



**Homeland Security
and Emergency Services**

New York State Hazard Mitigation Plan

2023 Regulatory Update

Multi-Agency Engagement Meeting

May 3, 2023

Welcome

- **Introductions**
- **Hazard Mitigation & DHSES Role**
- **State Hazard Mitigation Plan: History and Overview**
 - 2018 MitigateNY
- **State Hazard Mitigation Plan: Content**
 - Hazard Profiles
 - Local Integration
- **State Hazard Mitigation Plan: New Requirements**
 - Climate Change
 - Equity
 - State-owned Assets
- **MitigateNY 2.0**
- **Agency & Stakeholder Participation**
- **Timeline**
- **Next Steps**

Agency Questions noted throughout – will be summarized and requested via survey following presentation



SHMP Development Team



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NYS Division of Homeland Security and Emergency Services (DHSES)

DHSES works to protect people, property, and economic well-being before, during, and after disasters.

- Office of Emergency Management
 - Field Operations
 - NYS Watch Center
 - Planning
 - Radiological Emergency Preparedness Program
 - Training and Exercise
 - Transportation Security and Emergency Preparedness
- Office of Fire Prevention and Control
- Office of Counter Terrorism
 - Critical Infrastructure Protection Unit
- Grants
- Office of Interoperable and Emergency Communications
- State Preparedness Training Center
- Cyber Incident Response
- **Disaster Recovery**
 - **Public Assistance**
 - **Individual Assistance**
 - **Finance**
 - **Hazard Mitigation**

Hazard Mitigation

Sustained actions that reduce or eliminate long-term risk to people and property from future disasters

- Creates safer communities, reduces loss of life and damage to improved property, and diminishes financial and emotional stress
- Breaks the cycle of disaster damage and loss
- Allows communities to rebuild more quickly
- Saves money: every mitigation \$1 spent avoids an average of \$6 in future damages



Hazard Mitigation: DHSES Role

Administer FEMA's Hazard Mitigation Assistance (HMA) programs:

Hazard Mitigation Grant Program (HMGP)

- Available after a presidentially declared disaster in New York, to New York State only.
- Funds a wide variety of mitigation planning activities and projects.

Building Resilient Infrastructure & Communities (BRIC)

- Available annually (subject to Congressional appropriation)
- Typically announced in September; applications due to DHSES ~November
- Funds a wide variety of mitigation planning activities, projects, and capability and capacity building.

Flood Mitigation Assistance Program (FMA)

- Available annually (subject to Congressional appropriation)
- Typically announced in September; applications due to DHSES ~November
- Funds planning & projects specifically designed to reduce or eliminate risk of repetitive flood damage to structures insured under the National Flood Insurance Program (NFIP)



Hazard Mitigation: DHSES Role

Administer funding, provide technical assistance, and ensure regulatory compliance for **Local Hazard Mitigation Plans (LHMP)**.

Serve as the lead state agency responsible for the maintenance and update of the **State Hazard Mitigation Plan (SHMP)** under the direction of the Disaster Preparedness Commission (DPC).



Hazard Mitigation Plans: Federal Mandate

Authorized under the Robert T. Stafford Disaster Relief and Emergency Assistance Act (Stafford Act), amended by the Disaster Mitigation Act of 2000 (DMA 2000) and outlined in the 44 CFR Part 201.

NEW State Mitigation Planning Policy Guide

Effective April 19, 2023



State Mitigation Planning Policy Guide

FP 302-094-2

Released April 19, 2022, Effective April 19, 2023

OMB Collection #1660-0062



FEMA

C.2. Standard State Mitigation Plan Regulation Checklist						
PLANNING PROCESS						
Requirements				Location in Plan (section and/or page number)		
S1. Does the plan include a description of the process used to develop the plan? [44 CFR § 201.4(b) and 201.4(c)(1)]				S1.0. Does the plan prioritize mitigation actions to reduce vulnerabilities identified in the hazard analysis? [44 CFR §§ 201.4(c)(3)(ii), 201.4(c)(3)(iii) and 201.4(c)(3)(iv)]		
S1.a. Does the plan describe the current process used to update the plan, including how the plan was prepared, the schedule or time frame, and the mitigation ent possible				S1.0. Does the plan identify actions based on the current risk assessment to reduce the vulnerability of jurisdictions within the state, as well as the vulnerability of state assets as described in Element S1.b?		
Requirements				Location in Plan (section and/or page number)		
S2. Does the probability include considerations of changing future conditions, including climate change (e.g., long-term weather patterns, average temperature, and sea levels) on the type, location and range of anticipated intensities of identified hazards?				S1.0. Does the plan describe the process used by the state to evaluate and prioritize actions that are cost-effective, environmentally sound, and technically feasible?		
S3. Does the risk assessment address the vulnerability of state assets to estimate the potential dollar losses to these assets? [44 CFR §§ 201.4(c)(2)(iii)]				S1.0. Does the plan describe how each action contributes to the mitigation goals?		
S4. Does the risk assessment include an overview and analysis of the potential to data assets from the identified hazards as well as a summary of the most vulnerable assets?				S1.0. Does the plan describe local government mitigation strategies linked to the mitigation goals?		
S5. Does the risk assessment estimate potential dollar losses to state assets located in identified hazard areas?				S1.1. Does the plan identify actions and associated costs for implementation?		
S6. Does the risk assessment include an overview and analysis of identified hazards and the potential losses? [44 CFR §§ 201.4(c)]				S1.1. Does the plan describe the system for implementation of the mitigation activities as the mitigation plan is updated?		
S6.a. Does the risk assessment provide an overview and analyze vulnerable jurisdictions based on the state and local government risk assessments?				S1.1. Does the plan describe the effectiveness of mitigation policies, programs, and capabilities?		
S6.b. Does the risk assessment include an overview and analysis of the potential losses to the identified vulnerable structures based on the local risk assessment, as well as the state risk assessment?				S1.2. Was the plan updated based on the progress?		
S7. Was the risk assessment revised to reflect changes in development?				S1.2. Was the plan updated based on the progress?		
S7.a. Does the plan provide a summary of recent development or potential or projected development in hazard-prone areas based on state and local government risk assessments?				S1.3. Does the plan describe the effectiveness of mitigation policies, programs, and capabilities?		
Hazard Identification and Risk Assessment Required Revisions:						
STATE MITIGATION CAPABILITIES						
Requirements				Location in Plan (section and/or page number)		
S8. Does the plan discuss the evaluation of the state's hazard management capabilities, and funding sources to mitigate the hazards identified in the risk analysis?				S1.4. Does the plan describe the system for updating FEMA-approved mitigation plans?		
S8.a. Does the plan include an evaluation of state laws, regulations, and programs related to hazards that improve or impede resilience to future natural hazard events and other future conditions, including the effects of climate change?				S1.4. Does the plan describe how the state updates FEMA-approved mitigation plans?		
S8.b. Does the plan include a general discussion of state funding capabilities for hazard mitigation actions and projects?				S1.4. Does the plan describe how the state updates FEMA-approved mitigation plans?		
S8.c. Does the plan include a summary of obstacles, challenges and proposed solutions related to any state capacities, including the state's ability to implement and enforce overviews of any challenges related to implementing and enforcing hazard-resistant building codes statewide, as applicable, and changes since the previous plan approved?				S1.4. Does the plan describe how the state updates FEMA-approved mitigation plans?		
State Mitigation Policies Required Revisions:						
MITIGATION STRATEGY						
Requirements				Location in Plan (section and/or page number)		
S9. Does the mitigation strategy include goals to reduce long-term vulnerabilities from the identified hazards? [44 CFR § 201.4(c)(3)(iii)]				S1.5. Does the plan describe the criteria for prioritizing mitigation actions?		
S9.a. Does the plan identify hazard mitigation goals representing what the state seeks to accomplish through mitigation plan implementation using a wide range of funding, including non-FEMA funding?				S1.5.a. Does the plan describe criteria for prioritizing mitigation actions to reduce risks to and from tribal lands?		
S9.b. Are the goals consistent with the hazards and vulnerabilities identified in the hazard analysis?				S1.5.b. Does the plan describe the criteria for prioritizing mitigation actions to reduce risks to and from tribal lands?		
Local Planning Coordination and Capability Building Required Revisions:						
STATE MIGRATION PLANNING POLICY GUIDE (2022)						
Requirements				Location in Plan (section and/or page number)		
S10. Does the plan prioritize mitigation actions to reduce vulnerabilities identified in the hazard analysis? [44 CFR §§ 201.4(c)(3)(ii), 201.4(c)(3)(iii) and 201.4(c)(3)(iv)]				S1.6. Does the plan prioritize mitigation actions to reduce long-term vulnerabilities consistent with the goals?		
S10.a. Does the plan identify actions based on the current risk assessment to reduce the vulnerability of jurisdictions within the state, as well as the vulnerability of state assets as described in Element S1.b?				S10.0. Does the plan include actions to reduce vulnerabilities from high hazard potential dams?		
S10.b. Does the plan describe the process used by the state to evaluate and prioritize actions that are cost-effective, environmentally sound, and technically feasible?				S10.0. Does the plan include actions to reduce vulnerabilities from high hazard potential dams?		
S10.c. Does the plan describe how each action contributes to the mitigation goals?				S10.0. Does the plan include actions to reduce vulnerabilities from high hazard potential dams?		
S10.d. Does the plan describe local government mitigation strategies linked to the mitigation goals?				S10.0. Does the plan include actions to reduce vulnerabilities from high hazard potential dams?		
REVIEW, EVALUATION, AND IMPLEMENTATION						
Requirements				Location in Plan (section and/or page number)		
S17. Is there a description of the method and schedule for keeping track of the plan's performance? [44 CFR §§ 201.4(c)(5) and 201.4(e)(4)]				S10.1. Does the plan describe how each act related to high hazard potential dams contribute describe how strategies are linked to the state mitigation goals?		
S17.a. Does the plan describe the agency or office responsible for monitoring, evaluating and updating the plan?				S10.1. Does the plan describe how each act related to high hazard potential dams contribute describe how strategies are linked to the state mitigation goals?		
State Migration Planning Policy Guide (2022)						
Requirements				Location in Plan (section and/or page number)		
S17.5. Does the plan describe the method for funding actions to reduce long-term vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?				S10.2. Does the plan include various funding sources to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
S17.6. Does the plan include the schedule for monitoring, evaluating and updating the plan?				S10.2. Does the plan include various funding sources to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
LOCAL PLANNING COORDINATION AND CAPABILITIES						
Requirements				Location in Plan (section and/or page number)		
S18. Does the plan provide a general description and analysis of mitigation policies, programs, and capabilities? [44 CFR §§ 201.4(c)(5) and 201.4(e)(4)]				S10.3. Does the plan describe the system for reducing vulnerabilities from high hazard potential dams?		
S18.a. Does the plan provide a summary of current government mitigation policies, programs and capabilities?				S10.3. Does the plan describe the system for reducing vulnerabilities from high hazard potential dams?		
S18.b. Does the plan describe the effectiveness of mitigation policies, programs and capabilities?				S10.3. Does the plan describe the system for reducing vulnerabilities from high hazard potential dams?		
S18.c. Does the plan describe the challenges and proposed solutions related to any state capacities, including the state's ability to implement and enforce overviews of any challenges related to implementing and enforcing hazard-resistant building codes statewide, as applicable, and changes since the previous plan approved?				S10.3. Does the plan describe the system for reducing vulnerabilities from high hazard potential dams?		
Mitigation Strategy Revisions:						
Review, Evaluation, and Implementation Requirements						
Requirements				Location in Plan (section and/or page number)		
S19. Does the plan describe the challenges and proposed solutions related to any state capacities, including the state's ability to implement and enforce overviews of any challenges related to implementing and enforcing hazard-resistant building codes statewide, as applicable, and changes since the previous plan approved?				S10.4. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
S19.a. Does the plan describe the challenges and proposed solutions related to any state capacities, including the state's ability to implement and enforce overviews of any challenges related to implementing and enforcing hazard-resistant building codes statewide, as applicable, and changes since the previous plan approved?				S10.4. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
ADOPTION AND ASSURANCES						
Requirements				Location in Plan (section and/or page number)		
S20. Does the state provide documentation of the highest elected official or designee prior to adopting the state's mitigation plan?				S10.5. Does the plan describe mitigation actions to reduce risks to and from tribal lands?		
S20.a. Does the state provide documentation of the highest elected official or designee prior to adopting the state's mitigation plan?				S10.5. Does the plan describe mitigation actions to reduce risks to and from tribal lands?		
S20.b. Does the state provide documentation of the highest elected official or designee prior to adopting the state's mitigation plan?				S10.5. Does the plan describe mitigation actions to reduce risks to and from tribal lands?		
S20.c. Does the state provide documentation of the highest elected official or designee prior to adopting the state's mitigation plan?				S10.5. Does the plan describe mitigation actions to reduce risks to and from tribal lands?		
State Mitigation Policies Required Revisions:						
High Hazard Potential Dams						
Requirements				Location in Plan (section and/or page number)		
S21. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?				S10.6. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
S21.a. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?				S10.6. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
S21.b. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?				S10.6. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
S21.c. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?				S10.6. Does the plan describe challenges to mitigation policies, programs and capabilities to vulnerabilities to and from high hazard potential dams and the potential consequences associated with it as funding sources for rehabilitation or removal of these dams?		
FIRE MANAGEMENT ASSISTANCE GRANTS						
Requirements				Location in Plan (section and/or page number)		
SFMAG1. Does the plan address wildfire risks? [44 CFR 201.4(c)(2); 44 CFR § 204.51(d)(2)]				SFMAG1.a. Does the risk assessment provide an overview of the location and previous occurrences of wildfires in the state?		
SFMAG1.a. Does the risk assessment provide an overview of the location and previous occurrences of wildfires in the state?				SFMAG1.b. Does the risk assessment provide an overview of the types of future wildfire events that includes projected changes in the location, frequency, intensity, and duration of wildfire hazards?		
SFMAG1.b. Does the risk assessment provide an overview of the types of future wildfire events that includes projected changes in the location, frequency, intensity, and duration of wildfire hazards?				SFMAG1.c. Does the risk assessment address the vulnerability of state assets located in wildfire hazard areas and estimate the potential dollar losses to those assets?		
SFMAG1.c. Does the risk assessment include an overview and analysis of local government vulnerability to wildfires and the potential losses to vulnerable structures?				SFMAG1.d. Does the risk assessment include an overview and analysis of local government vulnerability to wildfires and the potential losses to vulnerable structures?		
SFMAG2. Does the plan's mitigation strategy contain wildfire-related mitigation initiatives? [44 CFR 201.4(c)(3); 44 CFR § 204.51(d)(2)]				SFMAG2. Does the mitigation strategy contain wildfire-related mitigation actions to reduce the vulnerability of state-owned assets to wildfire hazards?		
SFMAG2.a. Does the mitigation strategy contain wildfire-related mitigation actions to reduce the vulnerability of state-owned assets to wildfire hazards?				SFMAG2.b. Does the mitigation strategy contain wildfire-related mitigation actions to reduce the vulnerability of state-owned assets to wildfire hazards?		
SFMAG2.b. Does the mitigation strategy contain wildfire-related mitigation actions to reduce the vulnerability of state-owned assets to wildfire hazards?				SFMAG2.c. Does the mitigation strategy contain wildfire-related mitigation actions to reduce the vulnerability of state-owned assets to wildfire hazards?		



Hazard Mitigation Plans: Federal Mandate

The **State Hazard Mitigation Plan (SHMP)** is required to receive certain non-emergency recovery FEMA grants, including:

- Public Assistance (non-emergency) Categories C-G
- Hazard Mitigation Assistance (HMA) grants – HMGP, BRIC, FMA
- Fire Management Assistance Grants (FMAG)
- Rehabilitation of High Hazard Potential Dams (HHPD) Grants

Local Hazard Mitigation Plans (LHMP) are required to receive FEMA mitigation grants, including:

- Hazard Mitigation Assistance (HMA) grants – HMGP, BRIC, FMA
- Rehabilitation of High Hazard Potential Dams (HHPD) Grants

LHMPs: typically county-led and county-wide, and include all municipalities within.

All counties in NYS have or are in-process of developing or updating a FEMA-approved Hazard Mitigation Plan.

Plans must be submitted to FEMA for approval every five (5) years to maintain eligibility.

SHMP: History

First:	2005
Updates:	2008
	2011
	2013/2014
MitigateNY:	2018/2019

<https://mitigateny.avilabs.org/>

Note: Site is in process of migration to ITS servers and ny.gov domain.



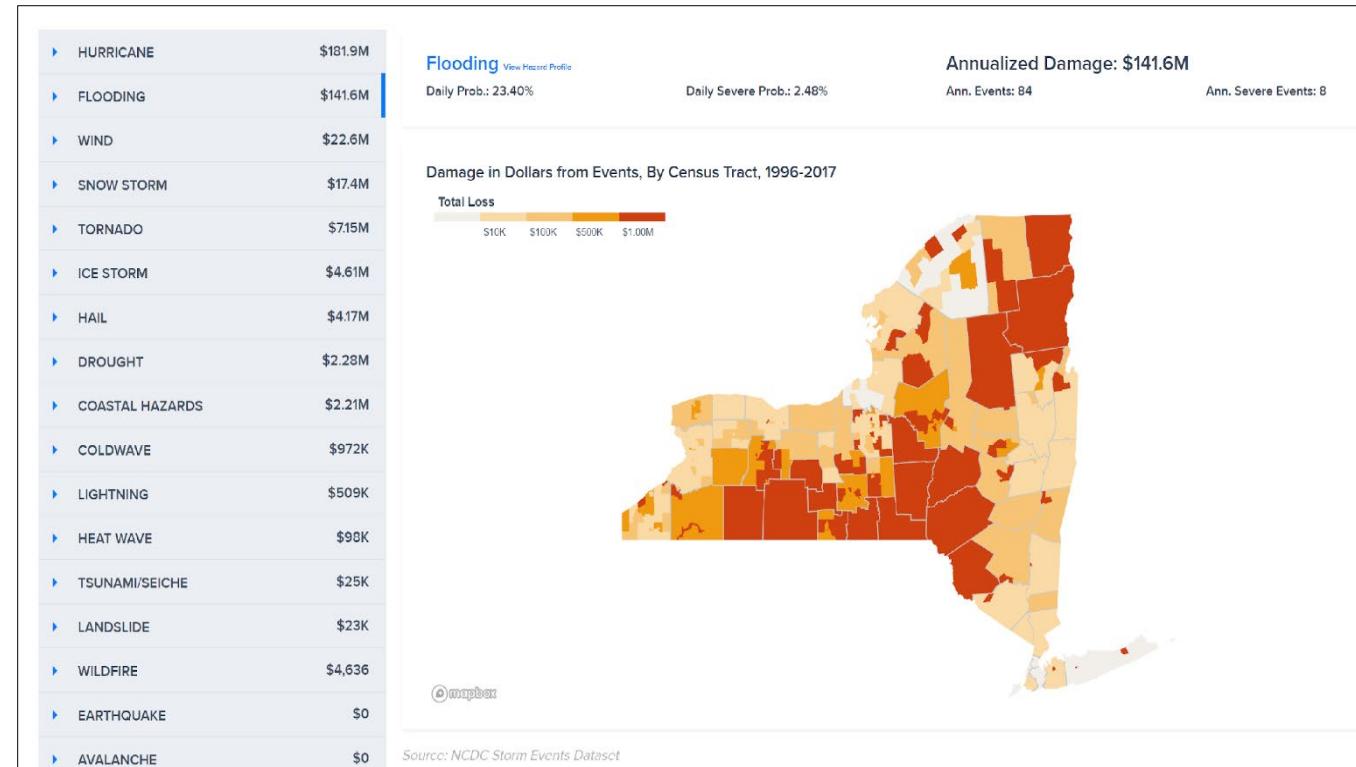
- Transitioned hazard mitigation planning framework from static planning documents to **data-rich, web-based planning tools**
- **Integrated Local Hazard Mitigation Plan (LHMP) processes** and outcomes with the SHMP by providing technical assistance and up-to-date web-based risk and capability analysis tools by developing and piloting MitigateNY: LHMP Platform

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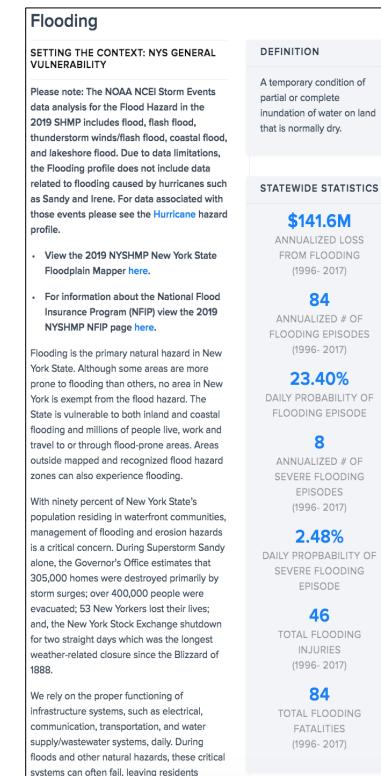
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LOCATION	HIGH RISK MUNICIPALITIES
Although some regions throughout the state are more susceptible to multiple flood types than others, there are no areas in the state exempt from flooding. New York's land characteristics such as topography, elevations, latitudes, and water bodies (including waterways) are contributing factors to flooding. For example, steep slope features can cause large accumulations of water in the associated valleys or ravines, especially during intense or long-duration rainfalls.	Owego town \$15.2M Union town \$9.55M Binghamton city \$8.65M Tioga town \$3.27M Sidney town \$2.64M
	<i>Source: NOAA NCEI Storm Events Dataset</i>
HIGH RISK COUNTIES	
	Broome County \$36.3M Tioga County \$27.1M Delaware County \$19.3M Sullivan County \$7.21M Chenango County \$5.67M
	<i>Source: NOAA NCEI Storm Events Dataset</i>

Events with Highest Reported Loss in Dollars		
1996-2017		
The table below summarizes the top 50 events by loss in dollars. Click on a row to view the event description.		
Search Download CSV		
PROPERTY DAMAGE	MUNICIPALITY	DATE
\$309.0M	Owego town, TIoga	9/7/2011, 4:54:00 PM
\$250.0M	DELAWARE	6/27/2006, 8:10:00 AM
\$200.0M	BROOME	6/27/2006, 4:00:00 PM
\$170.0M	Binghamton city, BROOME	9/7/2011, 2:23:00 PM
\$160.0M	Union town, BROOME	9/7/2011, 12:22:00 PM
\$100.0M	TIOGA	6/27/2006, 2:10:00 PM
\$100.0M	SULLIVAN	6/27/2006, 4:00:00 AM
\$70.0M	Tioga town, TIOGA	9/7/2011, 11:19:00 AM

Showing Records 1 - 8 of 50

Previous [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) Next

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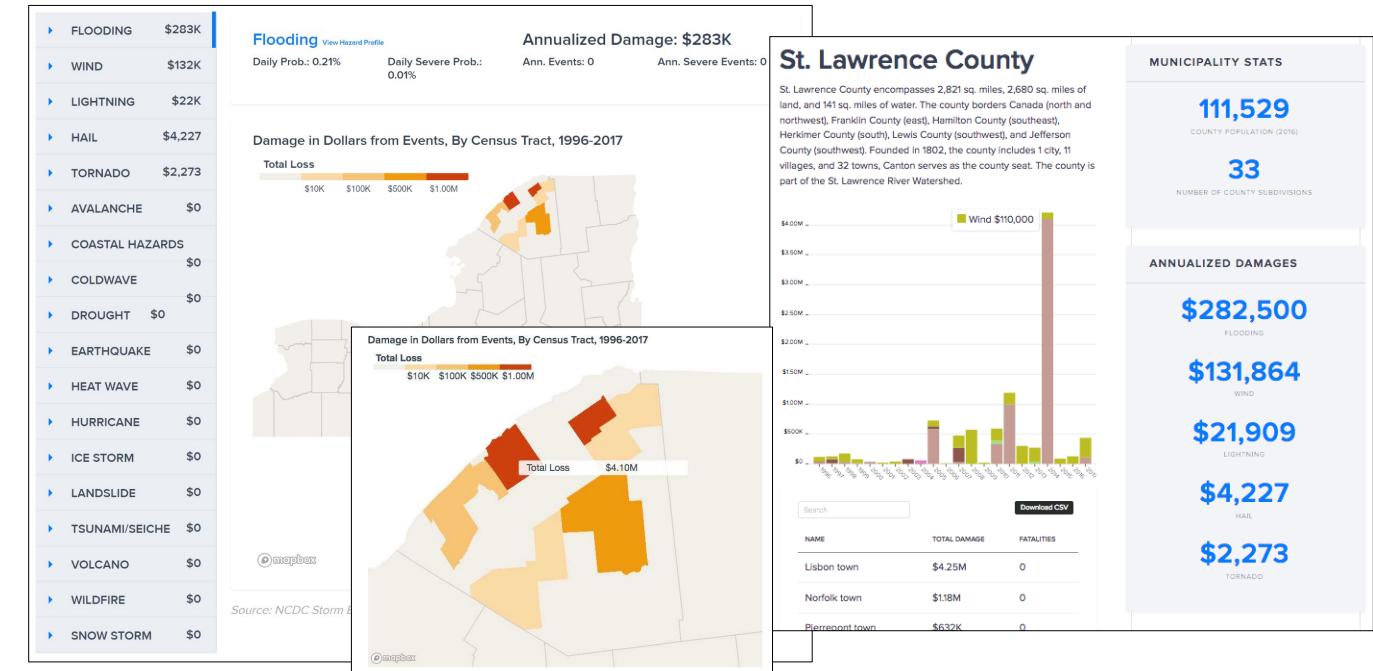


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FLOOD, EROSION, AND WATER MANAGEMENT										edit #capabilities-flood_water_management	
<div style="display: flex; justify-content: space-between;"> <div style="flex-grow: 1;"> <input placeholder="Search" type="text"/> </div> <div style="text-align: right;"> Download CSV </div> </div>											
COUNTY	NATIONAL FLOOD INSURANCE PROGRAM	FLOOD MITIGATION PLAN (CRS/NFIP/SFHA) ▾	FLOOD INSURANCE RATE MAP (FIRM)	FLOODPLAIN ORDINANCE	FLOODPLAIN ADMINISTRATOR	STORM WATER MANAGEMENT PLAN	STORM WATER / WATERSHED MANAGEMENT ORDINANCE	FLOOD MITIGATION ASSISTANCE (FMA)	RIPARIAN PROTECTION OR SETBACKS	LOCAL DRAINAGE REGULATIONS (FLOOD AND STORMWATER)	COASTAL EROSION HAZARD AREA
Herkimer County	X	X	X	X	X	X	X				
Wyoming County			X						X	X	
Columbia County	X	X				X					
Dutchess County		X	X								
Essex County	X	X									
Genesee County		X	X	X			X				
Chemung County	X	X	X	X	X		X				
Madison County	X		X				X				

LOCAL HAZARD MITIGATION PLANNING

Local Plan Development

In New York State, local hazard mitigation plans are typically coordinated by the county since planning grants are not awarded at the municipal level. The process is most often led by the county office of emergency management or planning department, though several have been coordinated by other entities, such as the Soil and Water Conservation District.

Plans are developed in accordance with guidelines set forth by FEMA regulations and DHSES State Standards, and technical assistance is available from either agency at any point between project inception and closeout. Beginning with a conversation between the county, FEMA at DHSES during the planning kickoff meeting, DHSES provides ongoing outreach and support to further align local and state planning processes.

Counties apply to DHSES for funding to complete either an initial plan or an update to an existing local hazard mitigation plan. Once the community secures funding, the county develops a steering committee comprised of subject matter experts, stakeholders, and those with technical expertise to develop the plan.

- Transitioned hazard mitigation planning framework from static planning documents to **data-rich, web-based planning tools**
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MitigateNY: LHMP Platform

2022 Schenectady County Hazard Mitigation Plan

Schenectady County Context			
Population: 154,859	Household Income Below Poverty Level: 11%	Median Household Income: \$65,499	Median Property Value: \$169,600
Median Age: 40	Number of Employees: 66,964		

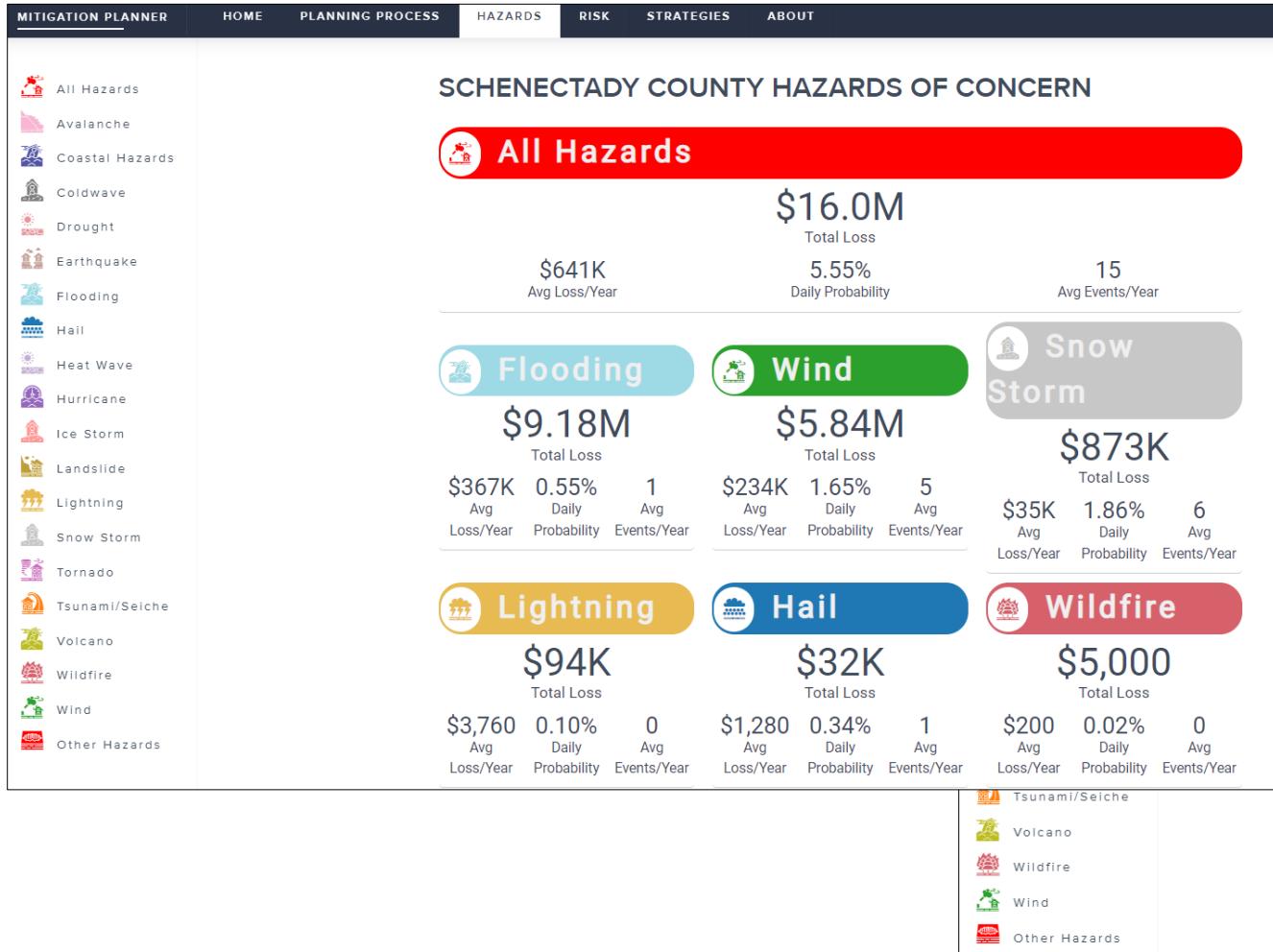
To view a specific jurisdiction's content please select the community name from the dropdown menu on the right on the top banner. Jurisdictional information will display on a blue background. Learn more about how to navigate this plan [here](#).

Location and Geography

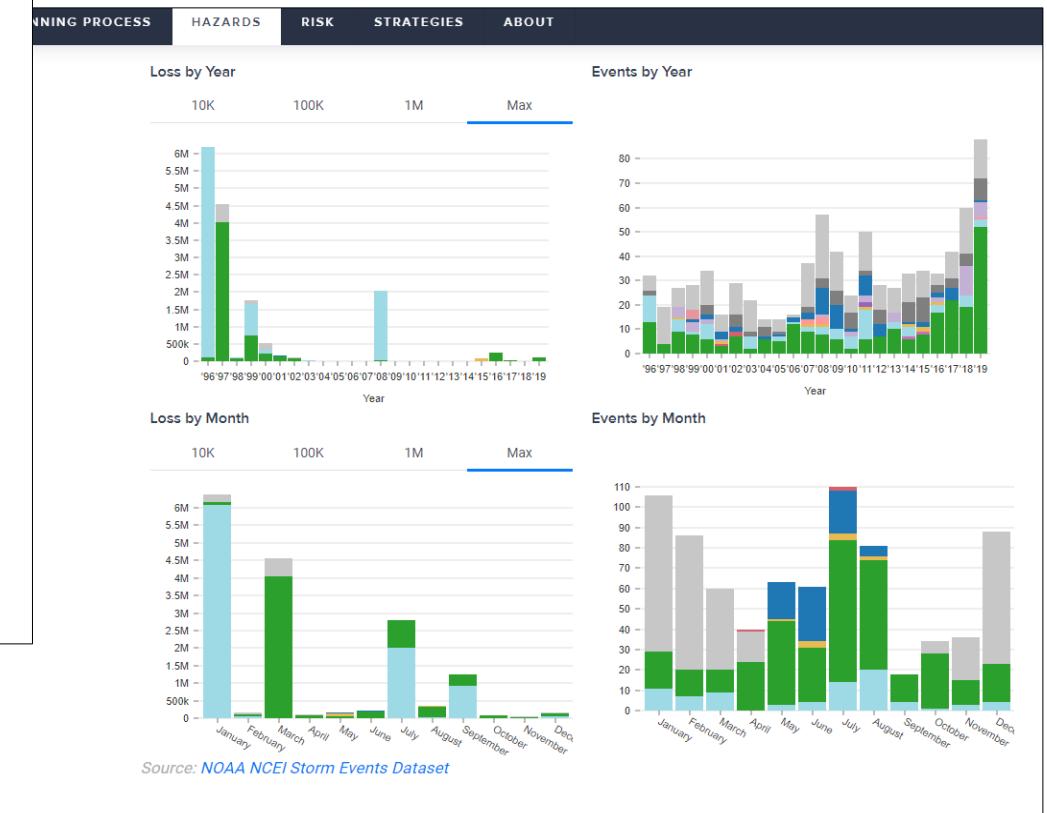
The County's geographical location exposes it to a wide range of natural hazards. The City of Schenectady, five towns, and two villages comprise the municipalities in the County. The densest residential, commercial, and industrial development is in the City of Schenectady, with suburban uses clustered in the Village of Scotia, Towns of Glenville, Niskayuna, and Rotterdam. The Towns of Duanesburg and Princetown are primarily rural in character although there are small commercial centers in the Village of Delanson and the Town of Duanesburg.

Schenectady County occupies approximately 208 square miles, of which 3.5 square miles is water area. It is the second smallest of the 57 counties outside of New York City. The County is located in the eastern center of the State of New York about halfway between NYC and Montreal. The County is bordered to the northeast by Saratoga County, to the northwest by Montgomery County, to the southwest by Schoharie County and to the south by Albany County.

MitigateNY: LHMP Platform



2022 Schenectady County Hazard Mitigation Plan



MitigateNY: LHMP Platform

2022/23 Niagara County Hazard Mitigation Plan

The screenshot shows the MitigateNY platform for Niagara County. The top navigation bar includes links for HOME, PLANNING PROCESS, HAZARDS, RISK, STRATEGIES, and ABOUT. The PLANNING PROCESS tab is selected. The main content area displays the "NIAGARA COUNTY HAZARD MITIGATION PLAN" and the "Niagara County 2022 Hazard Mitigation Plan". The sidebar on the left provides access to various planning context, risk, and strategy documents. The main content area also includes a map of the Niagara region with numerous location markers indicating stakeholder feedback points.

NIAGARA (COUNTY)

NIAGARA COUNTY HAZARD MITIGATION PLAN

Niagara County 2022 Hazard Mitigation Plan

NIAGARA COUNTY HAZARD MITIGATION PLAN

Approved and adopted February, 2023

PLANNING CONTEXT

- Introduction
- Local Context
- Planning Team

RISK

- Hazard Loss
- Hazard Events
- NPIP
- Assets

STRATEGIES

- Overview
- Goals & Objectives
- Capabilities Table
- Actions

MITIGATION PLANNER

HOME

PLANNING PROCESS

HAZARDS

RISK

STRATEGIES

ABOUT

NIAGARA (COUNTY) ▾

NIAGARA (COUNTY) ▾

the stakeholder feedback gathered through these meetings. Using this feedback, the planning team identified updated the Hazard Risk and Vulnerability Assessment for each participating jurisdiction.

- Niagara Co. HMP Jurisdictional Team Work Session Fall 2021
- Niagara Co. HMP Stakeholder Feedback Map

HMP Stakeholder Feedback 2022

- 📍 Vulnerable Communities
- 📍 Top hazard concerns
- 📍 Recent/Potential Development
- 📍 Flooding: neighborhoods
- 📍 Flooding: infrastructure
- 📍 Recent mitigation actions
- 📍 Backup power
- 📍 Stormwater/sewer systems
- 📍 Dead trees (esp. Ash)
- 📍 Obstructed ditches/streets
- 📍 Flooding: lakefront
- 📍 Mitigation action ideas
- 📍 Natural area concerns
- 📍 Manmade hazard

WELCOME **BACKGROUND** **2023 SHMP** **MitigateNY 2.0** **TIMELINE** **NEXT STEPS**

NEW YORK STATE

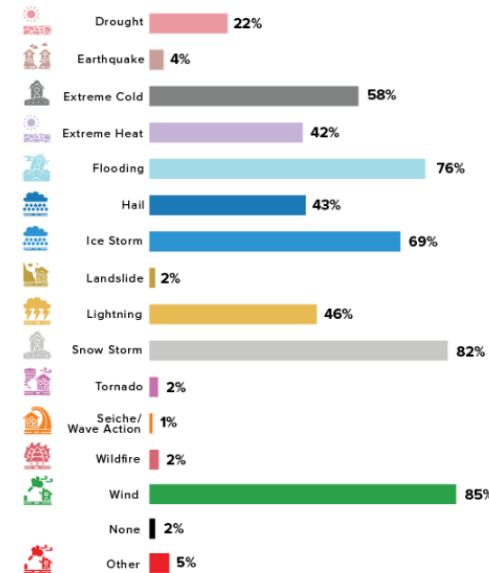
Homeland Security and Emergency Services

MitigateNY: LHMP Platform

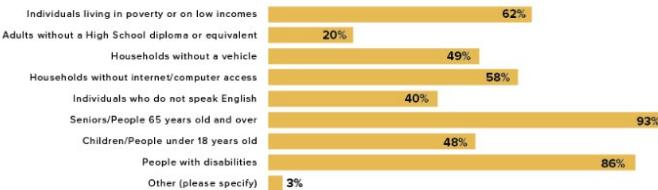
Community Input

In the Niagara County 2022 Hazard Mitigation Plan Community Survey, 130 community members were asked which natural hazards they experienced and which hazards they were most strongly concerned about. The hazards that respondents were most likely to have experienced include: strong winds (85%), snow storms (82%) flooding (76%) and ice storms (69%) ($n=130$).

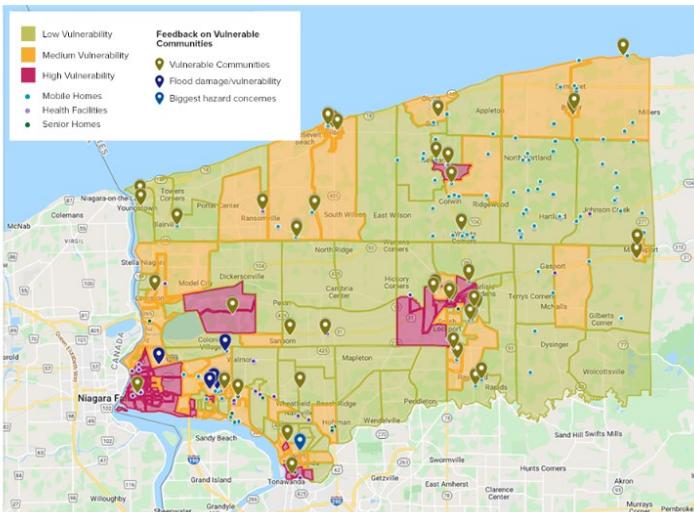
Q2. In the past ten years what types of hazards have you experienced? Please check all that apply.



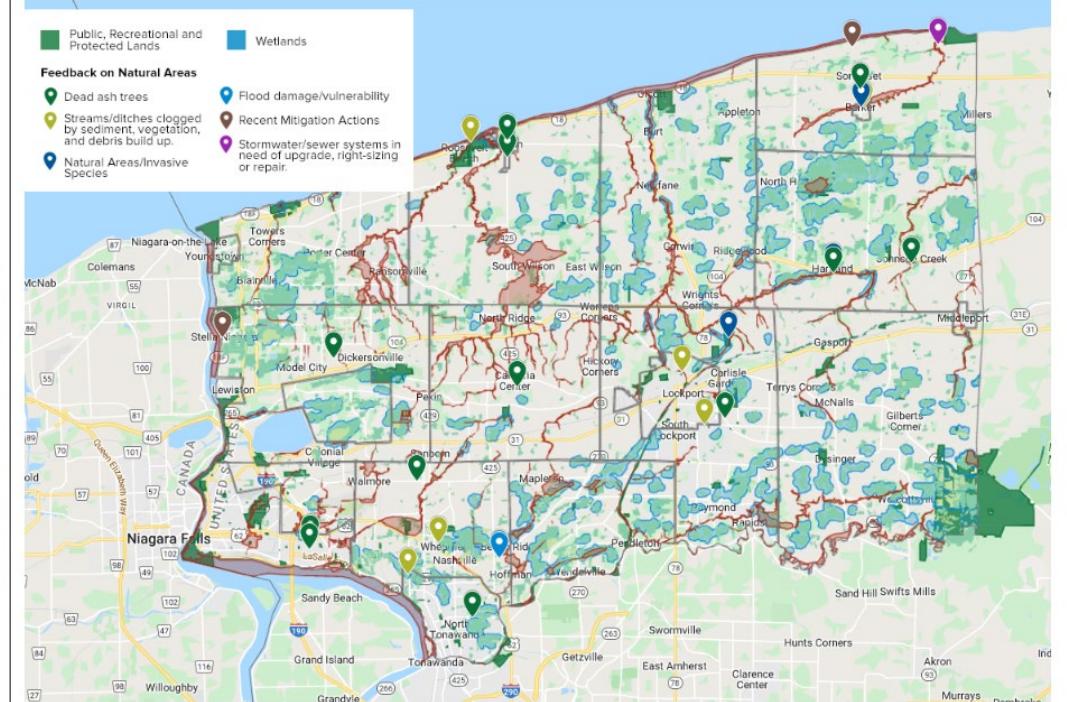
Q20. Please identify any vulnerable members or groups of your community that may be at risk before, during or after a hazard event. Please check all that apply.



Niagara Co. HMP Social Vulnerability Map



In meetings with jurisdictional teams, the planning team presented maps overlaying the natural areas across the County to solicit a discussion on increased risks, vulnerabilities, and hazard events that affect ecosystems and open spaces across the County. A copy of that map with feedback collected from the jurisdictional teams can be accessed [here](#).



MitigateNY: LHMP Platform

Content Management System (CMS): LHMP

The screenshot displays two main sections of the MitigateNY LHMP Platform:

- Pre-Planning | Outreach Strategy**: This section shows a sidebar with navigation links for various planning components like Planning Image, Planning Process, Planning Context, Pre-Planning, Outreach Strategy, Local Orientation, Planning Teams, and Outreach Activities and Objectives. The main content area contains a detailed description of the Outreach Strategy, mentioning the COVID pandemic and its impact on planning activities.
- Capabilities**: This section lists various capabilities for the municipality of Delanson (Village). The table includes columns for Municipality, Capability Category, Capability Type, Capability Name, and Responsible Authority. Each row provides details about a specific capability, such as Building Code or Zoning Ordinance, along with edit and view buttons.





MitigateNY

Current version available in every county in New York State:
[COUNTYNAME].mitigateny.org

These six (6) counties' MitigateNY sites will have complete, community adopted and FEMA approved Hazard Mitigation Plan content:

- [Sullivan](#)
- [Delaware](#)
- [Hamilton](#)
- [Fulton](#)
- [Schenectady](#)
- [Niagara](#)

All others will include templated data to support hazard mitigation planning, but no unique user/plan-generated content.



Homeland Security
and Emergency Services

New York State Hazard Mitigation Plan (SHMP)

- Profiles existing conditions in New York State:
 - Buildings
 - Infrastructure
 - Natural Environment
 - People
- Profiles natural hazards of concern in New York State
- Identifies risks and vulnerabilities of profiled natural hazards
- Documents state capabilities for risk reduction
- Identifies long-term strategies for risk reduction
- Presents critical data and information from and for local hazard mitigation planning



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- Identifies long-term strategies for risk reduction
- **Presents critical data and information from and for local hazard mitigation planning**

2023 SHMP: Hazard Profiles

Natural Hazards profiled in the 2018 SHMP:

- Avalanche
- Coastal Hazards
- Cold Wave
- Drought
- Earthquake
- Flooding
- Hail
- Heat Wave
- Hurricane
- Ice Storm
- Landslide
- Lightning
- Snow Storm
- Tsunami/Seiche
- Tornado
- Volcano
- Wildfire
- Wind

2023 SHMP: Hazard Profiles

Anticipated changes in 2023:

- Avalanche
- Coastal Hazards - revisions considered
- Cold Wave
- Drought
- Earthquake
- Flooding - broken out by flood types
- Hail
- Heat Wave - renamed: Extreme Heat
- Hurricane
- Ice Storm
- Landslide
- Lightning
- Snow Storm
- Tsunami/Seiche
- Tornado
- Volcano - Omitted
- Wildfire
- Wind

2023 SHMP: Hazard Profiles

Content additions in 2023:

- Public Health (including Pandemic)
- Harmful Algal Bloom
- Changes in average daily temperature
- Changes in average daily precipitation



2023 SHMP: Agency Question

1. Are there changes or additions that should be made to the listed hazards and/or hazard-related content additions?

2023 SHMP: Local Integration

Community focused, locally informed SHMP leverages local plans, processes, reports, and data:

- Local Hazard Mitigation Plans (LHMP)
 - ❖ Hazards of Concern
 - ❖ Identified Problem Areas
 - ❖ Local Capabilities
 - ❖ Proposed Actions
 - ❖ Action prioritization criteria
- ❖ Flood Data:
 - Documented flood types
 - Local flood impacts
 - Local flood assessments, reports, workgroups

Facilitates information sharing between and among counties and jurisdictions

Identifies and document gaps in data, information, capabilities to effectively mitigate flood risk

2023 SHMP: Local Integration

Community focused, locally informed SHMP leverages local plans, processes, reports, and data:

- County Emergency Preparedness Assessments (CEPA)
 - Facilitate county risk and capability assessments utilizing anecdotal evidence, participant responses, POETE
 - 3 year cycles, most recent (3rd round) conducted 2020-2022 for ALL counties
 - Risk Assessments conducted for 28 standard risks (including non-natural hazards) assessing Likelihood and Consequence
 - Capabilities Assessments conducted for 28 Critical Capabilities ranking capacity for: Planning, Organization, Equipment, Training, Exercises
 - County Profiles developed outlining notable geographical features, economic drivers, waterbodies, etc.



2023 SHMP: Agency Question

2. Are there other statewide local planning processes that we should be leveraging?

New Federal Requirements



2023 SHMP: New Federal Requirements

2023 State Hazard Mitigation Planning and Policy Guide emphasizes:

- Consideration of climate change impacts
- Consideration of equity (Justice40, Disadvantaged Communities)
 - Grant funding prioritization criteria: must include high risk communities and underserved/socially vulnerable communities
- Emphasis on State-owned Assets (critical facilities, buildings, infrastructure, community lifelines)

2023 SHMP: Climate Change

Integration of climate change impacts through 3 lenses:

- Science
 - Incorporates forthcoming NYS Climate Impact Assessments and the 5th National Climate Assessment
 - Climate-influenced future hazard probability
- Policy
 - Identifies and summarizes climate policies at the federal, state, and local levels that can be leveraged to advance hazard mitigation goals
 - Highlights Community Risk and Resiliency Act (2014)
- Best Practices for Planning
 - Presents information on downscaled climate models and hazard projections
 - Identifies strategies and capabilities related to climate change in NYS

2023 SHMP: Equity

Incorporates considerations of specific, unique risk to vulnerable populations across every section of this plan and as a standalone assessment of existing conditions.

Provides summarized methodology and criteria for various federal and state equity initiatives AND outputs of each for every community in New York State:

- Justice40 and Climate Mapping for Resilience and Adaptation (CMRA)
 - Climate and Economic Justice Screen Tool (CEJST)
- FEMA National Risk Index
 - CDC Social Vulnerability Index (SVI)
- FEMA Economically Disadvantaged Rural Communities
- EPA Environmental Justice Screening and Mapping Tool (EJScreen)
- NYS Climate Leadership and Community Protection Act
 - Disadvantaged Communities

Provides opportunity for community to input self-identified strengths and vulnerabilities notable for determining “equity” prioritization: **what are the tools not telling us?**

2023 SHMP: Agency Question

3. Are there other federal, state, or local “equity assessment” tools that should be included for visualization in the SHMP?
4. Has your agency made operational and/or programmatic changes to enhance prioritization of socially vulnerable communities?

2023 SHMP Update: State-owned Assets

 MitigateNY

State Assets Building Footprints

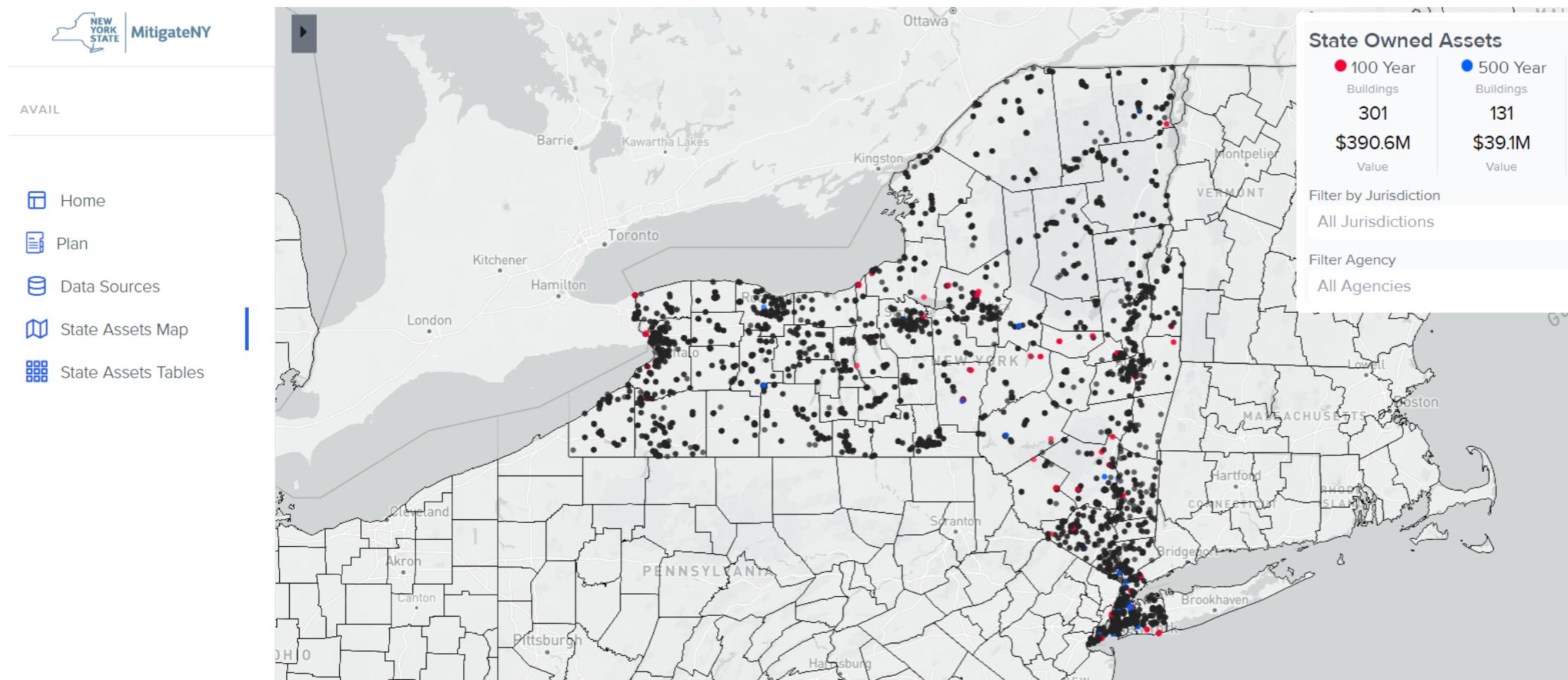
Buildings By Agency Download CSV

AGENCY	NUMBER OF ASSETS	VALUE OF ASSETS	# IN 100 YR	\$ IN 100 YR	# IN 500 YR	\$ IN 500 YR
Adirondack Park Agency	2	\$2.76M				
AGRICULTURE & MARKETS	144	\$20.5M	67	\$0		
Department of Health	28	\$76.1M				
Department of Labor	8	\$5.43M				
Department of State	1	\$2.59M				
Department Of State	1	\$2.59M				
Department of Transportation	779	\$254.9M	31	\$3.71M		
Dept of Corrctns_Cmmty Sprvsn	3051	\$1.4B	51	\$1.13M		
Dept of Environ Conservtions	1011	\$623.9M	34	\$12.5M		
Div Military & Naval Affairs	292	\$308.3M	10	\$22.3M		
Division of Homeland Security	10	\$21.6M				
Division of State Police	37	\$61.6M				
Ofc for People w/ Disabilities	2815	\$483.5M	43	\$3.36M		

AGENCY	NUMBER OF ASSETS	VALUE OF ASSETS	# IN 100 YR	\$ IN 100 YR
Albany County	400	\$4.3B	10	\$273.5M
Allegany County	83	\$8.79M		
Bronx County	234	\$14.8M	4	\$1,490
Broome County	212	\$836.6M		
Cattaraugus County	464	\$23.4M	2	\$88K
Cayuga County	192	\$38.6M	19	\$1.36M
Chautauqua County	219	\$1.4B		
Chemung County	174	\$129.5M		
Chenango County	93	\$9.80M	13	\$2.47M
Clinton County	292	\$367.9M	2	\$0
Columbia County	101	\$4.35M		
Cortland County	112	\$162.9M		
Delaware County	63	\$91.8M	1	\$62K
Dutchess County	316	\$80.7M	10	\$185K
Erie County	680	\$1.7B	5	\$278K
Essex County	225	\$523.4M		
Franklin County	339	\$233.8M		
Fulton County	61	\$2.54M		
Genesee County	99	\$9.73M		
Greene County	198	\$4.21M	1	\$921
Hamilton County	115	\$14.4M		

*State-owned Asset Inventory (buildings)
- by agency, conflated with parcel information
and flood risk*

2023 SHMP Update: State-owned Assets

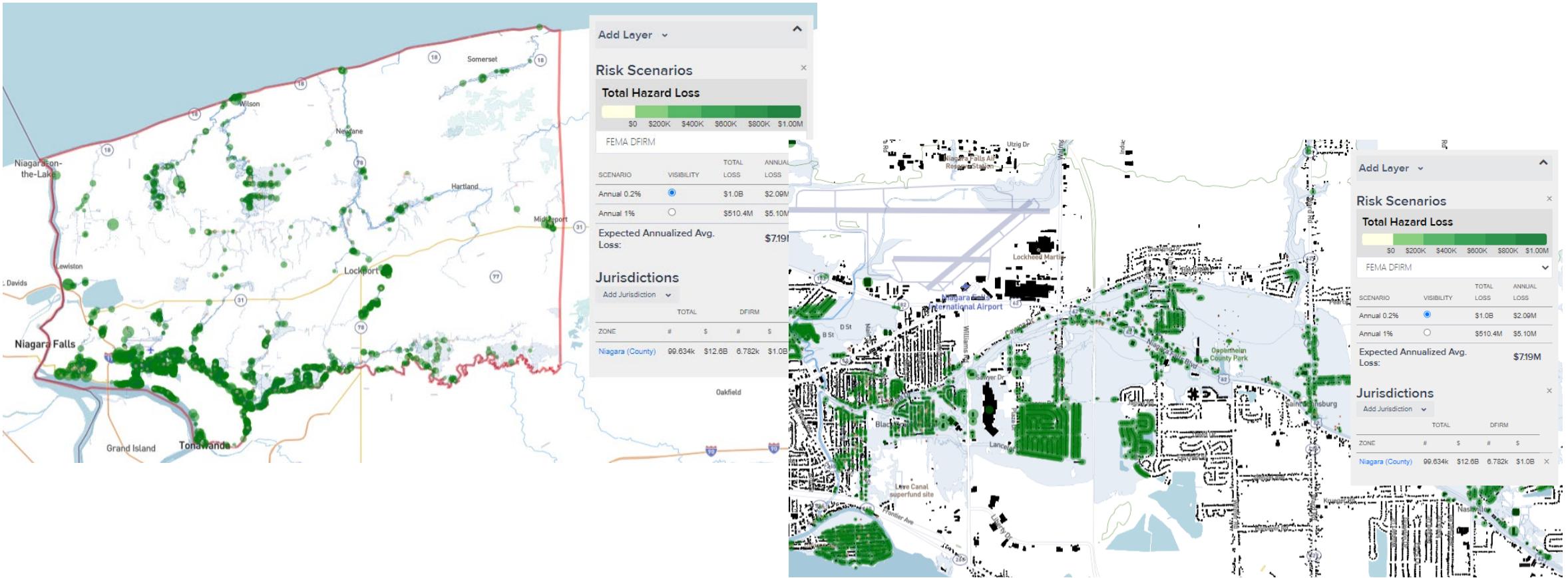


2023 SHMP Update: Agency Question

5. How does your agency track, manage, and evaluate risk to state-owned, -operated, and/or - leased buildings?

2023 SHMP Update: State-wide Asset Inventory

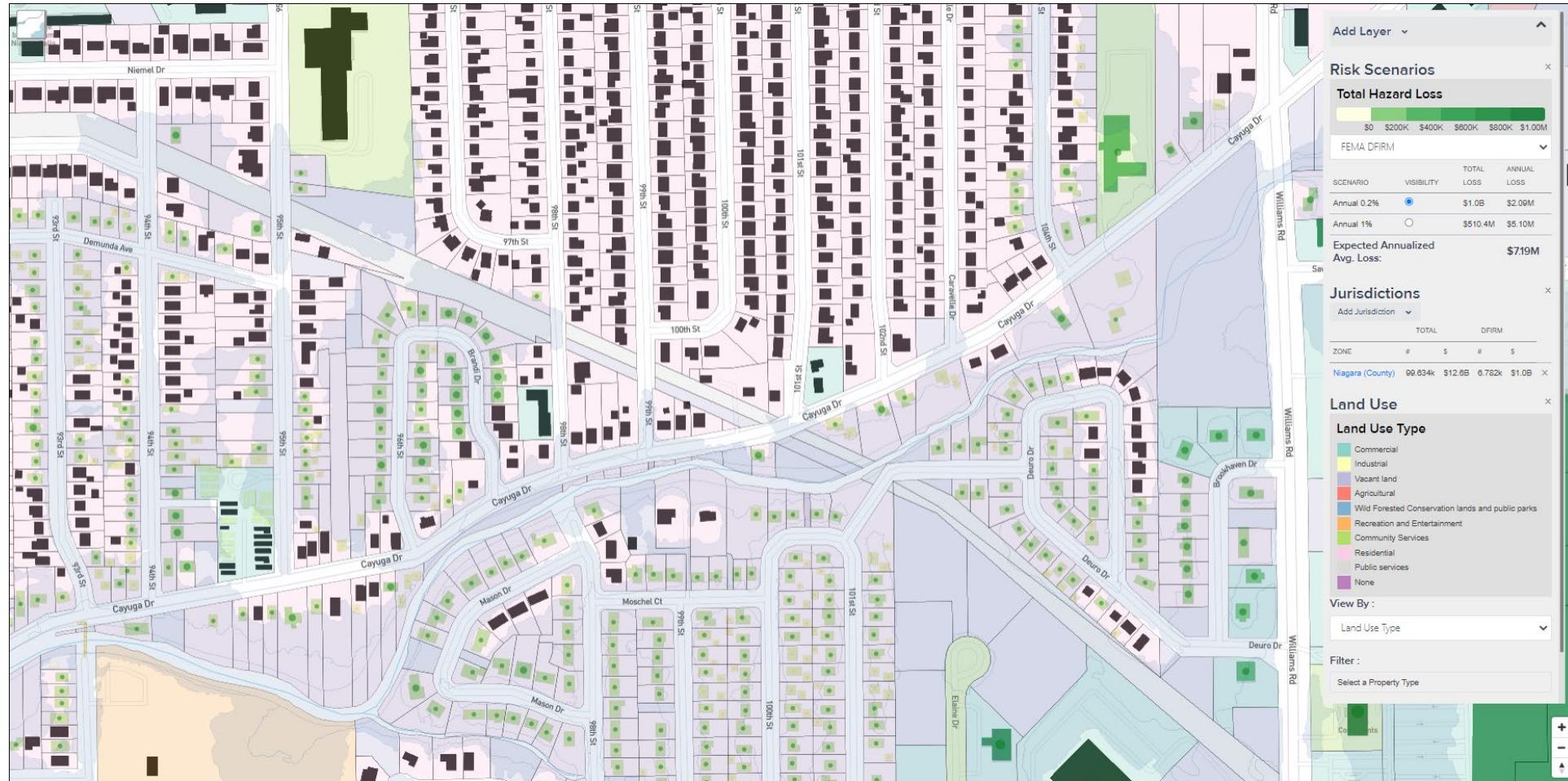
MitigateNY Asset Inventory



2023 SHMP Update: State-wide Asset Inventory



2023 SHMP Update: State-wide Asset Inventory



2023 SHMP Update: State-wide Asset Inventory

Unique custom asset dataset, conflates multiple sources including:

- Microsoft Building Footprints
- NYS OGS Data
- OpenStreetMap Building Geometry Data
- HIFLD Critical Infrastructure
- Real Property Data

We will be convening a technical advisory group to guide and continue scoping the development, maintenance, and future of the State-wide Asset Inventory and potential scenario tool.

2023 SHMP Update: Agency Questions

6. Does your office, department, or agency have a use case for a statewide Asset Inventory?

7. Would your agency like to provide a representative to participate in the Building Asset Inventory and Potential Scenario Tool technical advisory committee?

MitigateNY 2.0 Overview

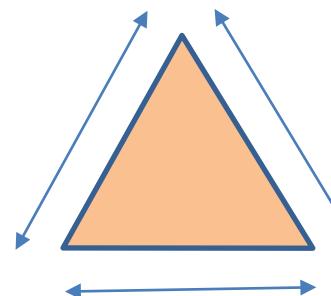


Albany Visualization And Informatics Lab
(AVAIL)
Lewis Mumford Center
Geography and Planning Department
University at Albany, SUNY

Continued technical partnership
with UAlbany - AVAIL

State Hazard Mitigation Plan and Platform (SHMP 2.0)

Local Hazard Mitigation Plans and Platform (LHMP 2.0)



Central Data Repository (CenRep)

MitigateNY 2.0 Overview: SHMP 2.0

State Hazard Mitigation Plan and Platform (SHMP 2.0)

DHSES will deploy a new, more user-friendly Content Management System (CMS) to support the 2023 web-based SHMP update that will include:

- Accessibility - 508 Compliance features – Language access
- PDF export with designed formatting for accessibility and printing
- Sitewide Content Navigation: sitewide search, tagging tool, site map and index
- “Drag and drop” web page creation and organization for real-time website customization
- Batch uploader for import of large quantities of excel data
- Content formatting via Content Management System (CMS)
- Mobile responsiveness
- “Hit counter” to document and assess website traffic

MitigateNY 2.0 Overview: CenRep

Central Data Repository (CenRep)

Web-based data warehouse and database management system:

- Houses **externally sourced** data and **MitigateNY user-generated** data to create, edit and manage custom data visualizations and digital content for planning, analysis, and decision-making purposes
- Stand-alone platform updated routinely according to a Data Management Plan to leverage and ensure access to best publicly available data
- Eliminates the need for extensive and expensive data discovery and/or processing during hazard mitigation planning processes
- Dashboards will provide comparative data analysis for multiple geographies/plans

MitigateNY 2.0 Overview: LHMP 2.0

Local Hazard Mitigation Plans and Platform (LHMP 2.0)

DHSES will deploy a new, more user-friendly post-pilot LHMP platform

- Available to all counties in NYS
- Improve user-experience and include user manual, technical tutorials and planning guidance
- Update user-generated data formats and visualizations
- Integrate the Central Data Repository (CenRep), SHMP Content Management System (CMS) and accessibility enhancements

Timeline

Month	Action
May 2023	First Multi-Agency Engagement Meeting Preliminary Drafts available for Subject Matter Expert review
June 2023	Agency Meetings, Drafting
July 2023	External Stakeholder Engagement Second Multi-Agency Engagement Meeting Drafts available for Multi-Agency review
August 2023	Review, revisions, engagement
September 2023	Regulatory Draft Update Complete
October 2023	Submit to FEMA
November 2023	FEMA Review, comments, revisions Third Multi-Agency Engagement Meeting
December 2023	DPC Adopts Plan – FEMA Approval
January 2024	MitigateNY 2.0 Technical Enhancements Building Scenario Tool technical advisory committee convenes 2023 SHMP – Year 1 Implementation & Update

Next Steps

- Provide information related to any topic described today.
- PowerPoint and Survey #2 will be sent on Monday, May 8th.

ANSWER THE SURVEYS!

- Agency specific follow-ups will be sent in the next 2-3 weeks. If appropriate and necessary, individual agency meetings will be set up for further information gathering.
- Two (2) future multi-agency engagement meetings anticipated prior to December adoption.

Agency Survey Questions

1. Are there changes or additions that should be made to the listed hazards and/or hazard-related topics?
2. Are there other statewide planning processes that we should be leveraging?
3. Are there other federal, state, or local “equity assessment” tools that should be included for visualization in the SHMP?
4. Has your agency made operational and/or programmatic changes to enhance prioritization of socially vulnerable communities?
5. How does your agency track, manage, and evaluate risk to state-owned, -operated, or -leased buildings?
6. Does your office, department, or agency have a use case for a statewide Asset Inventory?
7. Would your agency like to provide a representative to participate in the Building Asset Inventory and Potential Scenario Tool technical advisory committee?

Questions & Contact Info

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**Homeland Security
and Emergency Services**