

# APPENDIX B: Planning Process

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This appendix includes invitations, agendas, sign-in sheets, meeting notes, presentation decks, and additional handouts (where applicable) for all meetings convened during the development of the Saratoga County Multi-Jurisdictional All-Hazard Mitigation Plan. Planning process materials in this appendix are in the following order:

- Outreach Materials
  - Outreach Strategy
  - Newsletters
- Kick-off Meeting Materials
  - Invite
  - Agenda
  - Sign-in Sheets
  - Presentation Deck
  - Meeting Notes
  - Handouts
- Risk Assessment and Capability Review Meeting Materials
  - Invite
  - Agenda
  - Sign-in Sheets
  - Presentation Deck
  - Meeting Notes
  - Handouts
- Mitigation Strategies Meeting Materials
  - Invite
  - Agenda
  - Sign-in Sheets
  - Presentation Deck
  - Meeting Notes
  - Handouts
- Plan Review Webinar Materials
  - Invite
  - Agenda
  - Presentation Deck
  - Meeting Notes
- Plan Worksheets, Templates, and Instructions
  - Hazards Summary Worksheet
  - Hazards Ranking Worksheet
  - Jurisdictional Annex Template
  - NYS DHSES Action Worksheet
- Public Survey Results
- LEPC Meeting Notes

## Multi-Jurisdictional Hazard Mitigation Plan

Saratoga County, New York  
July 18, 2019



# Hazard Mitigation Plan Outreach Strategy Saratoga County



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# Background

The Saratoga County Multi-Jurisdictional Hazard Mitigation Plan (HMP) Update project provides the opportunity to develop a plan that builds on the existing mitigation capabilities of the county and municipalities to enhance their programs and projects to be more resilient to disasters in the future. This project will result in a plan that meets all New York State Division of Homeland Security and Emergency Services (NYS DHSES) and Federal Emergency Management Agency (FEMA) requirements. In addition, this planning project will continue and build on the county's existing mitigation programs to ensure that Saratoga County and its municipalities have a comprehensive approach to reducing the vulnerability of their people, property, and infrastructure to natural disasters. In line with federal regulations for plan update process, the county and jurisdictions will engage in public engagement and outreach to inform the plan.

Saratoga County may choose a number of paths to meet the intent of the NYS DHSES and FEMA regulations related to the mitigation planning processes, however successful outreach has been defined as having the following characteristics<sup>1</sup> :

- Informs and educates about hazards and risks
- Invites interested parties to contribute their views and ideas for mitigation
- Identifies conflicts and incorporates different perspectives and priorities early in the process
- Provides data and information that improves overall quality and accuracy of the plan
- Ensures transparency and builds trust
- Maximizes opportunities for implementation through greater consensus and acceptance

The following pages identify a communication strategy with specific goals and tactics identified that meet both the intent of the regulation, and the vision for successful outreach.



# Strategy

The Outreach Strategy will be achieved through four main goals and six tactics during the planning process for the HMP Update.

Figure 1: Outreach Strategy Goals and Tactics

## Organization Identification

This document and ongoing work with Saratoga County and the Planning Committee will identify organizations / stakeholders that the Team will engage to participate in the HMP Update process.

- **Tactic 1:** Continue community outreach to previously identified organizations
- **Tactic 2:** Leverage existing “cohorts” and stakeholder/ public engagement activities

## Direct Engagement

Stakeholder and public meetings to be conducted between July 2018 and January 2019.

- **Tactic 2:** Leverage existing “cohorts” and stakeholder/ public engagement activities
- **Tactic 3:** Develop distinctive and cohesive 2019 HMP Update “brand”
- **Tactic 4:** Ensure meeting materials and plan elements are available for stakeholder and public review

## Outreach Documentation

All planning outreach efforts will be documented and captured within the HMP, along with related meeting materials and notes. Additionally, an ongoing outreach strategy will be outlined in the Plan Maintenance portion of the HMP.

- **Tactic 6:** Document outreach activities

## Indirect Engagement

To allow for more comprehensive awareness and involvement in the planning process, indirect engagement will be achieved leveraging technological solutions.

- **Tactic 4:** Ensure meeting materials and plan elements are available for stakeholder and public review
- **Tactic 5:** Generate awareness and engagement through social media, email distribution, and newsletters



# Outreach Tactics

## Tactic 1: Continue community outreach to previously identified organizations

- ✓ Hagerty will coordinate with the Planning Committee to identify additional stakeholders to involve in the plan update process. The identified members of the 2011 Plan Update team are

listed in Attachment A. The following identified organizations represent the types of organizations FEMA encourages engagement with during the planning process<sup>1</sup>:

- Emergency Management
- Economic Development
- Land Use and Development
- Housing
- Health and Social Services
- Infrastructure
- Natural and Cultural Resources

### Partnership

Stakeholders build capability for hazard mitigation related projects by leveraging each other's ideas, talents, funding streams, and time to accomplish more together<sup>1</sup>.

## Tactic 2: Leverage existing “cohorts” and stakeholder / public engagement activities

- ✓ Stakeholder groups meetings and community meetings may meet on regular intervals, allowing for an engagement opportunity related to the HMP Update. Leveraging pre-existing events / meetings allows for a coordinated planning approach.
  - Actions:
    - **Planning Committee:** Identify potential opportunities for public engagement and coordination
- ✓ A stakeholder meeting calendar will be developed to codify the in-person outreach strategy. In-person meetings will occur according to the calendar.
  - Actions:
    - **Hagerty:** Draft calendar
    - **Planning Committee:** Approve and advertise calendar

## Tactic 3: Develop a cohesive and distinctive 2019 HMP “brand”

- ✓ Develop a style guide and templates distinctive to the HMP update planning process for all materials, including: PowerPoint decks, visual aids (handouts and posters), meeting materials (agendas, sign-in sheets, and meeting notes), maps, and the HMP.
  - Actions:
    - **Hagerty:** Develop templates

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<sup>1</sup> State Mitigation Planning Key Topics Bulletins: Planning Process, July 2016, [https://www.fema.gov/media-library-data/1468867403587-36535211c7c892fb7b1956e961d05a49/PlanningProcess\\_KeyTopics\\_Bulletin\\_508.pdf](https://www.fema.gov/media-library-data/1468867403587-36535211c7c892fb7b1956e961d05a49/PlanningProcess_KeyTopics_Bulletin_508.pdf)

## Tactic 4: Ensure meeting materials and plan elements are available for stakeholder and public review

- ✓ FEMA requires all mitigation plans to be a publicly available resource. Because of this and the need for a comprehensive approach to the 2019 HMP Update outreach process, we suggest updating the Saratoga County Hazard Mitigation web page. Implementation can be accomplished in various ways, Hagerty recommends a straightforward approach (see [Rhode Island](#) example).

Website Attribute	
Plan Update Description	✓
Plan Update Contact Information	✓
Link to Plan and Draft Plan	✓

- Actions:
  - **Hagerty:** Draft web content copy
  - **Hagerty:** Provide draft documentation for upload
  - **Planning Committee:** Upload copy and documentation
- ✓ Conduct in-person meetings to gather information and validate findings for each of the elements being updated during the planning process, including: hazard analysis and risk assessment, mitigation strategy development, and draft plan review.
  - Actions:
    - **Hagerty:** Develop meeting materials
    - **Hagerty:** Attend and facilitate three in-person meetings

## Tactic 5: Generate awareness and engagement through social media, email distribution and newsletters

- ✓ Draft and deliver pre-scripted social media messages regarding the planning process at appropriate intervals during the project.
  - Actions:
    - **Hagerty:** Draft messaging
    - **Planning Committee:** Deliver messaging
- ✓ Draft and deliver pre-scripted email messages to stakeholders and identified stakeholder groups.
  - Actions:
    - **Hagerty:** Draft messaging
    - **Planning Committee:** Deliver messaging

- ✓ Draft and deliver monthly HMP newsletters that provide an update on the planning process and upcoming planning expectations. The newsletter will be distributed via email to stakeholders who opt into receiving the newsletter.

- Actions:

- **Hagerty:** Draft and deliver newsletter
- **Planning Committee:** Approve draft content

***Example Newsletter excerpt***



## **Tactic 6: Document outreach activities**

- ✓ Capture all meeting materials and record planning activities in the HMP document.

- Actions:

- **Hagerty:** Capture outreach activities within the HMP according to federal guidance and requirements

- ✓ Develop ongoing outreach strategy for the Plan Maintenance portion of the HMP.

- Actions:

- **Hagerty:** Capture the strategy and incorporate it into Plan Maintenance
- **Planning Committee:** Develop ongoing outreach strategy

# Appendix A: Identified Partners

*Table 1: 2011 HMP Identified Partners*

Organization
American Red Cross Adirondack Saratoga Center
Albany County
Ballston Spa Central School District
Burnt Hills/Ballston Lake Central School District
Caroline Street Association
Central Emergency Corps
Corinth Central School District
Delaware & Hudson Railway
Downtown Business Association
Edinburg Common School
Empire State College
Fulton County
Galway Central School District
Glen Falls Hospital
Hamilton County
Hadley Business Associations
Hadley-Luzerne Central School District
Land Trust Accreditation Commission
Malta Business & Professional Association
Mechanicville Chamber of Commerce
Mechanicville City School
Montgomery County
NYSEG
Rensselaer County

Organization
Saratoga Builders Association
Saratoga County Economic Opportunity Council, Inc.
Saratoga Economic Development Corp
Saratoga Hospital
Saratoga Springs City Schools
Saratoga Water Services, Inc
Schenectady County
Schuylerville Area Chamber of Commerce
Schuylerville Central School District
Shenendehowa Central School District
Skidmore College
South Glens Falls Central School District
South Saratoga County Chamber of Commerce
South Glen Falls -Town of Moreau Chamber of Commerce
Stillwater Central School District
The Southern County Saratoga County Chamber of Commerce
United Way of the Greater Capital Region
Warren County
Washington County
Waterford-Halfmoon Schools

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**Monthly Newsletter**

**Issue 1: September 2018**

***Message from Carl Zeilman, Director of Saratoga County Office of  
Emergency Services***



Welcome to the first issue of the ***Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Monthly Newsletter***, an e-publication that **curates news about the development of the plan, innovations in mitigation, and opportunities to get involved!**

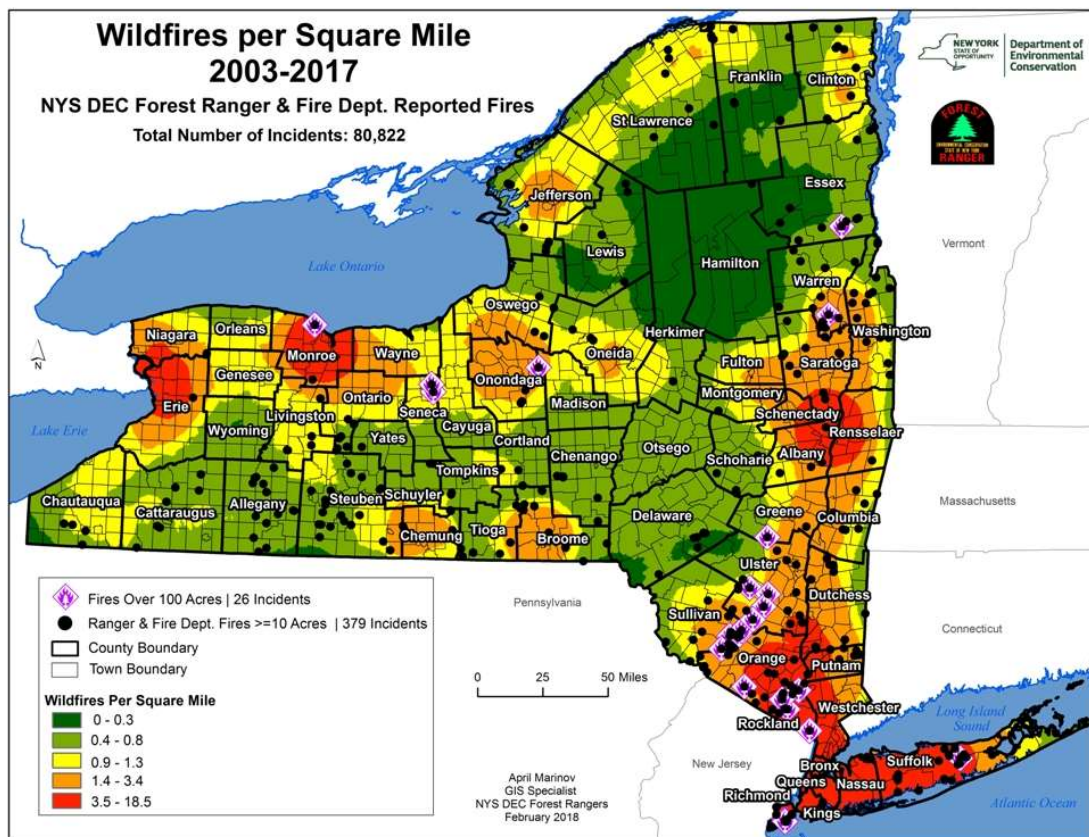
You will be receiving monthly newsletters for the duration of this hazard mitigation planning process. Newsletters will contain information on the project, information on hazards present in Saratoga County, and national and local news related to hazard mitigation efforts. **Your feedback and perspective is crucial** to a robust and thorough understanding of the risks faced by the County, and I appreciate your participation!



## The Latest: Project Kickoff a Success

The Saratoga County Office of Emergency Services (OES) kicked off the **2019 Multi-Jurisdictional Hazard Mitigation Plan (HMP) Update** process on July 19, 2018 with stakeholders from emergency management, economic development, land use and development, health and social services, infrastructure, and natural and cultural resources organizations.

The planning team is currently in the process of developing the Risk Assessment for the Hazard Mitigation Plan Update. The Risk Assessment includes detailed profiles of the natural hazards that have a probability of impacting communities in Saratoga County. **The Risk Assessment provides a detailed description of each hazard, including the location, extent, previous occurrences, and probability of future occurrences before assessing the vulnerability of the hazard.** The previous occurrences portion of the profile identifies the areas that the hazard has impacted in the past and leverages maps like the one below, which shows wildfires per square mile in New York State:



## Hazard in Focus: Wildfire

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smoking, campfires, equipment use, and arson. **Fueled by dry weather, wind, underbrush, and timber, wildfires are capable of quickly destroying large swaths of land** and present a considerable risk to vegetation and wildlife habitats.

Short-term loss caused by a wildfire can include the destruction of timber, wildlife habitat, scenic vistas, and watersheds. Long-term effects include smaller timber harvests, reduced access to affected recreational areas, and destruction of cultural and economic resources and community infrastructure.

The potential for significant damage to life and property exists in areas designated as **"wildland-urban interface areas,"** where development is adjacent to densely vegetated areas.

This year's wildfire season has devastated parts of northern California in recent weeks, with the Carr Fire in Redding and Shasta, California exploding to 181,496 acres in mid-August. To the south near Potter Valley, California, the Mendocino Complex Fire has grown to 258,527 acres - the largest wildfire in state history.

California may be across the country but **smoke from these wildfires reached New York City in mid-August.** Wildfires have the potential to devastate entire communities and can have far-reaching impacts to people, animals, structures and property, the economy, ecosystems, and the environment. Saratoga County has seen the effects of large wildfires in its own backyard, like the 2016 wildfire at Sam's Point Preserve in Ulster County, just south of Saratoga (pictured below).

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Sam's Point Nature Preserve, Ulster County, New York



An air tanker drops fire retardant on a brush fire, August 2018





A firefighter battling flames in Lakeport, California

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## Mitigation in the News: Improved Building Codes Fight Wildfires!

A recent study by the National Institute of Building Sciences (NIBS), a non-profit group dedicated to the advancement of best practices in building construction, comprehensively explored the costs and benefits of federally funded mitigation projects.

**In parallel with this study**, NIBS researchers examined specific mitigation strategies to reduce the impact of wildfires in wildland-urban interface areas--a sector which is rapidly growing in Alabama. The researchers found that **structures built to exceed the provisions of the 2015 International Wildland-Urban Interface Code (IWUIC) saved up to \$4 in future wildfire losses for every \$1 invested in wildfire mitigation!**

The study also examined federally-funded mitigation grants that supported wildfire mitigation strategies outside of new construction. Federal grant dollars spent on replacing roofs, managing vegetation to reduce fuels, and replacing wooden water tanks were found to save \$3 for every \$1 spent on wildfire mitigation.

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# Natural Hazard Mitigation Saves



## Benefits of Mitigating Wildland-Urban Interface Fire Damage

For wildland-urban interface fire mitigation, measures that exceed provisions of the 2015 model building code provide

**\$4** benefit  
for each  
**\$1** invested



### Wildland-Urban Interface Fire

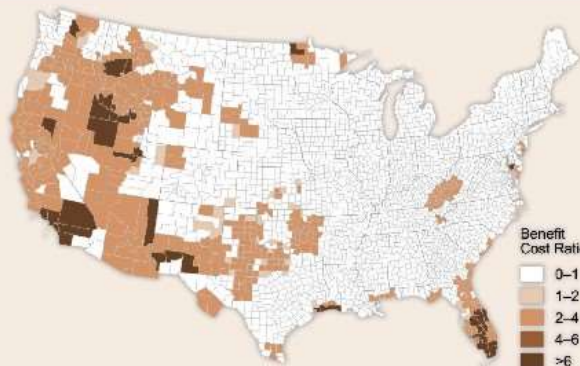
**\$4:1**

Beyond Code Requirements

**\$3:1**

Federally-Funded

The International WUI Code is intended as a supplement for fire and building codes. Its objective is establishing minimum regulations for safeguarding life and property caused by wildland fire exposures. The study includes using fire-resistant roofing, trimming brush around houses, and ensuring fire department access.



## Great Strides in Mitigation: Innovative Strategies in the U.S.

As the Planning Team begins the Risk Assessment process, it is worth considering creative and effective mitigation projects implemented in other states and communities. This month, we are looking at **innovation in wildfire mitigation** from two perspectives: that of a private insurance company brainstorming ways to reduce wildfire losses for policyholders, and that of a tech startup out of the University of Manchester in the UK.

Here in the U.S., Mutual of Enumclaw's bet on promoting a **culture of innovation** is paying off to the tune of millions in savings due to reduced fire losses, fewer fire-related claims, and less customer attrition. Mutual of Enumclaw is an insurance

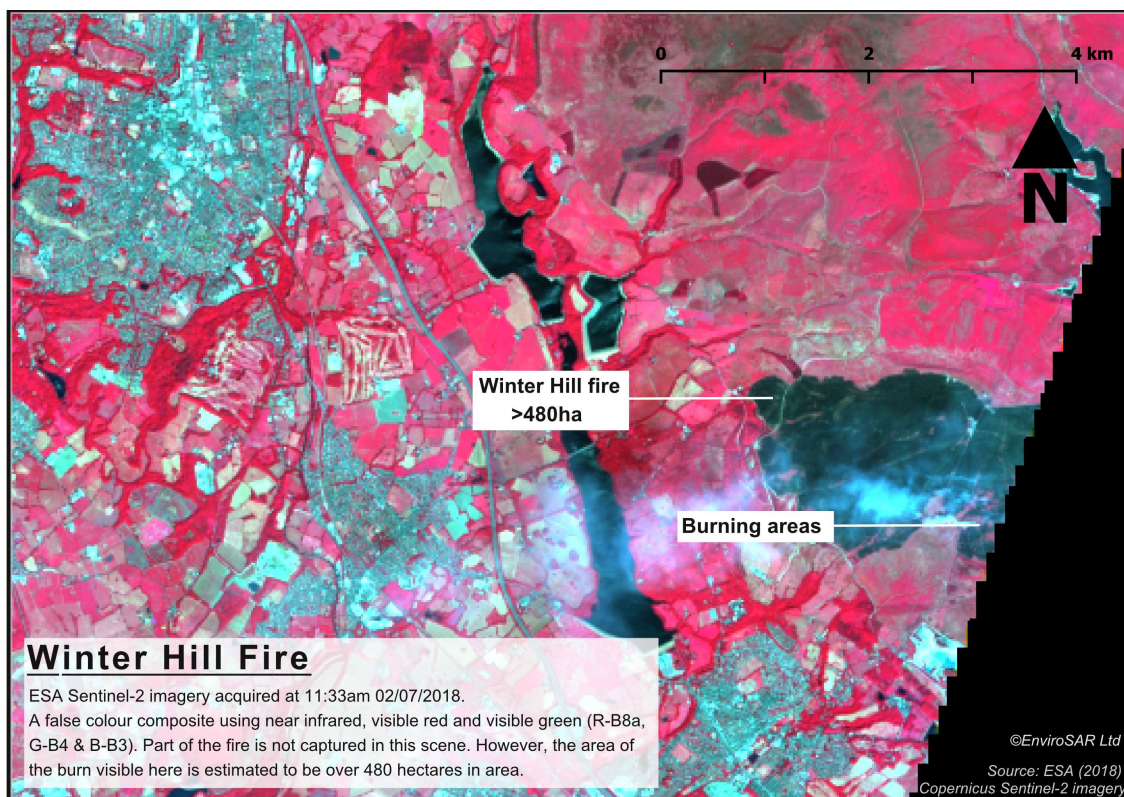


wildfire monitoring, and, if threatened, on-site structure-saving services ranging from property hazard removal to sprinklers and fire-retardants.

WDS provides a **real-time wildfire monitoring dashboard** that allows Enumclaw to contact customers proactively. The program is free of charge to policyholders, and Enumclaw has saved millions in wildfire claims since it was implemented. The program approaches the problem of wildfires by **mitigating fires before they grow out of control** via the WDS platform and saving money on wildfire losses in the process.

Looking across the pond, a tech startup called EnviroSAR analyzes satellite radar data to mitigate wildfire risks. The program was created by Dr. Gail Millin-Chalabi to **analyze radar data in order to support incident response, planning, and land restoration activities**. As Dr. Millin-Chalabi says, “Information has to be shared and managed well and marry together better, rather than piece-meal which it seems to be at the moment. EnviroSAR could really help with that.”

EnviroSAR and the wildfire mitigation program implemented by Enumclaw are similar in that both programs **leverage technology and real-time wildfire monitoring** to gain comprehensive situational awareness, expedite information-sharing, and reduce damages, both physically and economically.



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## Looking Ahead: Upcoming Events

October

11

The HMP Planning Team will host a **Risk Assessment Meeting** on October 11, 2018. At this meeting, we will **review the results of the Risk Assessment** with the planning team and stakeholders. We will also **review the results of the Vulnerability Assessment**, including the exposure of critical facilities and estimates of potential losses from future hazards. **Please keep an eye on your inbox** for the invitation to this meeting, which will contain updated information on the time and location, as well as directions for registering to attend.

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**Issue 2: October 2018**

***Message from Carl Zeilman, Director of Saratoga County Office of  
Emergency Services***



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You will be receiving monthly newsletters for the duration of this hazard mitigation planning process. Newsletters will contain information on the project, information on hazards present in Saratoga County, and national and local news related to hazard mitigation efforts. **Your feedback and perspective is crucial** to a robust and thorough understanding of the risks faced by the County, and I appreciate your participation!

## The Latest: Outcomes of the Risk Assessment Meeting

The Saratoga County Office of Emergency Services (OES) held a **Risk Assessment and Capability Review meeting** with the Planning Committee on October 11, 2018. The Risk Assessment provides a detailed description of natural hazards in the County and informs the *2019 Multi-Jurisdictional Hazard Mitigation Plan (HMP) Update* process.

During the meeting, the **methodology for the Risk Assessment was described**, and information related to each of the hazards identified in Saratoga County was presented. A **hazard ranking exercise** was introduced to the Planning Committee and each participating jurisdiction was asked to rank the natural hazards based on their probability of occurrence and impacts on people, property, and the economy. **The scoring of each of these factors was calculated based on a weighted scale to produce a final hazard ranking.**

The jurisdictional annexes from the previous plan were then reviewed with the Planning Committee. Each annex contains a summary of the **legal, financial, and technical capabilities** that each jurisdiction has to complete mitigation projects. Each jurisdiction was given a jurisdictional annex form to use to update their local capability information in their respective annex to the updated *2019 Multi-Jurisdictional Hazard Mitigation Plan*.

**Planning Committee and other project team members have been asked to review the Risk Assessment, complete a Hazard Ranking (shown below) and update their local capabilities using the Jurisdictional Annex form by October 25, 2018. This date has been extended until Tuesday, October 30, 2018.** All completed materials should be sent electronically to Sydney Delmar, with Hagerty Consulting, at [sydney.delmar@hagertyconsulting.com](mailto:sydney.delmar@hagertyconsulting.com).

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Hazard Type	Probability of Occurrence (1 – 4)	Impact				Ranking	
		Population (1 – 3)	Property (1 – 3)	Economy (1 – 3)	Impact Score (Population x 3 + Property x 2 + Economy x 1)	Risk Ranking Score (Probability x Impact)	Hazard Ranking
Drought							
Earthquake							
Extreme Temperatures							
Flooding (riverine, flash, ice jam, beaver dam, and elevated groundwater flooding)							
Ground Failure (landslides)							
Invasive Species							
Severe Storm (windstorms, thunderstorms, hail, tornadoes, and hurricanes/tropical storms)							
Severe Winter Storm (heavy snow, blizzards, ice storms, Nor'easters)							
Wildfire							

## Hazard in Focus: Flooding

Floods are one of the most common natural hazards in the United States. They can develop slowly over a period of days or develop quickly, with disastrous effects that can be local (impacting a neighborhood or community) or regional (affecting entire river basins, coastlines and multiple counties or states). **Floods are the most frequent and costly natural hazard in New York State** in terms of human hardship and economic loss.

FEMA defines flooding as “a general and temporary condition of partial or complete inundation of two or more acres of normally dry land area or of two or more properties from the overflow of inland or tidal waters or the rapid accumulation of runoff of surface waters from any source.” **In New York State and Saratoga County, flooding could occur due to any of the following factors:**

- Riverine flooding, including overflow from river channels, flash floods, alluvial fan floods, ice-jam floods and dam-break floods;
- Local drainage or high groundwater levels;
- Fluctuating lake levels;
- Coastal flooding from storm surge or coastal storms;
- Coastal erosion;
- Unusual and rapid accumulation or runoff of surface waters from any source;
- Mudflows (or mudslides);
- Collapse or subsidence of land along the shore of a lake or similar body of water caused by erosion, waves or currents of water exceeding anticipated cyclical levels;

Flood problems in New York are most acute in the **Delaware, Susquehanna, Erie-Niagara, Genessee, Chemung, Hudson, Mohawk, Lake Champlain, and Alleghany River Basins**. These major waterways, along with their tributary streams in the basins, are subject to direct flooding. **The streams in Saratoga County are tributaries to the Hudson River and Mohawk River Basins of the Hudson River Watershed.** Much of the tributaries that fall within Saratoga County experience frequent flooding. Flood-prone streams include:

- The Hudson, Mohawk and Sacandaga Rivers;
- Kayaderoseras, Mount Anthony, Sturdevant, Slade, Rowland Hollow, Ballston, Fish, Gordon, and Schuyler Creeks;
- Plum, Geyser and Putnam Brooks;
- Anthony, Dwaas, Alpaus, Snook and Morning Kills; and
- Along the shorelines of Saratoga, Ballston, Round Lakes and Sacandaga Reservoir.

Saratoga County has a long history of damaging flood events. **The images below show flooding in the County in 1936, 2007, and 2011:**



Waterford Flood, 1936



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**Flooding in Schenectady and Saratoga Counties because of an ice-jam on the Mohawk River, 2007**



**Homes along the Hudson River in Lake Luzerne, a town in southern Warren County and northern Saratoga County**

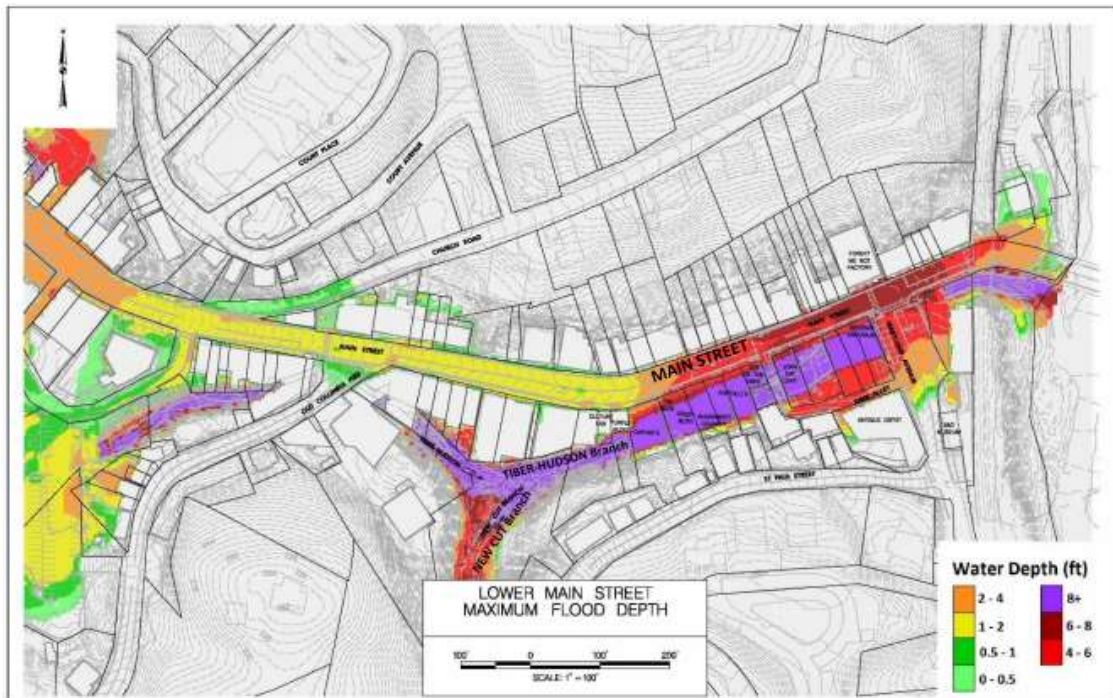
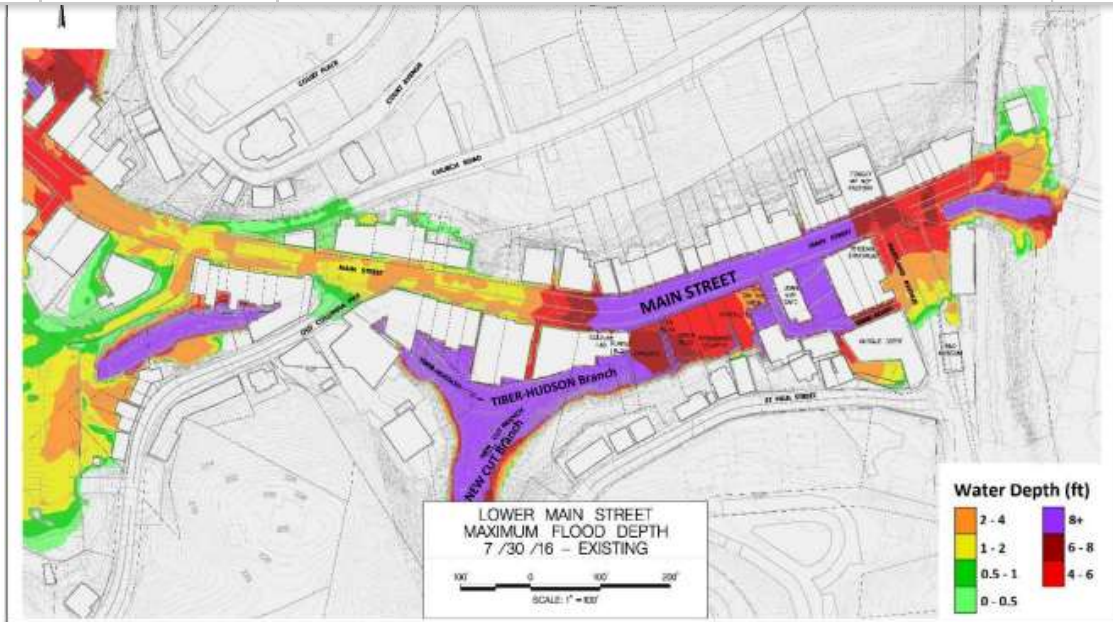
## Mitigation Measures

Ellicott City is a community in Howard County, Maryland, on the outskirts of Baltimore. **The city's Historic District lies in the valleys of the Tiber and Patapsco Rivers, and includes the Ellicott City Station, the oldest surviving train station in the United States.** The town is prone to flooding, and these floods have had a major impact on the town's history, often destroying businesses and causing casualties. Major devastating floods occurred in 1817, 1837, 1868, 1901, 1917, 1923, 1938, 1942, 1952, 1956, 1972 (Hurricane Agnes), 1975 (Hurricane Eloise), 1989, 2011, 2016, and, most recently, in May 2018.

**The town presents a case study of the difficulties in enacting flood mitigation measures while also preserving community culture and history.** An ambitious five-year plan to raze 13 buildings to mitigate flooding in the historic downtown was partially approved in October 2018. However, the majority of Howard County residents **support alternative ways to mitigate flooding that do not include removing buildings from the historic town center**, according to a recent poll (Howard County Times, 2018). The poll also found that 43% of respondents do not believe the county should spend \$50 million (the estimated cost of the project) on mitigation measures that, once complete, would most likely **still leave 4 to 6 feet of water in the downtown area during a catastrophic flood.** The five-year plan was modeled on the deadly 2016 flood in Ellicott City that pushed 6 to 8 feet of water onto lower Main Street.

The figure below is based on flood modeling of Ellicott City during that 2016 flooding. The figure that follows is an **Expanded Stream Channel** model of the same area, developed as part of the five-year flood plan mentioned above. The second figure shows the most **significant reduction in the floodwaters** compared to existing conditions, and demonstrates the most improvements in water depth, water velocity and the risk to life safety. With the expanded stream channel and the removal of buildings along lower Main Street, **the water velocity is approximately 4.5 feet per second – a significant reduction** from the conditions that existed during the July 30, 2016 flood with water velocity around 11.1 feet per second.





The flood mitigation measures Ellicott City is considering demonstrate how complex flood planning can become as well as the difficulties in **balancing practical (but often costly) mitigation measures with the sociocultural and emotional needs of a community**. The responsibility to preserve history presents another challenge in addressing flood concerns and potential mitigation measures.

## Great Strides in Mitigation: Innovative Strategies

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As the Planning Team continues developing the Risk Assessment and Mitigation Strategy, it is worth considering **creative and effective mitigation projects implemented in other communities and states**. This month, we are looking at innovation in flood mitigation from the private sector - a critical partner in mitigation and water management practices.

In many respects, innovation in flood mitigation is as much about **new and advanced technologies** as it is about **leveraging relationships across sectors** and engaging community partners in a variety of efforts. Accelerate H2O, based in San Antonio, is a statewide water technology initiative sparked by civic leaders' **interest in positioning Texas as a global water innovation hub**. The nonprofit calls itself "**the connector of dots**" and seeks to remove barriers and limitations to solving "Grand Challenges" for residential, commercial, agriculture and public water utility end-users. In addition to developing "road maps" for future water use and management, Accelerate H2O also **hosts Industry/Academia/Government round tables and investor forums, demonstrates new technologies, and provides water technology assessments**.

Another firm based in Boston is an "Internet of Things" technology company focused on water technologies that aim to **"stop floods before they start."** The company, Opti, provides the only cloud-based solution that directly monitors and controls stormwater infrastructure in real-time, providing a more effective and efficient solution to manage water resource issues by **automatically controlling the timing and rate of stormwater flow** through existing and new facilities.

To perform comprehensive flood mitigation and best practices in flood management, **the government and public sector must coordinate with private sector companies like these**. As new technologies in water management and flood control are being developed, agencies on the public sector side continue to perform projects related to flood mitigation in New York State.

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## Looking Ahead: Upcoming Events



The Saratoga County OES will host a **Mitigation Strategy Meeting** on November 15, 2018. At this meeting, we will identify **hot spots throughout the county that require mitigation measures** and walk through an exercise to identify potential mitigation projects. This meeting is

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Please keep an eye on your inbox for the invitation to this meeting, which will contain updated information on meeting time, location, and directions for registering.

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**Issue 3: December 2018**

***Message from Carl Zeilman, Director of Saratoga County Office of  
Emergency Services***



Welcome to the third issue of the *Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Monthly Newsletter*, an e-publication that **curates news about the development of the plan, innovations in mitigation, and opportunities to get involved!**

You will be receiving monthly newsletters for the duration of this hazard mitigation planning process. Newsletters will contain information on the project, the hazards present in Saratoga County, and national and local news related to hazard mitigation efforts. **Your feedback and perspective are crucial** to a robust and thorough understanding of the risks faced by the County, and I appreciate your participation!



## The Latest: Outcomes of the Mitigation Strategies Meeting

The Saratoga County Office of Emergency Services (OES) held a meeting with the Planning Committee on November 15, 2018 to review the Mitigation Strategy and discuss the projects and actions that the County and its jurisdictions want to take to mitigate the impacts of different hazards on their communities. At the meeting, the Planning Committee reviewed the mitigation actions from the previous plan and thought through what new risks need to be addressed through new projects.

Following the meeting, jurisdictions were tasked with validating the mitigation actions from the previous plan and developing new actions, where applicable. The County and its jurisdictions are also responsible for completing two New York State project action worksheets. The project worksheets help communities identify mitigation priorities, as well as develop a plan for implementation, should funding become available for projects. If your jurisdiction still needs to complete one or more action worksheets, click on the picture below, download the form, and return all completed worksheets to [sydney.delmar@hagertyconsulting.com](mailto:sydney.delmar@hagertyconsulting.com). While the deadline to submit all worksheets was December 11, 2018, we will continue to accept worksheets in the coming weeks.

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## Saratoga County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: 

## NYS DHSES Action Worksheet

Project Name: Project Number: 

## Risk / Vulnerability

Hazard of Concern: Description of the Problem: 

## Action or Project Intended for Implementation

Description of the Solution: 

Is this project related to a Critical Facility?

Yes ☐No ☐

(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)

Level of Protection: Useful Life: Estimated Cost: Estimated Benefits  
(losses avoided): 

## Plan for Implementation

Prioritization: Estimated Time  
Required for Project  
Implementation: Responsible  
Organization: Desired Timeframe for  
Implementation: Potential Funding Sources: Local Planning Mechanisms  
to be Used in Implementation,  
if any: 

## Three Alternatives Considered (including No Action)

Alternatives: 

Action

Estimated Cost

Evaluation

No Action

\$0

## Progress Report (for plan maintenance)

Date of Status  
Report: Report of Progress: Update Evaluation of  
the Problem and/or  
Solution: 

## Draft Plan Review

The draft Saratoga County Multi-Jurisdictional Hazard Mitigation Plan is in development and will be made available to stakeholders and the public on January 7, 2018. This plan has been developed over the past four months by incorporating recent research and data, as well as valuable stakeholder feedback on hazard risks, jurisdictional capabilities, and mitigation actions. Stakeholders will be emailed a copy of the draft plan, but the plan will also be available on the [Saratoga County OES website](#). Feedback on the plan should be returned by January 24, 2019.

## Hazard in Focus: Severe Winter Weather

As we move into the winter season, it's important to remember the hazards associated with winter storms. Saratoga County is no stranger to severe winter weather, situated geographically in an area of the Northeast where most winter storms pass through before moving east into the Atlantic Ocean. Severe winter weather can include heavy snow, blizzards, ice storms, extreme cold temperatures, extra-tropical cyclones, Nor'easters, sleet, and freezing rain.

Severe winter storms are a frequent hazard in Saratoga County, **with approximately 175 reported severe winter storm events between 1996 and September 2018** (NOAA, 2018). Saratoga County has had six disaster declarations related to snow, blizzards, and severe winter storms. **Winter Storm Stella is the most recent and severe storm to impact Saratoga County.** Some parts of the county received more than 20 inches of snow. The County received FEMA Public Assistance money to cover the costs associated with emergency repairs and snow removal from this storm.



Winter Storm Stella in the City of Saratoga Springs (Tracey, 2017)

As Saratoga County heads into another winter, it is important to remember that all jurisdictions are at risk of severe weather impacts and should take necessary steps to be

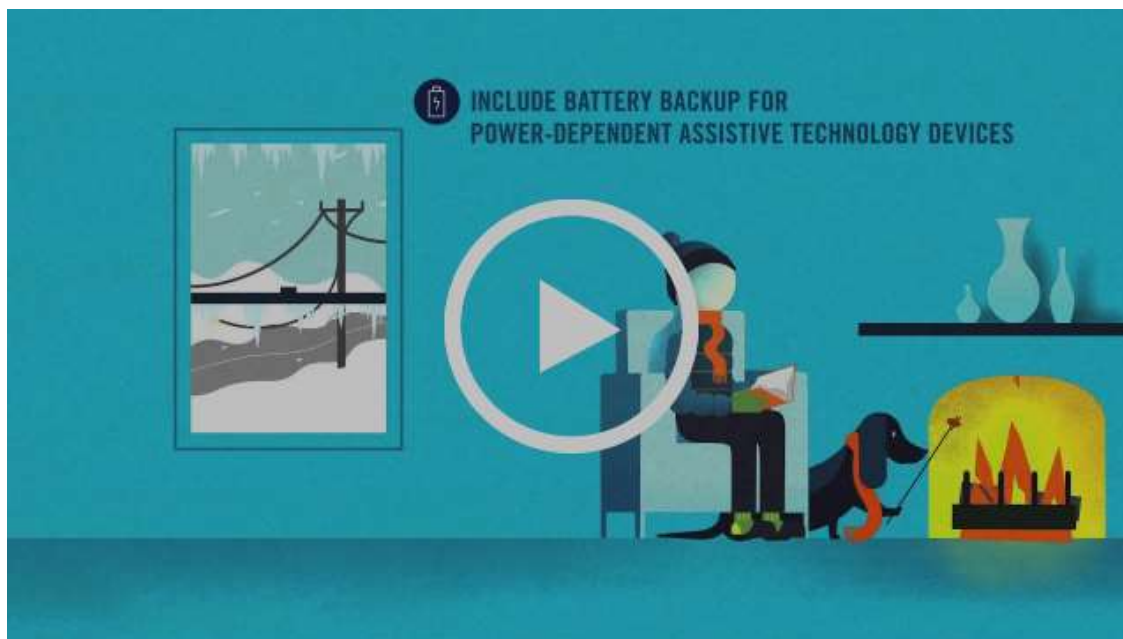


## Simple Solutions: Individual Preparedness Pays Off!

Mitigation does not only have to be a top-down effort by local or state emergency management agencies. **Individual preparedness measures can also reduce winter storm related injuries and deaths.** FEMA outlines several different effective measures to take to reduce the human impact of winter storms, including:

- Staying off roads
- Staying indoors
- Dressing warmly
- Preparing for power outages
- Knowing the signs of hypothermia and frostbite
- Checking on neighbors

Emergency managers can assist with personal preparedness by ensuring that the public knows and understands the risk for winter storms both during and after the event. Emergency managers can also implement **mitigation projects** that will assist in protecting critical infrastructure, including power lines and roadways.



When The Sky Turns Gray - Animated Video for Winter Storm (FEMA, 2014).

## Looking Ahead: Upcoming Events

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January

10

will review the draft Saratoga County Multi-Jurisdictional Hazard Mitigation Plan and collect feedback from the Planning Committee to integrate into the plan prior to submitting to FEMA.

**Please keep an eye on your inbox** for the invitation to this virtual meeting that will contain updated information on the **scheduled webinar time and directions for registering and joining the webinar.**

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25 W. High Street

Ballston Spa, NY, 12020

518.885.2232

[emergencyservices@saratogacountyny.gov](mailto:emergencyservices@saratogacountyny.gov)

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Sydney McKenna &lt;sydney.mckenna@hagertyconsulting.com&gt;

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**[Test] Saratoga County Hazard Mitigation Plan Monthly Newsletter: January 2019 Issue**

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Saratoga County Office of Emergency Services &lt;czeilman@saratogacountyny.gov&gt;

Thu, Jan 17, 2019 at 2:14 PM

Reply-To: us17-b45a6c9a95-ebf2cf6b34@inbound.mailchimp.com

To: sydney.delmar@hagertyconsulting.com

[View this email in your browser](#)

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**Saratoga County**  
***Multi-Jurisdictional Hazard Mitigation Plan***  
**Monthly Newsletter**

**Issue 4: January 2019**

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***Message from Carl Zeilman, Director of Saratoga County Office of  
Emergency Services***

Welcome to the fourth issue of the *Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Monthly Newsletter*, an e-publication that curates news about the development of the plan, innovations in mitigation, and opportunities to get involved!



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## The Latest: Draft Plan Ready to Review

The draft Saratoga County Multi-Jurisdictional Hazard Mitigation Plan is completed and available for review on the **Saratoga County Office of Emergency Services (OES) website**. This plan was developed over the past four months by incorporating recent research and data, as well as valuable stakeholder feedback on hazard risks, jurisdictional capabilities, and mitigation actions. The plan will be available for public comment until February 6, 2019, at which time the plan will be finalized and submitted to New York State and FEMA for review. In the meantime, the public is invited to provide feedback and submit any questions through an online survey, also accessible from the county's website.

The Saratoga County OES hosted a webinar with the Planning Committee on January 10, 2019 to review the contents of the draft hazard mitigation plan and discuss the next steps the County and its jurisdictions will take to review and provide comments on the plan. The Planning Committee is invited to provide detailed comments and edits to the draft plan using an adjudication matrix (spreadsheet). For consideration in the final plan, all comments and edits must be sent by January 24<sup>th</sup>, 2019 to:

Sydney McKenna at [sydney.mckenna@hagertyconsulting.com](mailto:sydney.mckenna@hagertyconsulting.com)

CC Mike Stanley at [MStanley@saratogacountyny.gov](mailto:MStanley@saratogacountyny.gov).

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## Hazard in Focus: Severe Storms

Severe storms, including thunderstorms and tropical cyclones (e.g. hurricanes, tropical storms, and tropical depressions) impact Saratoga County on an annual basis with varying degrees of severity. Saratoga County is situated geographically in an area of the Northeast where low pressure systems frequently pass through year-round, resulting in

severe weather especially during the warmer months. Factors that influence the frequency of these storms in Saratoga County include temperature, which is affected by latitude, elevation, proximity to water bodies and source of air masses; and precipitation which includes snowfall and rainfall. Within these types of severe storms, additional hazards can be triggered, including hail, high wind, downbursts, thunder and lightning, and tornados.

There have been 530 severe storm events reported between January 1960 and September 2018 (NOAA, 2018), including 328 reports of thunderstorm wind. These events have caused 52 injuries and one death. Saratoga County has had seven disaster declarations related to severe storm events, including an emergency declaration for Hurricane Sandy and a major disaster declaration for Hurricane Irene. FEMA Public Assistance money was made available after both disasters, and after Hurricane Irene additional federal assistance was available through the Individual Assistance program, Individuals & Households program, and Hazard Mitigation Assistance.

A thunderstorm is a local storm produced by a cumulonimbus cloud, moisture, and rapidly rising warm air. Thunderstorms are accompanied by thunder and lighting, as well as hail and high winds. Depending on the storm, downbursts can occur, which violently forces air down towards the ground at speeds that range from 130 to 160 miles per hour (MPH) and sometimes over areas up to or larger than 2.5 miles. Microbursts, a type of downburst, have a history of occurrence in Saratoga County. Storms in April 2016 caused severe wind and possible microbursts, damaging several structures throughout the county, downing trees, and cutting out power to thousands. Glen Falls experienced some of the most severe damage, including to the garage shown in the image below.





Garage in Glen Falls destroyed by possible microburst (The Post Star, April 6, 2016)

As Saratoga County heads into the spring months, it is important to remember that all jurisdictions are at risk of severe weather and should take necessary steps to be prepared.

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## Mitigation News: HMA Application Deadline Approaching

FEMA's HMA grant programs, Pre-Disaster Mitigation (PDM) and Flood Mitigation Assistance (FMA), are available to assist localities and States with mitigation planning and projects that seek to reduce hazard risk. The application period for these programs closes on **January 31**. For more information on these programs and the application, visit [FEMA's website](#).



# HMA Grant Application Period Closing Soon

The application deadline for Hazard Mitigation Assistance (HMA) Pre-Disaster Mitigation and Flood Mitigation Assistance grants is

**January 31, 2019!**



Applicants use the eGrants system to apply. These simple tips can troubleshoot potential technical or system navigation issues:

- The eGrants resource list has fixes for bugs and small issues
- The eGrants support team can keep you updated and help resolve system issues

If you have experienced a problem with your online application process, contact the eGrants support team early to ensure your grant is submitted smoothly and on time.

The best way to reach the eGrants support team is by email — [MTegrants@fema.dhs.gov](mailto:MTegrants@fema.dhs.gov).

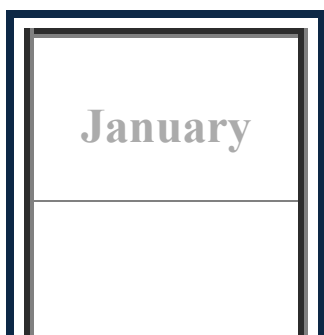
**SUCCESS!**

## Looking Ahead: Next Steps

Comments and feedback on the draft HMP will be accepted until **January 24, 2019**. Then, Hagerty will work with the County to review the feedback and incorporate changes into the plan. The plan will be finalized after the public comment period ends on February 6, 2019. The county will prepare the plan to submit to New York State and FEMA Region II for review in mid-February.

## Looking Ahead: Next Steps



Comments and feedback on the draft HMP will be accepted until January 24, 2019. Then, Hagerty will work with the County to review the feedback and incorporate changes into the plan. The plan will be finalized after the public comment period ends on February 6, 2019. The

# 10

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# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

## *Kick-Off Meeting*

**Thursday, July 19th, 2018**  
10:00am – 12:00pm EST



### **Hosted By:**

**Saratoga County Office of  
Emergency Services**

1 Halfmoon Town Plaza,  
Halfmoon, NY 12065  
COURT ROOM, JUSTICE BUILDING

**RSVP NOW**



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**Saratoga County Multi-Jurisdictional Hazard Mitigation Plan  
Kickoff Meeting  
Saratoga County Office of Emergency Services  
Court Room, Justice Building  
Thursday, July 19, 10:00 am – 12:00 pm  
Call-in: 847-492-0453, Conference Bridge: 323**

*Meeting Purpose: Introduce project, discuss purpose and benefits of mitigation planning, and outline next steps of project including the Hazard Risk Assessment.*

Topic	Presenter	Time
<b>Welcome &amp; Introductions</b>	Carl Zeilman, Director of Emergency Services, Saratoga Office of Emergency Services  Cris McCombs, Project Executive, Hagerty Consulting	10:00 am – 10:15 am
<b>Purpose of Mitigation Planning</b> <ul style="list-style-type: none"><li>Goals and Objectives</li><li>Purpose and Benefits</li><li>Planning Process</li><li>Historical Context</li><li>Mitigation Planning Stakeholders</li></ul> <b>Project Approach</b> <ul style="list-style-type: none"><li>Deliverables and timeline</li></ul> <b>Hazard Analysis and Risk Assessment</b> <ul style="list-style-type: none"><li>Methodology</li><li>Recent Hazard Occurrences</li><li>Review Hazard Profiles and Group Discussion</li></ul>	Cris McCombs, Project Executive, Hagerty Consulting  Sydney Delmar, Deputy Project Manager, Hagerty Consulting	10:15 am – 11:45 am
<b>Project Next Steps, Questions &amp; Conclusion</b>	Sydney Delmar, Deputy Project Manager, Hagerty Consulting	11:45 am – 12:00 pm

# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

Sign-in Sheet

Kickoff Meeting

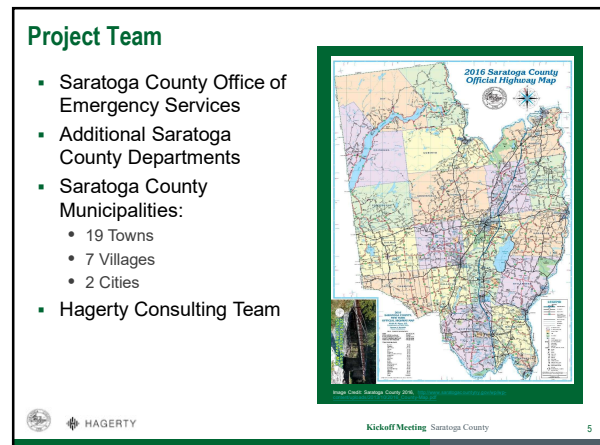
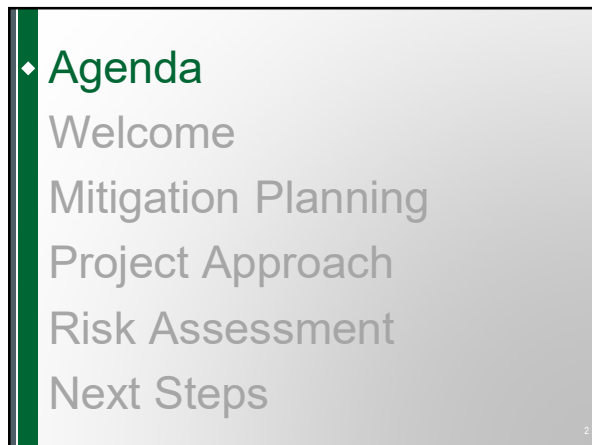
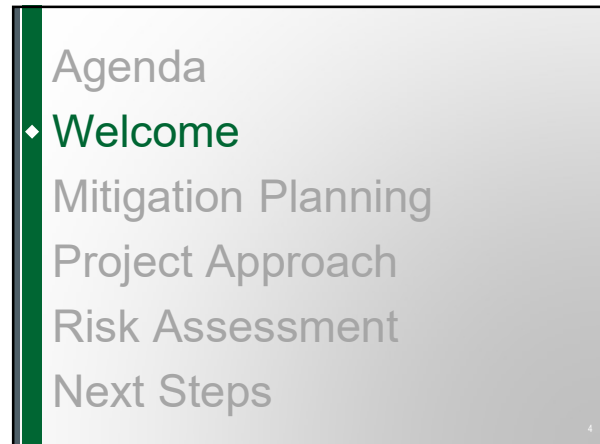
July 19, 2018 – 10:00 am – 12:00 pm

Name	Jurisdiction	Office/Organization	Email Address
MARK MIAVICH	Town of Stillwater	Sect of Highway	stillwater@highway.org
LOU PASQUARELL	Town of Clifton Park	Safety Department	IPASQUARELL@CLIFTONPARK.ORG
RICH LEMANSKI	Town of Clifton Park	CERT	FIREMARK@NYCAP.RR.COM
STEVEN MYERS	Town of Clifton Park	BUILDING + DEVELOPMENT	STEVENMYERS@CLIFTONPARK.ORG
JOHN COOPER JR	Town of Halfmoon	EMERGENCY SERVICE COORDINATOR	JOHN.COOPER@TOWNOFHALFMOON.ORG
Marilyn Rivers	City of Saratoga Springs	Office Risk and Safety	Marilyn.rivers@saratoga-springs.org
Ed Tremblay	Saratoga County	OS	etremblay@saratogacounty.org
John Fingelski	T/O Halfmoon	Highway Superintendent	jfingelski@townofhalfmoon.org
Kirk Woodcock	T/O WIZTON	Highway Supervisor	K.OLSON@TOWNSHIPWIZTON.ORG

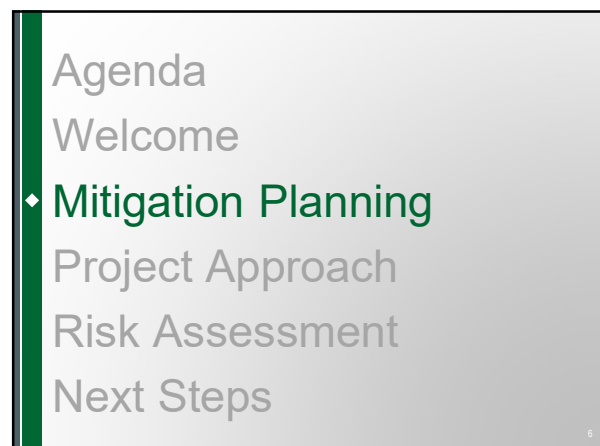


Name	Jurisdiction	Office/Organization	Email Address
Richard Colozza	Town of Northumberland	Code Enforcement	RA@TownofNorthumberland.org
LARRY GORDON	Town of Wilton	Emergency Services	Popillonery35@aol.com
Carl Zeilman	County of Saratoga	DES	Czeilman@saratoga-county.ny.gov
Sherry Doubleday	Town of Saratoga	DEM	oem@saratoga.gmail.com
Kevin King	Town of Malta	Emergency Services/Controller	controller@malta-town.org
Shelley Zieske	SARATOGA CO	SARATOGA Co S.O	szieske@saratogacounty.ny.gov
Paul McJurney	Waterford PD	Waterford PD	mcjurneypm@Town.watford.ny.gov
Troy Hiltz	S.C	Saratoga County	thiltz@saratogacounty.ny.gov
Brandt Greiner	Saratoga County	Saratoga County Public Health	bgreiner@saratoga-county.ny.gov
Robert Davis	Town of Ballston	LEMC	RDavis@townofballston.ny.gov

Name	Jurisdiction	Office/Organization	Email Address
Catherine DUNCAN	Saratoga County	Saratoga Co. Public Health	cduncan@saratoga-county.ny.gov
John CATONE	SARATOGA SPRINGS	SARATOGA SPRINGS PD	JCATONE@SARATOGAPOLICE.org
Kerth MANZ	Saratoga Co.	Co. DPW	Kman2@saratogacountyny.gov
<del>David BULL</del>	<del>Watkinsburg</del>	<del>Town of Watford</del>	<del>dbull001@gmail.com</del>
Dan REMMICK	Greenfield	Town of Greenfield	dremwick60@gmail
JEFF ALONZO	Mechanicville	City of Mechanicville	jeff.alonzo@mechanicville.ny.gov
Rick HARRIS	Hartford	Planning & Building	rharris@townofhartford.ny.gov
DENNIS POKRZYWKA	BACUSTON	Emergency Management	dpo@krywka@townofballston.ny.gov
Dan Oemsky	TOWN OF SARATOGA	Highway Super	Thehighwaymen@Albany.TWCBC.com



Agenda	
Time	Agenda Item
10:00 am – 10:15 am	<b>Welcome &amp; Introductions</b> <b>Purpose of Mitigation Planning</b> <ul style="list-style-type: none"> <li>• Goals and Objectives</li> <li>• Purpose and Benefits</li> <li>• Planning Process</li> <li>• Historical Context</li> <li>• Mitigation Planning Stakeholders</li> </ul>
10:15 am – 11:45 am	<b>Project Approach</b> <ul style="list-style-type: none"> <li>• Deliverables and timeline</li> </ul> <b>Risk Assessment</b> <ul style="list-style-type: none"> <li>• Methodology</li> <li>• Recent Hazard Occurrences</li> <li>• Review Hazard Profiles and Group Discussion</li> </ul>
11:45 am – 12:00 pm	<b>Project Next Steps, Questions, &amp; Conclusion</b>





## Goals and Objectives for the Plan Update

### Overall Goal:

- Leverage current standards, regulations, guidance, and hazard information to ensure the Saratoga County Multi-Jurisdictional Hazard Mitigation Plan meets and exceeds NYS and FEMA requirements



Waterford Harbor Visitor Center  
June 26—July 10, 2006 (FEMA  
DR-1650) - Flooding



Ballston Spa, NY – Gordon Creek at Bath Street  
March 12-20, 1936:



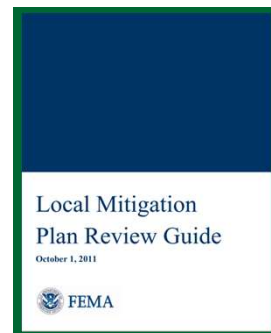
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## Historical Context

- Previous *Saratoga Multi-Jurisdictional Hazard Mitigation Plan* adopted in 2011
- New updates guided by FEMA Local Mitigation Plan Review Guide (October 2011) and the New York State Hazard Mitigation Planning Standards Guide (2017)



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## Purpose and Benefits of Hazard Mitigation Planning

- Required under Disaster Mitigation Act of 2000
- Ensures continued FEMA post-disaster funding:
  - Public Assistance (PA) for Permanent Work projects
  - Fire Management Assistance Grants (FMAG)
  - Hazard Mitigation Grant Program (HMGP)
  - Pre-Disaster Mitigation (PDM)
  - Flood Mitigation Assistance (FMA)
- Reduces disaster impacts to communities and guides recovery
- Builds support for mitigation activities and encourages more effective community policies
- Educates the public and community officials about hazard risks and vulnerabilities of people, property and infrastructure
- Promotes stronger partnerships among community stakeholders



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## Historical Context

- 2011 Plan Update Stakeholder Representation:
  - Saratoga County Office of Emergency Management
  - Saratoga County Planning Department
  - Saratoga Municipalities: 2 cities, 19 towns, and 9 villages
  - Utilities: New York State Electric and Gas Corporation; National Grid
  - Businesses, educational institutions, non-profits, and citizens
  - New York State Office of Emergency Management – Department of Homeland Security and Emergency Services
  - FEMA Region II



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## Hazard Mitigation Planning Process



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## Mitigation Planning Stakeholders

"Bringing together local officials, stakeholders and the public in a community-driven planning process to develop the plan also helps build the community's overall hazard mitigation program."

- FEMA Local Hazard Mitigation Plan Review Guide (October 2011)

### Sectors with Mitigation Capabilities

- Emergency management
- Economic development
- Land use and development
- Housing
- Health and social services
- Infrastructure
- Natural resources
- Cultural resources
- Hazard data capture and analysis
- Climate study and projection



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## Mitigation Planning Stakeholders

### Audience input and feedback:

- What other stakeholders can play critical or supporting roles in the mitigation planning process, including the **implementation** of identified mitigation strategies?



## Project Approach

### Phase 1

#### Project Initiation

<b>Project Kickoff Meeting</b>	<b>July 19, 2018</b>
Finalize Outreach Strategy	July 27, 2018
Data Collection	August 24, 2018

### Phase 2

#### Risk and Vulnerability Assessment

Initial Draft Risk and Vulnerability Assessment	September 26, 2018
<b>Risk and Capability Assessment Meeting</b>	<b>October 10, 2018</b>

### Phase 3

#### Develop Mitigation Strategies

Mitigation Strategy Update Recommendations	November 7, 2018
<b>Mitigation Strategy Meeting</b>	<b>November 15, 2018</b>

Agenda  
Welcome  
Mitigation Planning  
♦ **Project Approach**  
Risk Assessment  
Next Steps

## Project Approach

### Phase 4

#### Prepare Draft Plan

Initial Draft Multi-Jurisdictional Hazard Mitigation Plan	November 30, 2018
Revised Multi-Jurisdictional Hazard Mitigation Plan (Public Comment Review Period)	December 28, 2018
<b>Plan Review Meeting</b>	<b>January 22, 2019</b>

### Phase 5

#### Submit Plan to NYS and FEMA

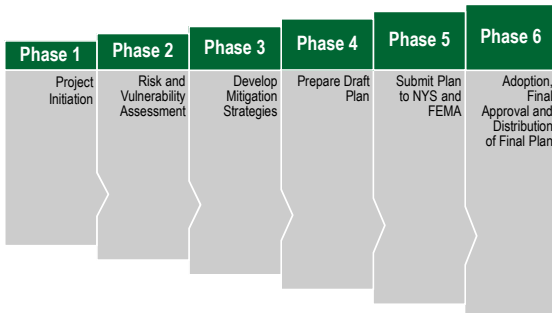
Final Draft Multi-Jurisdictional Hazard Mitigation Plan	January 30, 2019
Submission to NYSDHSES	February 1, 2019
Submission to FEMA	February 8, 2019

### Phase 6

#### Adoption, Final Approval and Distribution of Final Plan

Draft Resolution for Plan Adoption	April 5, 2019
Support for Submission of Resolution for Final Approval by FEMA and Plan Socialization to Stakeholders	May 31, 2019
Document transfer to County and <b>Project Closeout Meeting</b>	June 5, 2019

## Project Approach



Agenda  
Welcome  
Mitigation Planning  
Project Approach  
♦ **Risk Assessment**  
Next Steps



## Risk Assessment Methodology

1. Evaluate hazards for inclusion in plan update
  - Feedback from Kickoff Meeting
  - Past hazard occurrence data
  - 2018 HAZNY report results
2. Use best available data to develop hazard profiles:
  - Descriptions of location, extent, previous occurrences, future probability, and impacts
3. Assess vulnerability of people, property and infrastructure:
  - Exposure analysis
  - Estimation of losses using Hazus

2011 HMP Hazard	Associated Hazards	Ranking	Category
Flood	<ul style="list-style-type: none"> <li>• Riverine</li> <li>• Flash</li> <li>• Ice Jam</li> <li>• Dams</li> <li>• Elevated Groundwater</li> </ul>	1	High
Severe Winter Storm	<ul style="list-style-type: none"> <li>• Extreme Cold Events</li> <li>• Ice Storm</li> <li>• Nor'Easters (and other extratropical storms)</li> <li>• Heavy Snow</li> <li>• Blizzards</li> <li>• Freezing Rain/Sleet</li> </ul>	1	High
Severe Storm	<ul style="list-style-type: none"> <li>• Hurricane (and other tropical cyclones)</li> <li>• Windstorms</li> <li>• Thunderstorms</li> <li>• Lightning</li> <li>• Tornadoes</li> <li>• Hail</li> </ul>	2	High
Ground Failure	<ul style="list-style-type: none"> <li>• Landslide</li> <li>• Land Subsidence</li> </ul>	3	Medium
Earthquake		4	Low

## Hazard Risk: 10 Year Review

### FEMA Disaster Declarations

- Five disaster declarations since 2008
  - Two Severe Winter Storms (2008 & 2009)
  - Hurricane Irene (2011)
  - Hurricane Sandy (2012)
  - Severe Winter Storm and Snowstorm (2017)

### NOAA Past Storm Events

- 228 days with a storm event between January 2008 and March 2018
- Most frequent storm events include:
  - Winter Weather (42 events)
  - Thunderstorm Wind (43 events)
  - Winter Storm (21 events)

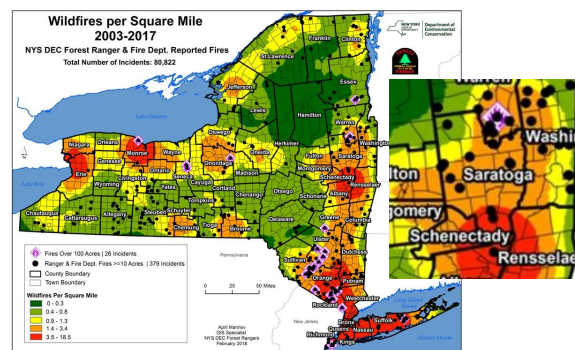
### USDA Drought Events

- One severe drought event between January 2008 and July 2018

## Hazards Previously Not Profiled

Hazard	Saratoga HMP Determination
Avalanche	No - The NYS HMP does not identify avalanche as a hazard of concern for New York State. The topography and climate of Saratoga County does not readily support the occurrence of an avalanche event.
Coastal Erosion/Coastal Storm	No - Saratoga County is not bounded by coastal waters; therefore, not directly
Drought (including Extreme heat)	No - Saratoga County was unable to locate further local information with their available resources regarding this hazard of concern, including significant losses to the County and/or municipalities from historic events. Therefore, the County decided not to analyze the drought hazard.
Expansive Soils	No - USGS indicated that Saratoga County has little or no clays with swelling potential or have less than 50 percent of soils with abundant clays of slight to moderate swelling potential. Based on all sources reviewed, no known historical occurrences are reported for Saratoga County.

## Hazard Risk: 10 Year Review



## Hazards Previously Not Profiled

Hazard	Saratoga HMP Determination
Infestation	The NYS HMP does not identify infestation as a hazard of concern for New York State. Based on all sources reviewed, no known significant occurrences are reported for Saratoga County.
Tsunami	Tsunami is not identified as a hazard of concern in the NYS HMP.
Volcano	Volcanoes are not identified as a hazard of concern in the NYS HMP.
Wildfire	The NYS HMP identifies wildfires as hazards of concern for New York State. The NWPD indicates that no records of wildfire incidences have been recorded for Saratoga County. GeoMac indicates that portions of Saratoga County are located within the Wildland-Urban Interface. USGS indicates that no wildfires greater than 250 acres were experienced in Saratoga County between 1980 and 2003. GeoMAC indicates that no wildfires were experienced in Saratoga County between 2001 and 2008.

## Group Discussion

### Hazard Profile Considerations

- What changes should be made to the hazards profiled in the previous plan?
- Should any additional hazards be considered for this plan update?



## Key Contacts

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Phone: 703.350.9689

## Agenda

### Welcome

### Mitigation Planning

### Project Approach

### Risk Assessment

### ◆ Next Steps

## Project Next Steps

- Hagerty Consulting:
  - Finalize Outreach Strategy (July 27, 2018)
  - Collect and review additional background documents and data
  - Draft Risk and Vulnerability Assessment (September 26, 2018)
- Project Team:
  - Identify additional critical and supporting partner organizations for inclusion in expanded Stakeholder Group
  - Compile and transmit data for consideration in the risk assessment, especially critical facilities and county/municipal owned buildings and infrastructure (August 24, 2018)

# Kickoff Meeting Notes

Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update  
July 19, 2018 – 10:00 am – 12:00 pm  
Saratoga County Office of Emergency Services

## Welcome & Introductions

Hagerty introduced the consulting team, meeting agenda, and the overall goal of the project.

## Purpose of Hazard Mitigation Planning

### *Goals and Objectives*

Hagerty reinforced the point that it is important to leverage the standards to ensure the plan meets NYS and FEMA requirements. It is an opportunity to implement strong, prioritized actions, identify clear funding sources, to ensure more people are prepared in the future.

- Emphasized legal need to have and update a hazard mitigation plan as it is required under the Disaster Mitigation Act of 2000. Also highlighted that federal funding requires an updated hazard mitigation plan.
- The 2011 Hazard Mitigation Plan's mission statement directs the purpose of mitigation planning by highlighting why it is beneficial to the community.

### *Benefits of Hazard Mitigation Planning*

Hagerty highlighted the myriad of social, economic, and physical benefits to hazard mitigation planning.

### *Planning Process*

Hagerty introduced the FEMA hazard mitigation planning process (Steps 1-4).

### *Historical Context*

Hagerty provided an overview of the 2011 Hazard Mitigation Plan Update process, and asked attendees what other stakeholders can play a critical role in the mitigation planning process.

- **The business community.** (Crucial in restoration effort, employment, and money flow), such as Chambers of Commerce, local lenders for emergency funding, banks, etc.
- **The private sector.** Traditionally the private sector is welcoming to the approach to assist with the education/outreach as well as participating in the planning process.
- **LEPC.**
- **CERT and Responders.**

Hagerty clarified that this hazard mitigation plan will just include natural disasters, and that there were small amounts of money available for pre-disaster activity.

## ***Project Approach***

Hagerty explained the project approach, including the current and future phases. This included describing next steps such as data collection, and its importance in guiding the risk assessment. Hagerty clarified their role in providing professional expertise, while stakeholders will provide personal expertise.

- Electronic communication via email is the best method of communication.
- Hagerty will create a SharePoint to allow Saratoga County to upload data to the site. All data is needed by August 24, but earlier is better.

## **Risk Assessment**

Hagerty detailed the methodology behind the risk assessment. This includes evaluating the hazards for inclusion in the plan update (will use meeting feedback below, past hazard occurrence data, and the update to HAZNY and CEPA which will impact how hazards are ranked). This will also include best available data for location, extent, previous occurrences, future probability, and impacts. The risk assessment will assess vulnerability of people, property, and infrastructure and estimate losses.

- Hagerty presented the past 10 years of past hazard occurrences, particularly highlighting those events that were not included in the previous 2011 Hazard Mitigation Plan (from FEMA Declared Disasters, Drought records, NOAA Storm Events, and USDA Wildfire data).
- Hagerty presented the hazards from the 2011 Hazard Mitigation Plan, as well as associated hazards, ranking, and category.

A group discussion followed the introduction of these hazards to discuss what changes, if any, should be made and if there should be additional hazards considered for the plan. Hagerty also clarified that it will refer to the updated CEPA released in September to ensure risk assessment aligns.

## **Drought**

- Will be included as part of update. This is due particularly because of its effect on agriculture.

## **Extreme Temperatures**

- Will be included as part of update. Extreme cold can impact critical facilities, while extreme heat could lead to periods of drought. There are also considerable impacts on public health and safety from both hazards.

## Wildfire

- Will be included in update. Saratoga County has experienced a considerable number of wildfires per square mile. There is also potential for wildfire to cause cascading impacts on other facilities and infrastructure.

## Beaver Dam Failure

- Will be included as part of the Flood hazard profile in this update. Beaver dam failures can have high impacts on the northern parts of the county. NOAA has also identified Saratoga County as being the most vulnerable to beaver dam failure.

## Downburst Winds

- Will be included as part of Severe Storm hazard profile in this update. They have been identified as high probability and risk.

## Invasive Species

- Previously called “Infestation”, this profile will include a review of all invasive species in Saratoga County. Saratoga County has had an increasing amount of invasive species, which have had detrimental impacts on waterbodies like Saratoga Lake.

# Next Steps

## *Hagerty Consulting*

1. Develop a hazard data collection worksheet that Saratoga County and participating municipalities can fill out. Send to LEPC.
2. Research updated NOAA/NWS modeling and mapping for snow, ice, and flooding.
3. Finalize outreach strategy (**July 27, 2018**).
4. Draft Risk and Vulnerability Assessment (**September 26, 2018**).

## *Project Team*

1. Brainstorm additional stakeholders that should be included in the process.
2. Reach out to agencies, partners, and stakeholders to identify sources for data collection. All data collection to be submitted by **August 24, 2018**.
  - a. LEPC to fill out the hazard data collection worksheet and return to Hagerty Consulting no later than **August 24<sup>th</sup>, 2018**.



## List of Attendants

NAME	AGENCY/ORGANIZATION
Mark Minick	Town of Stillwater Highway Superintendent
Lou Pasavarell	Town of Clifton Park Safety Department
Rich Lemanski	Town of Clifton Park CERT
Steven Myers	Town of Clifton Park Building and Development
John Cooper Jr.	Town of Halfmoon Emergency Services Coordinator
Marilyn Rivers	City of Saratoga Springs Office Risk and Safety
Ed Tremblay	Saratoga County OES
John Pingelski	Town of Halfmoon Highway Superintendent
Kirk Woodcock	Town of Wilton Highway Superintendent
Catherine Duncan	Saratoga County Public Health
John Catone	Saratoga Springs PD
Keith Manz	Saratoga County DPW
Dave Ball	Town of Waterford
Dan Pemrick	Town of Greenfield
Richard Harris	Town of Halfmoon Planning and Building
Dennis Pokrzywka	Ballston Emergency Management
Don Ormsby	Town of Saratoga Highway Superintendent
Richard Colozza	Town of Northumberland Code Enforcement
Larry Gordon	Town of Wilton Emergency Services

NAME	AGENCY/ORGANIZATION
Carl Zeilman	County of Saratoga OES
Sherry Doubleday	Town of Saratoga OEM
Kevin King	Town of Malta Emergency Service/Comptroller
Shelley Zieske	Saratoga County S.O.
Paul McInerney	Waterford PD
Troy Hilts	Saratoga County
Brandt Greiner	Saratoga County Public Health
Robert Davis	Town of Ballston LEMC

# Saratoga County Multi-Jurisdictional Hazard Mitigation Planning

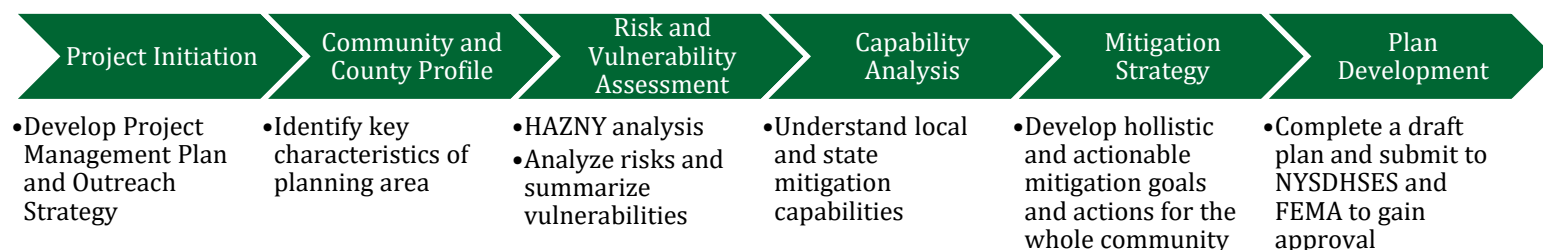
## *Multi-Jurisdictional Planning, Coordination, and Cooperation*

### Introduction

The Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update is an interagency process to enhance the culture of preparedness and resilience across the whole Saratoga County community. The process verifies and identifies specific risks and vulnerabilities present in the County and develops a mitigation strategy that determines specific actions to reduce the effects of these risks. The final plan is intended to be a comprehensive resource document that serves multiple purposes for the municipalities within the County, such as enhancing public awareness, creating a decision tool for management, promoting compliance with State and Federal program requirements, enhancing local policies for hazard mitigation capability, and providing inter-jurisdictional coordination.

The planning process is led by a core planning and consultant team, but heavily relies on stakeholders for their subject-specific expertise in risk identification, knowledge of vulnerabilities, or experience with mitigation projects. The Plan Update will be based on past mitigation planning efforts as well as the HAZNY analysis performed during the Risk and Vulnerability Assessment piece of the planning process. This planning process will result in a full draft of the 2019 Multijurisdictional Hazard Mitigation Plan Update by January 30<sup>th</sup>, 2019 leading to submission to FEMA by February 8<sup>th</sup>, 2019.

### Interagency Planning Process



### Upcoming In-Person Meetings

Risk and Capability Assessment Meeting	October 10 <sup>th</sup> , 2018
Mitigation Strategy Meeting	November 15 <sup>th</sup> , 2018
Plan Review Meeting	January 22 <sup>nd</sup> , 2019
Project Closeout Meeting	June 5 <sup>th</sup> , 2019

For more information, please contact:

**Michael Stanley**, Emergency Services Specialist, Saratoga County OES  
(518) 885-2243

**Sydney Delmar**, Deputy Project Manager, Hagerty Consulting  
(703) 350-9689



# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

## ***Risk Assessment and Capability Review Meeting***

**Thursday, October 11th, 2018**  
**9:00am – 11:00am EST**



**Hosted By:**  
**Saratoga County Office of  
Emergency Services**  
Fire Training Classroom  
6010 County Farm Road,  
Milton, NY 12020





**Saratoga County Multi-Jurisdictional Hazard Mitigation Plan  
Risk Assessment Meeting  
Saratoga County Office of Emergency Services  
Fire Training Classroom  
Thursday, October 11, 2018 9:00 am – 11:00 am**

*Meeting Purpose: Discuss the results of the hazard risk assessment with stakeholders, conduct the hazard ranking exercise, and introduce the capability review exercise.*

Topic	Presenter	Time
<b>Welcome &amp; Introductions</b>	Carl Zeilman, Director of Emergency Services, Saratoga Office of Emergency Services  Jim DeAngelo, Project Manager, Hagerty Consulting	9:00 am – 9:15 am
<b>Risk Assessment Review</b>	Jim DeAngelo	9:15 am – 10:00 am
<b>Hazard Ranking Exercise</b>	Sydney Delmar	10:00 am – 10:30 am
<b>Capability Review Exercise Instruction</b>	Sydney Delmar	10:30 am – 10:45 am
<b>Project Next Steps, Questions &amp; Conclusion</b>	Jim DeAngelo	10:45 am – 11:00 am



# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

Sign-in Sheet

Risk Assessment and Capability Review Meeting

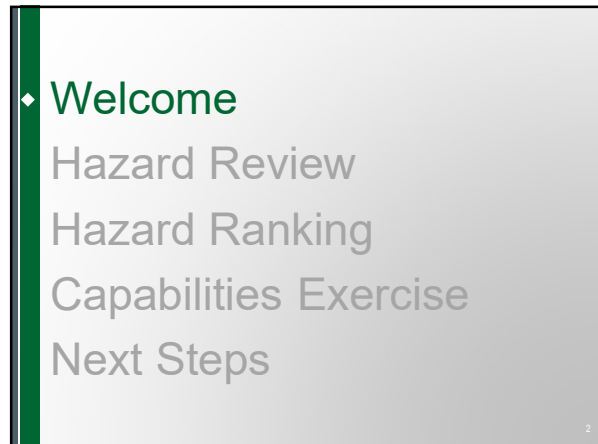
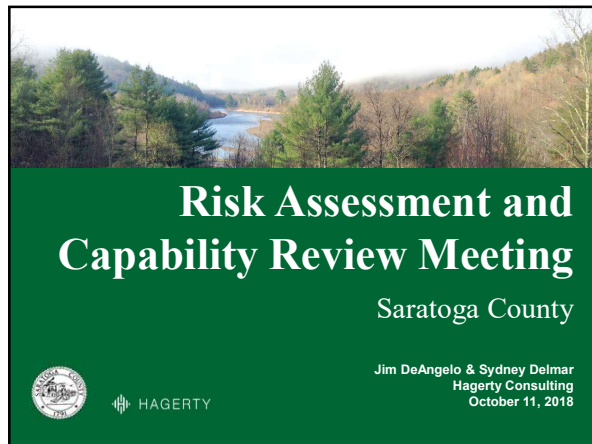
October 11, 2018, 9:00am – 11:00am EST

Name	Jurisdiction	Office/Organization	Email Address
Marilyn Rivers	City Saratoga Springs	office Risk & Safety	Marilyn.Rivers@Saratoga-Springs.org
Carl Zalman	Saratoga County OES	OES	
LOU PASQUARELL	Town of Clifton Park	Public Safety	LPASQUARELL@CLIFTONPARK.ORG
Mike Stanley	Saratoga County <del>OES</del>	OES	mstanley@saratogacounty.ny.gov
Steve Gordon	S.P.S.O		SGORDON@SARATOGACOUNTY.NY.GOV
Riordan E. Gohezza	Town of Northumberland	Building Inspector	RGA@TownofNorthumberland.org
Eileen M. Bennett	City of Saratoga I.T.	I.T.	ebennett@saratogacounty.ny.gov
Mike Monroe	Town of Wilton	Highway	mmunroe@TownofWilton.com
Joe Whalen	T/O Ballston	Deputy Supervisor Hwy & Water Supt	jwhalen@townofballston.ny.gov

Name	Jurisdiction	Office/Organization	Email Address
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Arthur Lozier	Village of Corinth	DPW	water@villageofcorinthny.com
Jim Clark	Saratoga Co. DPW	DPW	JClark@SaratogaCountyNY.gov
John Solan	NYS Forest Ranger	DEC	john.solan@dec.ny.gov
William Doughty	Town of Stillwater	Highway Dept	Stillwater Highway 2 @ gmail
Dave Robbins	Town of Charleston	Town Board	councilmanrobbs@townofcharleston.org
Marshall Heritage	" " "	Hwy Dept	Highway @ townofcharleston.org
Ed Kinowski	Town of Stillwater	Supervisor	EKinowski@StillwaterNY.ORG
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Barbara Spaulding	DHSES		barbara.spaulding@dhss.ny.gov



Name	Jurisdiction	Office/Organization	Email Address
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Kevin T King	Malta	Comptroller Malta Emergency Preparedness	comptroller@malta-town.org
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G Hebert	TOWN of Waterford		HebertG@TownofWaterford.us.ny
D. Pokrzywica	T. o. Ballston	Ballston Lemc	dpokrzywica@townofballston.ny.gov



Time	Agenda Item
9:00 am – 9:15 am	Welcome & Introductions
9:15 am – 10:00 am	Risk Assessment Review
10:00 am – 10:30 am	Hazard Ranking Exercise
10:30 am – 10:45 am	Capability Review Exercise Introduction
10:45 am – 11:00 am	Project Next Steps, Questions, & Conclusion

**Project Overview**

- Project Team:**
  - Saratoga County Office of Emergency Services and Additional Saratoga County Departments
  - Saratoga County Municipalities
  - Hagerty Consulting Team
- Why Mitigation Planning?**
  - Required under Disaster Mitigation Act of 2000
  - Ensures continued FEMA post-disaster funding
- Previous Plan approved in 2011

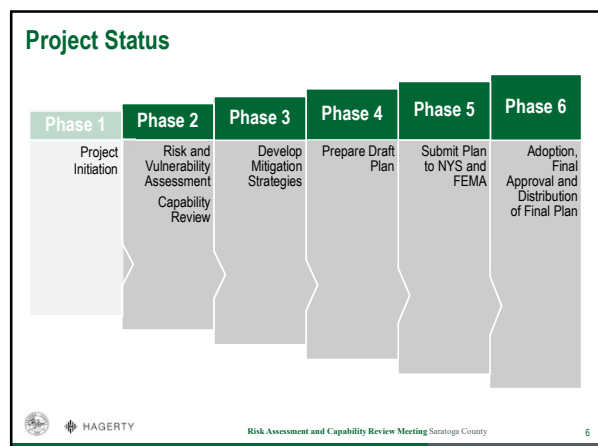
**Consultant Team Overview**

- Hagerty Consulting:**
  - Established in 2001
  - Emergency management consulting firm
  - Four divisions: preparedness, recovery, mitigation, and Resilience
  - Offices in Evanston, IL; Washington, D.C.; and Austin, TX.
  - Work in more than 30 states

**Project Manager:**  
 Jim DeAngelo

**Deputy Project Manager:**  
 Sydney Delmar

**Other Team Members:**  
 Michelle Bohrsen  
 Taylor Lorence  
 Emily Votroubek



# Welcome

- ## Hazard Review

## Hazard Ranking

## Capabilities Exercise

## Next Steps

## Risk Assessment Methodology

- Evaluate hazards for inclusion in plan update
  - Feedback from Kickoff Meeting
  - Past hazard occurrence data
  - 2018 CEPA report results
- Use best available data to develop hazard profiles:
  - Descriptions of location, extent, previous occurrences, future probability, and impacts
- Assess vulnerability of people, property and infrastructure:
  - Exposure analysis
  - Estimation of losses using Hazus

## Drought

- Can affect all areas of Saratoga County
- Seven events, since 2010, to varying degrees of severity
- Expected to become more frequent

U.S. Drought Monitor  
New York

August 28, 2018  
(Previous Period: Aug. 20, 2018)  
Valid 6 a.m. EDT

Legend:  
 Extreme Drought (Red)  
 Severe Drought (Orange)  
 Moderate Drought (Yellow)  
 Marginal Drought (Light Yellow)  
 No Drought (White)

Author: National Drought Mitigation Center  
 URL: <http://droughtmonitor.unl.edu/>

## Earthquake

- More likely to affect the northern portion of the county
- Generally uncommon – but one event in 2002 was a federally declared disaster
  - Note: the epicenter of this earthquake was outside of the county (in Pittsburgh, PA)

Seismic Hazard Zones  
 Description: This map shows the estimated peak ground acceleration (PGA) for a 100-year return period earthquake event. The map is based on the National Earthquake Hazard Reduction Program (NEHRP) seismic hazard maps.

## Extreme Temperature

- Includes both extreme heat and extreme cold
- Common hazard which is likely to occur annually
- More likely to impact vulnerable populations
- Climate change likely to impact this hazard

NWS Heat Index  
 Temperature (°F)  
 Relative Humidity (%)

NWS Wind Chill Chart  
 Temperature (°F)  
 Wind Speed (mph)

## Flood

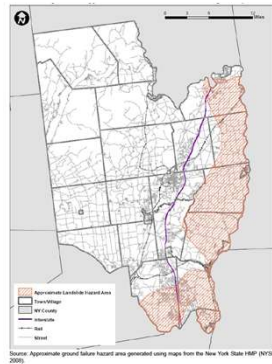
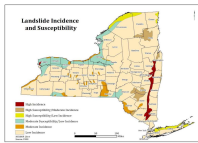
- Includes: riverine/flash, ice jam, dam failure, beaver dam, and elevated groundwater flooding
- Risk exists throughout the county
  - Hudson River and Mohawk River
- Annual Flooding
  - Five federally declared disasters from flood between 1955 and 2018
- Potential for large dollar losses and critical facility loss

Flood Hazard Areas  
 Description: This map shows the estimated peak water levels for a 100-year return period flood event. The map is based on the National Flood Insurance Program (NFIP) flood hazard maps.



## Ground Failure

- Ground failure mainly outlines landslide risk
- Officials note there have been two events since 2007
- Area of high incidence in the eastern portion of the county



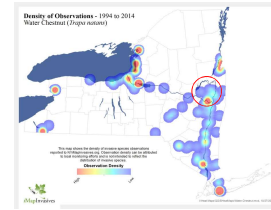
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## Invasive Species

- Includes aquatic and terrestrial animals, plants, and insects
- Found throughout the county
- Expected to increase with globalization and climate change



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## Severe Storm

- Includes: hailstorm, windstorm, lightning, thunderstorm, tornado, tropical cyclone, tropical depressions, tropical storms, hurricanes
- Frequent occurrence
- Hazus found southeast portion of the county susceptible to higher peak wind speeds



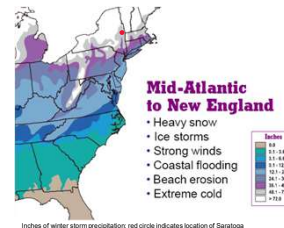
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## Severe Winter Storm

- Includes: blizzard, extra-tropical cyclone, extreme cold, heavy snow, ice storm, nor'easter, sleet or freezing rain, and snowmelt.
- Expected annually – Federally declared disaster March 14, 2017
- Potential for large dollar losses and critical facility loss



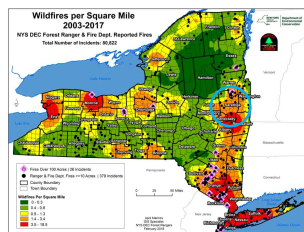
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## Wildfire

- Can occur anywhere in the County, but more likely in Wildland-Urban Interface (WUI)
- Potential for large dollar losses and critical facility loss



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Welcome  
Hazard Review  
♦ Hazard Ranking  
Capabilities Exercise  
Next Steps



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## Capabilities Exercise Overview

### Climate

Please provide specific changes to your jurisdiction's climate description below:

EXAMPLE:

- Mid-summer temperatures have increased in urban areas due to the heat island effect
- Update snow accumulation to 75" annually



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## Capabilities Exercise Overview

### Capability Assessment

Please review the capability assessment in your jurisdiction's annex from the previous plan. Mark any corrections you have to the contents of these tables in the blank tables provided below. Leaving the cell blank indicates that what is in the previous plan is still CORRECT.

#### Legal and Regulatory Capability

Regulatory Tools (Codes, Ordinances, Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
1) Building Code					
2) Zoning Ordinance					
3) Subdivision Ordinance					
4) NFIP Flood Damage Prevention Ordinance (If you are in the NFIP, you must have this.)					
5) Growth Management					
6) Floodplain Management / Basin Plan					
7) Stormwater Management Plan/Ordinance					
8) Comprehensive Plan / Master Plan/ General Plan					
9) Capital Improvements Plan					
10) Site Plan Review Requirements					
11) Open Space Plan					
12) Economic Development Plan					
13) Emergency Response Plan					



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## Welcome Hazard Review Hazard Ranking Capabilities Exercise ◆ Next Steps

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## Project Next Steps

Planning Committee Responsibilities	Deadline
Review the draft risk assessment, local hazard ranking, and local capabilities	10/25/2018
Receive previous plan's actions for initial review before the Mitigation Strategy Meeting	11/8/2018
Mitigation Strategy Meeting - Review previous plan's mitigation actions (report status) - Discuss opportunities for new mitigation actions	11/15/2018
Continue to review the mitigation strategy and document all new mitigation actions	11/29/2018
First full draft plan for review	12/6/2018



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## Mitigation Strategy

- Long-term blueprint for reducing the potential losses identified in the risk assessment
- Includes goals, objectives, and actions:
  - Goals: General guidelines that describe what the county would like to achieve
  - Objectives: Define strategies that must be implemented to achieve the identified goal
  - Actions: The specific activities the county will take to reduce or eliminate risks

**Mitigation Action Worksheet**

Project/Program Name	
Project Location	
Project Sponsor	
Project Description	
Project Objectives	
Project Goals	
Project Actions	
Project Status	
Project Contact	
Project Date	
Project Notes	



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## Key Contacts

Jim DeAngelo  
Project Manager  
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Phone: 505.415.2649

Sydney Delmar  
Deputy Project Manager  
Email: [sydney.delmar@hagertyconsulting.com](mailto:sydney.delmar@hagertyconsulting.com)  
Phone: 703.350.9689

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# Risk Assessment and Capability Review Meeting Notes

Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update  
October 11, 2018 – 9:00 am – 11:00 am  
Saratoga County Office of Emergency Services

## Welcome & Introductions

Saratoga County Office of Emergency Services made introductions regarding the purpose of the meeting and project. Hagerty Consulting introduced the consulting team, discussed the meeting agenda, and provided an overview of the overall purpose of the project and mitigation planning. Planning Committee members in attendance introduced themselves, identifying their municipality and position.

## Hazard Review

### *Risk Assessment Methodology*

Hagerty described the methodology of selecting the hazards and conducting the risk assessment. This process included the following steps:

- Evaluating hazard inclusion in the plan update using feedback, past hazard occurrence data, and 2018 CEPA Report results.
- Utilizing best available data to develop the hazard profiles.
- Assessing the vulnerability of people, property, and infrastructure using exposure analysis, and estimation of losses using Hazus.

### *Overview of Hazards*

Hagerty highlighted information related to each hazard listed below:

- Drought
- Earthquake
- Extreme Temperature
- Flood
- Ground Failure
- Invasive Species
- Severe Storm
- Severe Winter Storm
- Wildfire

During the presentation of hazards, there were two questions related to the source of the data for wind loss analysis and wildfire occurrences. Wind loss analysis was performed using FEMA's Hazus software. Scenarios were run using different mean return periods. The Hazus software is free to download from this website: <https://www.fema.gov/hazus-software>. Hagerty will look at incorporating information from the New York State Department of Environmental Conservation regarding wildfire occurrences in Saratoga County.

## *Hazard Ranking*

Hagerty introduced the Hazard Ranking exercise to the Planning Committee. Each participating jurisdiction was asked to rank the hazards based on their probability of occurrence and impacts on people, property, and the economy. The scoring of each of these factors was calculated based on a weighted scale to produce a final hazard ranking. Planning Committee members were asked to split into groups based on their jurisdiction to develop their unique hazard ranking. The following factors were used in the Hazard Ranking Exercise:

- Probability of Occurrence (Rare, Infrequent, Regular, Frequent)
- Impact of Population, Property, and Economy (low, medium, high)

Hagerty clarified that impacts on "property" includes critical infrastructure, and that the ranking exercise should consider both public and private property. Hagerty also explained that the ranking exercise should look at the percentage of population impacted, rather than discrete numbers of people impacted especially due to seasonal change.

Before the exercise began, Hagerty asked the Planning Committee to describe what they believed to be the highest and lowest risk hazards. Highest risk hazards included flooding, summer storms and/or winter storms, and ground failure was identified as the lowest risk. At the end of the exercise, Saratoga County reported ranking ground failure higher based on previous occurrences in the last ten years.

This exercise must be completed by Planning Committee members from each participating jurisdiction, including Saratoga County. The results of the ranking will become part of the Jurisdictional Annexes to the hazard mitigation plan. Planning Committee members can amend the ranking and turn in the worksheet electronically before October 25, 2018.

## **Capabilities Exercise**

Hagerty reviewed the purpose of the capability assessment, a section of the plan that determines the ability of jurisdictions to implement a mitigation strategy. The capability assessment is included in each Jurisdictional Annex to the plan. The capability assessment provides an overview of the following:

1. Legal and regulatory capability
2. Administrative and technical capability
3. Fiscal capability
4. Community classification



During the meeting, Hagerty provided Planning Committee members with a Jurisdictional Annex Form and discussed how to use this form to mark all updates and revisions that need to be made to the annex information. To complete this form, Planning Committee members were asked to refer to their municipality's Jurisdictional Annex from the previous plan, which can be found on the Saratoga County OES website: <http://www.saratogacountyny.gov/departments/office-of-emergency-services/hazard-mitigation-plan/>

The purpose of this exercise is to obtain information from each community to be included in the jurisdictional annexes. This information will help update the jurisdictional annexes and guide the development of the mitigation strategy. Additionally, Hagerty emphasized that this exercise is meant to validate the information included in the previous jurisdictional annex. Planning Committee members were asked to complete this form following the meeting and return it to Hagerty by October 25, 2018. An electronic version of this form will be provided following the meeting.

## Mitigation Strategy

Hagerty emphasized the importance of developing a mitigation strategy based on information included in the Risk Assessment. While reviewing the Risk Assessment and local capabilities, Planning Committee members should identify “hot spots” that mitigation actions could address (*actions can be specific and localized*). Hagerty also distributed a Mitigation Action Worksheet that identifies some of the information needed for new mitigation actions to be captured in this plan update. The Mitigation Strategy Meeting will take place in November and will review the status of the previous plan's actions, including a discussion of whether the action was implemented or not and whether the 2019 Plan update should carry the action(s) forward.

A representative from the New York State Division of Homeland Security and Emergency Services noted that the State has their own mitigation action worksheet that they require each jurisdiction participating in the plan update process to use to fill out the details of two proposed mitigation actions. This form will be discussed in more detail at the upcoming Mitigation Strategy meeting.

## Next Steps

### *Hagerty Consulting*

1. Send final meeting notes and attendance to Saratoga County Office of Emergency Services and Planning Committee members.
2. Follow up with meeting materials, including the Hazard Ranking Worksheet, Jurisdictional Annex Form, and Mitigation Action Worksheet, as well as the website link to the Jurisdictional Annexes online.
3. Begin revising Risk Assessment and rankings based on meeting input.
4. Begin reviewing the Mitigation Strategy.

## *Project Team*

1. Review and provide any comments for the Risk Assessment. **(October 25, 2018)**
2. Complete and return a Hazard Ranking Form for your jurisdiction. **(October 25, 2018)**
3. Complete and return a Jurisdictional Annex Form for your jurisdiction. **(October 25, 2018)**
4. Receive Previous Plan's Actions for initial review before the Mitigation Strategy Meeting. **(November 8, 2018)**
5. Mitigation Strategy Meeting **(November 15, 2018)**

## Meeting Attendees

NAME	AGENCY/ORGANIZATION
Arthur Cozier	Village of Corinth Department of Public Works
Barbara Spaulding	New York State Division of Homeland Security and Emergency Services
Brandt Greiner	Saratoga County Public Health
Carl Zeilman	Saratoga County OES
Catherine Duncan	Saratoga County Public Health
Dan Rourke	Saratoga County Sewer Executive Director
Dave Robbins	Town of Charlton Town Board
Dennis Pokrzywka	Ballston Emergency Management
Ed Kinowski	Town of Stillwater Supervisor
Ed Tremblay	Saratoga County OES
Eileen Bennett	Saratoga County I.T.
Emily Votroubek	Hagerty Consulting
Glenn Herbert	Town of Waterford Building Inspector
Jim Clark	Saratoga County Department of Public Works
Jim DeAngelo	Hagerty Consulting
Joe Whalen	Town of Ballston Deputy Supervisor, Highway and Water Superintendent
John Solan	New York State Department of Environmental Conservation Forest Ranger
Kevin King	Town of Malta Emergency Service/Comptroller
Lou Pasquarell	Town of Clifton Park Public Safety
Marilyn Rivers	City of Saratoga Springs Office of Risk and Safety
Marshall Heritage	Town of Charlton Highway Department
Mike Monroe	Town of Wilton Highway
Mike Stanley	Saratoga County OES
Paul Hoole	FEMA
Richard Colozza	Town of Northumberland Code Enforcement
Steve Gordon	S.C.S.O
Steve Myers	Town of Clifton Park Director of Building and Zoning
Sydney Delmar	Hagerty Consulting
William Dougherty	Town of Stillwater Highway Department

# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

## *Mitigation Strategies Meeting*

**Thursday, November 15, 2018**  
9:00am – 11:00am EST



**Hosted By:**  
**Saratoga County Office of  
Emergency Services**  
Clifton Park Fire Department  
38 Old Route 146,  
Clifton Park, NY



**RSVP NOW**



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**Saratoga County Multi-Jurisdictional Hazard Mitigation Plan  
Mitigation Strategy Meeting  
Saratoga County Office of Emergency Services  
Clifton Park Fire Department  
Thursday, November 15, 2018 9:00 am – 11:00 am EST**

*Meeting Purpose: Review the purpose of the mitigation strategy, and the previous mitigation action plan, as well as develop new mitigation actions and a project action worksheet.*

Topic	Time
Welcome & Introductions	9:00 am – 9:10 am
Mitigation Strategy Overview	9:10 am – 9:20 am
Activity: Reviewing Previous Mitigation Actions	9:20 am – 9:45 am
Developing New Mitigation Actions	9:45 am – 10:15 am
Activity: Developing New Mitigation Actions	10:15 am – 10:50 am
Project Next Steps, Questions & Conclusion	10:45 am – 11:00 am



# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

Sign-in Sheet

Mitigation Strategies Meeting

November 15, 2018, 9:00am – 11:00am EST

Name	Jurisdiction	Office/Organization	Email Address
Carl Zeilman	Saratoga County	OES	CZeilman@saratogacountyny.gov
Michael Stanley	Saratoga County	OES	MStanley@saratogacountyny.gov
Jim DeAngelo	N/A	Hagerty Consulting	jim.deangelo@hagertyconsulting.com
Sydney Delmar	N/A	Hagerty Consulting	Sydney.delmar@hagertyconsulting.com
Emily Votroubek	N/A	Hagerty Consulting	Emily.votroubek@hagertyconsulting.com
STEVE MYERS	TOWN OF CLIFTON PARK	BUILDING + ZONING	SMYERS@CLIFTONPARK.ORG
Richard Colozzo	Town of Northumberland	Building Inspector	BZA@TownofNorthumberland.org
William F Lee	Town of Milton	Building Dept	wlee@TownofMilton.org
TINA CARTON	Saratoga Springs	Mayor	tina.carton@saratoga-springs.org



Name	Jurisdiction	Office/Organization	Email Address
Marilyn Rivers	City Saratoga Springs	Office Risk & Safety	Marilyn.Rivers@Saratoga-Springs.org
Barb McGuire	Mechanicville	Off of Pub. Safety	barbara.mcguire@mechanicville.ny.gov
Dan Ball	Watkinsville	Town Board / WAD	danball001@gmail.com
Lori Proch	Saratoga Co.	Saratoga Co. Public Health	lproch@saratogacounty.ny.gov
Dave Robbins	Town of Charlton	Town Board	Councilmanrobbins@townofcharlton.org
Eileen Bennett	County of Saratoga	I.T.	ebennett@saratogacounty.ny.gov
DENNIS M. TOKCZYNSKI	T.O. Ballston	Local Em Mgt CMTT	dtokczynski@TownofBallston.ny.gov
Barbara Spaulding	DHSES	State of NY	barbara.spaulding@dhSES.ny.gov



Name	Jurisdiction	Office/Organization	Email Address
William Bills	SCSD <sup>#</sup>	Sewer Dept.	WBills@saratogaCounty.ny.gov
ANDREW MARSDEN	SARATOGA COUNTY	SEWER DISTRICT	AMARSDEN@SARATOGACOUNTY.NY.GOV
JOHN COOPER JR	TOWN OF HALFMOON	EMERGENCY SEWER CODE ENFORCEMENT	JCOOPER@TOWNOFHALFMOON.ORG
James Clark	Saratoga Co.	DPW	JClark@saratogaCountyNy.Gov
MATT DREIMILLER	TOWN OF MOREAU	BUILDING INSPECTOR	BUILDINGINSPECTOR@TOWNOF MOREAU.ORG
Bill Doughty	Town of Stillwater	Hwy Dept	stillwaterhighway2@gmail.com
MARK MINICK	TOWN OF STILLWATER	Hwy Dept	STILLWATERhighway@yahoo.com
CARL ZILMAN	County of Saratoga	OES	—
Christa Hay	DHSES	mutyashin	Christa.hay@DHSES.state.ny



# Mitigation Strategy Meeting



Saratoga County  
Multi-Jurisdictional Hazard Mitigation Plan Update

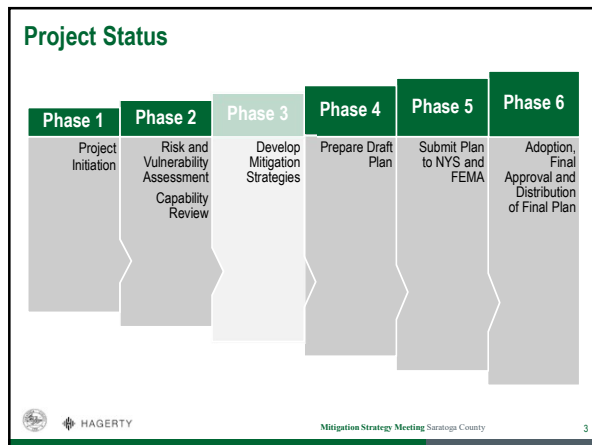


 Jim DeAngelo & Sydney Delmar  
Hagerty Consulting  
November 15, 2018

## Agenda

Time	Agenda Item
9:00 am – 9:10 am	Welcome & Introductions
9:10 am – 9:20 am	Mitigation Strategy Overview
9:20 am – 9:45 am	<i>Activity: Reviewing Previous Mitigation Actions</i>
9:45 am – 10:15 am	Developing New Mitigation Actions
10:15 am – 10:50 am	<i>Activity: Developing New Mitigation Actions</i>
10:50 am – 11:00 am	Project Next Steps, Questions, & Conclusion



 Mitigation Strategy Meeting Saratoga County



## Mitigation Strategy Overview



Review Previous Actions

Developing New Mitigation Actions

Next Steps



## Mitigation Strategy

- **Long-term blueprint** for reducing the potential losses identified in the Risk Assessment
- **Mitigation process:**
  1. Define the mitigation goals and objectives
  2. Review the implementation of the previous plan's actions
    - a) Document details of completed mitigation projects
  3. Identify new mitigation actions
  4. Prioritize actions and prepare an implementation strategy
  5. Document the mitigation planning process and integrate into local planning mechanisms



 Mitigation Strategy Meeting Saratoga County

## Mitigation Strategy

- **Mission Statement:**  
*Through partnerships and careful planning, identify and reduce the vulnerability to natural hazards in order to protect the general health, safety, welfare, quality of life, environment and economy of the residents and communities within Saratoga County.*
- **Goal 1:** Protect life and property
- **Goal 2:** Increase public awareness and preparedness of natural hazards and their risks
- **Goal 3:** Promote a sustainable economy
- **Goal 4:** Protect open space, the environment and natural resources
- **Goal 5:** Promote cooperation and county-wide partnerships



 Mitigation Strategy Meeting Saratoga County



## Mitigation Strategy Overview

### ◆ Review Previous Actions

Developing New Mitigation Actions

Next Steps

### Activity: Review Previous Actions

- Review all past mitigation actions and report implementation status
- Identify and document all completed mitigation projects, including those not in the previous action plan

*Please refer to the handout with your jurisdiction's previous mitigation action plan.*



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Mitigation Strategy Meeting Saratoga County

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## Mitigation Strategy Overview

Review Previous Actions

### ◆ Developing New Mitigation Actions

Next Steps

### 2019 Mitigation Action Plan

- 2019 Mitigation Action Plan will include the following:
  - Ongoing mitigation actions from the previous plan
  - New mitigation actions that address new risks
- Each annex will include a table with the new mitigation action plan
- Mitigation actions will be prioritized



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Mitigation Strategy Meeting Saratoga County

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### Types of Mitigation Actions

#### ▪ Prevention:

- Government, administrative or regulatory actions or processes that:
  - influence the way land and buildings are developed and built
  - includes public activities to reduce hazard losses
- Examples:
  - planning and zoning
  - floodplain local laws
  - capital improvement programs
  - open space preservation
  - storm water management regulations

#### Example:

*Improve the floodplain management ordinance to mandate floodplain studies for all future development. (prove no adverse impacts – hydraulic and hydrologic studies)*



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Mitigation Strategy Meeting Saratoga County

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### Types of Mitigation Actions

#### ▪ Property Protection:

- Actions that involve:
  - (1) modification of existing buildings or structures to protect them from a hazard or
  - (2) removal of the structures from the hazard area
- Examples include:
  - acquisition
  - elevation
  - relocation
  - structural retrofits
  - storm shutters and shatter-resistant glass

#### Example (from previous action plan):

*Where appropriate, support purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting.*



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Mitigation Strategy Meeting Saratoga County

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## Types of Mitigation Actions

### Public Education and Awareness:

- Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them
- Examples include:
  - outreach projects
  - real estate disclosure
  - hazard information centers
  - school-age and adult education programs

#### Example:

*Incorporate vulnerable and underserved populations as part of public outreach initiatives by identifying those at risk and conducting targeted outreach.*

## Types of Mitigation Actions

### Natural Resource Protection:

- Actions that minimize hazard loss and also preserve or restore the functions of natural systems
- Examples include:
  - sediment and erosion control
  - stream corridor restoration
  - watershed management
  - forest and vegetation management
  - wetland restoration and preservation

#### Example:

*Partner with the Capital/Mohawk and Adirondack Park Invasive Plant Program (APIPP) PRISMs to develop control measures and management plans for invasive species in Saratoga County.*

## Types of Mitigation Actions

### Emergency Services:

- Actions that protect people and property, during and immediately following, a disaster or hazard event
- Examples include:
  - warning systems
  - emergency response services
  - protection of essential facilities

#### Example:

*Develop a Drought Emergency Plan that addresses the economic, health, and environmental consequences of drought.*

## Types of Mitigation Actions

### Structural Projects:

- Actions that involve the construction of structures to reduce the impact of a hazard
- Examples include:
  - dams
  - setback levees
  - floodwalls
  - retaining walls
  - safe rooms

#### Example (from previous action plan):

*Implement dam structure repairs as required by dam safety report/protocols.*

## Mitigation Action Prioritization

### Benefit/Cost Review

Level	Benefits	Costs
High	Project will have an immediate impact on the reduction of risk exposure to life and property.	Existing funding levels are not adequate to cover the costs of the proposed project, and implementation would require an increase in revenue through an alternative source (for example, bonds, grants, and fee increases).
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property or will provide an immediate reduction in the risk exposure to property.	The project could be implemented with existing funding but would require a re-apportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
Low	Long-term benefits of the project are difficult to quantify in the short term.	The project could be funded under the existing budget. The project is part of or can be part of an existing, ongoing program.

## Mitigation Action Prioritization

Priority	Addresses Plan Goals and Objectives	Benefits & Cost	Funding	Timeframe
High	Multiple goals and objectives	Benefits greater than or equal to costs	Funding currently available through existing programs or funding authorizations, and is grant-eligible	Short-term (1 to 5 years)
Medium	At least one goal and objective	Benefits greater than or equal to costs	Funding not currently available and would require special funding authorization under existing program; grant eligibility questionable	Short-term (1 to 5 years)
Low	Mitigates the risk of a hazard	Benefits greater than or equal to costs	Funding not currently available and project not grant-eligible	Long-term (5 to 10 years)





## Key Contacts

**Jim DeAngelo**  
Project Manager  
Email: [jim.deangelo@hagertyconsulting.com](mailto:jim.deangelo@hagertyconsulting.com)  
Phone: 505.415.2649

**Sydney Delmar**  
Deputy Project Manager  
Email: [sydney.delmar@hagertyconsulting.com](mailto:sydney.delmar@hagertyconsulting.com)  
Phone: 703.350.9689

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# Mitigation Strategy Meeting Notes

Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update  
November 15, 2018 – 9:00 am – 11:00 am EST  
Saratoga County Office of Emergency Services

## Welcome & Introductions

Saratoga County Office of Emergency Services made introductions regarding the purpose of the meeting and project. Hagerty Consulting also further explained the purpose of the meeting and discussed the meeting agenda. Planning Committee members in attendance introduced themselves, identifying their municipality and position.

The project is in phase 3, when the plan's mitigation strategy is developed. Phase 4 will be completed in early December when the full draft plan is completed.

## Mitigation Strategy

### *Mitigation Strategy Purpose and Process*

Hagerty reviewed the mitigation strategy process and purpose. The process included the following steps:

1. Define the mitigation goals and objectives
2. Review the implementation of the previous plan's actions
  - a. Document details of completed mitigation projects
3. Identify new mitigation actions
4. Prioritize actions and prepare an implementation strategy
5. Document the mitigation planning process and integrate into local planning mechanisms

### *Mitigation Goals and Objectives Review*

Hagerty presented the proposed mitigation goals and objectives. During the presentation, stakeholders had the following comments:

- One stakeholder asked if there were severe repetitive loss and repetitive loss structures in Saratoga County. Hagerty identified the types of repetitive loss structures and the amount of repetitive losses in the Risk Assessment (this information was provided by FEMA Region II).
- A stakeholder commented that Objective 1-5 should also ensure that municipalities are aware of current and available climate modeling. It is also important to look at private and public structures in the floodplains. Strengthening private structures against flood risks also makes the community as a whole more resilient.

- There a variety of different grant programs available for pre- and post- mitigation strategies (including HMGP). Federal programs can be more competitive. \*NYS DHSES noted that there is HMGP funding available once damage assessments are completed (6-12 months out). NYS DHSES representatives will send out a link to the website where stakeholders can monitor the HMGP funding process and availability.
- One stakeholder commented that these objectives can be accomplished through numerous ongoing mitigation actions and grant funding available.
- A stakeholder noted that Objective 3-4 should also include judicial court system and law libraries (which are owned by the County but located in every municipality). It is the responsibility (cost) of the municipality to restore the Judicial system. Hagerty will update this objective to reflect this comment.
- There are mutual aid agreements in place through fire, rescue, and highway maintenance. One stakeholder asked if there is something we can do at the County level. The County explained that they are part of the State IMAP (Inter-State Municipal Agreement Plan), so Saratoga County municipalities have an agreement in place to obtain resources if needed.

## **Activity: Previous Action Plan**

Hagerty distributed each jurisdictions' previous mitigation action plan and asked the Planning Committee to review their previous actions and document the project status, limitations of the action, whether that action should be carried forward, and if anything about the previous action should be revised. The Planning Committee worked on this activity for about 10 minutes and will be given time between now and December 3<sup>rd</sup> to complete their review. Hagerty will distribute an electronic version of the mitigation action plan to Planning Committee members after the meeting that they can update.

## **Developing New Mitigation Actions**

Hagerty reviewed the purpose and content of the 2019 Mitigation Action Plan. The Action Plan will include actions carried over from the previous plan and additional actions that jurisdictions have created (if relevant). Hagerty reviewed the six types of mitigation actions and examples of each of these actions, including: prevention, property protection, public education and awareness, natural resource protection, emergency services, and structural projects.

Hagerty reviewed mitigation action prioritization, which uses the same criteria as the previous plan. This involves thinking about costs and benefits (each action should have benefits that equal or outweigh the costs to move forward for implementation). Prioritization should also consider funding, timeline, and whether the action meets mitigation goals and objectives.

Hagerty then instructed the Planning Team on how to complete the mitigation action activity. Each jurisdiction that was present worked on completing one NYS DHSES project action worksheet related to a flooding issue. Representatives from Hagerty Consulting and NYS DHSES assisted stakeholders with this exercise. Completed worksheets were collected at the conclusion of the meeting. Jurisdictions have until December 3 to complete both mitigation action worksheets.

## Next Steps

### *Hagerty Consulting*

1. Send meeting notes and attendance to Saratoga County Office of Emergency Services and Planning Committee members.
2. Follow up with meeting materials, including the NYS DHSES Mitigation Action Worksheet, the Previous Action Plan, and the presentation from the meeting.
3. Revise the Action Plan based on feedback received.
4. Finalize draft Plan.

### *Project Team*

1. Complete Hazard Ranking Form and Jurisdictional Annex. **(ASAP)**
2. Complete and return two NYS DHSES Action Worksheets for your jurisdiction (if your jurisdiction has any special flood hazard areas, one of your action worksheets must be flood-related). **(December 3, 2018)**
3. Review and update your jurisdiction's previous action plan. **(December 3, 2018)**
4. Develop new mitigation actions (if necessary or appropriate). **(December 3, 2018)**
5. Review draft Plan prior to the Plan Review Meeting. **(January 22, 2019)**

## Meeting Attendees

First Name	Last Name	Agency/Organization
Dave	Ball	Town of Waterford
William	Bills	Saratoga County Sewer Department
Tina	Carton	City of Saratoga Springs Mayor
John	Catone	Saratoga Springs PD
Jim	Clark	Saratoga County Department of Public Works
Richard	Colozza	Town of Northumberland Code Enforcement
John	Cooper	Town of Halfmoon Emergency Services Coordinator
Jim	DeAngelo	Hagerty Consulting
Sydney	Delmar	Hagerty Consulting
William	Doughty	Town of Stillwater Highway Department
Matt	Dreimiller	Town of Moreau Building Inspector
William	Flew	Town of Milton Building Department



First Name	Last Name	Agency/Organization
Christa	Hey	New York State Division of Homeland Security and Emergency Services
Andrew	Marsden	Saratoga County Sewer Department
Barb	McGuire	City of Mechanicville Office of Public Safety
Mark	Minick	Town of Stillwater Highway Superintendent
Steven	Myers	Town of Clifton Park Building and Development
Dennis	Pokrzywka	Ballston Emergency Management
Lori	Prock	Saratoga County Public Health
Marilyn	Rivers	City of Saratoga Springs Office of Risk and Safety
Dave	Robbins	Town of Charlton Town Board
Barbara	Spaulding	New York State Division of Homeland Security and Emergency Services
Mike	Stanley	Saratoga County OES
Emily	Votroubek	Hagerty Consulting
Carl	Zeilman	Saratoga County OES



# Mitigation Goals and Objectives

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## Goal 1. Protect life and property

**Objective 1-1:** Protect critical facilities and infrastructure.

**Objective 1-2:** Decrease the number of repetitive and severe repetitive loss properties.

**Objective 1-3:** Encourage the establishment of policies to help ensure the prioritization and implementation of mitigation actions and/or projects designed to benefit essential facilities, services, and infrastructure.

**Objective 1-4:** Implement mitigation actions that enhance the capabilities of the County to better profile and assess exposure of hazards.

**Objective 1-5:** Better characterize current and future flood/stormwater hazard events by conducting additional hazard studies, including climate modeling, and identify inadequate stormwater facilities and poorly drained areas.

**Objective 1-6:** Develop, maintain, strengthen and promote enforcement of ordinances, regulations, plans and other mechanisms that facilitate hazard mitigation.

**Objective 1-7:** Integrate the recommendations of this plan into existing local programs.

**Objective 1-8:** Ensure that development is done according to modern and appropriate standards, including the consideration of natural hazard risk.

**Objective 1-9:** Identify and pursue funding opportunities to develop and implement local and county mitigation activities.

## Goal 2. Increase public awareness and preparedness of natural hazards and their risks

**Objective 2-1:** Develop and implement program(s) to better understand and enhance the public's level of individual and household preparedness.

**Objective 2-2:** Develop and implement additional education and outreach programs to better understand and increase public awareness of hazard areas and the risks associated with hazards, and to educate the public on specific, individual and household preparedness activities.

**Objective 2-3:** Promote awareness among homeowners, renters, and businesses about obtaining insurance coverage available for natural hazards (i.e., flooding).

**Objective 2-4:** Encourage property owners to take preventive and mitigative actions in areas that are especially vulnerable to hazards.



**Objective 2-5:** Provide information on tools, partnership opportunities, funding resources, and current government initiatives to assist in implementing mitigation activities.

### **Goal 3. Promote a sustainable economy**

**Objective 3-1:** Encourage the establishment of policies to help ensure the prioritization and implementation of mitigation actions and/or projects designed to benefit essential facilities, services, and infrastructure.

**Objective 3-2:** Where appropriate, coordinate and integrate hazard mitigation actions with existing local emergency operations plans and business continuity plans.

**Objective 3-3:** Identify the need for, and acquire, any special emergency services, training, equipment, facilities and infrastructure to enhance response capabilities for specific hazards.

**Objective 3-4:** Ensure continuity of governmental operations, emergency services, and essential facilities at the local level during and immediately after disaster and hazard events.

**Objective 3-6:** Develop and maintain adequate services and utilities to serve the County's population and businesses.

### **Goal 4. Protect open space, the environment and natural resources**

**Objective 4-1:** Protect and preserve environmentally sensitive and critical areas.

**Objective 4-2:** Identify, protect and restore natural land and features that serve to mitigate losses from natural hazards (including wetlands, floodplains, stream corridors, hillsides and ridge lines).

**Objective 4-4:** Incorporate current and future hazard considerations into land-use planning and natural resource management.

**Objective 4-5:** Promote sustainable land development practices.

### **Goal 5. Promote cooperation and county-wide partnerships**

**Objective 5-1:** Maintain and expand shared services in acquiring, maintaining, and providing emergency services and equipment.

**Objective 5-2:** Strengthen inter-jurisdiction and inter-agency communication, coordination, and partnerships to foster hazard mitigation actions and/or projects.

**Objective 5-3:** Identify and implement ways to engage public agencies with individual citizens, non-profit organizations, business, and industry to promote hazard mitigation planning and implement mitigation actions more effectively.

# Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update

## *Plan Review Webinar*

**Thursday, January 10, 2019**  
10:00 AM – 11:00 AM EST

*Information about how to join the webinar will be  
shared a few days before the event.*



**Hosted By:**  
**Saratoga County**  
**Office of Emergency Services**



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**Saratoga County Multi-Jurisdictional Hazard Mitigation Plan  
Mitigation Strategy Meeting  
Saratoga County Office of Emergency Services  
Thursday, January 10, 2010 10:00 am – 11:00 am EST  
Webinar: <https://attendee.gotowebinar.com/register/237603758988799745>**

*Meeting Purpose: To evaluate and collect feedback from stakeholders to: 1) ensure accuracy; 2) bridge any information gaps; and 3) ensure that the HMP captures participation and coordination between Saratoga County municipalities.*

Topic	Time
Welcome & Introductions	10:00 am – 10:05 am
Project Overview	10:05 am – 10:10 am
Plan Review	10:10 am – 10:55 am
Next Steps and Questions	10:55 am – 11:00 am





# Plan Review Meeting

## Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update



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January 10, 2019

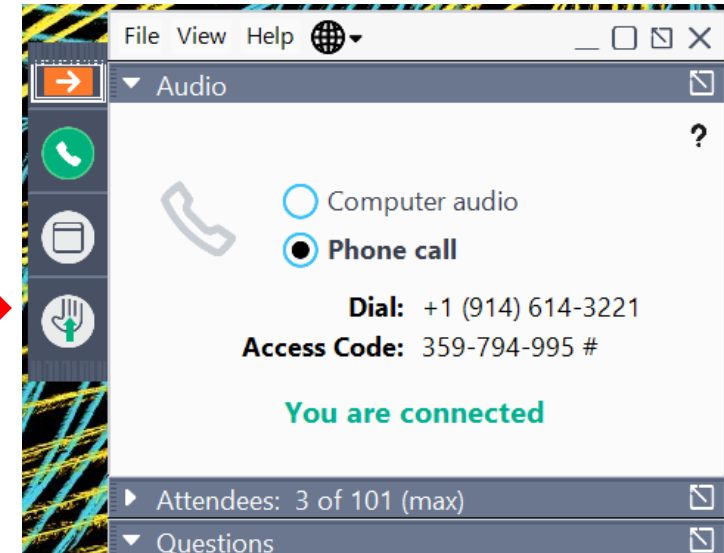
# Webinar Logistics

- Attendance:
  - Please use the chat box to communicate attendance, especially if there are multiple people in one room
  - Otherwise, email [Sydney.McKenna@hagertyconsulting.com](mailto:Sydney.McKenna@hagertyconsulting.com) to log your attendance
- All phone lines will be muted for the duration of the presentation



# Webinar Logistics

- For questions during the presentation, please use the **chat box**
- We will try to reserve at least 15 minutes at the **end of the presentation** for questions and will answer questions in the order they were received
- Use the “**Raise your Hand**” function if you would like to ask your question out loud. We will unmute phone lines this way



# ◆ Welcome

Project Overview

Plan Review

Next Steps & Questions

# Agenda

Agenda Item	Notes
Welcome, Logistics & Agenda	
Project Overview	Status of project to date
Plan Review	Section 8: Planning Partnership Section 9: Jurisdictional Annexes  Section 1: Introduction Section 2: Plan Adoption Section 3: Planning Process Section 4: County Profile Section 5: Risk Assessment Section 6: Mitigation Strategy Section 7: Plan Maintenance Appendices
Next Steps and Questions	





Welcome

- ◆ **Project Overview**

Plan Review

Next Steps & Questions

# Project Overview

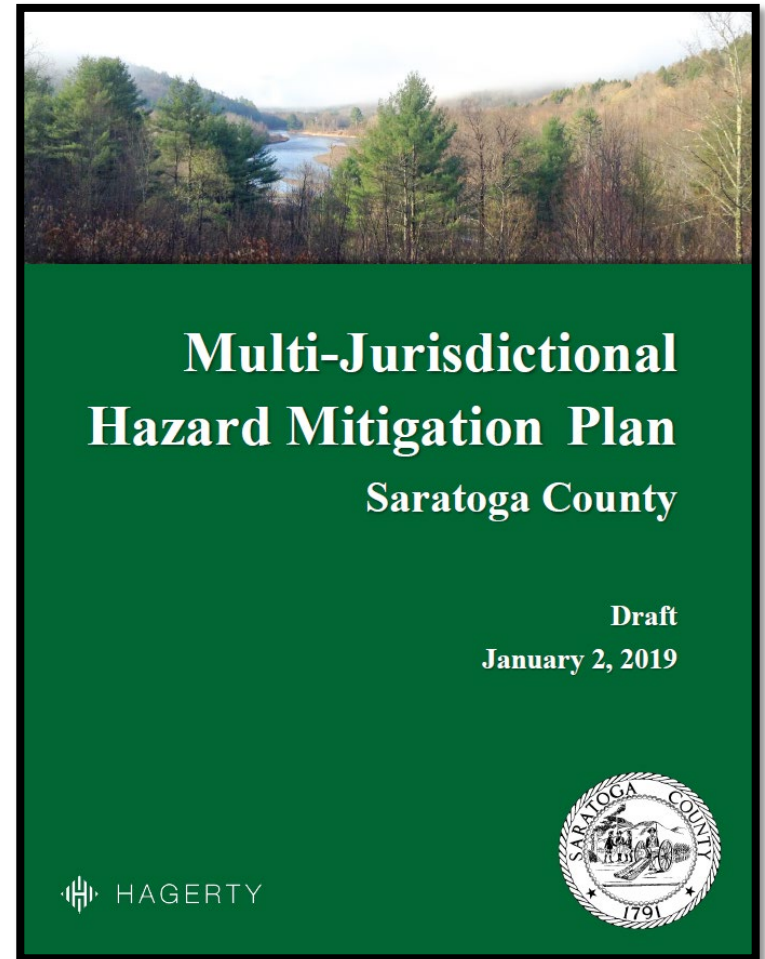
## Mitigation Planning Process:

- Phase 1: Project Initiation
- Phase 2: Hazard Analysis and Risk Assessment
- Phase 3: Assess and Update Mitigation Strategies
- **Phase 4: Prepare and Review Draft Plan**
- Phase 5: Submit Plan to New York State and FEMA
- Phase 6: Approval and Adoption



# Project Next Steps

- During today's meeting:
  - Review draft plan contents and organization
  - Identify areas to focus your review to ensure accuracy and bridge any information gaps
  - Discuss review process and timeline
- After today's meeting:
  - Plan will be submitted to New York State and FEMA Region II for review and approval
  - Participating jurisdictions will adopt the plan



Welcome

Project Overview

◆ Plan Review

Section 8: Planning Partnership

Next Steps & Questions

# Section 8: Planning Partnership

## Background (8.1)

## The Planning Partnership (8.2)

- Initial Solicitation and Letters of Intent (8.2.1)
- Jurisdiction Annex Updates (8.2.2)
- Benefit/Cost Review (8.2.3)
- Completion of the Planning Process (8.2.4)





Welcome

Project Overview

◆ Plan Review

Section 9: Jurisdictional Annexes

Next Steps & Questions

# Section 9: Jurisdictional Annexes

Towns	Villages	Cities
Town of Ballston	Village of Ballston Spa	City of Mechanicville
Town of Charlton	Village of Corinth	City of Saratoga Springs
Town of Clifton Park	Village of Galway	
Town of Corinth	Village of Round Lake	
Town of Day	Village of Schuylerville	
Town of Edinburg	Village of South Glens Falls	
Town of Galway	Village of Stillwater	
Town of Greenfield	Village of Victory	
Town of Hadley	Village of Waterford	
Town of Halfmoon		
Town of Malta		
Town of Milton		
Town of Moreau		
Town of Northumberland		
Town of Providence		
Town of Saratoga		
Town of Stillwater		
Town of Waterford		
Town of Wilton		



# Section 9: Jurisdictional Annexes

- Each annex was updated based on the following information submitted by each jurisdiction:
  - Hazard Ranking Form
  - Hazard Event History Worksheet
  - Jurisdictional Annex Update Form (contact information, profile, growth/development, capability assessment)
  - Review of previous plan's mitigation actions spreadsheet
  - Two NYS Mitigation Action Worksheets

## 9.1 Saratoga County

This section presents the jurisdictional annex for Saratoga County. The county provided the following updates that were incorporated into this annex:

- Jurisdictional Annex Update Form (Contact Information, Profile, and Capability Assessment)
- Hazard Ranking
- NYS Mitigation Action Worksheets

### 9.1.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Carl Zellman, Director 25 West High Street, Ballston Spa, NY 12020 (518) 885 – 2232 czellman@saratogacountyny.gov	Mike Stanley, Emergency Services Specialist 25 West High Street, Ballston Spa, NY 12020 (518) 885 – 2232 mstanley@saratogacountyny.gov

### 9.1.2 County Profile

Please refer to Section 4 of this Plan for details on Saratoga County's population, location, climate, history, growth and development.

### 9.1.3 County-Specific Hazard Information

Detailed hazard event histories can be found in the Previous Occurrences and Losses sections of each hazard profile in Section 5. Table 9.1-1 summarizes Saratoga County's ranking of the hazards based on the probability of occurrence and impacts to the county.

Table 9.1-1 Saratoga County Hazard Ranking

Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score <sup>a</sup>	Hazard Ranking <sup>b</sup>
8	Drought	Infrequent	16	Low
7	Earthquake	Rare	17	Low
2	Extreme Temperature	Frequent	48	High
1	Flood (riverine, flash, coastal and urban flooding)	Frequent	56	High
4	Ground Failure	Regular	39	Medium
6	Invasive Species	Frequent	24	Medium
3	Severe Storm (windstorms, thunderstorms, hail, lightning and tornadoes)	Frequent	48	High

Multi-Jurisdictional Hazard Mitigation Plan  
Saratoga County, New York  
January 2, 2019

9.1.1



Activity	City of Mechanicville	City of Saratoga Springs	Town of Ballston	Town of Charlton	Town of Clifton Park	Town of Corinth	Town of Day	Town of Edinburg	Town of Galway	Town of Greenfield	Town of Hadley	Town of Halfmoon	Town of Malta	Town of Milton	Town of Moreau	Town of Northumberland	Town of Providence	Town of Saratoga	Town of Stillwater	Town of Waterford	Town of Wilton	Village of Ballston Spa	Village of Corinth	Village of Galway	Village of Round Lake	Village of Schuylerville	Village of South Glens Falls	Village of Stillwater	Village of Victory	Village of Waterford	Saratoga OES
Pre-Project Meeting																															X
Kickoff Meeting	X	X	X		X					X		X	X			X		X	X	X	X							X			X
Risk Assessment Hazard Worksheet		X	X									X									X										X
Critical Facility Input	X	X	X						X	X			X		X			X		X	X										X
Risk Assessment and Capability Review Meeting		X	X	X	X								X			X			X	X	X		X								X
Hazard Ranking Form	X	X	X	X	X	X						X	X			X			X	X	X										X
Jurisdictional Annex Form - Capability Review	X	X	X	X	X	X		X				X	X			X	X		X	X	X	X			X			X			X
Mitigation Strategy Meeting	X	X	X	X	X							X		X	X	X			X	X											X
Review Previous Plan Mitigation Actions		X	X		X							X					X														X
Complete Two NYS Mitigation Action Worksheets		X	X	X	X	X	X			X	X		X	X	X	X	X									X	X				X



# Participating Jurisdictions

Towns	Villages	Cities
Town of Ballston	Village of Ballston Spa	City of Mechanicville
Town of Charlton	Village of Corinth	City of Saratoga Springs
Town of Clifton Park	Village of Galway	
Town of Corinth	Village of Round Lake	
Town of Day	Village of Schuylerville	
Town of Edinburg	Village of South Glens Falls	
Town of Galway	Village of Stillwater	
Town of Greenfield	Village of Victory	
Town of Hadley	Village of Waterford	
Town of Halfmoon		
Town of Malta		
Town of Milton		
Town of Moreau		
Town of Northumberland		
Town of Providence		
Town of Saratoga		
Town of Stillwater		
Town of Waterford		
Town of Wilton		





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Project Overview

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Section 1: Introduction

Next Steps & Questions

# Section 1: Introduction

## Background (1.1)

- Foundation for Hazard Mitigation Planning (1.1.1)
- Participation in the Planning Process(1.1.2)
- Multiple Agency Support for Hazard Mitigation (1.1.3)

## Implementation of the Planning Process (1.2)

- Benefits of Mitigation Planning (1.2.1)
- Plan Organization (1.2.2)



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Project Overview

◆ Plan Review

Section 2: Plan Adoption

Next Steps & Questions

# Section 2: Plan Adoption

## Plan Adoption by Local Governing Bodies (2.1)

- After NYS DHSES and FEMA provide conditional approval of this Plan, municipalities meeting all plan requirements will be allowed to formally adopt the Plan.
- Each participating jurisdiction must submit a copy of the resolution or other legal instrument showing formal adoption of the Plan to NYS DHSES.
- Resolutions issued to support adoption of the plan will be contained in Appendix B. These will then be submitted to FEMA.



Welcome

Project Overview

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Section 3: Planning Process

Next Steps & Questions



# Section 3: Planning Process

## Introduction (3.1)

## The Planning Process (3.2)

- Roles and Responsibilities (3.2.1)
- Meetings (3.2.2)
- Outreach (3.2.3)
  - Additional stakeholders
  - Newsletters
  - Online survey
- Participation (3.2.4)
  - HMP Update Participation Matrix (Table 3-3)



# Section 3: Planning Process

## Coordination with Existing Planning Efforts and Programs (3.3)

- Hazard Mitigation Assistance Grant Programs (3.3.1)
- National Flood Insurance Program (3.3.2)
- Community Rating System (3.3.3)

## Integrating of Existing Data into Mitigation Plan (3.4)

- Local Data (3.4.1)
- Federal and State Data (3.4.2)



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Section 4: County Profile

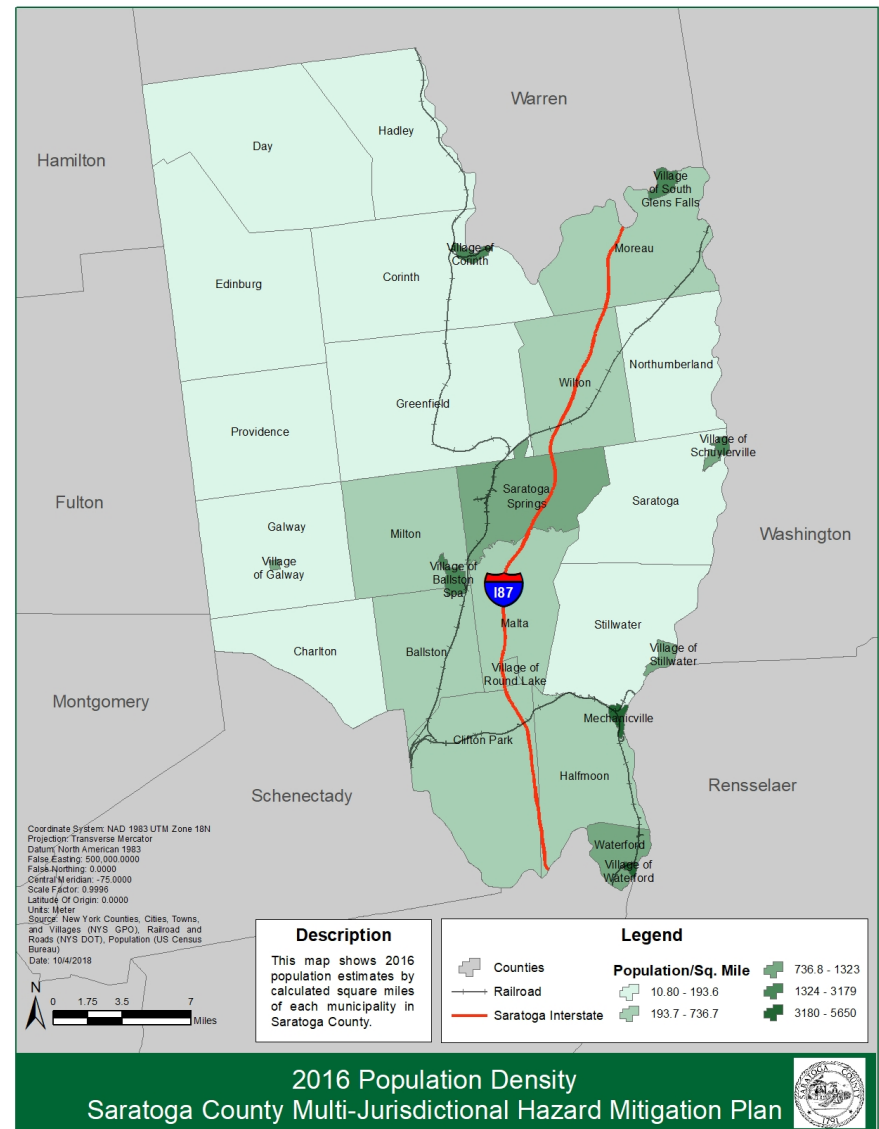
Next Steps & Questions

# Section 4: County Profile

## Location and Historical Context (4.1)

## Current Conditions (4.2)

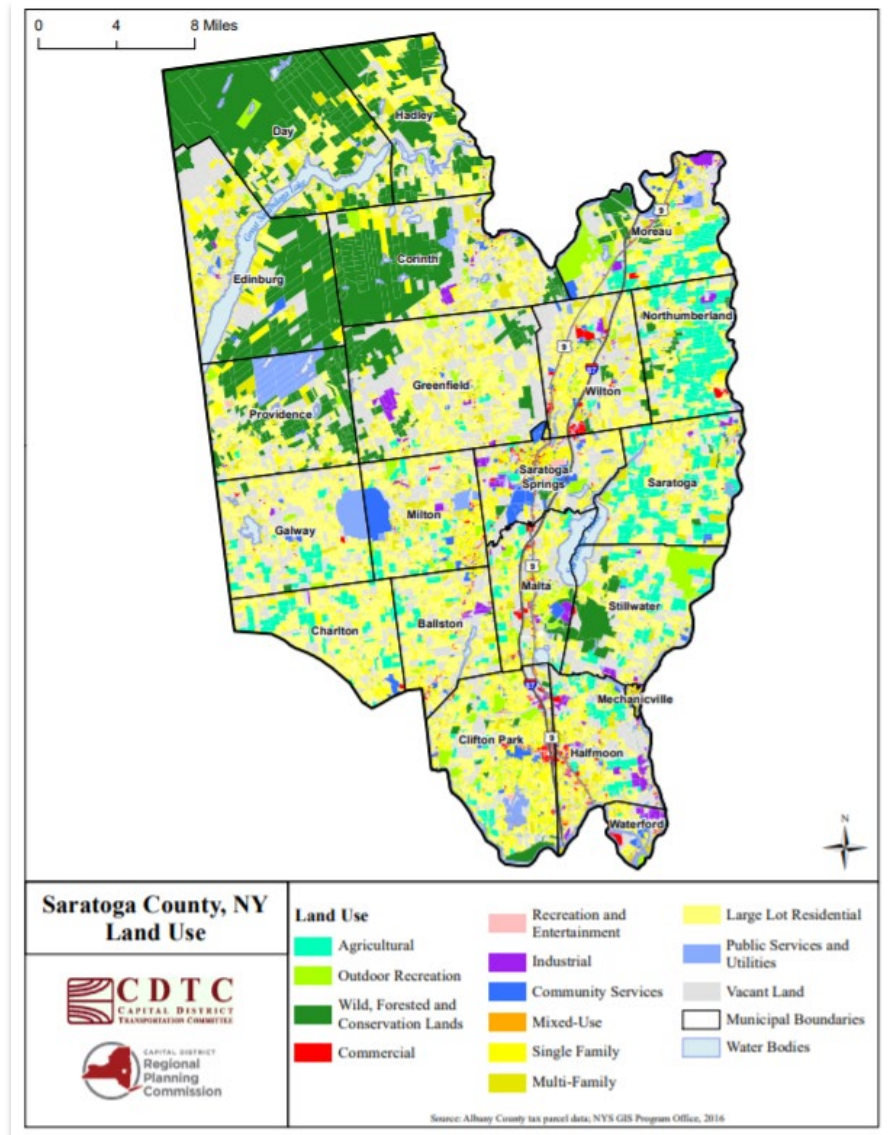
- Population (4.2.1)
  - Population Estimate (2016): 224,929
- Demographics (4.2.2)
- Economy (4.2.3)
  - Major Employers include: GlobalFoundries, Saratoga Hospital, and Shenendehowa Central School District



# Section 4: County Profile

## Current Conditions (4.2) Cont.

- Natural Environment (4.2.4)
  - Geology
  - Hydrology and Hydrography
    - Hudson River Basin
    - Mohawk River Basin
  - Climate
  - Land Use and Land Cover
    - Agricultural land vs. developed land





# Section 4: County Profile

## Future Conditions (4.3)

- Population Trends (4.3.1)
- Land Use Trends (4.3.2)

Saratoga County Population Trends						
1990	2000	2010	2020	2030	2040	2050
181,276	200,635	219,607	234,358	246,253	251,049	252,153

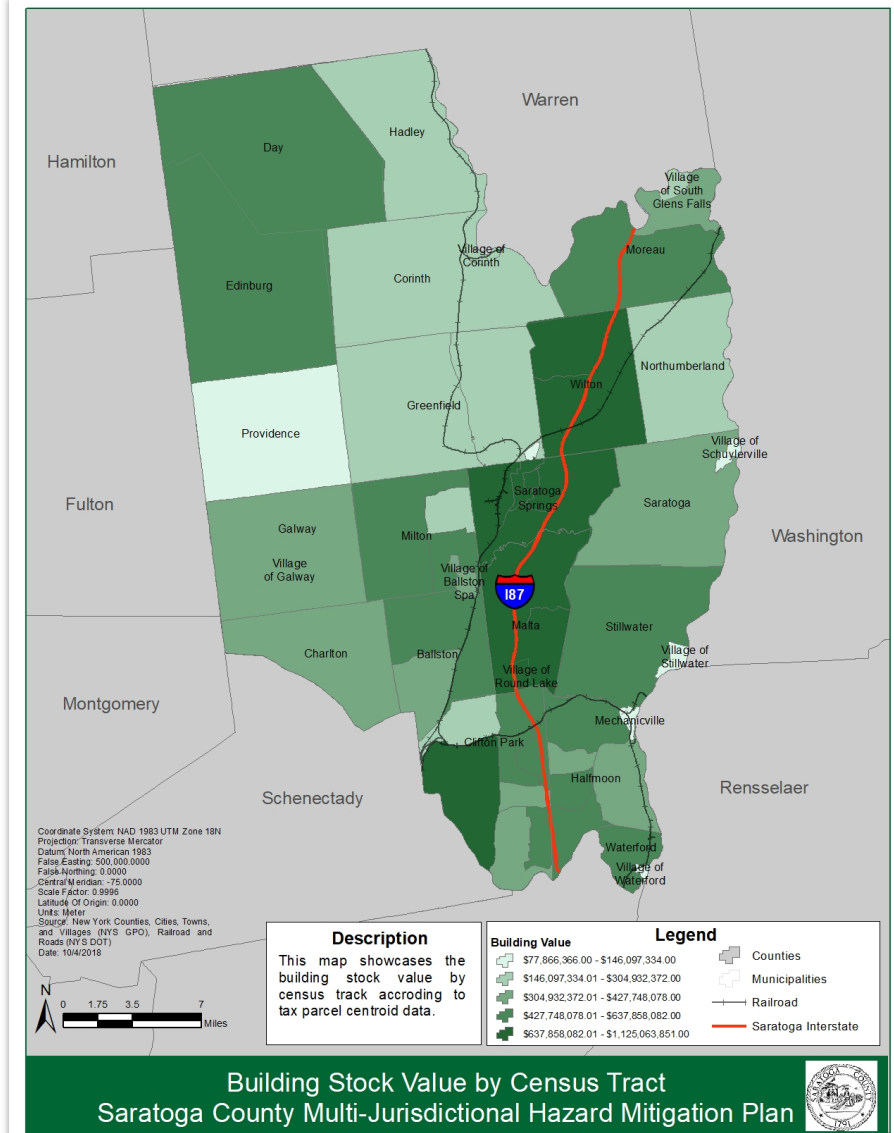


# Section 4: County Profile

## General Building Stock (4.4)

## Critical Facilities (4.5)

- 4.5.1 Essential Facilities
- 4.5.2 Transportation Systems
- 4.5.3 Lifeline Utility Systems
- 4.5.4 High Potential Loss Facilities



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Section 5: Risk Assessment

Next Steps & Questions

# Section 5: Risk Assessment

## Methodology, Data, and Tools (5.1)

- Methodology (5.1.1)
- Data and Tools (5.1.2)
  - Storm Events Database
  - Disaster Declarations
    - 16 Disaster Declarations between 1987 – 2018
    - Two declarations since previous plan (Hurricane Irene and Winter Snowstorm Stella)
  - GIS Datasets
  - Hazus

## Hazard Identification (5.2)



# Section 5: Risk Assessment

## Hazard Ranking (5.3)

- Hazard Ranking Methodology (5.3.1)
- Probability of Occurrences (5.3.2)
  - Rare (Hazard event occurs less than once in 50 years)
  - Infrequent (Hazard event occurs once in 8 to 50 years)
  - Regular (Hazard event occurs once in 1 to 7 years)
  - Frequent (Hazard event occurs annually)
- Impact (5.3.3)
  - Population
  - Property
  - Economy
- Risk Ranking Value (5.3.4)
  - Impact Value (1, 2, or 3) X Impact Value (6 to 18) = Hazard Ranking Value





# Section 5: Risk Assessment

## Hazard Ranking (5.3) Cont.

### ■ Hazard Ranking Results (5.3.5)

Hazard	Probability of Occurrence (1-4)	Impact Ranking	Risk Ranking Score	Hazard Ranking	Overall Ranking
Flood (riverine, flash, ice jam, beaver dam, and elevated groundwater)	4	14	56	1	High
Severe Storm (windstorm, thunderstorms, hail, tornadoes, and hurricanes/tropical storms)	4	12	48	2	High
Extreme Temperatures	4	12	48	3	High
Ground Failure (Landslides)	3	13	39	4	Medium
Severe Winter Storm (heavy snow, blizzards, ice storms, Nor'easters)	4	9	36	5	Medium
Wildfire	1	8	26	6	Medium
Invasive Species	4	6	24	7	Medium
Earthquake	1	17	17	8	Low
Drought	2	8	16	9	Low



# Section 5: Risk Assessment

## Hazard Ranking (5.3) Cont.

- County Emergency Preparedness Assessment Ranking Results (5.3.6)

Hazard	Likelihood	Consequence	Relative High-Risk Score
Flooding	High	High	16
Ice Storms	High	High	16
Severe Wind/Tornado	High	High	16
Severe Winter Snowstorms	High	Medium	12
Extreme Temperatures	Medium	Medium	9
Earthquake	Low	High	8
Hurricanes/Tropical Storms	Low	High	8
Wildfire	Low	Medium	6
Drought	Low	Low	4
Landslides	Low	Low	4



# Section 5: Risk Assessment

## Summary of Changes (5.4)

- Added three new hazard profiles: Drought, Extreme Temperatures, and Wildfire
- Updated the hazard ranking criteria (align with the 2014 NYS HMP)
- Updated Hazus analysis (using 2010 Census data and general building stock based on 2014 RS Means)
- NOAA NCEI Storm Events Data updated through 2018
- Disaster declarations updated through 2018
- Updated exposure analysis completed using NYS Statewide Tax Parcel Centroid Points (August 2018)



# Section 5: Risk Assessment

**Drought (5.5)**

**Earthquake (5.6)**

**Extreme Temperatures (5.7)**

**Flood (5.8)**

**Ground Failure (5.9)**

**Invasive Species (5.10)**

**Severe Storm (5.11)**

**Severe Winter Storm (5.12)**

**Wildfire (5.13)**



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Section 6: Mitigation Strategy

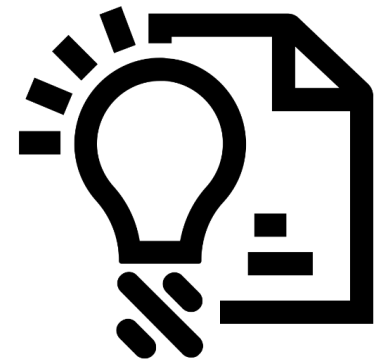
Next Steps & Questions

# Section 6: Mitigation Strategy

## Background and Past Accomplishments (6.1)

## General Mitigation Planning Approach (6.2)

- Guiding Principle, Mitigation Goals, and Objectives (6.2.1)
  - Goal 1: Protect life and property
  - Goal 2: Increase public awareness and preparedness of natural hazards and their risks
  - Goal 3: Promote a sustainable economy
  - Goal 4: Protect open space, the environment and natural resources
  - Goal 5: Promote cooperation and county-wide partnerships



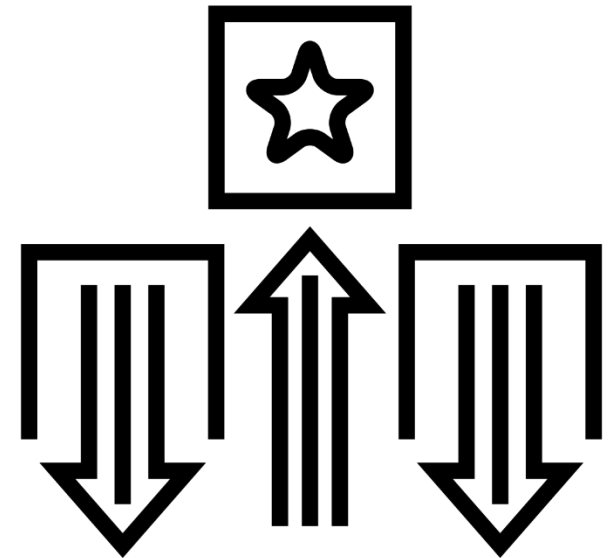


# Section 6: Mitigation Strategy

## Capability Assessment (6.3)

## Identification, Prioritization, Analysis, and Implementation of Mitigation Actions (6.4)

- Mitigation Strategy Review and Development (6.4.1)
- 2019 Mitigation Action Plan (6.4.2)
- Prioritization (6.4.3)
  - High Priority
  - Medium Priority
  - Low Priority
- Benefit and Cost Review (6.4.4)



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Section 7: Plan Maintenance

Next Steps & Questions

# Section 7: Plan Maintenance

## Monitoring, Evaluating, and Updating the Plan (7.1)

- Monitoring (7.1.1)
- Evaluating (7.1.2)
- Updating (7.1.3)

## Implementation of the Mitigation Plan Through Existing Programs (7.2)

- Continued Public Involvement (7.2.2)



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Appendices

Next Steps & Questions

# Appendices

**Appendix A: Sample Adoption Resolution**

**Appendix B: Planning Process**

**Appendix C: Risk Assessment**

**Appendix D: Mitigation Strategies**

**Appendix E: Mitigation Programs**

**Appendix F: Mass Care and Sheltering Annex**

**Appendix G: Linkage Procedures**

**Appendix H: Critical Facilities (redacted)**



HAGERTY

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Project Overview

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◆ Next Steps & Questions



# Adjudication Matrix

- Use the Adjudication Matrix to track all comments
- Send all feedback to  
[Sydney.McKenna@hagertyconsulting.com](mailto:Sydney.McKenna@hagertyconsulting.com)
- All feedback needed **no later than January 24, 2019**

Name					
Title, Organization					
Contact Phone Number					
Contact Email					
Section Name	Section #	Page #	Comment	Recommendation	Priority (H/M/L)



# Key Contacts

**Project Manager:**

**Jim DeAngelo**

Senior Managing Associate

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Phone: 505.415.2649

**Deputy Project Manager:**

**Sydney McKenna**

Managing Associate

Email:

[sydney.mckenna@hagertyconsulting.com](mailto:sydney.mckenna@hagertyconsulting.com)

Phone: 703.350.9689

# Plan Review Webinar Notes

Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update  
January 10, 2019, 10:00 am – 11:00 am EST  
Saratoga County Office of Emergency Services

## Welcome & Introductions

Hagerty Consulting introduced the presentation and provided an overview of the logistics of the presentation. Saratoga County Office of Emergency Services (Carl Zeilman and Michael Stanley) thanked attendees for their participation and discussed their pride in the results of the project so far. Hagerty discussed how we are in Phase 4 of the project, which includes reviewing the draft hazard mitigation plan (HMP). Planning Committee members should continue to submit all feedback to Sydney McKenna. Hagerty also noted that the HMP is currently on the County's website, along with a survey for the public to submit feedback about the plan.

## Plan Review

### *Section 8: Planning Partnership*

Provided a brief overview of the Planning Partnership section of the Plan.

### *Section 9: Jurisdictional Annexes*

- Hagerty noted that they carried forward most of the information, but updated the annexes based on the feedback provided by the jurisdictions
- Updates are based on the Hazard Ranking Form, Hazard Event History Worksheet, Jurisdictional Annex Form, Previous Plan's Mitigation Actions Spreadsheet, and two NYS Mitigation Action Worksheets
- Hagerty pointed to the tracking spreadsheet in order ensure your jurisdiction has provided all of the feedback requested
  - Hagerty emphasized the need for every jurisdiction to complete two NYS Mitigation Action Worksheets in order to be considered a participating jurisdiction and be permitted to adopt the plan.

### *Section 1: Introduction*

Provided a brief overview of the Introduction section of the Plan.

### *Section 2: Plan Adoption*

Emphasized that plan adoption is required for full approval of the plan. First, NYS DHSES and FEMA provide conditional approval of the Plan. After NYS DHSES and FEMA provide conditional approval of this Plan, municipalities meeting all plan requirements will be allowed to formally adopt the Plan. Each participating jurisdiction must submit a copy of the resolution or other legal instrument showing formal adoption of the Plan to NYS DHSES.

### ***Section 3: Planning Process***

Provided a brief overview of the section, including a brief overview of the planning process thus far. Noted that the participation matrix discussed previously is located in this section (and easier to read in the document, compared with the spreadsheet). Also included an overview of data and plan integration.

### ***Section 4: County Profile***

The county profile outlines relevant county demographic, geographic, and other types of information relevant to risk analysis. Presenter provided a brief overview of the section, including which current and future conditions are discussed.

### ***Section 5: Risk Assessment***

Hagerty provided an overview of the risk assessment methodology and the updates made to the Plan. Hagerty reviewed the hazard ranking that resulted from the Risk Assessment and the County Emergency Preparedness Assessment Results. These hazard rankings can help inform the creation and prioritization of mitigation actions. Four new hazards were added in this plan update (Drought, Invasive Species, Extreme Temperature, and Wildfire).

### ***Section 6: Mitigation Strategy***

Hagerty reviewed the updates to this section, including the identification of mitigation projects completed since the previous plan (found in Appendix D). Hagerty also reviewed the goals and objectives and noted that for the most part they stayed the same. This section also includes the capability assessment and an overview of how mitigation actions were prioritized, analysed, and implemented. This section summarizes the methodology used to develop the mitigation strategy, however the actual mitigation action plans are located in each of the jurisdictional annexes in Section 9.

### ***Section 7: Plan Maintenance***

Provided an overview of this section, outlining the various updates made to this section, including new point of contacts in Table 7-1. Hagerty emphasized how plan maintenance is critical to creating a living document and is also a FEMA requirement. Hagerty stressed the importance in involving the public in the plan maintenance process, inviting them to annual meetings and helping them better understand the purpose of hazard mitigation.

## Appendices

Provided an overview of each appendix of the Plan.

## Next Steps

- Review Draft Plan using the adjudication matrix and send feedback to Sydney.McKenna@hagertyconsulting.com (**January 24, 2019**)

## Meeting Attendees

First Name	Last Name	Agency/Organization
David	Ball	Town of Waterford
Michelle	Bohrson	Hagerty Consulting
John	Cooper	Town of Halfmoon Emergency Services Coordinator
Sydney	Delmar	Hagerty Consulting
Steven	Gordon	Saratoga County Sheriff's Office
Paul	Hoole	FEMA Region II
Kevin	King	Town of Malta Emergency Service/Comptroller
Steven	Myers	Town of Clifton Park Building and Development
Lou	Pasquarell	Town of Clifton Park Public Safety
Dennis	Pokrzywka	Ballston Emergency Management
Dave	Robbins	Town of Charlton Town Board
Barbara	Spaulding	New York State Division of Homeland Security and Emergency Services
Mike	Stanley	Saratoga County OES
Joseph	Whalen	Town of Ballston Deputy Supervisor, Highway and Water Superintendent
George	Whitney	Town of Providence Highway Superintendent
Carl	Zeilman	Saratoga County OES

# Hazards Summary Worksheet

Hazard	Location (Geographic Area Affected)	Previous Events (last 10 years)	Impacts on Economy	Impacts on Future Development	Impacts on Life, Health, and Safety	Impacts on Infrastructure
<b>EXAMPLE: Extreme Temperature (Heat and Cold)</b>	<p><b>Example:</b> <i>Extensive - 75 to 100 percent of planning area affected</i></p> <p><b>For reference:</b> <b>Negligible:</b> Less than 10 percent of planning area or isolated single-point occurrences <b>Limited:</b> 10 to 25 percent of the planning area or limited single-point occurrences <b>Significant:</b> 25 to 75 percent of planning area or frequent single-point occurrences <b>Extensive:</b> 75 to 100 percent of planning area or consistent single-point occurrences</p>	<p><b>Example:</b> <i>Extreme heat events: July 2011, June 2016</i></p> <p><i>Extreme cold events: December 2012, February 2017</i></p> <p><i>(please note these are fake dates for the puposes of an example)</i></p>	<p><b>Example:</b> <i>[describe the impacts that extreme temperature events can have on the economy of the planning area, including individual jurisdictions; can be based on possible impacts and impacts observed historically]</i></p>	<p><b>Example:</b> <i>[describe how plans for future development may be impacted by extreme temperature events; since Saratoga County is experiencing a lot of growth and new development, it's putting more people in harms way; potentially people who don't fully understand the hazards that impact the area]</i></p>	<p><b>Example:</b> <i>[describe the impacts that extreme temperature events can have on the life, health, and safety of people in the planning area; can be based on possible impacts and impacts observed historically]</i></p>	<p><b>Example:</b> <i>[describe the impacts that extreme temperature events can have on the infrastructure (critical facilities, utilities, etc) in the planning area; can be based on possible impacts and impacts observed historically]</i></p>





<b>Name:</b>		<b>Jurisdiction:</b>		<b>Office/Department:</b>		
<b>Hazard</b>	<b>Location (Geographic Area Affected)</b>	<b>Previous Events (last 10 years)</b>	<b>Impacts on Economy</b>	<b>Impacts on Future Development</b>	<b>Impacts on Life, Health, and Safety</b>	<b>Impacts on Infrastructure</b>
<b>Extreme Temperatures (Heat and Cold)</b>						
<b>Drought</b>						



Hazard	Location (Geographic Area Affected)	Previous Events (last 10 years)	Impacts on Economy	Impacts on Future Development	Impacts on Life, Health, and Safety	Impacts on Infrastructure
<b>Earthquake</b>						
<b>Flood</b> (riverine, flash, ice jam, dams (beaver and manmade), elevated groundwater)						
<b>Ground Failure</b> (landslide, landsubsidence)						



Hazard	Location (Geographic Area Affected)	Previous Events (last 10 years)	Impacts on Economy	Impacts on Future Development	Impacts on Life, Health, and Safety	Impacts on Infrastructure
<b>Infectious Disease</b>						
<b>Severe Winter Weather</b> (Ice storm, nor'easters, heavy snow, blizzards, freezing rain/sleet)						
<b>Severe Storm</b> (hurricane, windstorm, thunderstorm, lightning, tornados, hail, microbursts)						



Hazard	Location (Geographic Area Affected)	Previous Events (last 10 years)	Impacts on Economy	Impacts on Future Development	Impacts on Life, Health, and Safety	Impacts on Infrastructure
Wildfire						



# Natural Hazard Risk Ranking Exercise

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**Jurisdiction:** \_\_\_\_\_

Please complete this form during the breakout session of the Risk Assessment and Capability Review Meeting.

Please use the space below to list the name, position, and agency of the participant(s) completing this form.

Name	Position	Agency

## Natural Hazard Risk Ranking

Hazard Type	Probability of Occurrence (1 – 4)	Impact				Ranking	
		Population (1 – 3)	Property (1 – 3)	Economy (1 – 3)	Impact Score (Population x 3 + Property x 2 + Economy x 1)	Risk Ranking Score (Probability x Impact)	Hazard Ranking
Drought							
Earthquake							
Extreme Temperatures							
Flooding (riverine, flash, ice jam, beaver dam, and elevated groundwater flooding)							
Ground Failure (landslides)							
Invasive Species							
Severe Storm (windstorms, thunderstorms, hail, tornadoes, and hurricanes/tropical storms)							
Sever Winter Storm (heavy snow, blizzards, ice storms, Nor'easters)							
Wildfire							



# Jurisdictional Annex Update Form

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## Jurisdiction

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This form will be used to update your jurisdiction's annex in the 2019 Saratoga County Multi-Jurisdictional Hazard Mitigation Plan Update. Use this form to document all changes that should be made to your jurisdiction's annex from the county's previous plan. Please return all completed forms to Sydney Delmar, with Hagerty Consulting, at [sydney.delmar@hagertyconsulting.com](mailto:sydney.delmar@hagertyconsulting.com), no later than October 25<sup>th</sup>, 2018.

## Person Completing this Form

Name	Position & Agency

## Hazard Mitigation Plan Point of Contact

Please update your jurisdictions primary point of contact and alternate point of contact for the Saratoga County Hazard Mitigation Plan below.

Primary Point of Contact	Alternate Point of Contact
Name & Title:	Name & Title:
Mailing Address:	Mailing Address:
Phone:	Phone:
Email:	Email:

## Town Profile

### Population

Hagerty will update all of Saratoga County's jurisdictional annexes with new population information from the U.S. Census Bureau.

### Location

Please provide specific changes to your jurisdiction's location description below:

### Climate

Please provide specific changes to your jurisdiction's climate description below:

## **Brief History**

Please provide specific changes to your jurisdiction's brief history description below:

## **Governing Body Format**

Please provide specific changes to your jurisdiction's governing body format description below:

## **Growth/Development Trends**

Please provide specific changes to your jurisdiction's growth/development below. Please include details of property name, type (residential or commercial), number of structures, address, block and lot, and status.

## Capability Assessment

Please review the capability assessment in your jurisdiction's annex from the previous plan. Mark any corrections you have to the contents of these tables in the blank tables provided below. Leaving the cell blank indicates that what is in the previous plan is still **CORRECT**.

### Legal and Regulatory Capability

Describe the legal authorities available to your community and/or enabling legislation at the state level affecting all types of planning and land management tools that can support hazard mitigation initiatives. Complete the table as indicated. Which of these regulatory tools does your community have available? If you do not have the regulatory tool as described, indicate as such. This may help you identify an initiative.

For the purposes of this section, "prohibitions" and "higher jurisdictional authority" are defined as follows:

- Prohibitions: Are there any regulations or laws that may prohibit an initiative you have selected. Examples would be: floodway regulations, Endangered Species Act or Clean Water act regulations, etc.
- Higher Regulatory Authority: Are there regulations that may impact your initiative that are enforced or administered by another agency. For example; a state agency, special purpose district.

Please use the last column of the table to site the code or ordinance # and its date of adoption.

Regulatory Tools (Codes, Ordinances, Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
1) Building Code					
2) Zoning Ordinance					
3) Subdivision Ordinance					
4) NFIP Flood Damage Prevention Ordinance (if you are in the NFIP, you <b>must</b> have this.)					
5) Growth Management					

Regulatory Tools (Codes, Ordinances, Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
6) Floodplain Management / Basin Plan					
7) Stormwater Management Plan/Ordinance					
8) Comprehensive Plan / Master Plan/ General Plan					
9) Capital Improvements Plan					
10) Site Plan Review Requirements					
11) Open Space Plan					
12) Economic Development Plan					
13) Emergency Response Plan					
14) Post Disaster Recovery Plan					
15) Post Disaster Recovery Ordinance					
16) Real Estate Disclosure req.					
17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]					



## Administrative and Technical Capability

This section requires you to take inventory of the staff/personnel resources available to your community to help your community in hazard mitigation planning and implementation of specific mitigation actions. This information can be utilized in the preparation of the mitigation strategy for your community

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices		
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure		
3) Planners or engineers with an understanding of natural hazards		
4) NFIP Floodplain Administrator (if you are in the NFIP, you <b>must</b> have one.)		
5) Surveyor(s)		
6) Personnel skilled or trained in "GIS" applications		
7) Scientist familiar with natural hazards in the jurisdiction		
8) Emergency Manager		
9) Grant Writer(s)		
10) Staff with expertise or training in benefit/cost analysis		

## Fiscal Capability

Identify what financial resources are available to your community to aid you in the implementation of possible mitigation initiatives. The Hazard Mitigation Grant Program and the Pre-disaster mitigation grant program are not listed here since it is assumed that the grant programs will be pursued since this plan is a prerequisite for these programs. “Accessible” means this is a resource that is accessible to your community, or there are limitations or prerequisites that may hinder your eligibility for this resource.

Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
1) Community development Block Grants (CDBG)	
2) Capital Improvements Project Funding	
3) Authority to Levy Taxes for specific purposes	
4) User fees for water, sewer, gas or electric service	
5) Impact Fees for homebuyers or developers of new development/homes	
6) Incur debt through general obligation bonds	
7) Incur debt through special tax bonds	
8) Incur debt through private activity bonds	
9) Withhold public expenditures in hazard-prone areas	
10) State mitigation grant programs (e.g. NYSDEC, NYCDEP)	
11) Other	

## Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)		
Building Code Effectiveness Grading Schedule (BCEGS)		
Public Protection		
Storm Ready		
Firewise		

The classifications listed above are related to your community's effectiveness in providing services that may impact your vulnerability to the natural hazards identified.

The above referenced classifications can be viewed as a gauge of this community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation). These classifications are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. Classifications range on a scale of 1 to 10 with class one being the best possible classification, and class 10 representing no classification benefit. Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at:
  - <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at:
  - <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at:
  - <http://firewise.org/>

If your community does not participate in a program, indicate NA in the appropriate field. Access to the various classifications will be provided through technical assistance.

## Additional Comments

Please use the space below to document any additional comments for your jurisdiction's annex.

## Saratoga County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: \_\_\_\_\_

NYS DHSES Action Worksheet			
Project Name:			
Project Number:			
Risk / Vulnerability			
Hazard of Concern:			
Description of the Problem:			
Action or Project Intended for Implementation			
Description of the Solution:			
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:		Estimated Benefits (losses avoided):	
Useful Life:			
Estimated Cost:			
Plan for Implementation			
Prioritization:		Desired Timeframe for Implementation:	
Estimated Time Required for Project Implementation:		Potential Funding Sources:	
Responsible Organization:		Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

## XXXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

(Name of Jurisdiction)

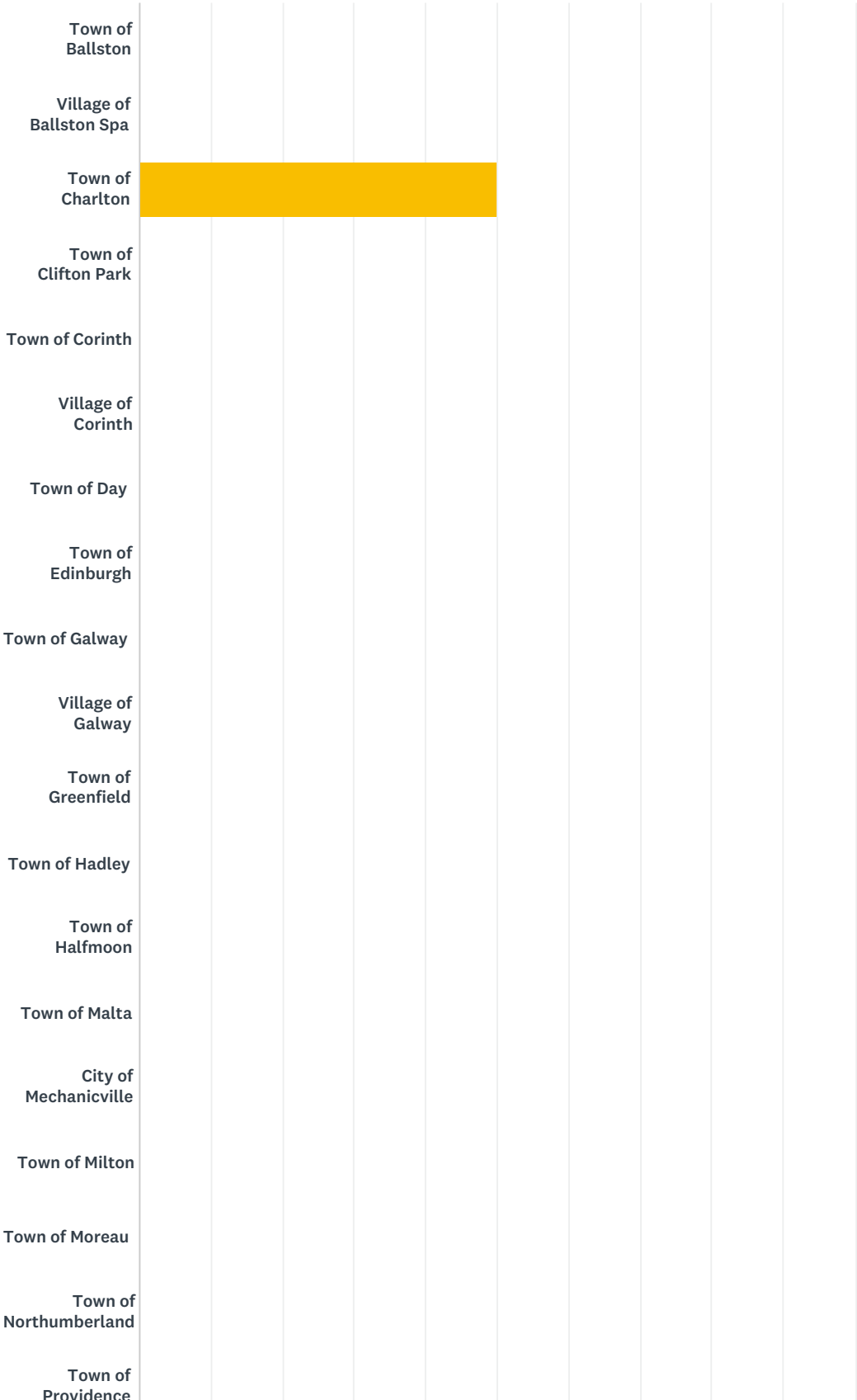
### NYS DHSES Action Worksheet

<b>Project Name:</b>	Each action must have a unique project number referenced here and in the Action Tables.		
<b>Project Number:</b>	Each action must have a unique project name referenced here and in the Action Tables.		
<b>Risk / Vulnerability</b>			
<b>Hazard of Concern:</b>	Identify the hazard being addressed with this action.		
<b>Description of the Problem:</b>	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
<b>Is this project related to a Critical Facility?</b>		Yes <input type="checkbox"/>	No <input type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
<b>Level of Protection:</b>	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	<b>Estimated Benefits (losses avoided):</b>	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
<b>Useful Life:</b>	Identify the number of years the project will provide protection against the hazard.		
<b>Estimated Cost:</b>	Identify all estimated costs associated with implementation.		
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	Identify the priority based on the prioritization method agreed upon.	<b>Desired Timeframe for Implementation:</b>	Identify the desired start time for this project. Ex. Within 6 months.
<b>Estimated Time Required for Project Implementation:</b>	Provided the estimated time required to complete the project from start to end.	<b>Potential Funding Sources:</b>	Multiple sources of potential funding should be listed when appropriate.
<b>Responsible Organization:</b>	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	<b>Local Planning Mechanisms to be Used in Implementation, if any:</b>	Consider the use of local planning mechanisms that will be used to implement this project.
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	
	<i>Alternative 1</i> – Brief Description		Include a description of pros/cons of Alternative 1.
	<i>Alternative 2</i> – Brief Description		Include a description of pros/cons of Alternative 2.
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>	This section should be completed during plan maintenance/evaluation.		
<b>Report of Progress:</b>	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
<b>Update Evaluation of the Problem and/or Solution:</b>	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		

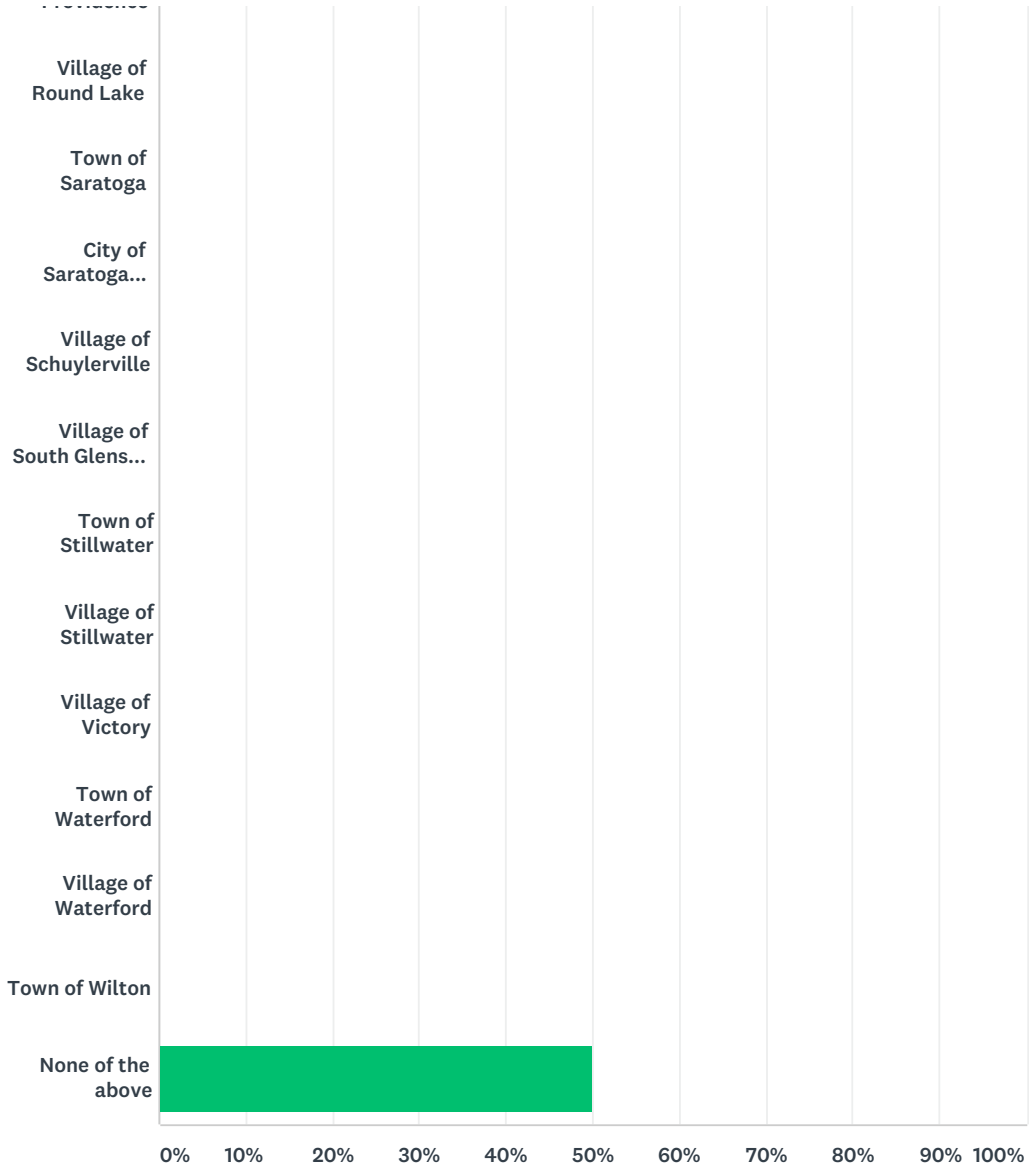


Q1 What Jurisdiction do you reside in?

Answered: 2    Skipped: 0



## Saratoga County, New York Multi-Jurisdictional Hazard Mitigation Plan Update



ANSWER CHOICES	RESPONSES	
Town of Ballston	0.00%	0
Village of Ballston Spa	0.00%	0
Town of Charlton	50.00%	1
Town of Clifton Park	0.00%	0
Town of Corinth	0.00%	0
Village of Corinth	0.00%	0
Town of Day	0.00%	0
Town of Edinburgh	0.00%	0
Town of Galway	0.00%	0
Village of Galway	0.00%	0
Town of Greenfield	0.00%	0

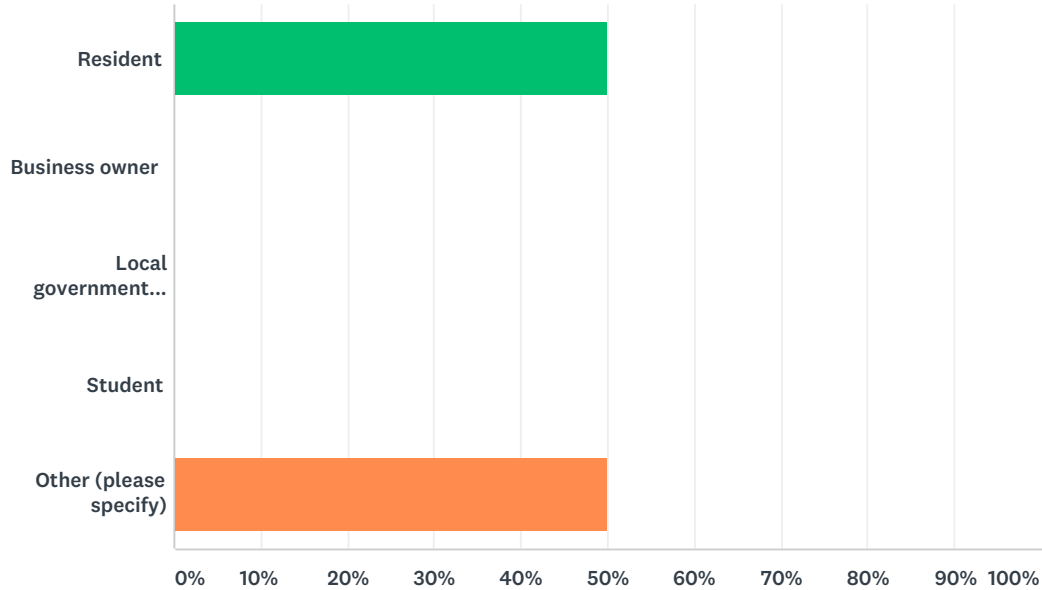
## Saratoga County, New York Multi-Jurisdictional Hazard Mitigation Plan Update

Town of Hadley	0.00%	0
Town of Halfmoon	0.00%	0
Town of Malta	0.00%	0
City of Mechanicville	0.00%	0
Town of Milton	0.00%	0
Town of Moreau	0.00%	0
Town of Northumberland	0.00%	0
Town of Providence	0.00%	0
Village of Round Lake	0.00%	0
Town of Saratoga	0.00%	0
City of Saratoga Springs	0.00%	0
Village of Schuylerville	0.00%	0
Village of South Glens Falls	0.00%	0
Town of Stillwater	0.00%	0
Village of Stillwater	0.00%	0
Village of Victory	0.00%	0
Town of Waterford	0.00%	0
Village of Waterford	0.00%	0
Town of Wilton	0.00%	0
None of the above	50.00%	1
TOTAL		2

## Q2 What is your role in the community?

Answered: 2   Skipped: 0

## Saratoga County, New York Multi-Jurisdictional Hazard Mitigation Plan Update



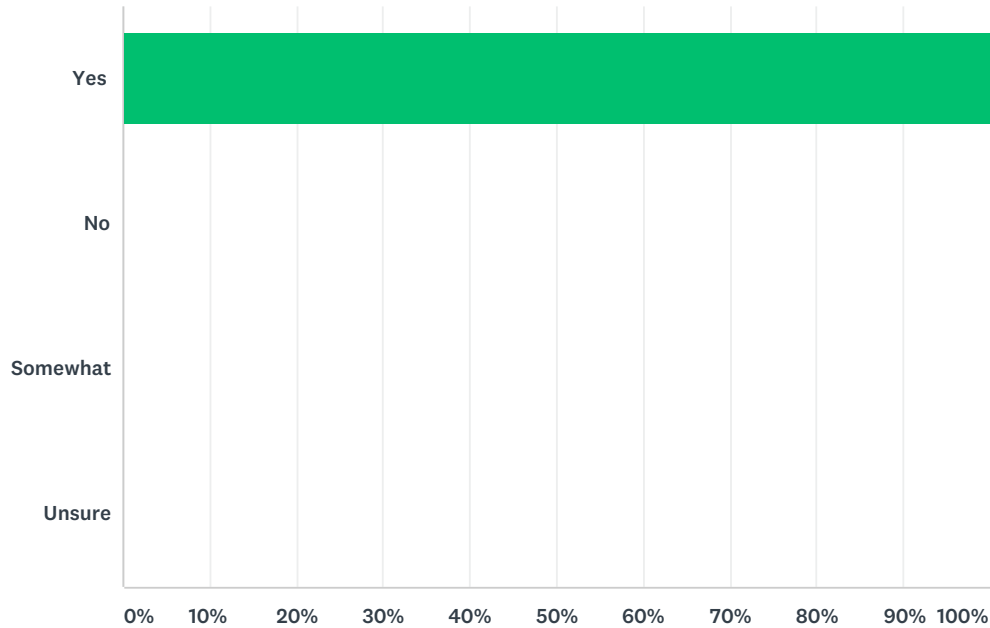
ANSWER CHOICES	RESPONSES
Resident	50.00% 1
Business owner	0.00% 0
Local government employee	0.00% 0
Student	0.00% 0
Other (please specify)	50.00% 1
Total Respondents: 2	

#	OTHER (PLEASE SPECIFY)	DATE
1	Hospital Employee	1/17/2019 2:32 PM

**Q3 Do you feel the Saratoga Hazard Mitigation Plan sufficiently addresses the hazards of concern to you and your community?**

Answered: 2 Skipped: 0

## Saratoga County, New York Multi-Jurisdictional Hazard Mitigation Plan Update



ANSWER CHOICES	RESPONSES	
Yes	100.00%	2
No	0.00%	0
Somewhat	0.00%	0
Unsure	0.00%	0
TOTAL		2

Q4 If you disagree with the above statement, please explain why:

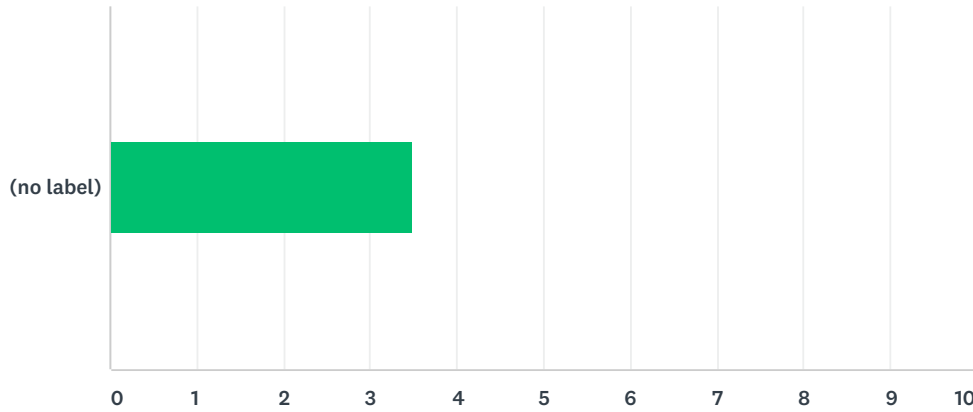
Answered: 1 Skipped: 1

#	RESPONSES	DATE
1	n/a	1/17/2019 2:32 PM

Q5 Please indicate your level of agreement with the following statement: I believe that the plan as a whole will help my community reduce risks from hazards.

Answered: 2 Skipped: 0

## Saratoga County, New York Multi-Jurisdictional Hazard Mitigation Plan Update



	STRONGLY DISAGREE	DISAGREE	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	50.00%	50.00%	2	3.50
	0	0	1	1		

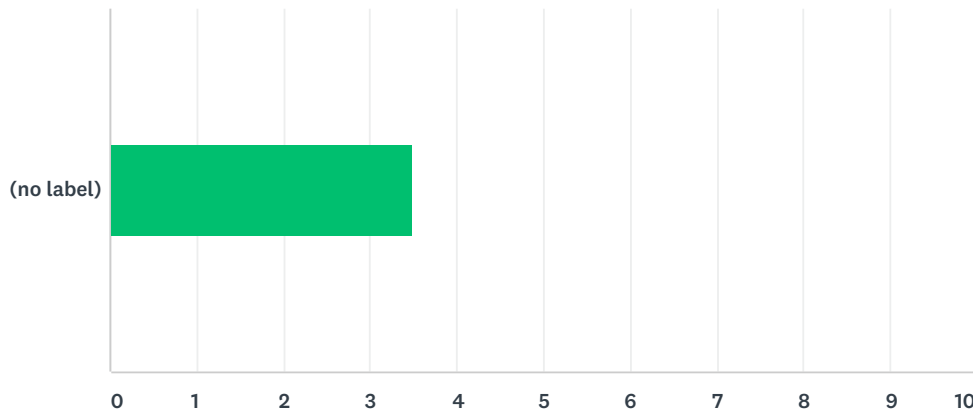
**Q6 If not, please list the hazard(s) of concern that you feel were not sufficiently addressed in the plan below.**

Answered: 1 Skipped: 1

#	RESPONSES	DATE
1	n/a	1/17/2019 2:32 PM

**Q7 Please indicate your level of agreement with the following statement: I believe the mitigation projects included in the plan will effectively reduce risk from hazards in my community.**

Answered: 2 Skipped: 0



	STRONGLY DISAGREE	DISAGREE	AGREE	STRONGLY AGREE	(NO LABEL)	TOTAL	WEIGHTED AVERAGE
(no label)	0.00%	0.00%	50.00%	50.00%	0.00%	2	3.50
	0	0	1	1	0		

**Q8 If not, please list the hazard(s) of concern that you feel were not sufficiently addressed in the plan below.**

Answered: 1 Skipped: 1

#	RESPONSES	DATE
1	N/a	1/17/2019 2:32 PM

**Q9 What are the most successful elements of the plan?**

Answered: 2 Skipped: 0

#	RESPONSES	DATE
1	I believe the plan as whole adequately addresses all hazard mitigation criteria for the county.	1/23/2019 11:07 AM
2	Comprehensive	1/17/2019 2:32 PM

**Q10 What are the least successful elements of the plan?**

Answered: 2 Skipped: 0

#	RESPONSES	DATE
1	none	1/23/2019 11:07 AM
2	n/a	1/17/2019 2:32 PM

**Q11 Please list any additional comments/suggestions you have below:**

Answered: 2 Skipped: 0

#	RESPONSES	DATE
1	none	1/23/2019 11:07 AM
2	None	1/17/2019 2:32 PM

**Q12 Please list any questions you have about the plan or planning process below:**

Answered: 2 Skipped: 0

#	RESPONSES	DATE
1	none	1/23/2019 11:07 AM
2	none	1/17/2019 2:32 PM



## Q13 Please provide your email address if you would like a response to your question.

Answered: 0 Skipped: 2

#	RESPONSES	DATE
	There are no responses.	



## Local Emergency Planning Committee

Meeting Notes: July 25<sup>th</sup>, 2018

Meeting brought to order @ 1400 by Chair Marilyn Rivers.

Self- Introduction by those present.

Minutes from last meeting were distributed. A motion was made to approve the minutes as written by Carl Zeilman, seconded by Brandt Greiner. The motion carried.

### Old Business

- I-400 Course Announcement attached.

### New Business:

- Discussion on the Tabletop Exercise in September:
  - Last year's tabletop was based on a Hazmat transportation accident. We would this year's focus to be an accident in a facility.
  - Global Foundries has volunteered to host our 2018 Hazmat Tabletop. Thank you, Global Foundries.
  - Exercise date is TBD.
  - Chief Williams, Bill Morgan, Ed Tremblay, Gerry Morigerato, Mike Stanley and Jim Mulligan will work to design the tabletop.
- Hazard Summary
  - Saratoga County OES is in the process of revamping their All Hazards Multijurisdictional Hazard Mitigation Plan. A small packet will be distributed to the LEPC for their assistance in assessing the hazards they are familiar with. Your help is appreciated.
- National Grid Gas Safety
  - Jerry Stockman from National Grid attended the meeting and offered a gas safety class. He often works with DPWs, First Responders and municipalities but offered the opportunity to anyone who is interested. He can be reached at 518-761-5826 or gerald.stockman@nationalgrid.com. Thank you Jerry.
- Red Cross Shelter Training
  - The Town of Milton is offering a Red Cross Shelter Training on September 29
- Health and Safety Expo
  - There is a health and safety expo on October 20 at Curtis Lumber in Ballston Spa.

- Citizen Preparedness
  - Shenendehowa Central Schools will be hosting a Citizen Preparedness Seminar on September 18, 6:30 pm at High School West.
- Committees
  - Right-to-Know Committee – VACANT
  - Public Education and Information Committee- Chair Brandt Greiner
  - Hazardous Materials Facilities Liaison Committee- VACANT
  - Emergency Response and Resource Committee- Chair Robert Williams
- Next meeting is Wednesday, September 26 at 2 pm. It will most likely be held at the Fire Training Center due to ongoing training at OES.

Meeting adjourned @ 1440 hours.

Respectfully,  
Mike Stanley  
Emergency Services Specialist  
Saratoga County Office of Emergency Services



## Local Emergency Planning Committee

Meeting Notes: December 12<sup>th</sup>, 2018

Meeting brought to order @ 1403 by Chair Marilyn Rivers.

Self- Introduction by those present.

### Election of Officers:

- Chair: Marilyn Rivers
- Vice Chair: Ed Pruiner
- Secretary-Treasurer: Vacant
  - Motion to approve the election of officers made by Carl Zeilman, seconded by Stuart Field. The motion carried.

### New Business:

- EPA Inspections
  - Chair Rivers has received invitations to attend EPA facility inspections at the Stewarts Plant and Global Foundries. These inspections have been delayed due to the passing of former President George H.W. Bush. Chair Rivers will notify the group when these inspections are rescheduled.
  - The EPA representative has offered to discuss risk management with the LEPC. Chair Rivers will try to schedule this for the April meeting.
- Hazardous Materials Facilities Liaison Committee Update
  - Committee Chair William Morgan has been given all Tier 2 reports received by the Office of Emergency Services to date. He and his committee will review the plans and begin to map out where these facilities are by either Town or Fire District. Chair Rivers offered assistance by providing mapping in a GIS program available to her.
  - The goal of this process is to raise awareness and encourage fire departments to participate in preplanning for these facilities. The Committee can aid Fire Departments in this pre-planning process.
- Committees
  - Right-to-Know Committee – Vacant.
    - There was discussion of combining the responsibilities of this committee with that of the Hazardous Materials Facilities Liaison Committee.
  - Public Education and Information Committee- Chair Brandt Greiner.

- Hazardous Materials Facilities Liaison Committee- Chair William Morgan.
- Emergency Response and Resource Committee- Vacant.
  
- Hazard Mitigation Plan Update
  - Office of Emergency Services Director Carl Zeilman stated the County is making progress updating their Multi- Jurisdictional Hazard Mitigation Plan. When the draft version of this plan is complete, it will be circulated among the LEPC for their review and feedback.
  
- Meeting Schedule (all meetings begin at 2 pm):
  - January 16<sup>th</sup> – Fire Training Center, 6010 County Farm Road, Milton
  - April 10<sup>th</sup>
  - July 10<sup>th</sup>
  - October 2<sup>nd</sup> – Annual Tabletop Exercise (Location TBD)
  - December 11<sup>th</sup>

Meeting adjourned @ 1430 hours.

Respectfully,  
Mike Stanley  
Emergency Services Specialist  
Saratoga County Office of Emergency Services