all that apply.

Answered: 62 Skipped: 0



ANSWER CHOICES		RESPONSES	
No, not that I can remember.		77.42%	48
Yes, and I was able to do so.		14.52%	9
Yes, but I did not have transportation or could not afford a ride.		0.00%	0
Yes, but I did not know where to go.		9.68%	6
Yes, but I worried about bringing kids, pets, or other family members.		3.23%	2
Yes, but I could not leave due to a mobility issue or other disability.		0.00%	0
Other (please specify)		1.61%	1
Total Respondents: 62			

#	OTHER (PLEASE SPECIFY)	DATE
1	Due to trees flowing down all around Bethlehem with last ice storm power was out for a long time.	6/5/2024 5:34 AM

Q6 Who or what in your community is most at risk from these natural hazards? Please list any groups of people, locations, facilities, or resources that you are the most concerned about.

Answered: 38 Skipped: 24

#	RESPONSES	DATE
1	With being President of the HOA our neighborhood is mostly retired residents some who can't get out if these storms happen. If our road is damaged the neighborhood has no way to get out of the neighborhood. I am working with the board to come up with a emergency plan so we will be ready if this happens. That is why I listen to the meeting to see what ideas and how the Town of Bethlehem or Albany county could help in the case of a natural hazard.	6/5/2024 5:34 AM
2	children and elderly, people with disabilities and health issues	5/17/2024 9:10 AM
3	Elderly, disabled, Parents with young kids	5/13/2024 9:27 AM
4	Residents of the village who live along the stream.	5/10/2024 10:33 AM
5	infrastructure	5/10/2024 7:35 AM
6	Disadvantaged populations Senior Citizens, Low income families, families with small children, individuals with health issues	5/9/2024 1:29 PM
7	Residents / businesses that are affected by flash flooding / low-lying areas, environmental justice communities of concern, Town infrastructure along flood plains / Hudson River (drinking well fields, wastewater treatment plant, stormwater drainage infrastructure)	5/8/2024 12:57 PM
8	Elderly, people with health issues	5/5/2024 4:56 PM
9	Residents that live near the Hudson River during large rain periods.	4/29/2024 4:24 PM
10	Anywhere near the Onesquethaw creek which floods caused a hazardous condition as well as flooding. Strong currents play a role as well	4/24/2024 5:05 PM
11	persons on lower flat rock along the creek,, people near the creek by Onesquethaw Fire House in Clarksville	4/22/2024 9:56 PM
12	Elderly	4/22/2024 2:09 PM
13	Homes with no basement Homes close to large pine trees	4/15/2024 7:00 PM
14	Western ave flooding and now homes and basements are backing up with construction of new SUNYA building on state campus and Western ave apt building.	4/14/2024 7:03 PM
15	People of limited means	4/13/2024 9:25 AM
16	The elderly and those who live alone and may not be able to help themselves in event of a disaster.	4/13/2024 1:17 AM
17	Wolf road, people in dead end streets	4/12/2024 9:11 PM
18	Not sure	4/11/2024 9:23 PM
19	ELDERLY	4/10/2024 7:14 PM
20	All	4/10/2024 4:49 PM
21	Older residents, schools, homes near creeks and rivers.	4/10/2024 4:46 PM
22	Elderly	4/10/2024 4:40 PM
23	Older adults	4/10/2024 4:31 PM
24	Low income people in the inner cities.	4/10/2024 2:06 PM

Albany County Hazard Mitigation Plan Update - Public Input Survey

25	properties in the flood zones	4/10/2024 2:05 PM
26	Poor and elderly. Those that live in congregate housing and those with limited transportation at their disposal.	4/10/2024 8:51 AM
27	Elderly	4/10/2024 8:43 AM
28	Getting sick	4/10/2024 8:01 AM
29	Low areas of poor drainage	4/10/2024 6:38 AM
30	Assisted living facilities.	4/9/2024 6:12 PM
31	Nursing homes, the elderly, underserved and rural residents	4/9/2024 4:34 PM
32	Older people.	4/9/2024 4:18 PM
33	Elderly and lower income families	3/20/2024 12:08 PM
34	Elderly and disabled.	3/20/2024 6:02 AM
35	Elderly	3/19/2024 10:27 PM
36	Residents on Van Schaick Island experience flooding...electric transformers	3/19/2024 2:06 PM
37	Homeless, section 8 housing, etc.	3/19/2024 12:28 PM
38	People that live in flood zones and the business	3/19/2024 12:01 PM

DRAFT

Q7 What other concerns do you have about these hazards?

Answered: 26 Skipped: 36

#	RESPONSES	DATE
1	Trees are the biggest issue I believe in Bethlehem. There are a lot of old soft pines that seem to come down when ice storms or thunderstorms that are bad. This effects the power lines and once the power goes out it can be hard on residents who don't have generators to heat or cool their houses.	6/5/2024 5:34 AM
2	NA	5/17/2024 9:10 AM
3	Making my property uninhabitable	5/13/2024 9:27 AM
4	The impact to the community	5/10/2024 7:35 AM
5	N/A	5/8/2024 12:57 PM
6	Infrastructure and roads that cannot handle extreme weather.	4/29/2024 4:24 PM
7	flooding due to creek not being cleaned out	4/22/2024 9:56 PM
8	Available resources to respond to these hazards.	4/22/2024 2:09 PM
9	Woodbridge pump station already overloaded and city keeps adding new buildings to this line with flooding in basements and streets as a result	4/14/2024 7:03 PM
10	None	4/13/2024 9:25 AM
11	None	4/13/2024 1:17 AM
12	None	4/12/2024 9:11 PM
13	None	4/11/2024 9:23 PM
14	I CANT GO OUTDOORS ANYMORE BECAUSE OF HIGH LEVEL OF NOISES FROM TRAFFIC ON NYS THRUWAY. MORE SOUND BARRIERS NEEDED.	4/10/2024 7:14 PM
15	Extended power outages	4/10/2024 4:49 PM
16	Response times and responder resources will be challenged with increasingly unstable weather. Power grid is too fragile.	4/10/2024 4:46 PM
17	Power outages and fallen trees. Snow removal	4/10/2024 4:40 PM
18	none	4/10/2024 2:05 PM
19	loss of electricity and inability to have heat, water, cooling, etc.	4/10/2024 8:43 AM
20	Resources will not be utilized to their potential and/or even notified or contacted	4/10/2024 6:38 AM
21	The most recent storm seriously impacted travel and responses from emergency agencies. Also the very limit communications via the 800mgz radio system.	4/9/2024 4:34 PM
22	Albany County hilltowns to the south need more emergency responders due to its rural areas.	3/20/2024 12:08 PM
23	Long duration power outages.	3/20/2024 6:02 AM
24	I am not concerned for myself or my family, specifically, but I am worried that the changing climate will increase our instances of severe weather. With that will be more power outages and other damage to homes and businesses. Specifically, I think that our utility infrastructure is old and desperately needs an upgrade, and it doesn't seem as though National Grid is working fast enough or thoroughly enough to be prepared for *preventing* outages by upgrading lines and systems. I would rather see the utility upgrade systems proactively than react every time the wind blows and the power goes out. Our community has power outages almost every time there's heavy rain or a little wind.	3/19/2024 3:26 PM

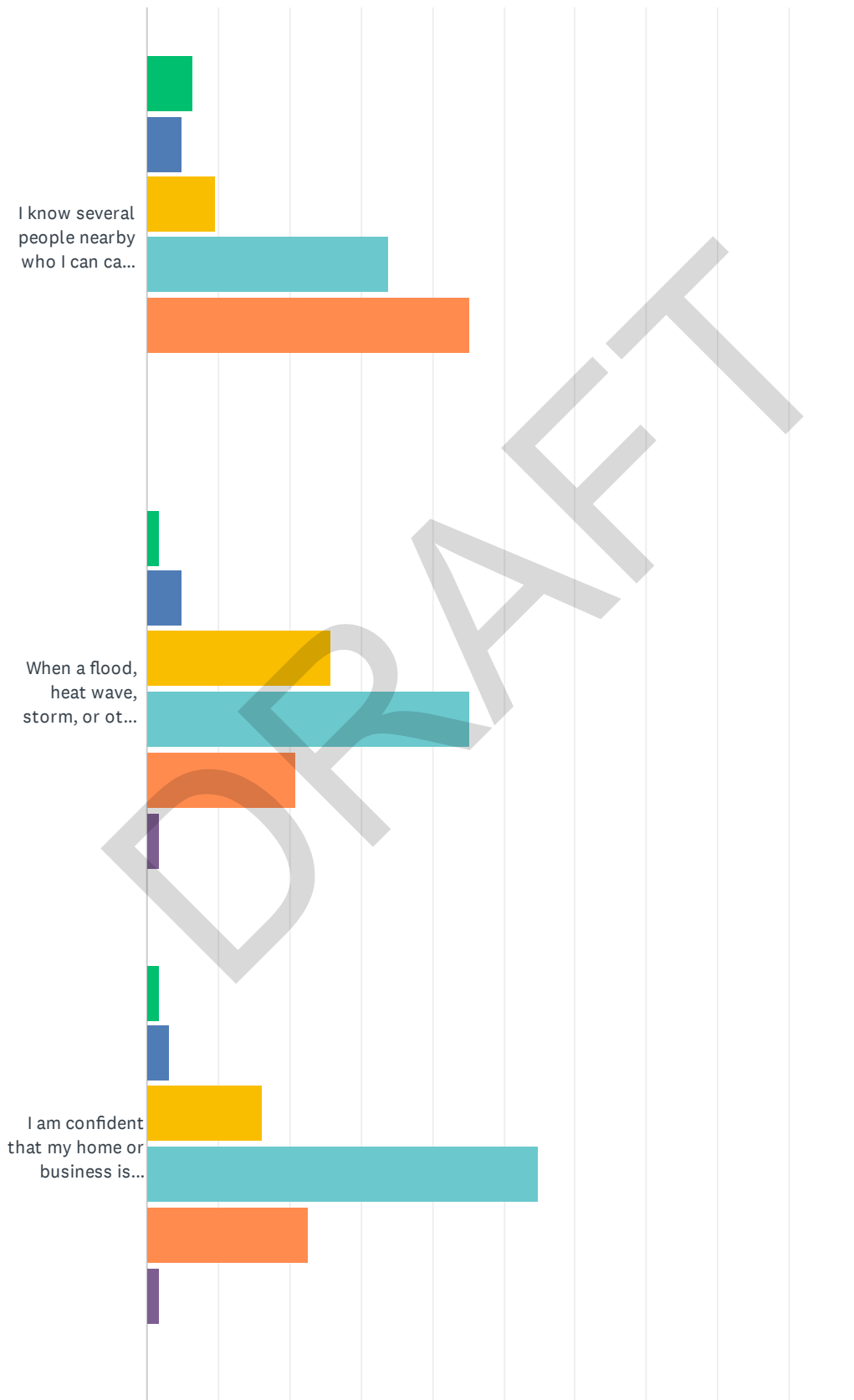
Albany County Hazard Mitigation Plan Update - Public Input Survey

25	Cause city wide power outages all year long...	3/19/2024 2:06 PM
26	n/a	3/19/2024 12:28 PM

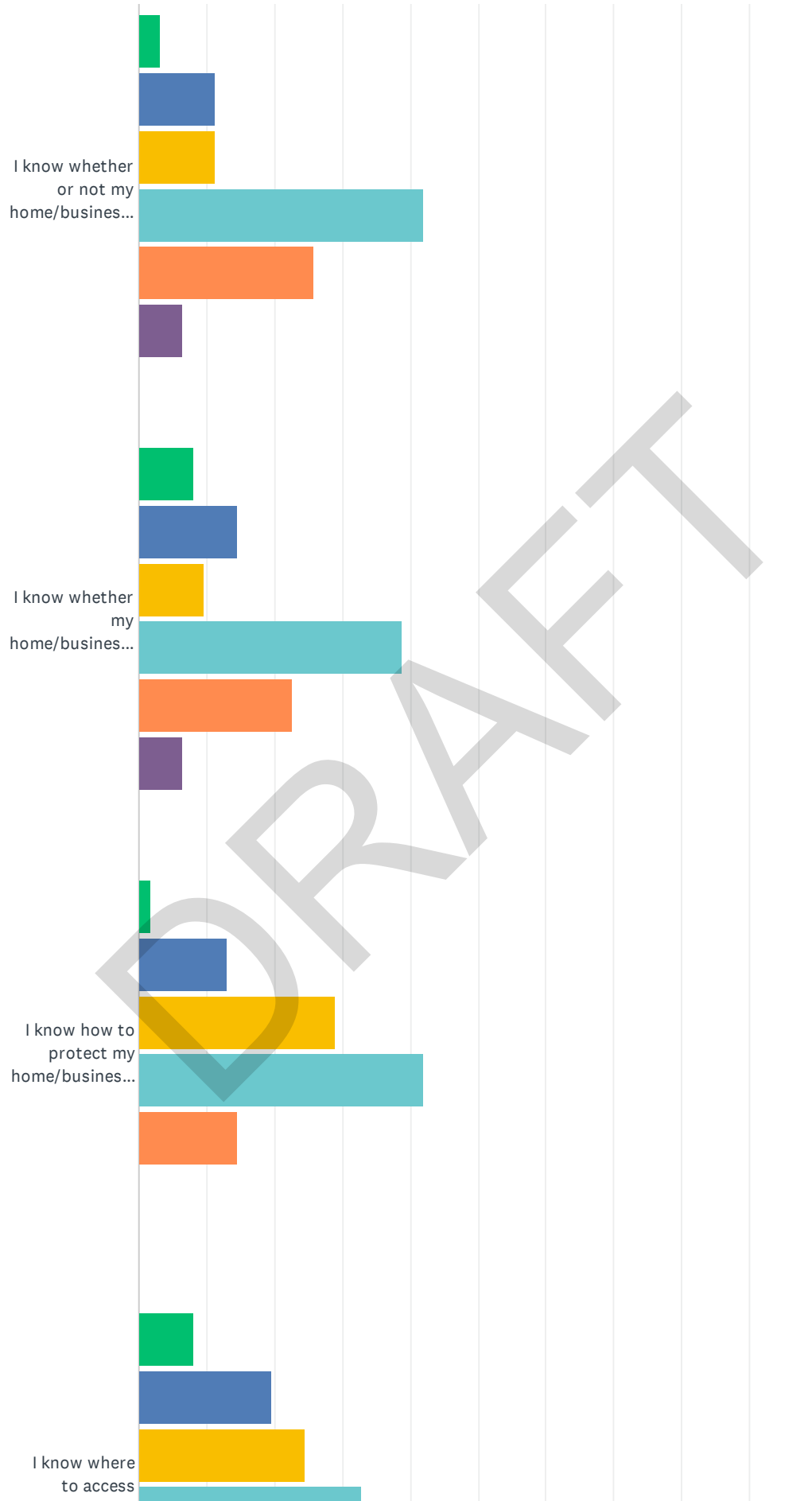
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Q8 Please rate how well each of the following statements describes you.

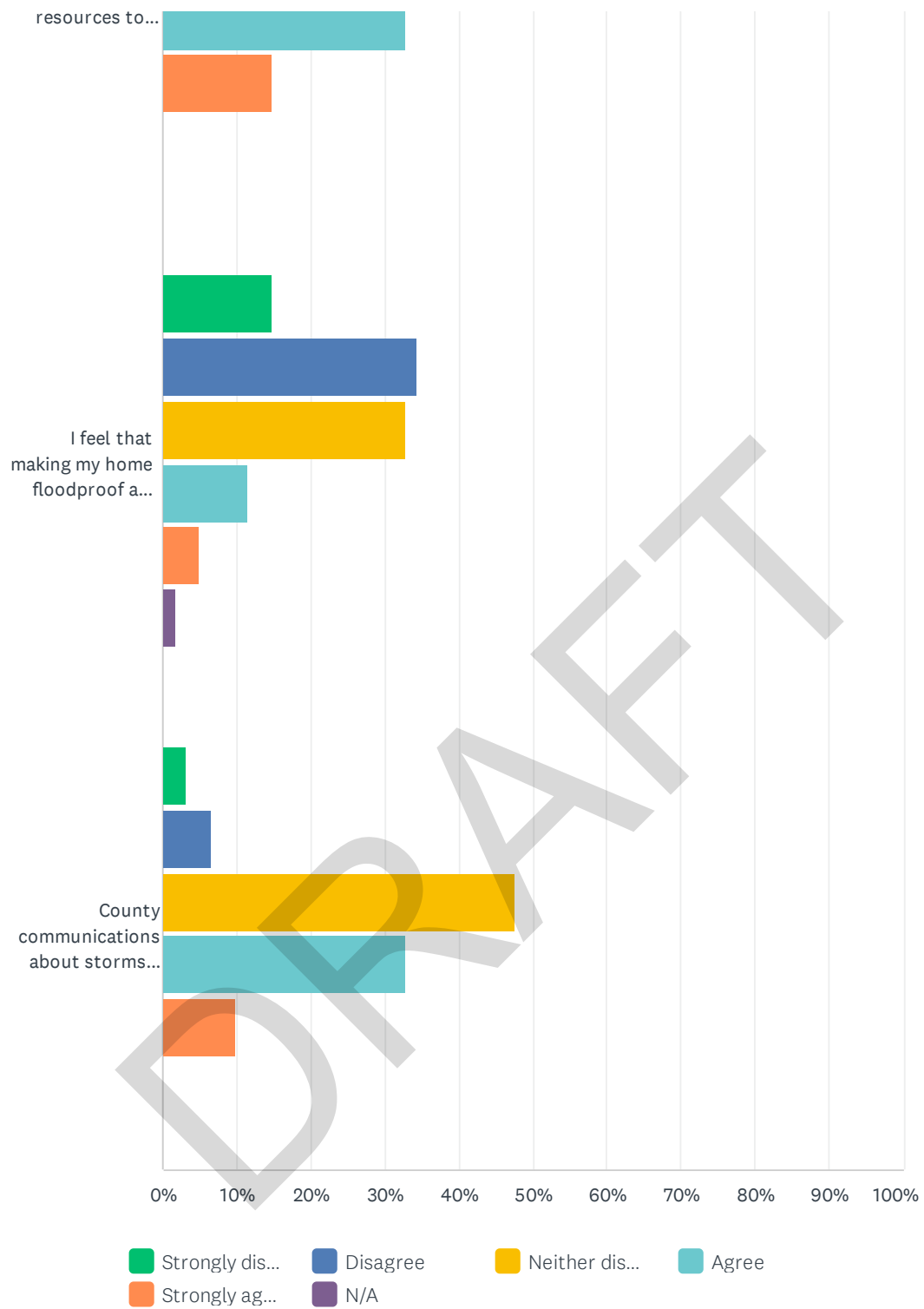
Answered: 62 Skipped: 0



Albany County Hazard Mitigation Plan Update - Public Input Survey



Albany County Hazard Mitigation Plan Update - Public Input Survey

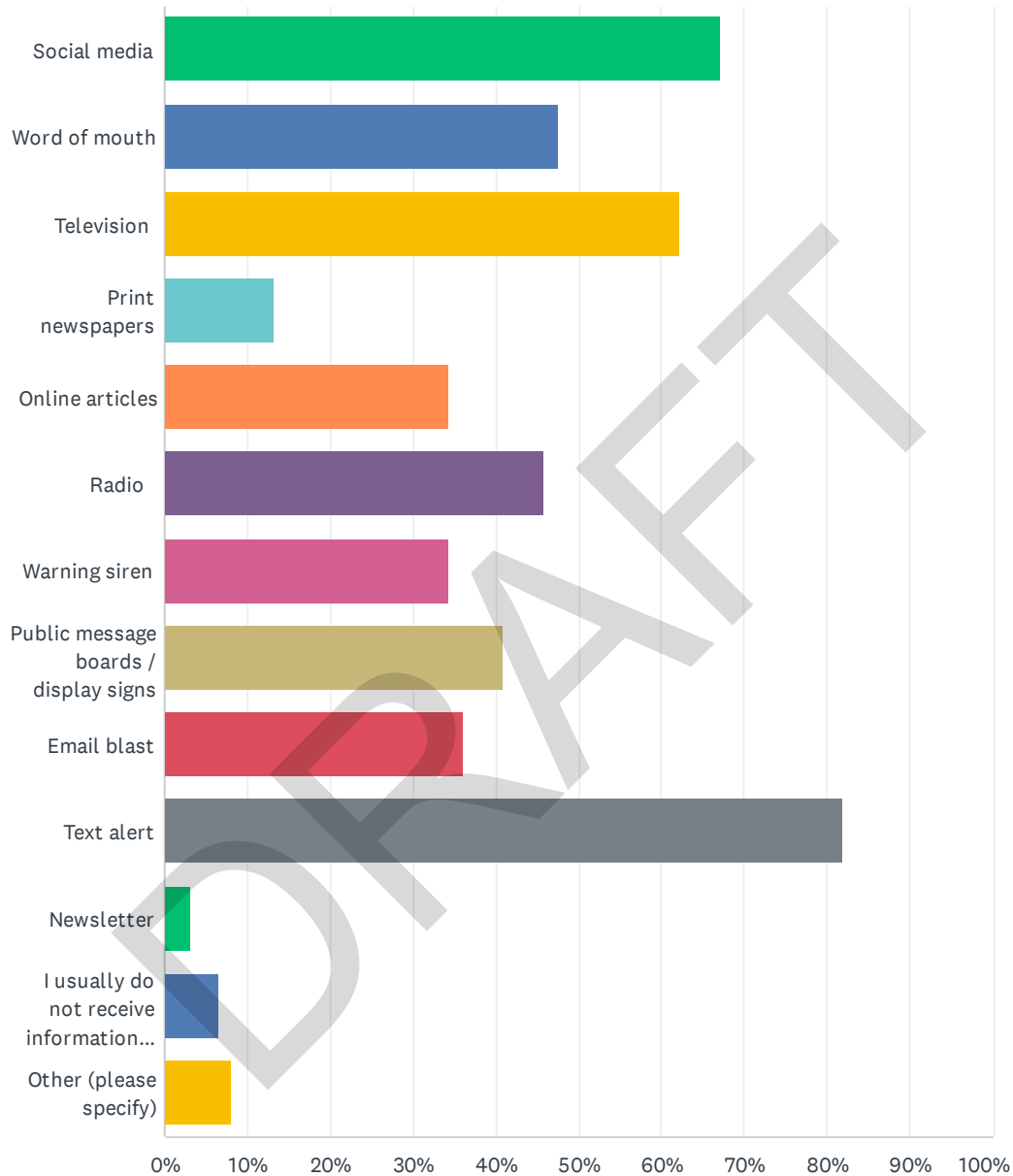


Albany County Hazard Mitigation Plan Update - Public Input Survey

	STRONGLY DISAGREE	DISAGREE	NEITHER DISAGREE NOR AGREE	AGREE	STRONGLY AGREE	N/A	TOTAL	WEIGHTED AVERAGE
I know several people nearby who I can call if I need help in a disaster.	6.45% 4	4.84% 3	9.68% 6	33.87% 21	45.16% 28	0.00% 0	62	4.06
When a flood, heat wave, storm, or other hazard hits, I usually check in on my neighbors.	1.61% 1	4.84% 3	25.81% 16	45.16% 28	20.97% 13	1.61% 1	62	3.80
I am confident that my home or business is adequately insured in the event of a major loss.	1.61% 1	3.23% 2	16.13% 10	54.84% 34	22.58% 14	1.61% 1	62	3.95
I know whether or not my home/business is in a floodplain.	3.23% 2	11.29% 7	11.29% 7	41.94% 26	25.81% 16	6.45% 4	62	3.81
I know whether my home/business is at risk from a landslide.	8.06% 5	14.52% 9	9.68% 6	38.71% 24	22.58% 14	6.45% 4	62	3.57
I know how to protect my home/business from natural disasters.	1.61% 1	12.90% 8	29.03% 18	41.94% 26	14.52% 9	0.00% 0	62	3.55
I know where to access resources to help make my home floodproof or stormproof.	8.20% 5	19.67% 12	24.59% 15	32.79% 20	14.75% 9	0.00% 0	61	3.26
I feel that making my home floodproof and stormproof is affordable.	14.75% 9	34.43% 21	32.79% 20	11.48% 7	4.92% 3	1.64% 1	61	2.57
County communications about storms, floods, and other natural hazards are prompt and effective.	3.28% 2	6.56% 4	47.54% 29	32.79% 20	9.84% 6	0.00% 0	61	3.39

Q9 How do you receive your information concerning a disaster? (Select all that apply)

Answered: 61 Skipped: 1



Albany County Hazard Mitigation Plan Update - Public Input Survey

ANSWER CHOICES	RESPONSES	
Social media	67.21%	41
Word of mouth	47.54%	29
Television	62.30%	38
Print newspapers	13.11%	8
Online articles	34.43%	21
Radio	45.90%	28
Warning siren	34.43%	21
Public message boards / display signs	40.98%	25
Email blast	36.07%	22
Text alert	81.97%	50
Newsletter	3.28%	2
I usually do not receive information until the disaster is already occurring.	6.56%	4
Other (please specify)	8.20%	5
Total Respondents: 61		

#	OTHER (PLEASE SPECIFY)	DATE
1	as a member of fire department, prepared	5/5/2024 4:56 PM
2	Weather Apps	4/24/2024 5:05 PM
3	Fire siren	4/12/2024 9:11 PM
4	Fire radio as a first responder	4/10/2024 4:49 PM
5	Nixel	4/9/2024 11:16 PM

Q10 What topics are most important for the County to educate the public about, related to natural hazards?

Answered: 35 Skipped: 27

#	RESPONSES	DATE
1	Who to contact when you need help. Where to go if you can't stay at home. Communication for private neighborhoods who still pay taxes but don't seem to get the same help as other neighborhoods.	6/5/2024 5:34 AM
2	preparedness, resiliency	5/17/2024 9:10 AM
3	Area most impacted, instructions on what to do and where to go if you must evacuate.	5/13/2024 9:27 AM
4	Where they are and how they will be addressed	5/10/2024 7:35 AM
5	Storm events Extreme Temps	5/9/2024 1:29 PM
6	Provide links and more info on available resources, expectations regarding effects from climate change (increased frequency, intensity and/or duration of events, more frequent flash flooding), BMPs to protect against natural hazards, the facts about regional climate shift, points of contact info	5/8/2024 12:57 PM
7	treat all electric lines as live, do not drive through water that is going over the road, road closer	5/5/2024 4:56 PM
8	How to storm proof their home or where to go.	4/29/2024 4:24 PM
9	Preparedness, how to have food on hand water and generator/ heat options	4/24/2024 5:05 PM
10	where one can go in an emergency such as a fire house	4/22/2024 9:56 PM
11	How to prepare for natural hazards.	4/22/2024 2:09 PM
12	Do not ignore the warnings	4/15/2024 7:00 PM
13	Flooding, water damage, and tree damage with high winds	4/14/2024 7:03 PM
14	Don't panic	4/13/2024 9:25 AM
15	Flooding mitigation and protection.	4/13/2024 1:17 AM
16	Where and when to get to a safe place	4/12/2024 9:11 PM
17	Staying home during the emergency.	4/11/2024 2:43 PM
18	NOISE POLLUTION NYS THRUWAY	4/10/2024 7:14 PM
19	Cold and heat	4/10/2024 6:43 PM
20	Resources, where they can go	4/10/2024 4:49 PM
21	Looming increases in unstable weather due to rapidly changing climate. Keeping off roads during hazardous conditions. More preparation for power outages. Recognition of the consequences of sea level rise for the Hudson and its tributaries.	4/10/2024 4:46 PM
22	Weather	4/10/2024 4:40 PM
23	Storm	4/10/2024 4:31 PM
24	safe travel	4/10/2024 2:05 PM
25	Preparation and mitigation of loss	4/10/2024 8:43 AM
26	Available resources and safe areas of refuge	4/10/2024 6:38 AM
27	The availability and transportation to fire departments, ems agencies, etc. Planning should take place for the availability of public service facilities.	4/9/2024 11:16 PM

Albany County Hazard Mitigation Plan Update - Public Input Survey

28	Flood, storms,	4/9/2024 5:20 PM
29	To stay away from down wires	4/9/2024 4:35 PM
30	Flood waters, power outage,	4/9/2024 4:18 PM
31	Preparedness and how to evacuate. Where to get information leading up to and during a disaster.	3/20/2024 6:02 AM
32	Where to go in the event of an emergency, updates on power outages, road closures and storms	3/19/2024 2:06 PM
33	Where are fall out shelters?	3/19/2024 1:35 PM
34	How to protect oneself from extreme temperatures at low cost	3/19/2024 12:28 PM
35	Flood	3/19/2024 12:01 PM

DRAFT

Q11 What, in your opinion, would help make Albany County stronger and more resilient in the event of a natural disaster?

Answered: 31 Skipped: 31

#	RESPONSES	DATE
1	Keeping infrastructure up to date and all old drainage, power lines, trees replaced and taken down.	6/5/2024 5:34 AM
2	shelters, evacuation routes, cooling/warming centers, supplies, tax holidays	5/17/2024 9:10 AM
3	Improve infrastructure and communication	5/13/2024 9:27 AM
4	Public knowledge and quick response to emergency's	5/10/2024 7:35 AM
5	Planning in advance / communication	5/9/2024 1:29 PM
6	Upsizing stormwater drainage infrastructure, restricting development from within flood plains, updating aged infrastructure, educating the masses about causes and effects of climate change (and regional climate shift)	5/8/2024 12:57 PM
7	The number of volunteers , in the volunteer fire departments, that can get to the location of the event, to minimize the impact to the community. We have had them before, we have talked about them. We have talked about how we can improve our response .	5/5/2024 4:56 PM
8	Prevention of the roads flooding.	4/29/2024 4:24 PM
9	Designated areas for people to go if they need help, warmth or supplies. With a recent ice storm many people were without power or heat for days in very cold temperatures outside causing health concerns.	4/24/2024 5:05 PM
10	warning signal or alert that is loud	4/22/2024 9:56 PM
11	More funding for emergency services.	4/22/2024 2:09 PM
12	Better back roads. Permanent fixes on Krumkill rd would be very valuable	4/15/2024 7:00 PM
13	Better water management, need to update systems and help impacted neighborhoods .	4/14/2024 7:03 PM
14	Training scenarios for first responders	4/13/2024 9:25 AM
15	N/A	4/13/2024 1:17 AM
16	Not sure	4/11/2024 9:23 PM
17	NEIGHBORHOOD WATCH GROUPS	4/10/2024 7:14 PM
18	Improve planning to protect against future flooding (we need more naturally resistant floodplains). Total ban on other degradation of wetlands.	4/10/2024 4:46 PM
19	Increase up to date information	4/10/2024 4:40 PM
20	I don't know	4/10/2024 4:31 PM
21	municipal pre-plans	4/10/2024 2:05 PM
22	Not predicting catastrophic outcomes for mediocre events every time via media, taking the urgency out of real events.	4/10/2024 8:43 AM
23	Inclusion of all emergency services in mitigation response plans	4/10/2024 6:38 AM
24	Communication and Planning	4/9/2024 11:16 PM
25	Keeping residents informed. Being proactive and not reactive	4/9/2024 5:20 PM
26	Radio communications for first responders	4/9/2024 4:34 PM

Albany County Hazard Mitigation Plan Update - Public Input Survey

27	More emergency responders in the rural hilltowns.	3/20/2024 12:08 PM
28	Consolidation of the many fire departments.	3/20/2024 6:02 AM
29	I think the county needs to advocate to the utilities (i.e. National Grid) on residents' behalf to upgrade our power systems and prevent outages. I am not sure if there's a text alert system for the county (I do receive some text alerts from my town), but this could be helpful also. Perhaps even phone-based alerts for elderly residents who might not use texting or mobile phones would be helpful. I think communication is very important and people need to be able to receive information if cable TV and digital phones are down.	3/19/2024 3:26 PM
30	Coordinated communication and services with all municipalities in the County	3/19/2024 2:06 PM
31	Continue updating infrastructure	3/19/2024 12:01 PM

DRAFT

Q12 Additional comments

Answered: 3 Skipped: 59

#	RESPONSES	DATE
1	As president of a private road HOA we have to pay for every repair that happens to the neighborhood. We are preparing for this but it would be nice to know who to call in case of this. With a private road we are responsible of the maintenace and if a natural hazard happens who would we call for help. This is a really big concern for me.	6/5/2024 5:34 AM
2	I hope this makes a difference.	4/14/2024 7:03 PM
3	WHAT IS ALBANY DEPT OF AGING ROLE IN SOLVING THESE PROBLEMS	4/10/2024 7:14 PM

DRAFT



Albany County Hazard Mitigation Plan Update
Floodplain Management Roundtable

Emergency Management Office
58 Verda Ave., Clarksville, NY

Thursday, July 18, 2024
9:00am-11:00am

Agenda and Discussion Questions

Department of Environmental Conservation Training (9:00 am – 10:00 am)

Floodplain Management Discussion (10:00 am – 11:00 am)

1. Hazard Mitigation Plan Overview
2. Programs and Policy Integration
 - a. What education and awareness programs do you feel are most effective to educate your community about flooding?
 - b. What additional programs, policies, resources, etc. would you like to see in your jurisdiction to better protect your municipality from flooding?
 - c. How could flood mitigation measures be integrated into other plans, like comprehensive or capital improvement plans, in order to reduce flooding?
3. Land use development
 - a. What land development practices do you feel are most effective at reducing the risk of flooding?
4. Critical Facilities Discussion
 - a. Are there any facilities in your jurisdiction that have been protected against flooding?

- b. For facilities that are not protected from flooding, how feasible would it be to conduct vulnerability assessments on these facilities?
 - c. Do you have any experience implementing flood protection measures for municipal facilities? If yes, what flood protection measures for critical facilities do you feel are most feasible?
- 5. NFIP Regulation/Enforcement
 - a. How are local floodplain management regulations implemented and enforced in your jurisdiction, in order to regulate and permit development in SFHAs?
 - b. What additional support would you like to see from state agencies or the County to assist in NFIP program implementation?
- 6. Other Flood Mitigation Projects
 - a. Do you have any other flood mitigation projects or ideas you would like to share? (e.g. successful projects or project ideas)
 - b. Are there any actions that you would like to see the County implement to mitigate the risk or impact of flooding?
 - c. Are there any actions that you would like to see your jurisdiction implement to mitigate the risk or impact of flooding?
- 7. Additional Information
 - a. Anything else you would like to share?

Please return answers in-person or email to Margaret Thurston (mthurston@bartonandloguidice.com). Thank you for participating!

Albany County Hazard Mitigation Plan Update Floodplain Managers Roundtable

Class _____

Instructor _____

Location 58 Verda Ave, Clarksville, NY

(Emergency Management Office)

Date 7/18/24 Time 9:00-11:00 AM

Name	Organization	Title	Phone	Email
Joe Burns	Village of Ravena	C.E.O		
Jason J. Charnielewicz	Town of Coeymans	C.E.O		
Scott DeBacco	Town of Coeymans	C.E.O.		
Jayne Breschard	Albany Barboursburg	Senior Managing Plan		
Anders Blumbers	Town of Colonie	Acting Director of Planning		
MATT McCarry	Town of Colonie	Commissioner of Public Works		
Dave Rouse	Algo	Deputy Director of Planning		
STEVEN MASOJA	Village of Voorheesville	C.E.O		
Elizabeth O'Reilly	NYS DHSES	Planning Manager		
Monica Masoja	NYS DHSES	Planning Manager		
Scott Fawcett	NYS DHSES	Planning Manager		
John Wilkerson	NYS DHSES	Env Specialist		
Kelli Higgins-Rocha	NYS DEC	NYS DEC Coordinator		

Class

Location

Date _____ Time _____

Page 2



Albany County Hazard Mitigation Plan Update Implementation Meeting

Tuesday, July 30, 2024
11:30am-12:30pm

Summary

1. Monitoring, Evaluation, and Updates

- a. The County Executive office will take the lead on implementing, monitoring, evaluating, and updating the plan. The following is a general strategy and will be continuously developed as needed throughout the 5 years until the next plan update.
- b. For **monitoring** (tracking the plan for progress), the County Executive Office will put together an internal action committee with County departments, which will meet on an as-needed basis. This can include County entities such as the Department of Economic Development, Conservation and Planning; DPW; and DGS, as well as external partners such as the Pine Bush Preserve, SWCD, and Stormwater Coalition. Additionally, they will maintain a list of jurisdictional contacts, hold quarterly meetings with jurisdictions, and have a shared spreadsheet where municipalities can update the status of their actions.
- c. For **evaluation** (assessing how well the plan meets its goals), the County Executive office or internal action committee can put out a survey to municipal representatives every 6 months to evaluate how well the plan is working.
- d. For plan **updates**, the policy analyst (Patrick Curran) or sustainability coordinator (Luke Rogers) would take the lead. They would reach out to County departments and municipalities as needed. If the County decides to utilize an external consultant, they would put together an RFP about 18-24 months before the plan expires. If a major disaster event occurs, the County Executive Office will reconvene the Executive Steering Committee and/or internal action committee, and work with the Sheriff's Office and Emergency Management, to assess if and how the plan should be revised.

2. Implementation and Incorporation into Planning Mechanisms

- a. Previous HMP – Pat will follow up with the Director of Operations, who spearheaded previous plan update, to see how the County and jurisdictions integrated information from the previous HMP into planning mechanisms.
- b. Current HMP – The current Hazard Mitigation Plan Update will be incorporated into the following planning mechanisms and processes:

Mechanism	How HMP Will be Incorporated
Emergency Planning	Hazard risk assessment, vulnerability data, and mitigation actions included in the HMP will be reviewed during emergency planning. The County will work with the Sheriff's office on developing a general emergency management plan or disaster mitigation plan.
Annual Budget	Mitigation actions will be considered when setting the annual budgets for the County and all participating jurisdictions. Policy staff from the County Executive's Office and staff from the Division of Management and Budget will collaborate on this.
Legislative Review	Mitigation actions that have significant costs or relate to general County improvements will pass through the legislative process for approval before being implemented.
Climate Action Plan	Mitigation actions from Hazard Mitigation Plan will be assessed during the development of the County's forthcoming Climate Action Plan, and incorporated into the plan as appropriate.

Mechanism	How HMP Will be Incorporated
Grant Applications and Other Funding Opportunities	The County regularly reviews potential funding sources to apply for. The County Executive Office will keep a lookout for funding opportunities for both County mitigation actions and municipal mitigation actions. They will email funding resources to municipal leaders, emergency management groups, and County departments when these funding sources arise. Data and maps from the HMP will be used as supporting documentation in grant applications. Mitigation actions included in the Plan will be heavily considered during application submission and fund allocation.
Capital Improvement Planning	The County Executive Office will collaborate with the Division of Management and Budget to review the availability of funding for mitigation actions, review current and future projects for hazard vulnerability, and incorporate hazard resistant construction standards into the design and location of potential projects as appropriate.
Site Plan Review	The County Executive Office will share the HMP with the County Planning Board and relevant organizations. Additionally, the County will evaluate whether to add a line to the 239 review process related to compliance and consideration of the HMP. If implemented, this change will be included in any resources related to site plan review (e.g. online resources) and communicated with jurisdictions.
Land Use Regulations	The County Executive Office will coordinate with local, county, state, and federal agencies regarding land use regulations that may relate to Hazard Mitigation Planning. The County has a general mailing list of organizations, and can share the HMP with these organizations and send updates and information as needed.
Other County Policies	The County Executive Office will evaluate potential policy language updates that may be completed in order to emphasize HMP efforts. Additionally, the County Executive Office will provide the Hazard Mitigation Plan as a resource to the County Legislature when policies that relate to hazard mitigation are being developed or updated. If applicable, the Executive Office will mention what specific part of the HMP could apply to the draft law or policy.
County Capacity	As resources permit, County departments will implement items in the County's mitigation action titled "Increase County Capacity to Support Resilience Efforts." This includes increases in staff capacity, County processes, and more to increase resilience to natural hazards.
Intermunicipal Agreements	The County Executive Office will encourage jurisdictions to create Intermunicipal Agreements (IMAs) to implement mitigation actions as necessary. The County may develop a list of resources for jurisdictions in creating these IMAs.
Jurisdictional Planning Mechanisms	The County Executive Office will remind jurisdictions of the HMP and encourage them to comply and align with the HMP when they are updating zoning ordinances, comprehensive plans, economic development plans, site plan review, and emergency management plans. Jurisdictions will incorporate the HMP into planning mechanisms as described in the jurisdictional annexes.

3. Public Involvement

- a. The County will continue to seek future public participation after the plan has been approved, through a general interactive website that would provide information about the plan. This may be a County website or an individual website about the hazard mitigation plan. The website may have an interactive component such as a story map with the profiled hazards, and/or a place for the public to submit feedback. Additional information will be communicated through the County's media team, including social media updates.



Albany County Hazard Mitigation Plan – 2024 Update

PROJECT TEAM KICKOFF MEETING

Wednesday, September 6th and Thursday, September 7th, 2023

Agenda

1. Hazard Mitigation Planning Overview
2. Polling Exercise
3. B&L Approach
4. Jurisdiction Participation
5. Project Schedule and Next Steps



ONLINE POLLING

- Have a computer/mobile device available
- Submit answers via **pollev.com/gracedesantis875** (recommended) or by text message

About Us (the Consultant Team)



Role: Project Management, Community Profiles, Municipal Interviews, Risk Assessment, Mitigation Strategy, Public Outreach & Engagement



Role: Project Management Support, Civil/Site Engineering, Survey, Hydrography

What is Hazard Mitigation?

Hazard mitigation reduces the risk that natural hazards pose to critical community assets. It focuses on long-term risk reduction, and can occur at any phase of the emergency management cycle.



Hazard Mitigation Planning

- The Disaster Mitigation Act of 2000 requires state, local, tribal and territorial governments to have a FEMA-approved mitigation plan in order to be eligible for mitigation project funding.
 - Updates every 5 years
 - Follow the updated FEMA and NYS standards
- Albany County received a grant from FEMA to update the 2018 Multi-Jurisdictional Hazard Mitigation Plan.



Hazard Mitigation Plan Update

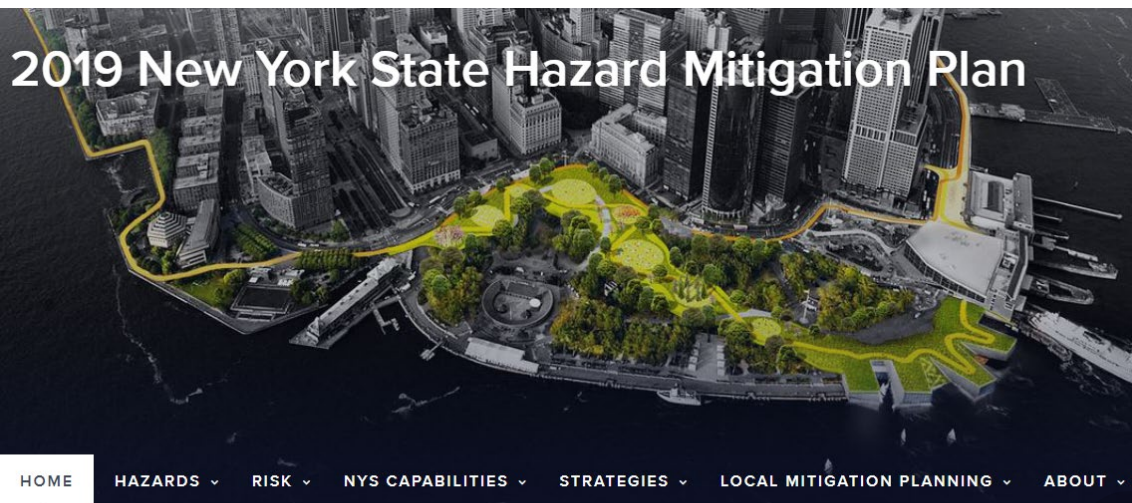
Albany County received a grant from FEMA to update the 2018 Multi-Jurisdictional Hazard Mitigation Plan.

Plan Components:

- County Profile
- Planning Process
- Risk Assessment
- Hazard Profiles
- Hazard Vulnerability Assessment
- Mitigation Goals and Strategies
- Plan Implementation, Monitoring, and Maintenance
- Jurisdictional Annex for each municipality

New Elements to Consider

- Include representatives from a broad range of sectors, such as community lifelines and non-profits that support underserved communities.
- Consider the effects of climate change and other future conditions.
- Address existing mitigation plan requirements of the HHPD grant program to include all dam risks.
- Describe building codes and land use and development ordinances.



WELCOME TO MITIGATE NY, NEW YORK STATE'S HAZARD MITIGATION PLANNING WEBSITE!

As the severity and frequency of natural disasters increase, so does the devastation and exorbitant cost of recovery left in their wake. In recent years, national focus has taken a dramatic shift towards mitigation – sustained actions that reduce the loss of life and property by lessening the impact of disasters. New York State recognizes that the time to act is before disaster strikes.

Current research shows that for every \$1 spent on mitigation, an average \$6 is saved. However, since the largest amount of federal mitigation dollars becomes available following a declared disaster, resulting actions taken are inevitably reactive instead of proactive. In New York, we believe that the solution to this is to devote greater resources to mitigation planning – both at the state and local level.

MitigateNY

- *Optional* online platform for HMP content
- Example: Niagara County
<https://niagara.mitigateny.org/>

Past Hazard Profiles

In 2018, Albany County prioritized the following hazards:

1. Extreme Temperatures
2. Severe Thunderstorm/Wind/Tornado
3. Hurricanes and Tropical Storms
4. Floods
5. Drought
6. Landslides
7. Earthquakes
8. Winter Storm/Ice Storm
9. Wildfires
10. Ice Jams



Snowstorm in Albany, March 2023

2023 Planning Participants

Executive Steering Committee

The Executive Steering Committee will take the lead on the development of the Hazard Mitigation Plan update for Albany County. The Executive Steering Committee is composed of staff from several county departments. The Executive Steering Committee will meet regularly during the hazard mitigation planning process.

Key Stakeholders

The Key Stakeholders group serves in an advisory capacity during the development of Albany County's Hazard Mitigation Plan update. The group is composed of various members of the community and adjacent governments. The Key Stakeholders will be included on a database of contacts and regularly invites to project-related meetings and events.

Project Team

The Project Team is composed of at least one municipal representative from each jurisdiction within Albany County. The Project Team will assist with data collection, document review, and coordination efforts.

Online Polling

- I. Have a computer/mobile device available
- II. Submit answers online at **pollev.com/gracedesantis875** (recommended!)
- III. Or, submit answers by text message by texting **gracedesantis875** to **22333**



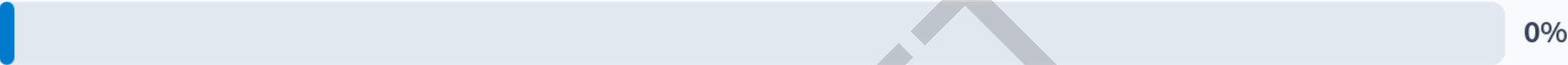
Attendance Tracker for Project Team Kickoff Meeting - 9/6/23

0 surveys completed

2 surveys underway

Have you participated in past Albany County HMP updates?

Yes



No



Which hazards have the greatest impact in your municipality? (Damage to property, crops, people)



SEE MORE 

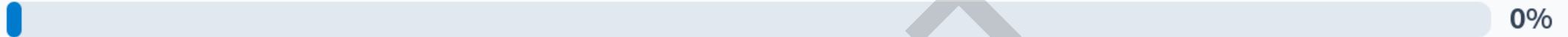
Which hazards occur the most often in your municipality?



SEE MORE ▾

Which hazards affect the largest area of your municipality?

Extreme Temperatures



0%

Severe Thunderstorm/Wind/Tornado



0%

Hurricanes and Tropical Storms



0%

Floods



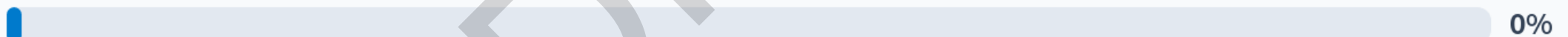
0%

Drought



0%

Landslides



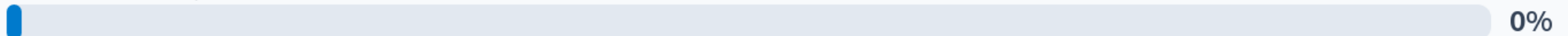
0%

Earthquakes



0%

Winter Storm/Ice Storm



0%

Wildfires

Which of the following infrastructural assets and services within your municipality are most vulnerable to natural hazards?



SEE MORE

Are there any other natural hazards of concern in your municipality that were not identified in the previous three questions? If yes, please describe:

Nobody has responded yet.

Hang tight! Responses are coming in.

Which residents within your community in Albany County are most vulnerable to natural hazards?

Nobody has responded yet.

Hang tight! Responses are coming in.

Are there any specific locations, facilities, or resources in your municipality that you are most concerned about being impacted by natural hazards?

Nobody has responded yet.

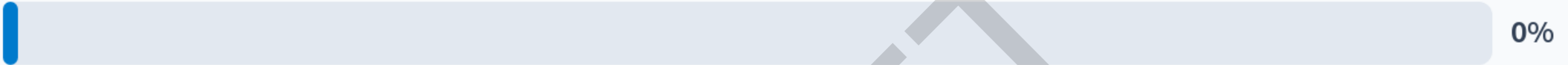
Hang tight! Responses are coming in.

How concerned are you about the impacts of climate change for your municipality in Albany County?



Which types of actions do you think can best reduce your residents' risk to natural hazards?

Local Planning and Regulations



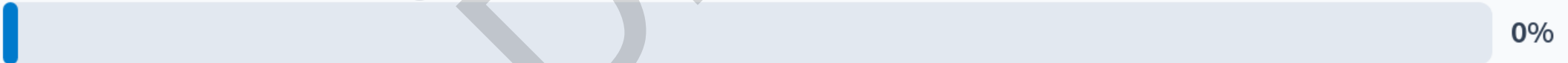
Structure and Infrastructure Projects



Natural Systems Protection (stabilizing erosion hazard areas, requiring water conservation during droughts, encouraging conservation easements).



Education and Awareness Programs



B&L Approach

- B&L will use a hybrid approach to community involvement and will provide a variety of engagement opportunities
- B&L will consider the needs and vulnerability of Albany County residents to provide mitigation strategies that are realistic and equitable in approach

Albany County Hazard Mitigation Plan Update Stakeholders Meeting



To Learn More:

When: Thursday, April 27, 2017 2:00 p.m.

Where: Cornell Cooperative Extension, 24 Martin Rd, Voorheesville, NY 12186

Why:

Albany County, in conjunction with Office of the Albany County Executive, are developing an update for the Hazard Mitigation Plan. The intention of this plan update is to meet the New York State and federal hazard mitigation planning requirements established and managed by the New York State Department of Homeland Security and Emergency Services' (DHSES) Office of Emergency Management (NYS OEM) and the FEMA.

Please accept our invitation to attend this Stakeholders Meeting. No one knows this county better than those who live and work there. Your input plays a key role in this plan and we would greatly appreciate your insight and participation.

Who Should Attend: Business Owners, Property Owners, Non-Profit Organizations, Government Officials, Developers and Realtors, Lenders, and Special Interest and Advocacy Groups.

Sponsored by the Albany County

If you have special needs due to a handicap please contact Scott Duncan, DPW Commissioner at (518) 765-2055



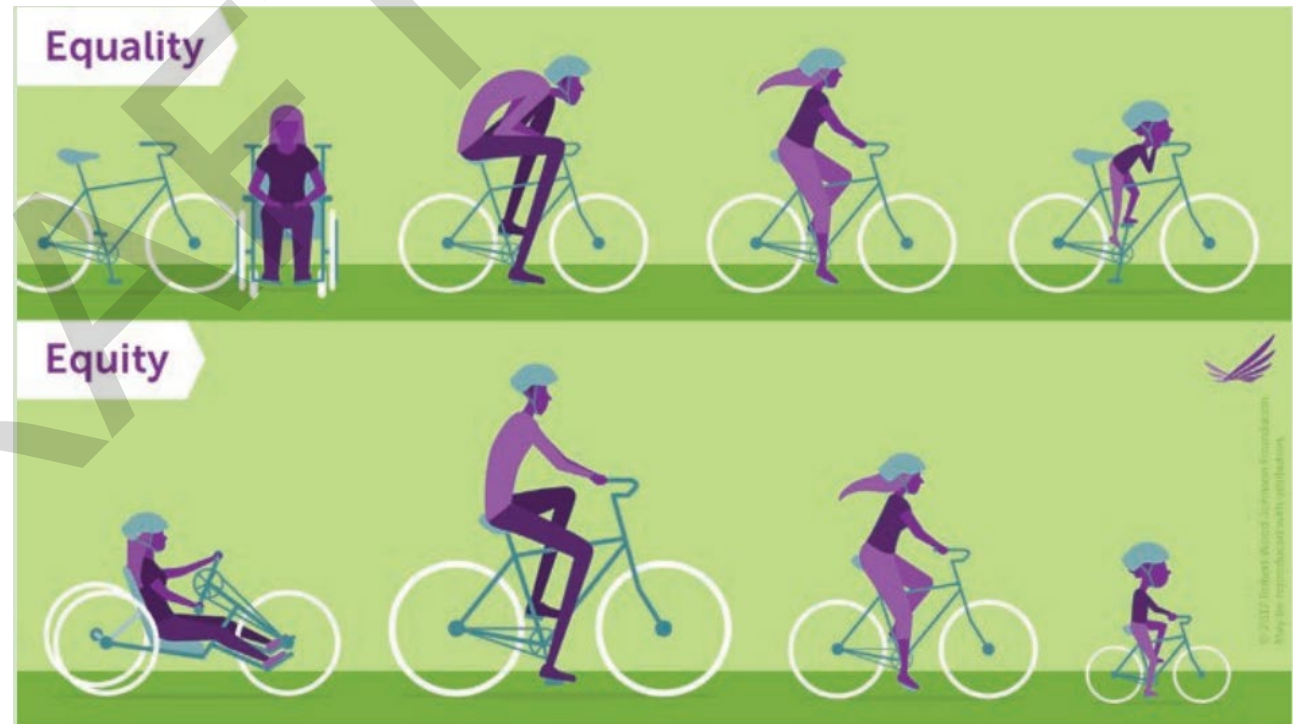
B&L Approach

Community Engagement Plan (CEP)

- This plan will outline who is involved in the HMP Update and how different groups will be involved in the process.

Elements of the CEP may include:

- Project Overview
- Project Players
- In-Person Meeting Engagements
- Online Engagement
- Engaging Underserved Communities within Albany County
- Engagement Timeline
- Hazard Mitigation Overview Handout



Mitigation Strategies

- Mitigation Strategies can represent the following categories:
 - Local Plans and Regulations
 - Structure and Infrastructure Projects
 - Natural Systems Protection
 - Education and Awareness Programs
- Strategies will take into account feedback from jurisdictions and the public, including underserved communities.



Jurisdiction Participation

- B&L will hold individual meetings with each jurisdiction
 - One primary meeting and follow-up, as needed
 - Virtual, in-person, or hybrid
 - Local planning team – consider including:
 - Local elected officials
 - Town/Village board members
 - Town/Village clerks
 - Planning board members
 - Highway/DPW superintendent
 - Water/sewer department staff
 - Floodplain administrator
 - Code enforcement
 - Local fire and police department officials
 - Health Department/Social Services
 - Nonprofits with knowledge of vulnerable communities



Why Participate?

- Hazard mitigation planning reduces loss of life and property by minimizing the impact of disasters
- Mitigation plans are key to breaking the cycle of disaster damage and reconstruction, which is expected to intensify with climate change
- By participating in and adopting the HMP, your community may be eligible for funding to reduce disaster losses and protect from future disaster damages:

In 2022, the Village of Pulaski, NY received \$1,000,000 for stormwater flooding improvements through a Pre-Disaster Mitigation Grant!

FEMA Assistance Programs

Hazard Mitigation Grant Program (HMGP)

Post Fire/Fire Management Assistance Grant

Pre-Disaster Mitigation Grant (PDMG)

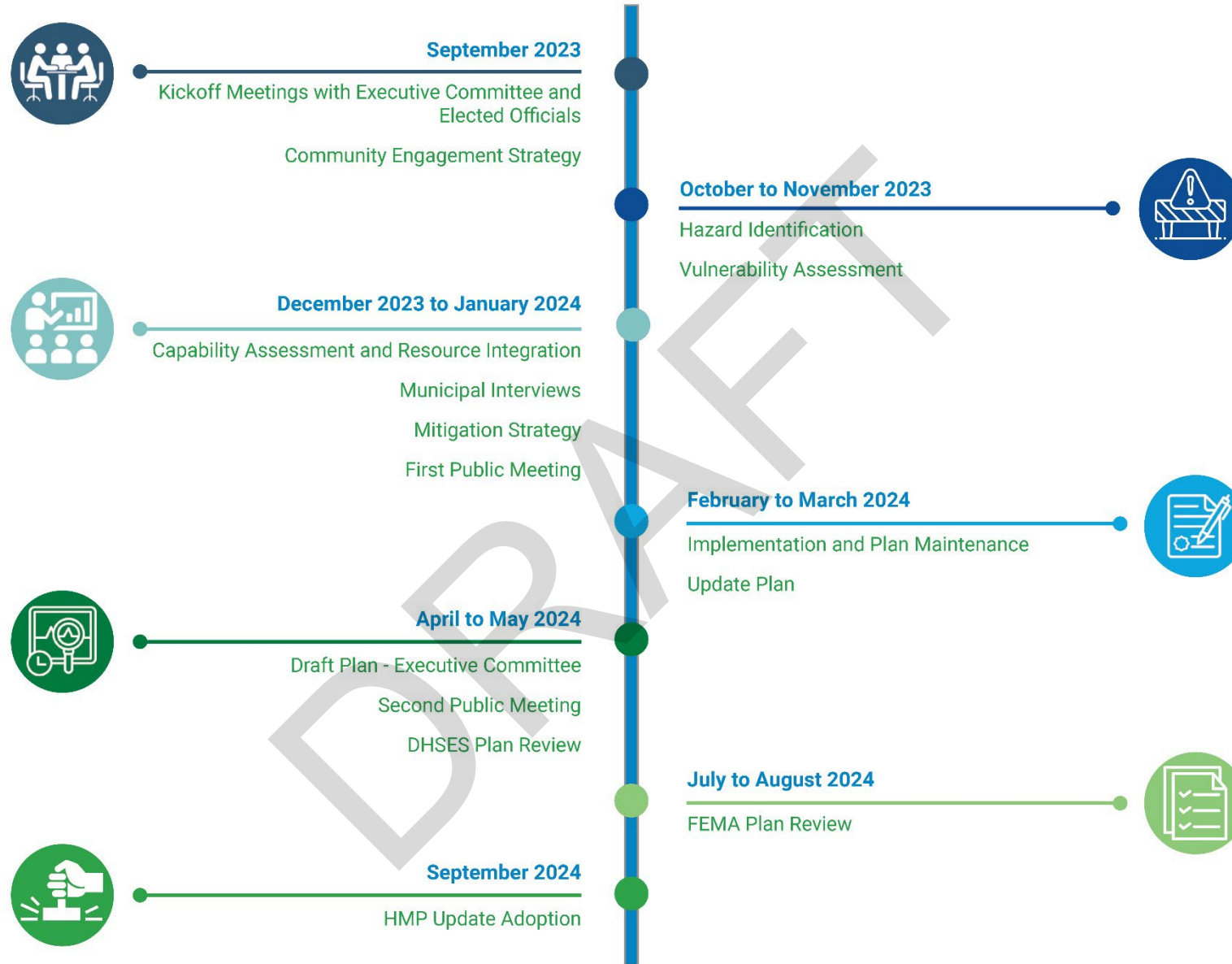
Building Resilient Infrastructure and Communities Program (BRIC)

Flood Mitigation Assistance Grant (FMA)

Rehabilitation of High Hazard Potential Dam (HHPD) Grant Program

Jurisdiction Participation Milestones

- ☒ Attend KICKOFF meeting
- ☐ Identify primary project contacts
- ☐ Attend at least one meeting to update information and develop new mitigation actions with B&L
- ☐ Review and update your jurisdiction's annex
- ☐ Pass board resolution for Approvable Pending Adoption (APA) by FEMA



Next Steps

- Please record attendance using the PollEv Attendance Tracker (to be shown again momentarily)
- Brainstorm local project team to participate in municipal meeting
- Sign-up for a meeting slot with B&L (link will be sent later in the project process)

Contact Us

- Jayme Breschard, Senior Managing Community Planner
(jbreschard@bartonandloguidice.com or 585-325-7190 x2247)

Please get in touch with any questions, comments or ideas.

THANK YOU!

Attendance Tracker for Project Team Kickoff Meeting - 9/6/23

0 surveys completed

2 surveys underway

Albany Co HMP Project Team Kickoff Meeting - 9/6/23

Current run (last updated Sep 6, 2023 2:05pm)

10

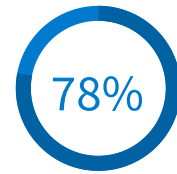
Activities

13

Participants

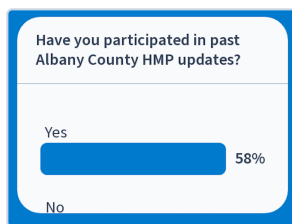
23

Average responses



Average engagement

Have you participated in past Albany County HMP updates?



Response options

Count Percentage

Yes

7

58%

No

5

42%

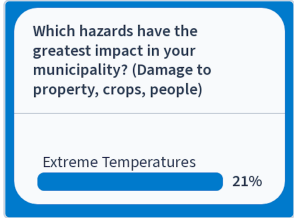


Engagement

12

Responses

Which hazards have the greatest impact in your municipality? (Damage to property, crops, people)



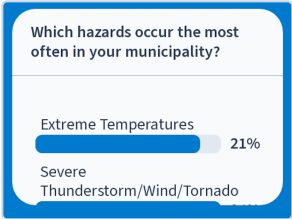
Response options	Count	Percentage
Extreme Temperatures	9	21%
Severe Thunderstorm/Wind/Tornado	9	21%
Hurricanes and Tropical Storms	1	2%
Floods	9	21%
Drought	0	0%
Landslides	1	2%
Earthquakes	0	0%
Winter Storm/Ice Storm	8	19%
Wildfires	0	0%
Ice Jams	6	14%



43

Responses

Which hazards occur the most often in your municipality?



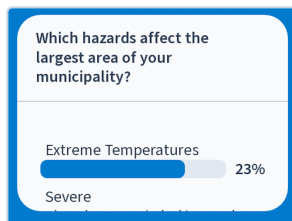
Response options	Count	Percentage
Extreme Temperatures	8	21%
Severe Thunderstorm/Wind/Tornado	9	24%
Hurrricanes and Tropical Storms	1	3%
Floods	7	18%
Drought	0	0%
Landslides	0	0%
Earthquakes	0	0%
Winter Storm/Ice Storm	8	21%
Wildfires	0	0%
Ice Jams	5	13%



38

Responses

Which hazards affect the largest area of your municipality?



Response options	Count	Percentage
Extreme Temperatures	7	23%
Severe Thunderstorm/Wind/Tornado	9	29%
Hurricanes and Tropical Storms	1	3%
Floods	5	16%
Drought	0	0%
Landslides	0	0%
Earthquakes	0	0%
Winter Storm/Ice Storm	9	29%
Wildfires	0	0%
Ice Jams	0	0%

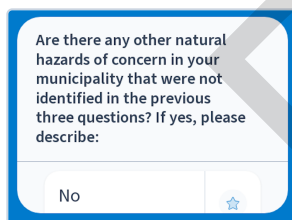


Engagement

31

Responses

Are there any other natural hazards of concern in your municipality that were not identified in the previous three questions? If yes, please describe:



Responses	Upvotes	Downvotes
No	9	0
high hazard dams	0	0
None	0	0



Engagement

3

Responses

Which of the following infrastructural assets and services within your municipality are most vulnerable to natural hazards?

Which of the following infrastructural assets and services within your municipality are most vulnerable to natural hazards?

Hospitals and medical facilities

Response options	Count	Percentage
Hospitals and medical facilities	2	5%
Police and fire stations	7	17%
Emergency operations centers	0	0%
Evacuation shelters	0	0%
Dams	2	5%
Water and wastewater	6	15%
Power utilities	10	24%
Transportation (roads, railways, waterways)	10	24%
Communication systems/centers	4	10%



Engagement

41

Responses

Which residents within your community in Albany County are most vulnerable to natural hazards?

Which residents within your community in Albany County are most vulnerable to natural hazards?

congregate living - large senior

Responses

Upvotes Downvotes



Engagement

congregate living - large senior housing/nursing home

6

0

Senior Citizens, families with young children

6

0

11

Responses

Elderly

6

0

Near streams and bodies of water

6

0

Residents in public housing with access and functional needs.

4

0

Nursing Homes

4

0

Low income residents.

4

0

Those who live within 100 year flood plain.

4

0

Homeless

2

1

Apartment and homes near river

0

0

No

1

1

Are there any specific locations, facilities, or resources in your municipality that you are most concerned about being impacted by natural hazards?

Are there any specific locations, facilities, or resources in your municipality that you are most concerned about being impacted by natural hazards?

Rail lines

Responses	Upvotes	Downvotes
Rail lines	1	0
Dams/*****	1	0
Firehouse, senior housing complexes.	1	0
Mohawk riverfront	1	0
Hudson Riverfront properties	1	0
Albany County Sewage Treatment Facility	0	0
western ave near stuyvestant plaza	0	0
Port of Albany	0	0



Engagement

8

Responses

How concerned are you about the impacts of climate change for your municipality in Albany County?

How concerned are you about the impacts of climate change for your municipality in Albany County?

Not Concerned

27%

Response options	Count	Percentage
Not Concerned	3	27%
Somewhat Concerned	3	27%
Extremely Concerned	5	45%

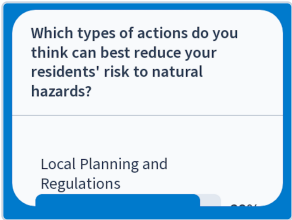


Engagement

11

Responses

Which types of actions do you think can best reduce your residents' risk to natural hazards?



Response options	Count	Percentage
Local Planning and Regulations	8	29%
Structure and Infrastructure Projects	9	32%
Natural Systems Protection (stabilizing erosion hazard areas, requiring water conservation during droughts, encouraging conservation easements).	6	21%
Education and Awareness Programs	5	18%



Engagement

28

Responses

DRAFT

Albany Co HMP Project Team Kickoff Meeting - 9/7/23

Current run (last updated Sep 7, 2023 12:17pm)

10

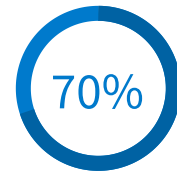
Activities

5

Participants

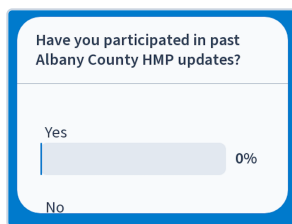
7

Average responses



Average engagement

Have you participated in past Albany County HMP updates?



Response options

Yes

No

Count

0

4

Percentage

0%

100%

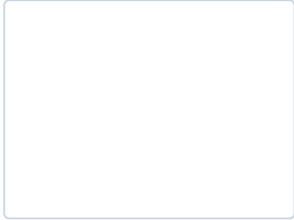


Engagement

4

Responses

Which hazards have the greatest impact in your municipality? (Damage to property, crops, people)



Response options	Count	Percentage
Flooding	3	19%
Wind	0	0%
Snow Storm	4	25%
Tornado	0	0%
Ice Storm	2	13%
Coastal Hazards	0	0%
Hail	0	0%
Drought	2	13%
Coldwave	0	0%



Engagement

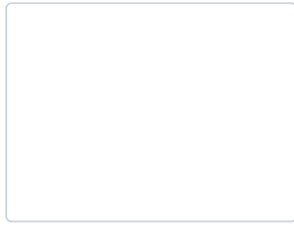
16

Responses

DRAFT

Response options	Count	Percentage
Hurricane	1	6%
Lightning	2	13%
Heat Wave	2	13%
Tsunami/Seiche	0	0%
Landslide	0	0%
Wildfire	0	0%
Earthquake	0	0%
Avalanche	0	0%
Volcano	0	0%

Which hazards occur the most often in your municipality?



Response options	Count	Percentage
Flooding	3	27%
Wind	1	9%
Snow Storm	4	36%
Tornado	0	0%
Ice Storm	1	9%
Coastal Hazards	0	0%
Hail	0	0%
Drought	0	0%
Coldwave	0	0%
Hurricane	0	0%
Lightning	1	9%
Heat Wave	1	9%
Tsunami/Seiche	0	0%
Landslide	0	0%



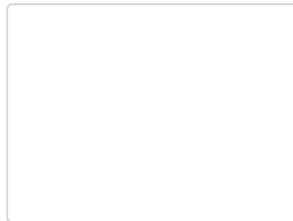
Engagement

11

Responses

Response options	Count	Percentage
Wildfire	0	0%
Earthquake	0	0%
Avalanche	0	0%
Volcano	0	0%

Which hazards affect the largest area of your municipality?



Response options	Count	Percentage
Flooding	1	11%
Wind	0	0%
Snow Storm	4	44%
Tornado	0	0%
Ice Storm	1	11%
Coastal Hazards	0	0%
Hail	0	0%
Drought	0	0%
Coldwave	0	0%
Hurricane	0	0%
Lightning	1	11%
Heat Wave	2	22%
Tsunami/Seiche	0	0%
Landslide	0	0%
Wildfire	0	0%
Earthquake	0	0%
Avalanche	0	0%
Volcano	0	0%



Engagement

9

Responses

Are there any other natural hazards of concern in your municipality that were not identified in the previous three questions? If yes, please describe:

Are there any other natural hazards of concern in your municipality that were not identified in the previous three questions? If yes, please describe:

No 

Responses	Upvotes	Downvotes
No	1	0
Pandemic	1	1



Engagement

2

Responses

Which of the following infrastructural assets and services within your municipality are most vulnerable to natural hazards?

Which of the following infrastructural assets and services within your municipality are most vulnerable to natural hazards?

Hospitals and medical facilities

Response options	Count	Percentage
Hospitals and medical facilities	1	14%
Police and fire stations	1	14%
Emergency operations centers	0	0%
Evacuation shelters	0	0%
Dams	1	14%
Water and wastewater	1	14%
Power utilities	2	29%
Transportation (roads, railways, waterways)	1	14%
Communication systems/centers	0	0%



Engagement

7

Responses

Which residents within your community in Albany County are most vulnerable to natural hazards?

Which residents within your community in Albany County are most vulnerable to natural hazards?

☒ Elderly and location

Responses	Upvotes	Downvotes
Elderly and location	1	0
BIPOC	0	0
Southend (Albany)	0	0



Engagement

3

Responses

Are there any specific locations, facilities, or resources in your municipality that you are most concerned about being impacted by natural hazards?

Are there any specific locations, facilities, or resources in your municipality that you are most concerned about being impacted by natural hazards?

☒ Combined sewer

Responses	Upvotes	Downvotes
Combined sewer system	2	0
Hamlet of Rensselaerville	1	0
Western Ave (guilderland flooding)	0	0
Griffin Labs (federal lab in Guilderland)	0	0



Engagement

4

Responses

How concerned are you about the impacts of climate change for your municipality in Albany County?

How concerned are you about the impacts of climate change for your municipality in Albany County?

☒ Not Concerned

Response options	Count	Percentage
Not Concerned	1	20%
Somewhat Concerned	0	0%
Extremely Concerned	4	80%

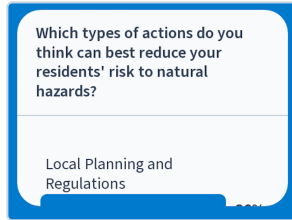


Engagement

5

Responses

Which types of actions do you think can best reduce your residents' risk to natural hazards?



Response options	Count	Percentage
Local Planning and Regulations	4	36%
Structure and Infrastructure Projects	2	18%
Natural Systems Protection (stabilizing erosion hazard areas, requiring water conservation during droughts, encouraging conservation easements).	4	36%
Education and Awareness Programs	1	9%



Engagement

11

Responses

DRAFT



Albany County Hazard Mitigation Plan

Agenda

1. Review of 2018 Profiled Hazards
2. Reviewing Hazard Information Resources
3. Review of Historical Storm Events (2017 – 2023)
4. Review of Climate Projection Data
5. Hazard Profiling Recommendations



2018 Albany Hazard Mitigation Plan

In the 2018 HMP, 15 Hazards were profiled (compared to 16 that the New York State HMP identifies) – Historical weather records were then analyzed to determine the probability of future hazard event occurrences within the County

Hazard	Probability of Future Occurrences (2018 HMP)
Severe Thunderstorm	High
Wind	High
Hailstorms	High
Winter Storm/Ice Storm	High
Extreme Temperature	Medium
Floods	Medium
Tornado	Low
Multi-Vortex Tornado	Low
Hurricane	Low
Tropical Storms	Low
Drought	Low
Landslides	Low
Earthquakes	Low
Wildfires	Low
Ice Jams	Low

Grouped Hazards

In the 2018 HMP, the following hazards were grouped together during the profiling process:

- Severe Thunderstorms, Wind, and Tornado
- Hurricanes and Tropical Storms
- Winter Storm and Ice Storm

Further groupings of profiled hazards may be recommended as to simplify the mitigation action creation process for communities.

Hazard Identification Resources

DRAFT

State and Federal resources that will assist in the hazard identification process include:

- Mitigate NY – New York State’s 2023 Hazard Mitigation Plan
 - Provides historical storm data (# of occurrences and property damage)
- Albany County CEPA 2022 (County Emergency Preparedness Assessment)
 - Provides insight into the county’s ability to respond to a variety of natural, technological, and man-made hazards
- FEMA National Risk Index
 - Illustrates which natural hazards communities are most at risk for

These resources have helpful graphics and/or charts that provide historical storm and risk data useful for determining which hazards to profile

Mitigate NY – NYS 2023 HMP



Overview of NYS HMP Profiled Hazards for Albany County

Hazard	NCEI Events	Total Loss	Expected Annual Loss
Wind	2	\$8,525,000	\$477,731
Floods	4	\$1,150,000	\$698,696
Winter Storm/Ice Storm	4	\$700,000	\$1,051,402
Extreme Temperature	15	\$600,000	\$640,197
Landslide	1	\$500,000	\$178,904
Lightning	12	\$376,000	\$505,678
Hailstorms	1	\$375,000	\$261,489
Tornado	3	\$25,000	\$5,993,886
Hurricane	1	\$0	\$4,501,662
Drought	1	\$0	\$0
Earthquakes	0	\$0	\$1,084,770
Coastal Hazards	0	\$0	\$158,513

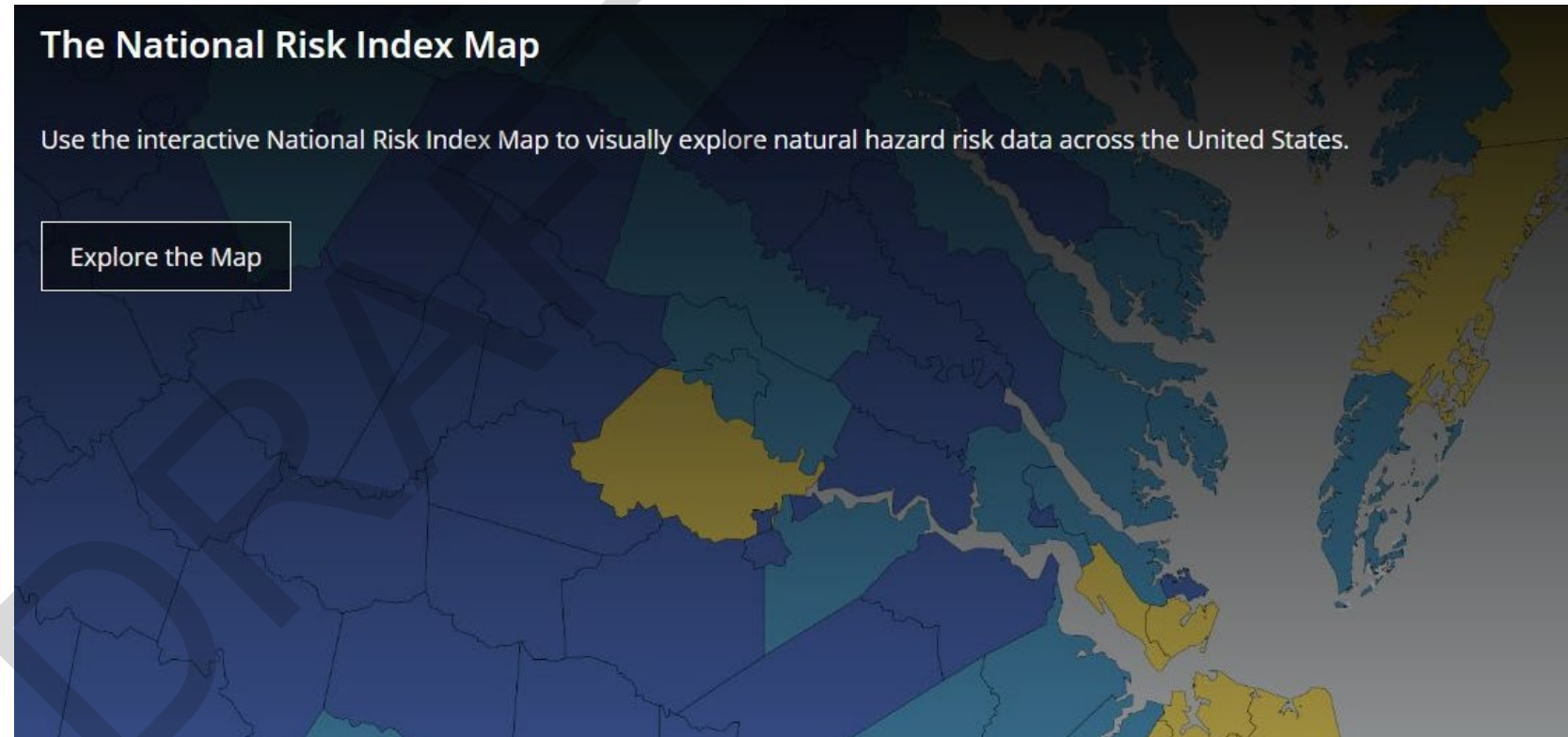
FEMA National Risk Index

The risk index is calculated with this equation:

$$\text{Expected Annual Loss} \times (\text{Social Vulnerability} \div \text{Community Resilience})$$

Social Vulnerability is the susceptibility of social groups to the adverse impacts of natural hazards

Community Resilience is the ability of a community to prepare for anticipated natural hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions



Risk Index Factors – Annual Loss Projections

Social Vulnerability is Relatively Moderate and **Community Resilience** is Very High within Albany County

Hazard	Expected Annual Loss Risk
Ice Storm	Relatively High
Cold Wave (Extreme Temp)	Relatively High
Landslide	Relatively Moderate
Strong Wind	Relatively Moderate
Tornado	Relatively Moderate
Earthquake	Relatively Low
Hail	Relatively Low
Heat Wave (Extreme Temp)	Relatively Low
Hurricane	Relatively Low
Riverine Flooding	Relatively Low
Winter Weather	Relatively Low
Wildfire	Very Low

Understanding the elements of the NRI

Risk Score: A community's score is represented by its percentile ranking among all other communities at the same level for Risk, Expected Annual Loss, Social Vulnerability and Community Resilience. For example, if a given Census tract's Risk Index percentile for a hazard type is 68.50 then its Risk Index value is greater than 68.5% of all US Census tracts.

Risk Ratings: For Risk, Expected Annual Loss, Social Vulnerability, and Community Resilience, there is a qualitative rating that describes the community in comparison to all other communities at the same level, ranging from "Very Low" to "Very High." To determine Risk and Expected Annual Loss ratings, communities are divided into five (5) groups such that the communities within each group are as similar as possible (minimized variance) while the values between groups are as different as possible (maximized variance).

Overview of Risk Index for Albany County

Hazard	Risk Score	Risk Rating
Ice Storm	93.7	Relatively High
Cold Wave (Extreme Temp)	84.4	Relatively High
Landslide	90.9	Relatively Moderate
Tornado	87.9	Relatively Moderate
Earthquake	80.2	Relatively Low
Hail	67.5	Relatively Low
Heat Wave (Extreme Temp)	60.6	Relatively Low
Hurricane	80.9	Relatively Low
Riverine Flooding	62.5	Relatively Low
Strong Wind	57.9	Relatively Low
Winter Weather	40.9	Relatively Low
Wildfire	54.5	Very Low

Albany County Emergency Preparedness Assessment

The Risk Assessment in the CEPA used two factors: Likelihood and Consequence of a Hazard ranging from Very High (score of 5) to Very Low (score of 1). These scores were then multiplied to get the overall risk ranking:

Hazard	Likelihood	Consequence	Relative Risk Score
Flooding	Very High	High	20
Severe Winter Snowstorms	Very High	High	20
Ice Storms	High	High	16
Severe Wind/Tornado	High	Medium	12
Extreme Temperatures	Very High	Low	10
Landslides	Medium	Medium	9
Wildfire	Medium	Medium	9
Earthquakes	Medium	Medium	9
Hurricanes/Tropical Storm	Medium	Low	6
Drought	Medium	Low	6

Review of Historical Storm Events

DRAFT

NOAA Storm Event Data 2017 - 2023

Municipalities within the county have experienced 5 of the hazards profiled in the 2018 HMP between 2017 – 2023.

Hazard	Events
Extreme Temperature	49
Wind	41
Floods	20
Winter Storm/Ice Storm	17
Hailstorm	10

Climate Projection Resources

DRAFT

Federal and National level resources that provide insight into climate projections (low-emission and high-emission futures) include:

- Climate Mapping for Resilience and Adaptation (CMRA)
 - Provides projections for early-century, mid-century, and late-century scenarios
- Climate and Hazard Mitigation Planning Tool (CHaMP)
 - Provides projections for hazard events between 2023-2099
- New York State Climate Impacts Assessment
 - Provides an analysis of expected climate change impacts on New York's environment
- Climate and Economic Justice Screening Tool (CEJST)
 - Identifies census tracts considered disadvantaged

Climate Mapping for Resilience and Adaptation (CMRA)

The CMRA tool provides various metrics of data for 5 Hazard Events:

- Extreme Heat
- Drought
- Wildfire
- Flooding
- *Coastal Inundation***



**There are no climate projections for coastal inundation in Albany County

CMRA – Extreme Heat Projections Overview

The CMRA tool provides minimum, mean, and maximum projection ranges that can be explored further on the CMRA website. For this overview, we will look at their mean projections.

The projections show that Extreme Heat events have the potential to become more frequent and occur at maximum temperatures rarely experienced in the past.

Extreme Heat (Annual days with maximum temperature) (Mean)						
Climate Impacts	Early Century (2015-2044)		Mid Century (2035-2064)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Maximum Temp >90°F	13.3	14.6	19.1	25.3	25.4	52.2
Maximum Temp >95°F	2.9	3.5	5.1	8.3	8.2	25.4
Maximum Temp >100°F	0.4	0.5	0.9	2	1.9	9.8
Maximum Temp >105°F	0	0	0.1	0.4	0.3	3.1
Annual single highest maximum temp (°F)	96.2	96.7	97.8	99.5	99.4	104.6

CMRA – Drought Projections Overview

Drought variables stay relatively consistent throughout the projections

Drought Projections (Mean)						
Climate Impacts	Early Century (2015-2044)		Mid Century (2035-2064)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Avg annual precipitation (inches)	40.8	41.1	41.4	42.3	42.4	44.5
Days w/ precipitation	192.5	192.6	191.7	190.7	191.5	189.2
Days w/o precipitation	172.7	172.6	173.4	174.4	173.7	176.0
Max # of consecutive dry days	11.3	11.4	11.3	11.6	11.4	12

CMRA – Wildfire Projections Overview

Wildfire variables relating to rainfall stay relatively consistent throughout the projections, although the increase in annual days above 90°F provides the framework for fires to spark

Wildfire (Mean)						
Climate Impacts	Early Century (2015-2044)		Mid Century (2035-2064)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Days w/o precipitation	172.7	172.6	173.4	174.4	173.7	176.0
Days w/ precipitation	192.5	192.6	191.7	190.7	191.5	189.2
Max # of consecutive dry days	11.3	11.4	11.3	11.6	11.4	12
Annual days w/ max temp >90°F	13.3	14.6	19.1	25.3	25.4	52.2
Annual days w/ max temp >100°F	0	0	0.1	0.4	0.3	3.1

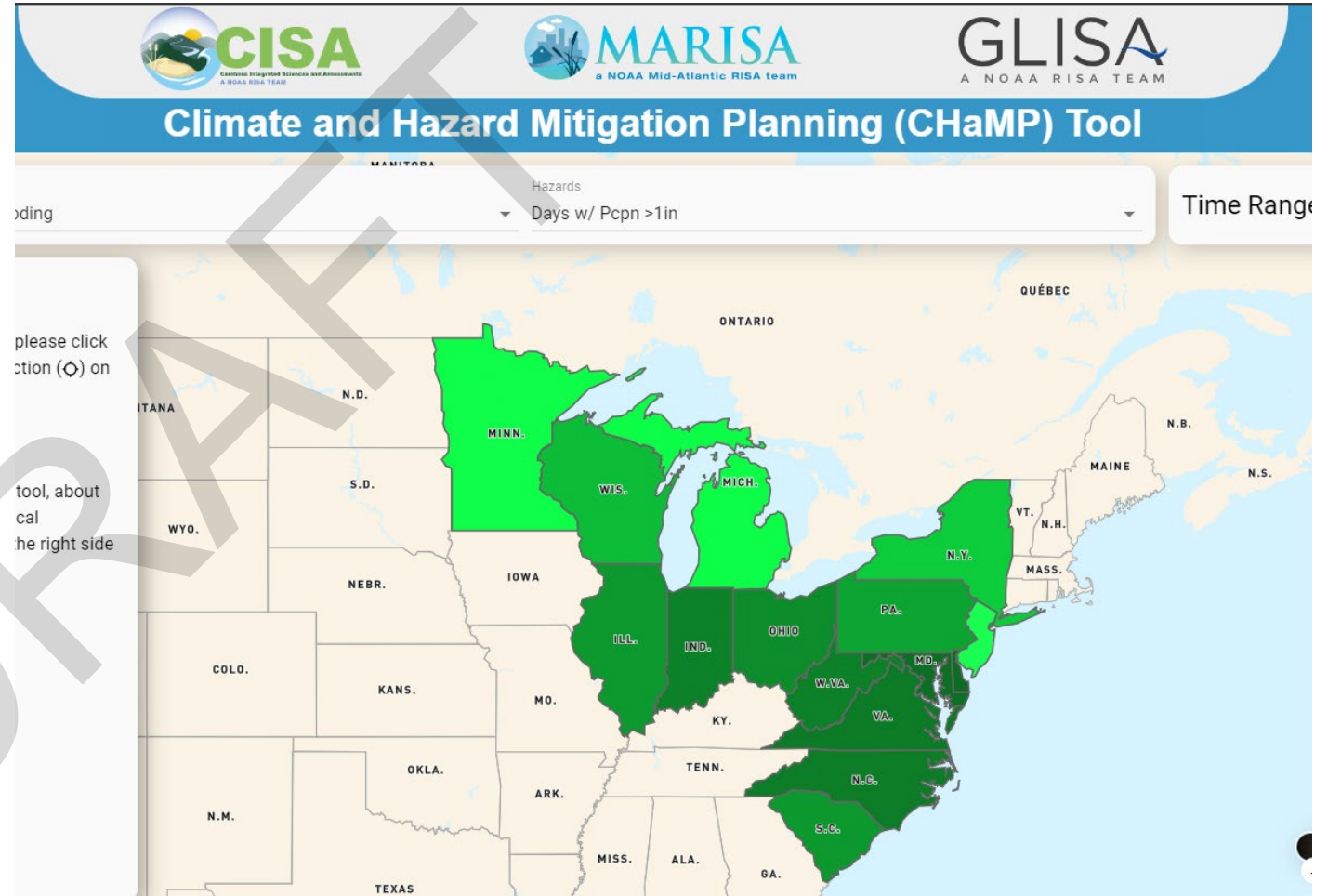
CMRA – Flooding Projections Overview

Flooding variables relating to rainfall stay relatively consistent throughout the projections

Flooding (Mean)						
Climate Impacts	Early Century (2015-2044)		Mid Century (2035-2064)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Avg annual precipitation	40.8	41.1	41.4	42.3	42.4	44.5
Days w/ precipitation	192.5	192.6	191.7	190.7	191.5	189.2
Max # of consecutive wet days	12.2	12.4	12.1	12.2	12.2	12.3
Annual days w/ total precipitation > 1 inch	4.8	5.0	5.1	5.5	5.6	6.6
Annual days w/ total precipitation > 2 inch	0.4	0.5	0.5	0.6	0.6	0.8
Annual days w/ total precipitation > 3 inch	0.1	0.1	0.1	0.1	0.1	0.2
Annual days > 99 th percentile precipitation	6.3	6.6	6.7	7.4	7.4	9.1

Climate and Hazard Mitigation Planning Tool (CHaMP)

The CHaMP tool provides historical data as well as future projections of various climate 'themes', such as Extreme Rainfall/Flooding, Extreme Heat, Severe Weather, etc.



Similar to the CMRA tool, the mean projections generally stay relatively consistent throughout the extreme rainfall/flooding variables

Extreme Rainfall/Flooding (Mean)						
Climate Impacts	Early Century (2024-2044)		Mid Century (2045-2069)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Days w > 1 inch of precipitation	4.9	5.1	5.2	5.8	5.6	6.6
Days w > 2 inch of precipitation	0.4	0.5	0.5	0.6	0.5	.7
Total Annual Precipitation	40.9	41.5	41.9	42.8	41.0	43.0

CHaMP –Extreme Temperature

Similar to the CMRA tool, the mean projections show a moderate increase in high-temperature days per year in low-emission scenarios and large increases in high-emission scenarios.

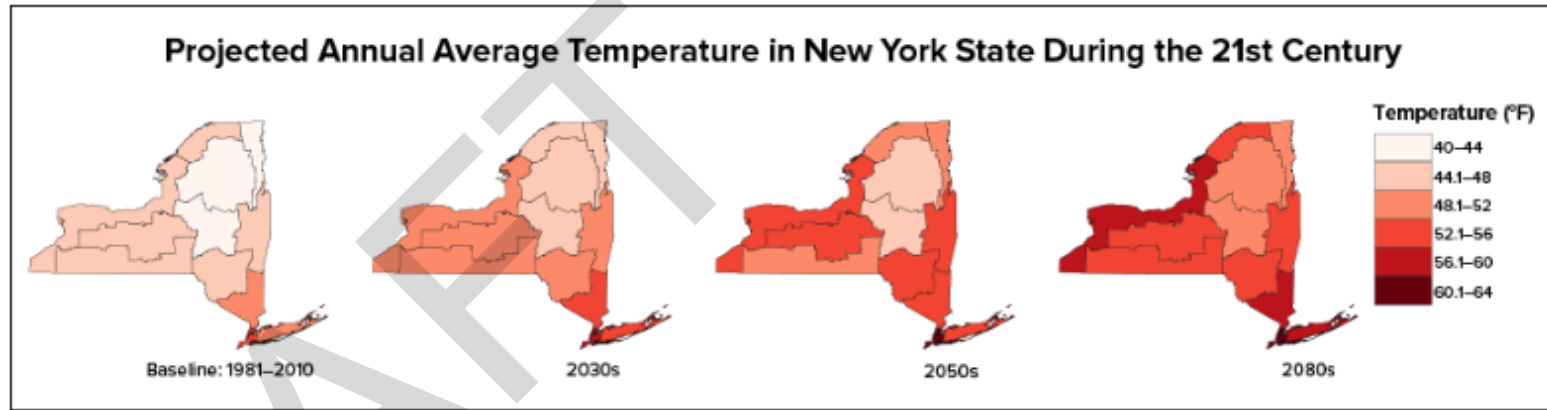
Extreme Heat/Winter Weather (Average)						
Climate Impacts	Early Century (2024-2044)		Mid Century (2045-2069)		Late Century (2070-2099)	
	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions	Lower Emissions	Higher Emissions
Days w/ High >90F	15	16.6	21.5	31.2	24.6	50.8
Days w/ High >95F	3.4	4.2	6.2	11.5	8.0	24.8
Days w/ High >100F	.4	.6	1.1	3.2	1.8	9.6
Maximum Summer Temp	82.5	82.9	84.1	86.0	82.1	86.5
Winter Minimum Temperature	18.3	18.7	20.0	21.9	20.4	24.6



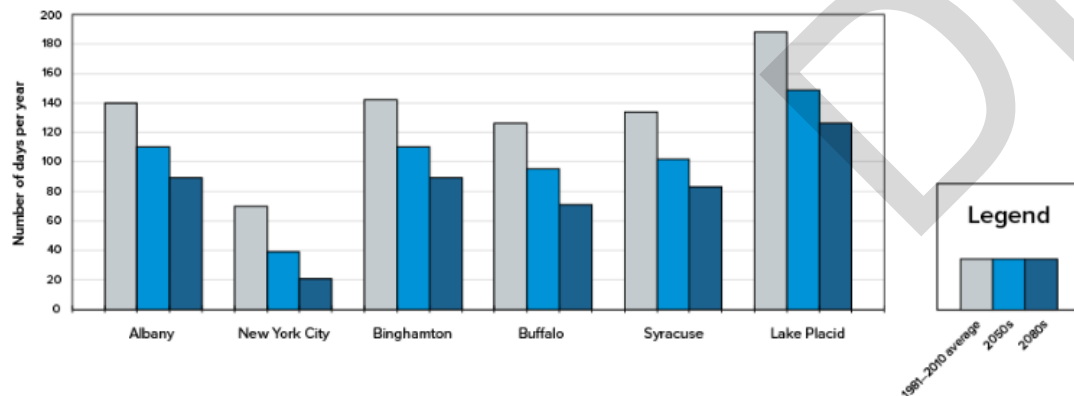
The Climate Impacts Assessment provides comprehensive research on climate change impacts to empower decision-makers to make informed choices on how to prepare for climate change

Climate Impacts Assessment - Temperature

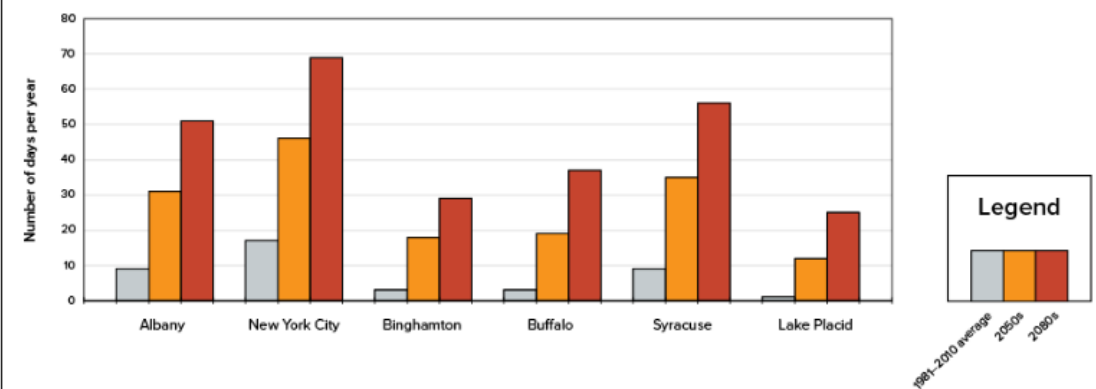
Key Takeaways: Warmer temperatures contribute to conditions that allow invasive species and pests to spread, increase drought risk, and stress animal species that need a colder climate. Warmer winters/early spring temperatures also create frost/thaw patterns that threaten some crops. Increased frequency of Extreme heat events are especially dangerous to vulnerable populations (low-income, elderly, children, unhoused people, etc.)



Number of Days with Temperatures Below 32°F in New York State

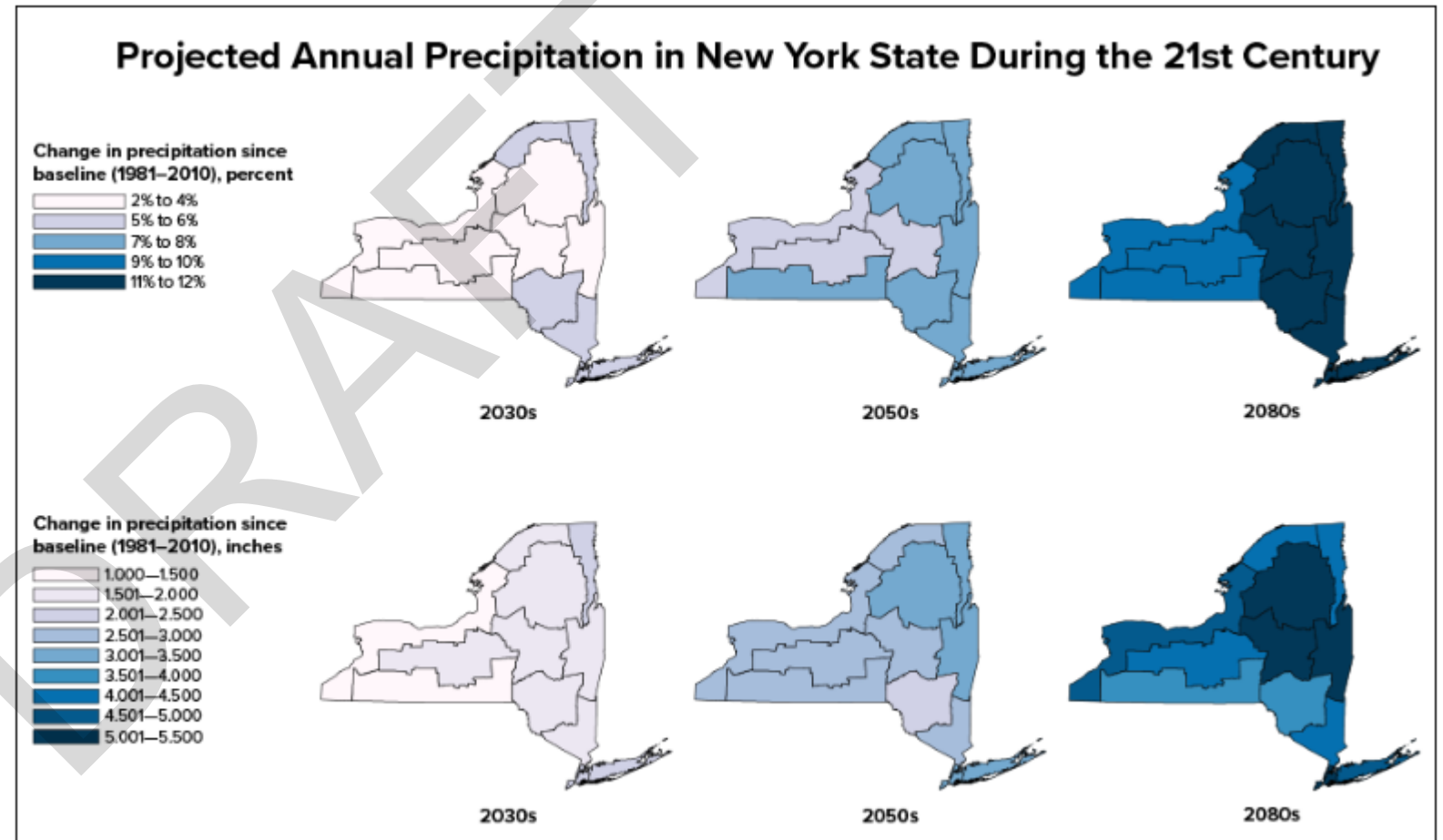


Number of Days with Temperatures Above 90°F in New York State



Climate Impacts Assessment - Precipitation

Key Takeaways: Increased precipitation can lead to more runoff that can contaminate water sources with pollutants, sediments and pathogens. Increases in heavy precipitation can cause flooding events that are destructive to communities and infrastructure.



Climate and Economic Justice Screening Tool (CEJST)

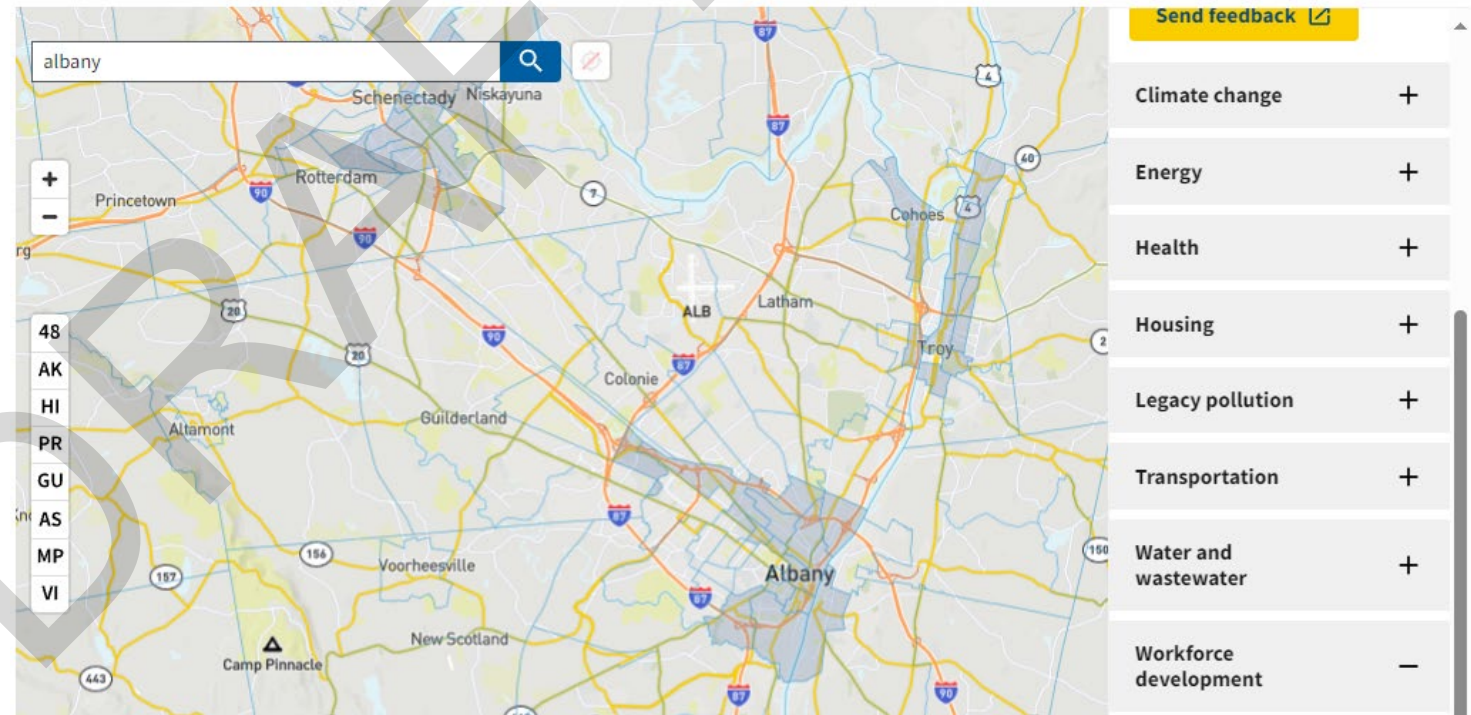
The CEJST identified 16 tracts within the County as 'Disadvantaged' - located in Cohoes (2), Watervliet (1), and Albany (13)

Census tracts that are overburdened and underserved are highlighted as being disadvantaged on the map. Federally Recognized Tribes, including Alaska Native Villages, are also considered disadvantaged communities.

Zooming in and selecting shows information about each census tract.

Get the data ↓

Download the data with documentation and shapefile from the [downloads](#) page.



CEJST - Cohoes

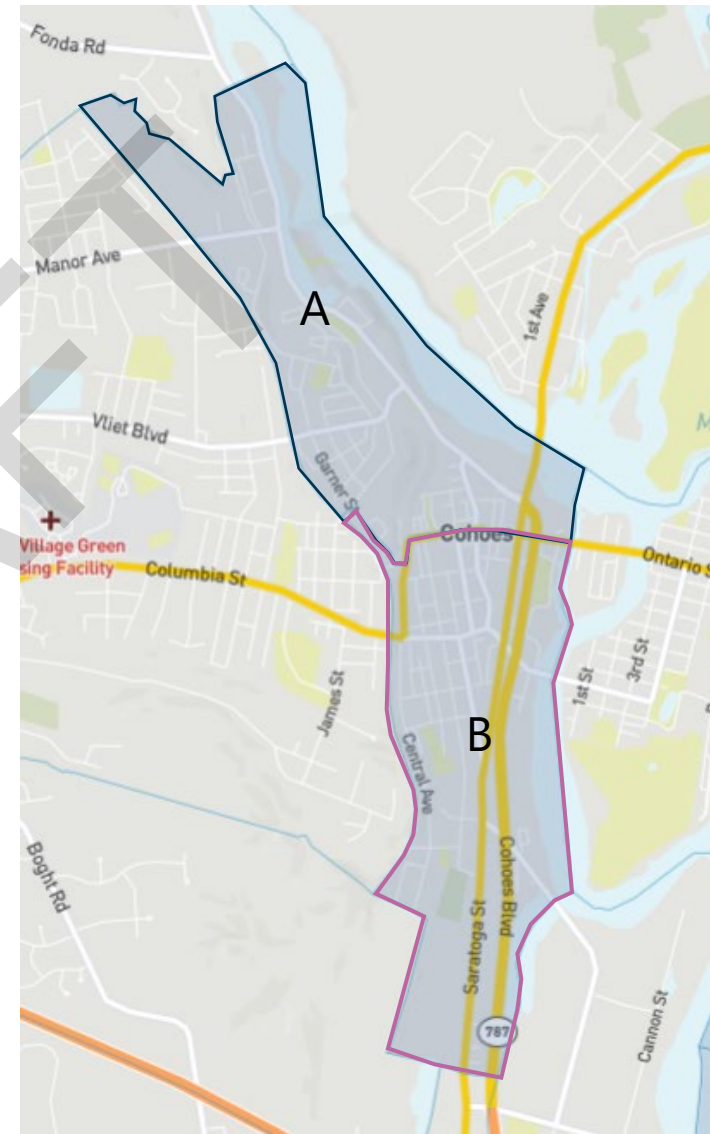
The two census tracts within the City of Cohoes that line the eastern riverbank of the Mohawk River (along 787 to Mohawk Street) have been identified as disadvantaged.

North of Ontario Street (A)

Identified Disadvantage Area	Percentile (vs National Baseline)
Lack of indoor plumbing	92 nd (90 th)
Lead Paint	92 nd (90 th)
% Less than Highschool Education	19% (10%)

South of Ontario Street (B)

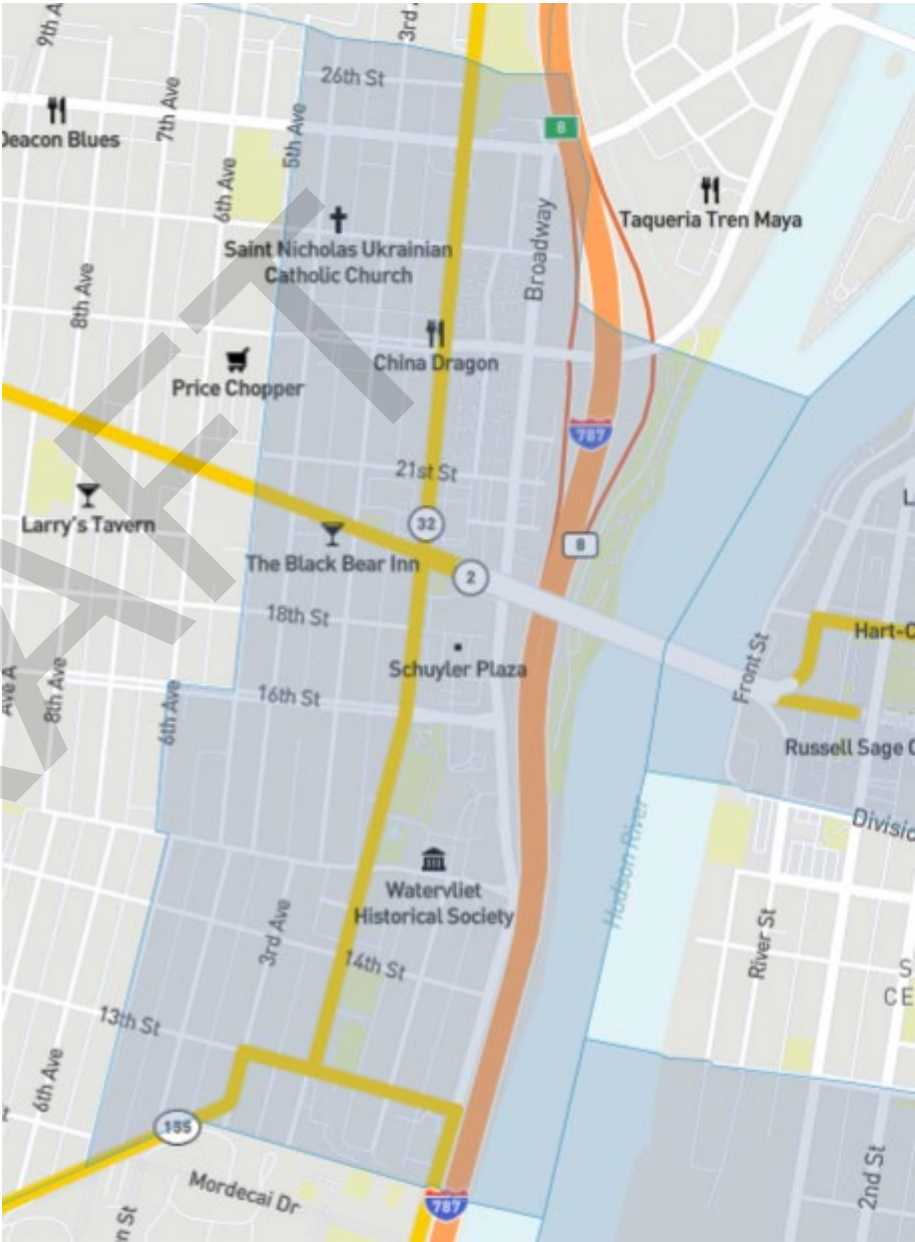
Identified Disadvantage Area	Percentile (vs National Baseline)
Asthma	90 th (90 th)
Lead Paint	93 rd (90 th)
Toxic concentrations of wastewater discharge in streams	90 th (90 th)
Low median income	92 nd (90 th)
% Less than Highschool Education	20% (10%)



CEJST - Watervliet

The census tract within the City of Watervliet roughly between 26th Street and 13th Street has been identified as disadvantaged.

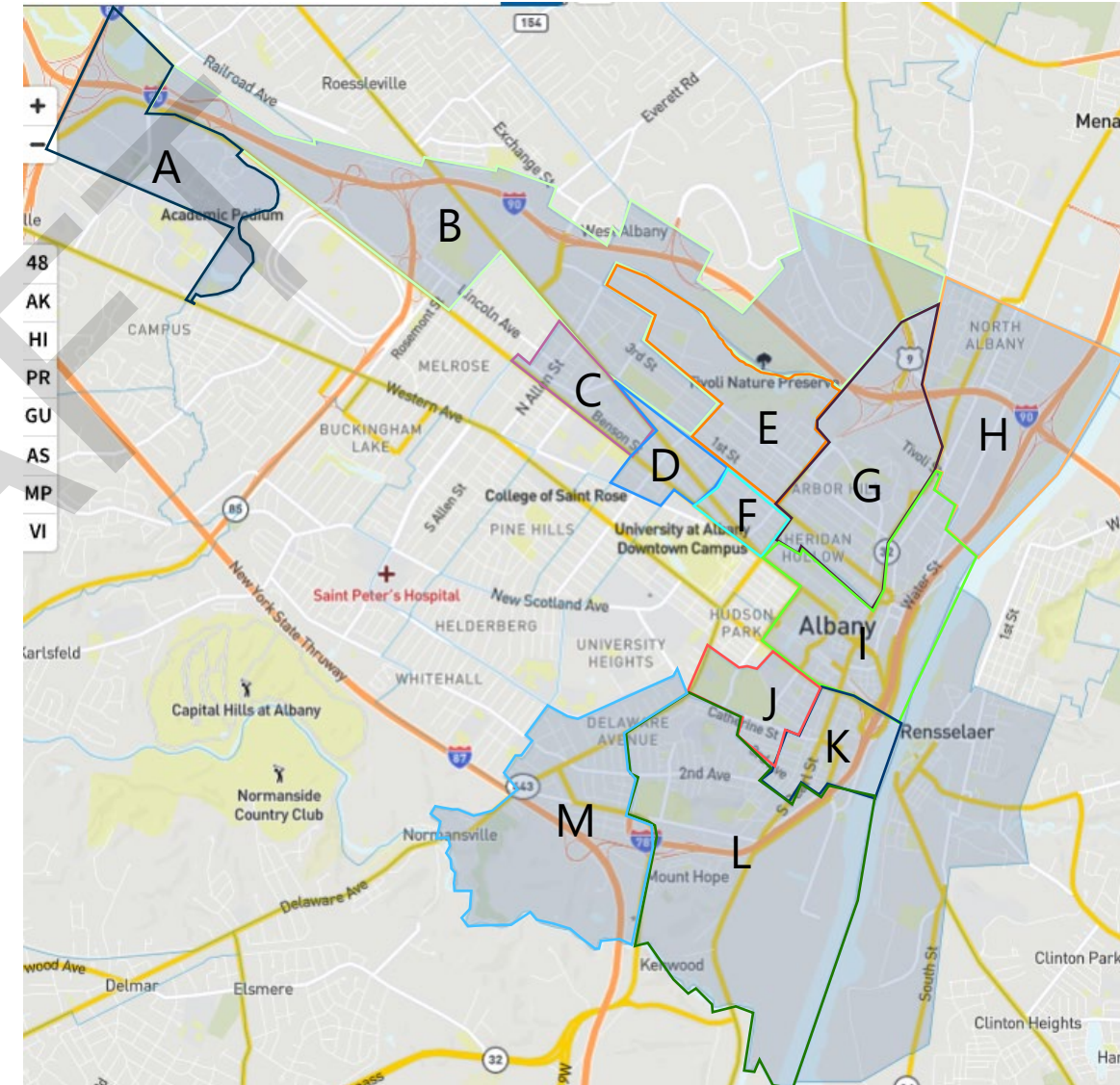
Identified Disadvantage Area	Percentile (vs National Baseline)
Historic Underinvestment in Home Loan Access (Redlining)	Yes
Lead Paint	90 th (90 th)
Proximity to Hazardous Waste Facilities	93 rd (90 th)
Traffic Proximity and Volume	92 nd (90 th)
Low Median Income	95 th (90 th)
% Less than Highschool Education	17% (10%)



CEJST - Albany

The census tracts located along I-90 and I-787 in the City of Albany have been identified as disadvantaged. Since there are many more tracts in Albany, we will just identify which tracts fall under disadvantage areas:

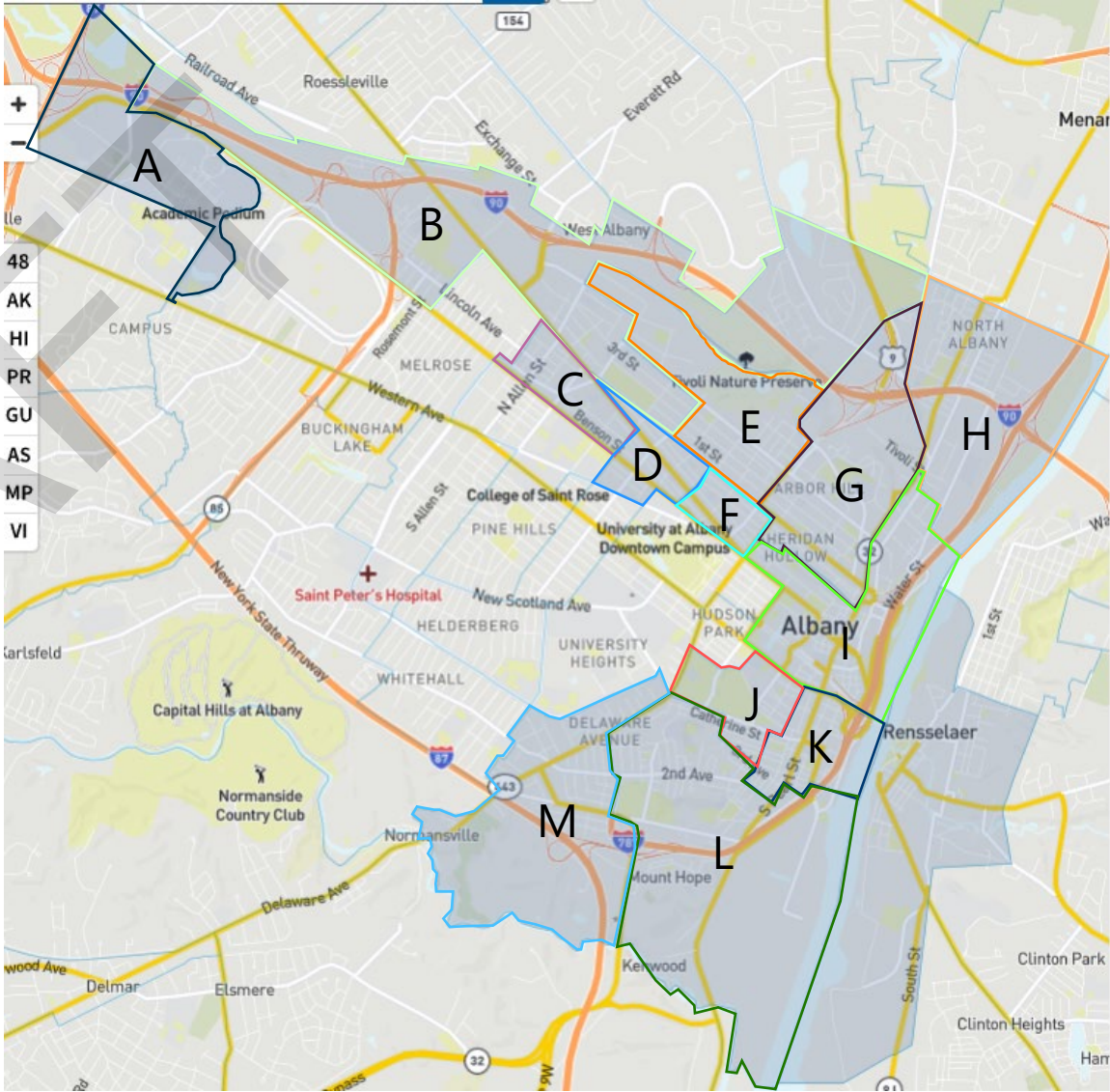
Identified Tracts	Identified Disadvantage Area
A, B, D, E, F, G, H, I, J, K, L, M	% Less than Highschool Education
A, C, D, E, F, G, H, I, J, K, L, M	Asthma
C, D, E, F, G, H, I, J, K, L, M	Proximity to Hazardous Waste Facilities
C, D, E, F, G, H, I, J, K, L	Low Median Income
D, E, F, G, H, K, L, M	Housing costs
A, C, D, E, F, G, I, K	Poverty
E, F, G, H, I, J, K, L	Proximity to Risk Management Plan Facilities
E, F, G, J, K, L	Historic Underinvestment in Home Loan Access (Redlining)
D, E, F, J, M	Lead Paint
A, B, E, F	Unemployment



CEJST – Albany cont.

The census tracts located along I-90 and I-787 in the City of Albany have been identified as disadvantaged. Since there are many more tracts in Albany we will Just identify which tracts fall under disadvantage areas:

Identified Tracts	Identified Disadvantage Area
A, B, C	Proximity to Superfund Sites
F, I, K	Diabetes
D, F, I	Lack of Green Space
D, I, J	Low Life Expectancy
B, M	Lack of Indoor Plumbing
F, I,	Heart Disease
H	Traffic Proximity and Volume



Hazard Profile Recommendations

DRAFT



Flooding (Riverine Flooding, Coastal Flooding, Ice Jams)



Drought



Landslide



Severe Storm (Hail, Ice Storm, Wind, Thunderstorm, Winter Storm, Hurricane, Tropical Storm, Tornado)



Extreme Temperatures (Cold Wave, Heat Wave)

Due to their extremely low occurrence rate and low future risk, *Wildfire and Earthquake* hazards may not need to be profiled in the current HMP update

Contact Us

- Jayme Breschard, Senior Managing Community Planner
(jbreschard@bartonandloguidice.com or 585-325-7190 x2247)

Please get in touch with any questions, comments or ideas.

THANK YOU!

Albany County, NY

Hazard Mitigation Plan Update, 2024

Hazard Identification Meeting

Meeting Date: January 22, 2024

Location: via Zoom

Attendees:

Albany County
Patrick Curran, Climate Policy Analyst, Office of the County Executive
Christina Rust, Health and Mental Health Policy Analyst
Erin Stachewicz, Deputy Commissioner, Department of Social Services
Sergeant David Poole, Albany County Sheriff's Office
Scott Duncan, Deputy Commissioner of County DPW
Justin Atlas, Deputy Commissioner, County Recreation Department
Tricia Bulatao, Director of Public Health Emergency Preparedness and Performance Management
Sara Lubera, Department of Health
Susan Lewis, Executive Director, Soil and Water Conservation District

Barton & Loguidice (B&L)
Jayme Breschard, Senior Managing Community Planner
Dan Theobald, Project Community Planner
Danielle Pottinger, Community Planner

NYS Division of Homeland Security and Emergency Services (DHSES)
John Wilkinson, Environmental Specialist
Michael Tarasoff, Environmental Specialist

Jayme (B&L) introduced herself, her team, and recapped where the project stands to-date. All attendees introduced themselves, their title, and department (*see attendees list above*). The purpose of this meeting was to introduce the project to key departments in the county, present the preliminary hazards that have been identified, and discuss hazards that attendees felt were relevant to their department.

Danielle (B&L) shared her screen, projected the meeting presentation, and reviewed the agenda. The agenda was as follows:

1. Review of 2018 Profiled Hazards
2. Reviewing Hazard Information Resources
3. Review of Historical Storm Events (2017 – 2023)
4. Review of Climate Projection Data
5. Hazard Profiling Recommendations
6. Review of 2018 Profiled Hazards

Review of 2018 Profiled Hazards

15 hazards were profiled in 2018 and they were grouped together during the profiling process. B&L recommends grouping hazards to simplify the mitigation action process during this update. The following hazards were profiled in 2018:

- Severe Thunderstorms, Wind, and Tornado
- Hurricanes and Tropical Storms
- Winter Storm and Ice Storm

Hazard Identification Resources / Historical Storm Events / Climate Projections

State and federal resources such as Mitigate NY (New York State's 2023 Hazard Mitigation Plan), Albany County CEPA 2022 (County Emergency Preparedness Assessment), and the FEMA National Risk Index will assist in the hazard identification process. CEPA: reviews hazards which are most likely to occur using historical storm events. Extreme temperatures were most prevalent from 2017-2023. Climate Projection Resources look into projections for each hazard.

After performing a hazard analysis using historical data, future projects, and other state resources, it is suggested to profile the following hazards which have also been grouped:

- Flooding (Riverine Flooding, Coastal Flooding, Ice Jams)
- Drought
- Landslide
- Severe Storm (Hail, Ice Storm, Wind, Thunderstorm, Winter Storm, Hurricane, Tropical Storm, Tornado)
- Extreme Temperatures (Cold Wave, Heat Wave)

Due to their extremely low occurrence rate and low future risk, Wildfire and Earthquake hazards may not need to be profiled in the current HMP update.

Discussion

Justin (Recreation) asked if the tools and data that Danielle presented is accessible to the public. He sees value in applying these tools to different projects in the Recreation Department. Jayme indicated that all of the tools are publically available.

Erin (DSS) asked if smoke from Canada is defined as a hazard or if it can be addressed in the Hazard Mitigation Plan. Michael (DHSES) said smoke is a tertiary effect of wildfires which occur in different jurisdictions. It's hard to justify how to define smoke as a natural hazard for a Hazard Mitigation Plan but there are ways to address it under other hazards (e.g. having proper HVAC systems in critical facilities).

Tricia (Public Health and Emergency Preparedness) wanted to echo the importance of addressing air quality issues that Erin had mentioned. In 2023, wildfires in Canada caused smoke to linger for at least a week, it occurred more than once, and was caused by a hazard hundreds of miles away. Jayme believes

that actions under the extreme temperatures category can address air quality through critical facilities. Michael (DHSES) agreed and supported the idea of working actions into other hazards such as having inhalers and proper HVAC systems at critical facilities.

Patrick would also like to see smoke addressed in the Mitigation Plan in some way, especially since the wildfires occurred so recently and are projected to occur in the future. He suggested adding an air quality caveat somewhere in the plan. He also supports the proposed list of hazards to be profiled.

Michael wanted to mention that while there a lot of data on flooding and severe storms, there is less data on landslides. He indicated that DHSES can help find this information because typically there are examples of landslides but not much data or recorded information.

Patrick wanted Erin's opinion on issues they deal with regarding extreme temperatures since DSS deals directly with vulnerable populations. Erin stated that during extreme temperatures the biggest challenge is having places for the vulnerable populations to go because most sites are at capacity. The homeless and economically disadvantaged are at the highest risk. When severe storms and flooding occur, DSS must mobilize quickly to accommodate their needs and have the proper technology to do so. Having technology in place would be a valuable action for DSS.

Jayne suggests getting back together with Erin and Tricia when coming up with mitigation strategies. She would like the perspective of what can the county do to mitigate the impacts of these hazards. It's about thinking ahead and limiting exposure of the most vulnerable.

John suggests DSS getting out and getting information from vulnerable populations as part of the public outreach process. He suggests going to Fox Creek and finding out whose houses flood. Get the public involved early in the process. Other outreach actions could involve surveys. He also likes the idea of discussing invasive species which can contribute to erosion.

Justin asked about global hazard impacts, similar to smoke caused by wildfires but ash caused by mega volcanos. He asked if volcanos are on the list of natural hazards. Jayme believes that would be more of a global issue. There may be other hazards that address this indirectly. Michael stated that climate change is a scoring point for all of the grants and suggests going through the NOFO to see how projects are graded. Review funding announcements.

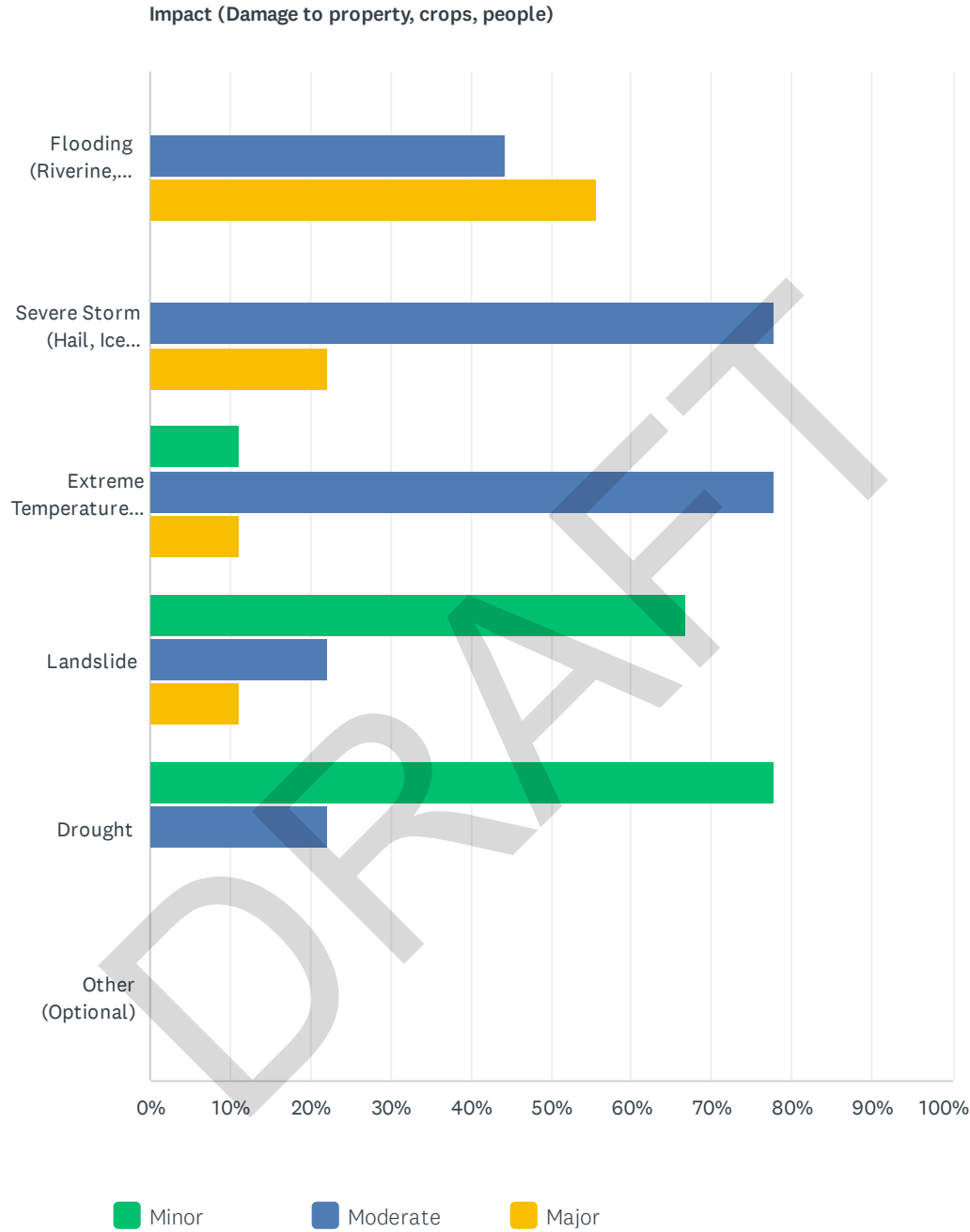
Tricia stated that extreme temperatures can be linked to diseases and the climate changing. She also believes it would be value having a list of cooling centers pushed out through departments.

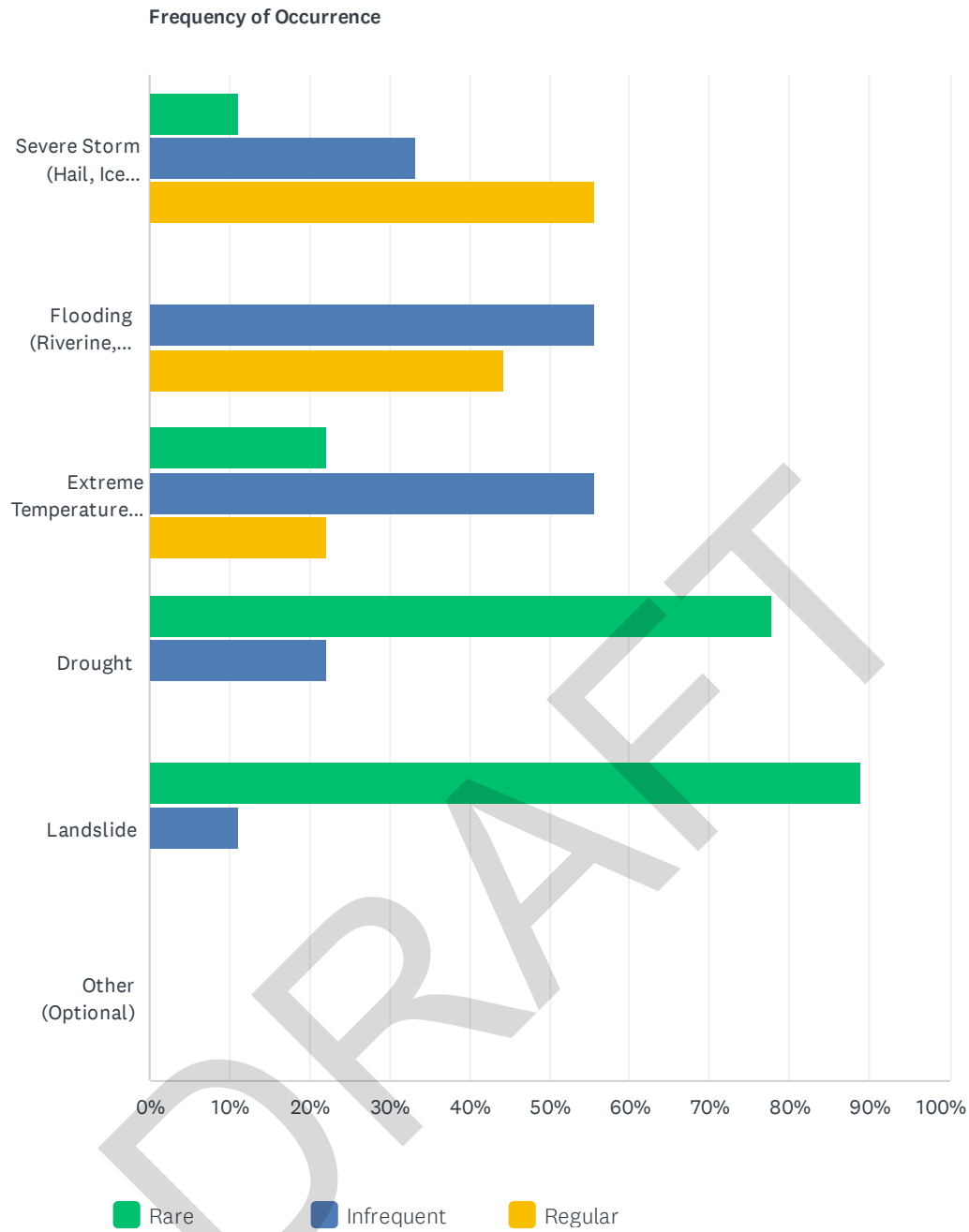
Next Steps

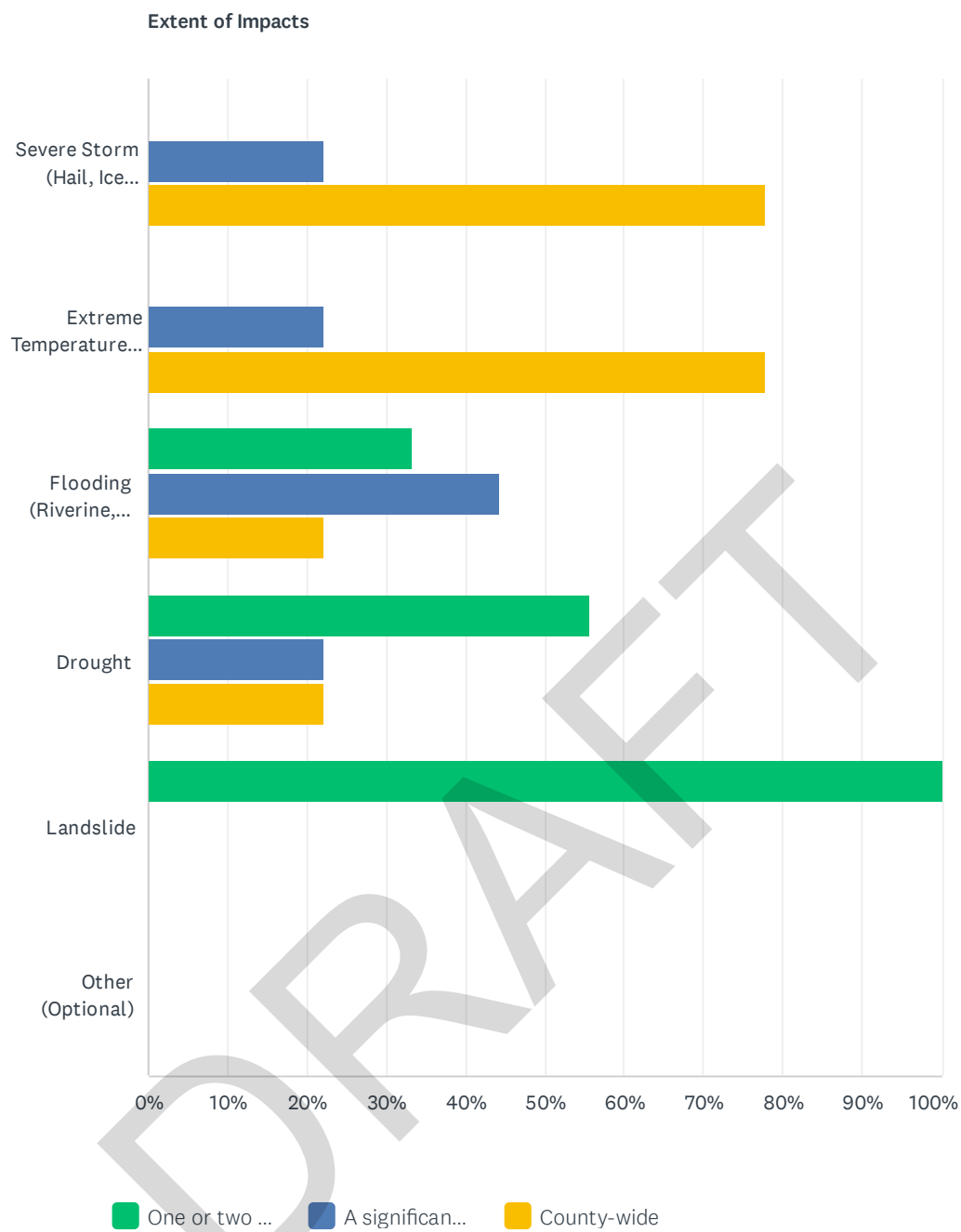
- Jayme stated that she would like to follow up with Erin and Tricia on reviewing our community engagement plan.
- Jayme will put together a final list of natural hazards to send around to the group. She will also send out the presentation.

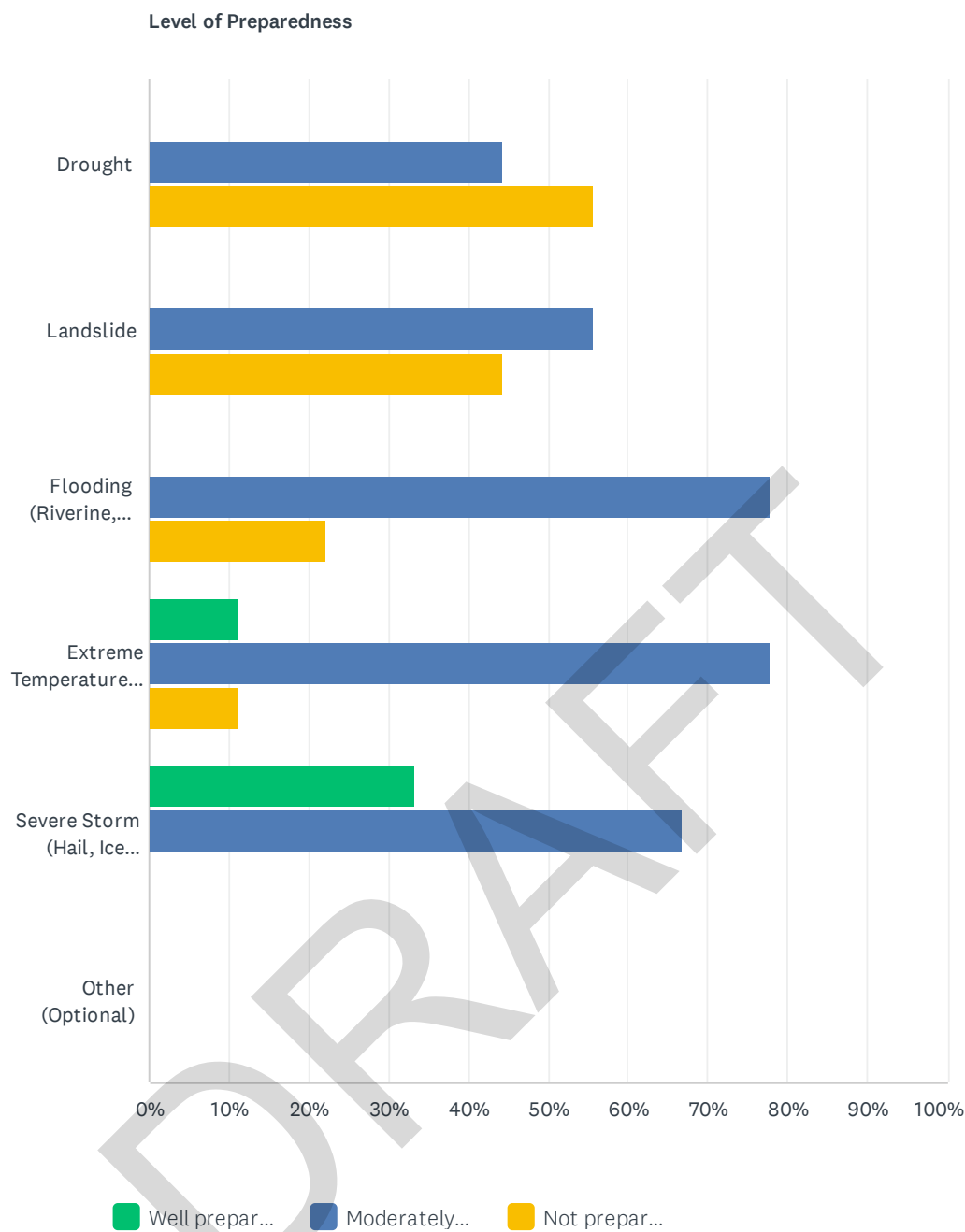
Q1 Hazard Analysis

Answered: 9 Skipped: 0









Albany County Hazard Mitigation Plan Update Steering Committee Hazard Analysis

Impact (Damage to property, crops, people)				
	MINOR	MODERATE	MAJOR	TOTAL
Flooding (Riverine, Coastal, Urban, Flash, Ice Jam, Dam or Levee Break, Other)	0.00% 0	44.44% 4	55.56% 5	9
Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)	0.00% 0	77.78% 7	22.22% 2	9
Extreme Temperature (Heat/Cold Wave, Air Pollution Effects)	11.11% 1	77.78% 7	11.11% 1	9
Landslide	66.67% 6	22.22% 2	11.11% 1	9
Drought	77.78% 7	22.22% 2	0.00% 0	9
Other (Optional)	0.00% 0	0.00% 0	0.00% 0	0
Frequency of Occurrence				
	RARE	INFREQUENT	REGULAR	TOTAL
Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)	11.11% 1	33.33% 3	55.56% 5	9
Flooding (Riverine, Coastal, Urban, Flash, Ice Jam, Dam or Levee Break, Other)	0.00% 0	55.56% 5	44.44% 4	9
Extreme Temperature (Heat/Cold Wave, Air Pollution Effects)	22.22% 2	55.56% 5	22.22% 2	9
Drought	77.78% 7	22.22% 2	0.00% 0	9
Landslide	88.89% 8	11.11% 1	0.00% 0	9
Other (Optional)	0.00% 0	0.00% 0	0.00% 0	0
Extent of Impacts				
	ONE OR TWO PROBLEM AREAS WITHIN THE COUNTY	A SIGNIFICANT PORTION OF THE COUNTY	COUNTY-WIDE	TOTAL
Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)	0.00% 0	22.22% 2	77.78% 7	9
Extreme Temperature (Heat/Cold Wave, Air Pollution Effects)	0.00% 0	22.22% 2	77.78% 7	9
Flooding (Riverine, Coastal, Urban, Flash, Ice Jam, Dam or Levee Break, Other)	33.33% 3	44.44% 4	22.22% 2	9
Drought	55.56% 5	22.22% 2	22.22% 2	9
Landslide	100.00% 9	0.00% 0	0.00% 0	9
Other (Optional)	0.00% 0	0.00% 0	0.00% 0	0

Albany County Hazard Mitigation Plan Update Steering Committee Hazard Analysis

Level of Preparedness				
	WELL PREPARED	MODERATELY PREPARED	NOT PREPARED	TOTAL
Drought	0.00% 0	44.44% 4	55.56% 5	9
Landslide	0.00% 0	55.56% 5	44.44% 4	9
Flooding (Riverine, Coastal, Urban, Flash, Ice Jam, Dam or Levee Break, Other)	0.00% 0	77.78% 7	22.22% 2	9
Extreme Temperature (Heat/Cold Wave, Air Pollution Effects)	11.11% 1	77.78% 7	11.11% 1	9
Severe Storm (Hail, Ice Storms, Wind, Thunderstorms, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)	33.33% 3	66.67% 6	0.00% 0	9
Other (Optional)	0.00% 0	0.00% 0	0.00% 0	0

Q2 If you provided answers for the "other" category above, please describe the hazard type:

Answered: 0 Skipped: 9

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Q3 Your name:

Answered: 9 Skipped: 0

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Q4 Your title:

Answered: 9 Skipped: 0

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Q5 Your email address:

Answered: 9 Skipped: 0

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**Albany County
Hazard Mitigation Plan Update Process**

Jurisdiction Meeting Agenda

- **Introductions and Sign-in Form**
- **Warm-up Questions**
- **Capability Assessment Review**
 - Review for accuracy/fill in blanks
 - Identify opportunities to expand and improve capabilities
- **Hazard Identification and Ranking**
 - Select and rank hazards to be profiled
 - Review hazard event records
- **Critical Facilities, Additional Assets, and Public Participation**
 - Review table for revisions and floodplain issues
 - Document additional assets if desired
 - Identify any public participation opportunities after plan has been approved
- **Natural Hazard Analysis and Mitigation Action Development**
 - Previous hazard mitigation accomplishments
 - Status update for actions included in 2018 HMP
 - Document other mitigation projects completed since 2018
 - New Mitigation Actions
 - Develop at least 1 mitigation action specific to your jurisdiction for each profiled natural hazard
 - One action must address flooding
 - One action must protect critical facilities to an 0.2% chance flood event (if applicable/feasible)
 - Cost/Benefit analysis for each action



Albany County Strategic Alliance for Health

Meeting Agenda

March 21, 2024

8:30a.m. - 10:00 a.m.

- | | |
|------------------------|---|
| 8:30 a.m. - 8:35 a.m. | Welcome and Introduction |
| 8:35 a.m. - 8:40 a.m. | January 2024 Meeting Minutes Review |
| 8:40 a.m. - 8:50 a.m. | Introduction: Dr. Iman Simmonds, Deputy Health Commissioner,
Albany County Department of Health
<i>(Charles Welge, Division Director, Albany County Department of Health)</i> |
| 8:50 a.m. - 9:20 a.m. | Albany County Public Health Emergency Preparedness Updates:
Strategies to Reach Communities with Increased Vulnerabilities <ul style="list-style-type: none">➤ Community Engagement Initiative
<i>(Tricia Bulatao, Director of Public Health Emergency Preparedness and Performance Management, Albany County Department of Health)</i>➤ Albany County Hazard Mitigation Plan Updates
<i>(Jayme Breschard, Senior Managing Community Planner, Barton & Loguidice)</i> |
| 9:20 a.m. - 9:25 a.m. | Physical Activity Break (Optional) |
| 9:25 a.m. - 9:45 a.m. | Closing the Gap with Social Determinants of Health Accelerator
Plans Updates
<i>(Charles Welge, Division Director; Shelleisha Salmon-Gordon, Program Director, Albany County Department of Health)</i> |
| 9:45 a.m. - 10:00 a.m. | Partner Updates |

Next Meeting: May 16, 2024

Thank you for your continued participation and support!



ALBANY COUNTY
Cares about our health



Albany County Hazard Mitigation Plan – 2024 Update

What is Hazard Mitigation?

Hazard mitigation reduces the risk that natural hazards pose to critical community assets. It focuses on long-term risk reduction, and can occur at any phase of the emergency management cycle.



Hazard Mitigation Planning

The Disaster Mitigation Act of 2000 requires state, local, tribal and territorial governments to have a FEMA-approved mitigation plan in order to be eligible for mitigation project funding:

- Updates every 5 years
- Follow the updated FEMA and NYS DHSES standards



Albany County is updating its
2018 Multi-Jurisdictional Hazard Mitigation Plan.

Why Participate?

- Hazard mitigation planning reduces loss of life and property by minimizing the impact of disasters.
- Mitigation plans are key to breaking the cycle of disaster damage and reconstruction, which is expected to intensify with climate change.
- By participating in and adopting the HMP, your community may be eligible for funding to reduce disaster losses and protect from future disaster damages.

In 2022, the Village of Pulaski, NY received \$1,000,000 for stormwater flooding improvements through a Pre-Disaster Mitigation Grant!

FEMA Assistance Programs

Hazard Mitigation Grant Program (HMGP)

Post Fire/Fire Management Assistance Grant

Pre-Disaster Mitigation Grant (PDMG)

Building Resilient Infrastructure and Communities Program (BRIC)

Flood Mitigation Assistance Grant (FMA)

Rehabilitation of High Hazard Potential Dam (HHPD) Grant Program

Hazard Mitigation Plan Update

Plan Components:

- Planning Process
- County Profile
- Hazard Profiles
- Risk Assessment
- Hazard Vulnerability Assessment
- Mitigation Goals and Strategies
- Plan Implementation, Monitoring, and Maintenance
- Jurisdictional Annex for each municipality

New Elements to Consider

- Include representatives from a broad range of sectors, such as community lifelines and non-profits that support underserved communities.
- Consider the effects of climate change and other future conditions.
- Address existing mitigation plan requirements of the HHPD grant program to include all dam risks.
- Describe building codes and land use and development ordinances.

2023 Planning Participants

Executive Steering Committee

The Executive Steering Committee will take the lead on the development of the Hazard Mitigation Plan update for Albany County. The Executive Steering Committee is composed of staff from several county departments. The Executive Steering Committee will meet regularly during the hazard mitigation planning process.

Key Stakeholders

The Key Stakeholders group serves in an advisory capacity during the development of Albany County's Hazard Mitigation Plan update. The group is composed of various members of the community and adjacent governments. The Key Stakeholders will be included on a database of contacts and regularly invites to project-related meetings and events.

Project Team

The Project Team is composed of at least one municipal representative from each jurisdiction within Albany County. The Project Team will assist with data collection, document review, and coordination efforts.

Hazards Profiled

Albany County is prioritizing the following hazards in the plan:

1. Flood
2. Drought
3. Severe Storms
(including winter storms)
4. Extreme Temperatures
(heat & cold)
5. Landslide



STEVE JACOBS/DG

Remains of a building rest on the bottom of a landslide along Delaware Avenue on May 19, 2000. (Steve Jacobs/Times Union)

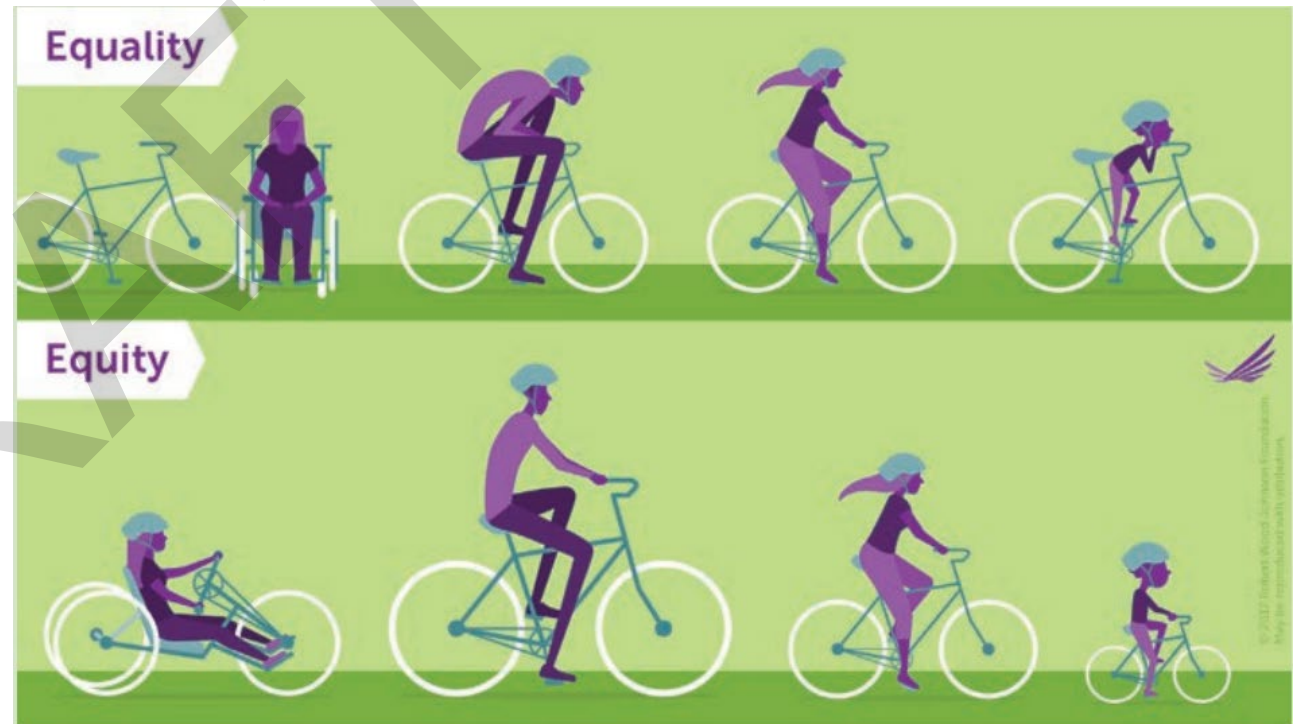
Mitigation Strategies

- Mitigation Strategies can represent the following categories:
 - Local Plans and Regulations
 - Structure and Infrastructure Projects
 - Natural Systems Protection
 - Education and Awareness Programs
- Strategies will take into account feedback from jurisdictions and the public, including underserved communities.



Community Engagement Plan

- Project Overview
- Project Players
- In-Person Meeting Engagements
- Online Engagement
- Engaging Underserved Communities within Albany County
- Engagement Timeline
- Print Materials



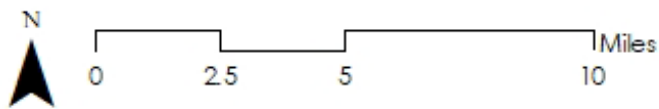
Vulnerable Groups

- Senior citizens 65+
- Students
- Low-income residents
- People with disabilities
- Non-Native English speakers
- Homeless individuals
- Renters
- People without a vehicle
- Mobile Home Community



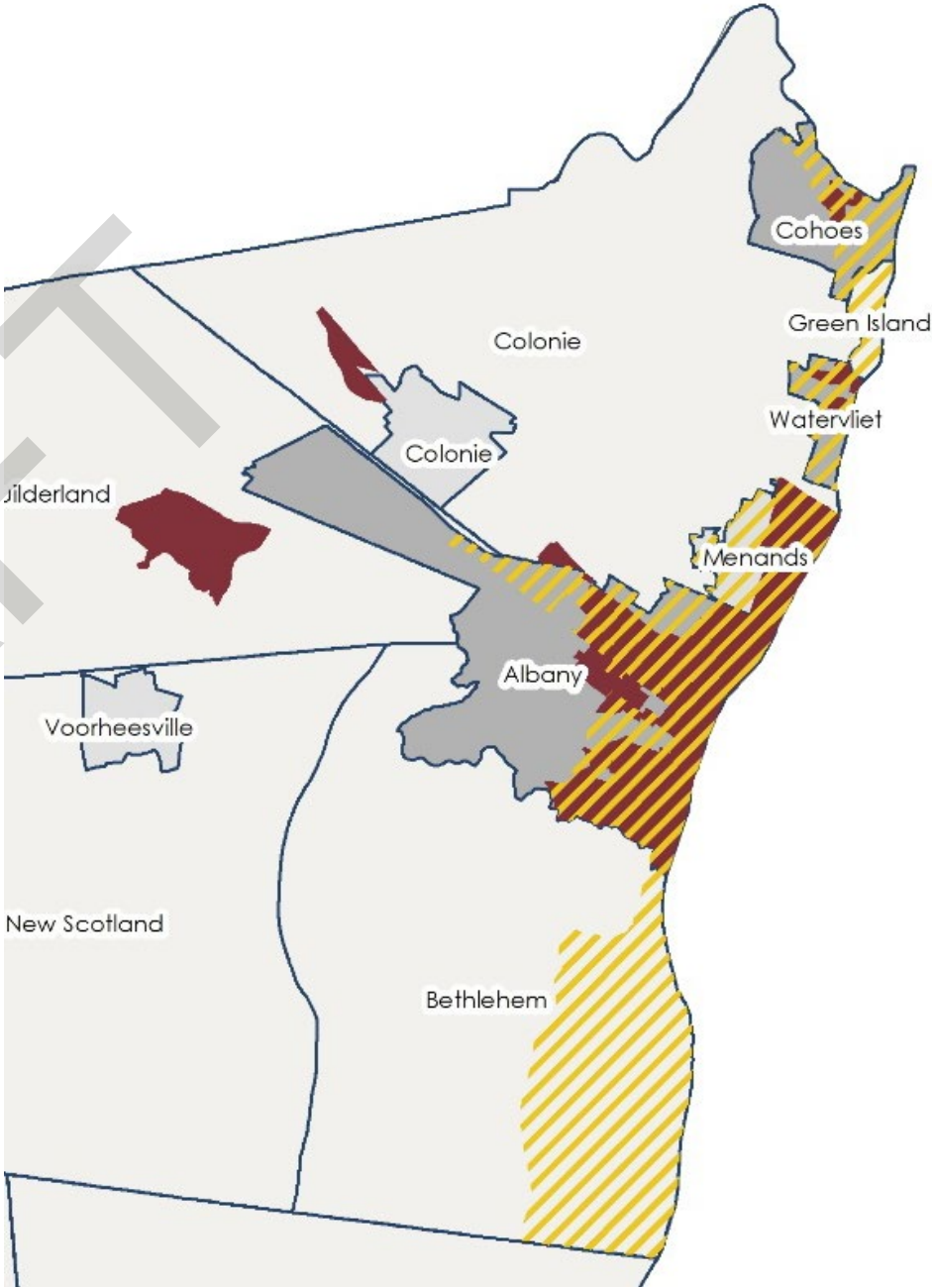
Vulnerable Populations

Albany County



Data Source
PEJA- 2014-2018 5-Year American Community Survey (ACS), May 2021
DAC-New York State Energy Research and Development Authority (NYSERDA), October 2023

- Disadvantaged Communities
- Potential Environmental Justice Areas
- Village
- City
- Town
- County



Discussion

1. What do you see as the biggest challenges with hazard mitigation in the work you do / in the County?
2. Are there other groups who are particularly affected by these hazards?



Mitigation Actions

Ongoing Actions from 2018 Plan

- Debris Clean Up Dry River
- One Way Culvert-Salt Kill at Hudson River
- Erosion control on Center Island
- Retaining Wall Extension and Repair
- Emergency Shelter Plan
- Replacement of Kenwood Ave. water tank and communication stabilization
- Establish duplicate operational ability at Parks Department and mobile communications vehicle for police and dispatch center
- And more!

New Actions Proposed

- Drought Education Program
- Tree Removal Strategy
- Vulnerability Assessment and Flood Protection for Critical Facilities
- Culvert Upgrades
- Water Conservation Education Program
- Generator Installation at Critical Facilities
- Other ideas??

Table 1. Key Stakeholders and Engagement Strategies

Category	Notes for Executive Steering Committee*	Who Will Be Engaged	Engagement Strategies
Jurisdictional representatives	Required.	Elected officials and staff members from the 18 municipalities plus Albany County	• Kickoff meetings (2) with elected officials • Jurisdictional interviews • Executive Steering Committee meetings (for Albany County officials)
Local and regional agencies involved in hazard mitigation activities	Required. Examples: public works, emergency management, local floodplain administration and Geographic Information Systems (GIS) departments.	• Highway Superintendent • Department of Public Works • Sheriff's Office (including Emergency Management) • Department of Health • Water Purification District • Department of Parks and Recreation • Soil & Water Conservation District • Municipal officials and staff	• Membership in Executive Steering Committee or invitation to select meeting(s) of the committee
Agencies that have the authority to regulate development	Required. Examples: zoning, planning, community and economic development departments; building officials; planning commissions; or other elected officials.		• Invitation to select Executive Steering Committee meeting(s)

Neighboring communities	Required. Examples: adjacent local governments, including special districts, such as those that are affected by similar hazard events or may share a mitigation action or project that crosses boundaries. Neighboring communities may be partners in hazard mitigation and response activities, or may be where critical assets, such as dams, are located.			• Neighboring Communities Survey
Businesses and other private interests	Required. Examples: private utilities, major employers that sustain community lifelines, chambers of commerce, dam owners			• Invitation to Public Information Meetings
Academia	Required. Examples: Colleges/Universities			• Invitation to Public Information Meetings
Nonprofits/ community-based organizations that work with vulnerable communities	Required. Examples: housing, healthcare, disability or social service agencies, faith-based organizations, NGOs, housing advocacy groups, neighborhood associations.	• Department of Social Services • Health and Mental Health Policy Analyst (Executive Steering Committee member) • (May need to add nonprofits)		• Invitation to select Executive Steering Committee meeting(s) • Provision of Focus Group Materials (if requested)

Requests

- Publicize online survey

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

- Convene focus groups, if interested



Questions/comments/ideas?

Please contact:

Jayne Breschard, Senior Managing Community Planner

jbreschard@bartonandloguidice.com or 585-325-7190 x2247

Albany County, NY Hazard Mitigation Plan Update

Albany County HMP Planning and Mechanisms Roundtable

Meeting Date: March 22, 2024

Location: via Zoom

Attendees:

Albany County
Patrick Curran, Climate Policy Analyst, Office of the County Executive
Christina Rust, Health and Mental Health Policy Analyst, Office of the County Executive
Sara Lubera, Albany County
Brent Meredith, Albany County

Barton & Loguidice
Jayme Breschard, Senior Managing Community Planner
Dan Theobald, Community Planner

NYS Division of Homeland Security and Emergency Services
Beth O'Reilly, Planning Manager, Hazard Mitigation

As part of the Albany County Hazard Mitigation Plan Update, each municipality meets with the county consultants (Barton and Loguidice, DPC) to create an individual annex / municipal profile. The profile reviews municipal capabilities, plans, staffing, and critical facilities. The purpose of the individual meetings is to assess the municipality's vulnerability to natural hazards and develop mitigation actions for future natural hazards. In addition to each municipality having an annex / profile, the county itself must have its own annex. Since the county is such a large entity, it is easier to split these meetings up.

On March 22, 2024, B&L met with county representatives and NYS DHSES to review the Planning and Mechanisms of Albany County. The following topics were discussed:

- Administrative boards, programs, and agreements;
- Development approvals;
- Funding resources;
- Land use regulations;
- Natural resources;
- Plans;
- Programs / Organizations;
- Staff positions; and
- Technical abilities.

The results are included in the County's annex.

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Albany County, NY Hazard Mitigation Plan Update

Albany County HMP Mitigation Actions Roundtable

Meeting Date: March 26 & April 23, 2024

Location: via Zoom

Attendees:

Albany County
Patrick Curran, Climate Policy Analyst, Office of the County Executive
Christina Rust, Health and Mental Health Policy Analyst, Office of the County Executive
Scott Feuerstein
Scott Duncan, Commissioner, Department of Public Works

Barton & Loguidice
Jayme Breschard, Senior Managing Community Planner
Dan Theobald, Community Planner

NYS Division of Homeland Security and Emergency Services
Beth O'Reilly, Planning Manager, Hazard Mitigation

As part of the Albany County Hazard Mitigation Plan Update, each municipality meets with the county consultants (Barton and Loguidice, DPC) to create an individual annex / municipal profile. The profile reviews municipal capabilities, plans, staffing, and critical facilities. The purpose of the individual meetings is to assess the municipality's vulnerability to natural hazards and develop mitigation actions for future natural hazards. In addition to each municipality having an annex / profile, the county itself must have its own annex. Since the county is such a large entity, it is easier to split these meetings up.

On March 26, 2024, B&L met with county representatives and NYS DHSES to review the status of actions from 2018 and determine which actions to carry into the current HMP update. Representatives on the call were unsure of the status of most of the mitigation actions from 2018. Therefore, Dan Theobald (B&L) met separately with Scott Duncan on April 23, 2024 to review the 2018 mitigation actions and determine which ones to carry into the update.

At the March 26th meeting, representatives also reviewed the newly proposed mitigation actions, most of which came from the Albany County Climate Resiliency Plan. They determined which actions to include in the update.

From these meetings, a total of 21 mitigation actions were added to the 2024 HMP update. Five (5) actions from the 2018 plan; sixteen (16) new mitigations were added to the plan update. It

was left that additional actions could be added at a later date based on public and stakeholder feedback, if necessary.

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