

Appendix A: Planning Process Documents

Appendix A consists of documentation of the planning process used to update the Nassau County Hazard Mitigation Plan. Click the links below to navigate to each of the different sets of documentation.

- Newsletters
- Outreach Strategy
- Core Planning Group Kickoff Meeting - 2/3/2020
- Planning Committee Pre-Workshop Webinars - 2/19/20 and 2/20/20
- Planning Committee Workshop - 3/5/20
- Risk Review and Mitigation Webinar - 6/11/20
- Stakeholder Webinar - 6/12/20
- Public Survey - 6/12/20 to 7/20/20
- Jurisdiction Consultation Calls - 6/25/20 to 7/16/20
- Planning Committee Mitigation Strategy Webinar - 8/20/20
- Planning Committee Plan Review Webinar - 9/16/20
- Public Meeting - 10/8/20
- Public Comment Summary - 10/1/20 to 10/30/20

Newsletters

1. Mitigation Planning Newsletter: Issue #1
2. Mitigation Planning Newsletter: Issue #2
3. Mitigation Planning Newsletter: Issue #3
4. Mitigation Planning Newsletter: Issue #4

View this email in your browser



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Planning Newsletter: Issue #1

February 2020

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

The Latest: Upcoming Plan Workshops

There will be multiple opportunities to participate in the Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update. Nassau County and its cities, towns, and villages will attend Planning Committee workshops to update and develop parts of the plan. Separate workshops will also be held to familiarize stakeholder groups and the public with the plan and gather feedback. Mark your calendars!

- March 5, 2020 - Planning Committee Kickoff Workshop
- April 22, 2020 - Planning Committee Risk Assessment and Mitigation Strategy Workshop
- April 22, 2020 - Stakeholder and Public Meetings

If you are a member of the Planning Committee and have not already registered to attend the Kickoff Workshop, please [click here](#) to register.

Planning, Training and Exercising for Greater Resiliency

Integrating planning and preparedness efforts into your daily work helps to make continuity and resiliency more achievable! The Nassau County Office of Emergency Management (NCOEM) is currently aligning many of the County's plans to do just that. NCOEM is looking to ensure that elements such as terminology, resource allocation, and plan activation are adequately addressed and match across each set of plans. Alongside these planning efforts, the training and exercise plan for 2020 has identified training courses that will help reinforce and strengthen the County's capabilities.

planning process. For example, NCOEM is starting the year off by offering jurisdictions an overview of the National Incident Management System through a four-hour training course. Over the next few months, training courses will be focused on recovery areas such as Economic Recovery and Local Government Role in Recovery. As we get closer to the summer, NCOEM will be offering hazard specific courses covering hazards such as hurricanes and flooding.



Registration is open until March 2nd, 2020 for the [March 23rd course ICS-402: ICS for Executives and Senior Officials](#). Check out the [2020 NCOEM Training Calendar](#) to save the date for upcoming events. Read future newsletters for training announcements and more information on upcoming courses! **If you have any questions, please feel free to reach out to Nicole Marks at nmarks@nassaucountyny.gov.**

How the Long Island Community Rating System Users Group Can Help You Mitigate and Get Discounts!



The Community Rating System (CRS) is a National Flood Insurance Program initiative that allows for communities to achieve discounts on flood insurance premiums. The Long Island Community Rating System Users Group promotes education and cultivation of strong floodplain management programs in Nassau and Suffolk Counties. CRS Users Groups are communities that meet regularly to provide a forum about the National Flood Insurance Program's voluntary program, the Community Rating System, and other floodplain management issues.

Established in 2015 by Long Island's Climate Smart Community Coordinators, the Long Island CRS Users Group was formed to help current and future CRS Program participants advance their community's ratings and share ideas and experiences. The Long Island CRS Users Group will be a forum for communities and Long Island's CRS FEMA representative to discuss the challenges met, and successes achieved, by Long Island communities.

The Long Island CRS Users Group meets quarterly at the Town of Babylon Parks Department Recreation Building in the Green Room at 151 Phelps Lane in North Babylon. Meetings often include informational presentations and group discussions to transfer knowledge and troubleshoot difficult floodplain management issues. Attendees include participating and non-participating communities, volunteer organizations, and civic groups. All are welcome!

The next Users Group meeting will take place in April. The date and time will be announced in the coming weeks. **If you are interested in joining the Users Group mailing list to receive meeting announcements, floodplain training notifications, and educational materials, please contact Brian Zitani, LI CRS Users Group Coordinator, at bzitani@townofbabylon.com.**

Strengthening Teams and Communities Through Mental

The Nassau County Department of Human Services, Office of Mental Health, Chemical Dependency and Developmental Disabilities Services offers [Mental Health First Aid Training](#) presentations to the community at no cost. This 8-hour course provides an evidence-based public education and prevention tool. The goal is to improve the public’s knowledge of mental health and substance use problems and connects people with care for their mental health or substance use problems. Similar to traditional First Aid and CPR, Mental Health First Aid can provide a person developing a mental health problem, or experiencing a crisis, with assistance until professional treatment is obtained or the crisis resolves.

Participants will learn of a five-step action plan to help loved ones, colleagues, neighbors, and others cope with mental health or substance use problems. Trainees go through a one day 8-hour training program or a two-day training that are four hours each that teaches them a five-step action plan to assess a situation, select and implement appropriate interventions and secure appropriate care for an individual experiencing a mental health or substance use problem. In addition, trainees also learn risk factors and warning signs of mental illness and addiction and about available treatments. Upon completion, participants will have a better understanding of the impact that mental illness and addictions have on a person, their family, and communities. A certificate of attendance will be issued at the end of the presentation.

The course is designed to help anyone who wants to learn how to provide initial help to someone who may be experiencing symptoms of a mental illness or who may be in a crisis. Lastly, individuals can identify, understand, and respond to signs of mental illness and addictions.



You Could Be The Help Someone Needs.....

For more information, please contact Diana Johnson at 516 227-7057 or Diana.Johnson@hhsnassaucountyny.us.

Get Involved

The Steering Committee welcomes your input! If you would like more information on specific elements of the project, or if you believe that you may be able to supply critical information during the planning process, please reach out to our Steering Committee by contacting:

Susan Park
 Nassau County Office of Emergency Management, Director of Recovery
spark@nassaucountyny.gov
 (516) 573-9642

[Subscribe](#)

[Past Issues](#)

[Translate](#) ▼

www.nassaucountyny.gov



In partnership with



To learn more about what we do, visit [Disaster Discourse: The Hagerty Blog!](#)

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).

[View this email in your browser](#)



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Planning Newsletter: Issue #2

July 2020

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

LIVE: Public Survey

Please remember to distribute the [public survey](#) online and through social media using this [template language](#). This is an important step to include the community in the planning process and gather feedback on the plan. The survey will be open until **July 20th!**

[Click here to take the Public Survey](#)

Upcoming Jurisdictional Consultation Calls

Cities, Towns, and Villages, please remember to **schedule your [Jurisdictional Consultation Call](#) as soon as possible**. As a valued partner of the Nassau County Hazard Mitigation Plan update, this meeting is when you will speak with our consultants to derive mitigation actions based on the data you have provided in your jurisdictional annex.

Before your Jurisdictional Consultation Call, gather your team to review and work on the following documents. Refer to this [Instruction Guide](#) for more information along the way.

1. Use the [2014 Mitigation Action Spreadsheet](#) to review your jurisdiction's actions from the previous plan and fill in the required fields to document your progress.

3. Fill out two [Mitigation Action Forms](#). Your proposed projects should aim to reduce long-term risk to natural hazards, including structural and non-structural (e.g., planning) projects. *Note: if your jurisdiction is specifically in a flood hazard area, one of your actions must be related to flooding.*
4. [Submit the above documents](#).

To assist with your preparation materials, you can review the [Meeting Notes](#), [Presentation](#), and [Recording](#) of the June 11th Risk Review and Mitigation Strategy Webinar.

[Click here to Schedule your Jurisdictional Consultation Call](#)

Hazard Mitigation Strategies



Image: [National Park Service](#)

Hazard mitigation planning focuses on activities to **make homes, businesses, infrastructure and communities more resilient to the impacts of natural hazards and climate change**. The [FEMA Mitigation Ideas Guide](#) catalogs different mitigation projects that can be implemented to reduce the risk of 16 natural hazards. This resource **groups the mitigation projects by the specific natural hazard they can reduce the risk of** in a community. As you begin to think about how to implement mitigation strategies in your jurisdiction, consider some of the following types of mitigation projects:

Local plans and regulations help steer development away from hazard-prone areas. Examples of this type of project are comprehensive plans, land ordinances, and community rating systems. The state of Oklahoma recently passed legislation to develop a [Statewide Flood Resiliency Plan](#). The plan will assess flood risk, collect information on current resiliency strengths, and propose flood mitigation strategies to protect communities.

Structural projects modify existing structures to protect them from hazards. Examples of this type of project are building elevations, floodwalls, and placing utilities underground. Stone Harbor, New Jersey is currently working on a structural mitigation project by [constructing a set of stormwater pumps](#). These pumps will help drain flooding from storm surge and better protect vulnerable neighborhoods in the City. The project [began in 2018](#) and is expected to go through 2021.

of this type of project are erosion control, forest management, and wetland restoration. Wetlands in Walton County, Florida are at high risk for damage from storm surge and hurricanes due to their proximity to the Gulf of Mexico. A new [wetlands restoration project](#) will maintain the wetlands ecosystem, but also increase the County's protections from natural hazards by slowing the rate of flooding and mitigating impacts of storm surge on the inland community.

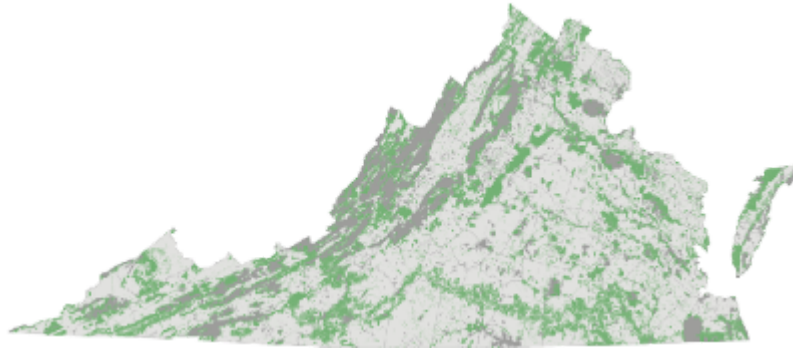


Image: [Virginia Department of Conservation and Recreation](#)

Education programs are important in informing and educating the community about hazards and how to mitigate their impacts. Examples of this type of project are digitizing risk maps, mandating real estate disclosures, and mental health first aid classes to help survivors cope with the impact of disasters. The Virginia Department of Conservation and Recreation developed an online mapping system called [ConserveVirginia](#), which illustrates areas in Virginia vulnerable to flooding and other hazards. This system educates Virginians on risks posed by natural hazards and is [continually updated](#) to provide accurate information to the Commonwealth.

Preparedness and response actions reduce short-term risk posed by threats and hazards and help a community better respond to acute needs after a disaster. Examples of this type of project are mutual aid agreements, upgrading communication systems, and upgrading citizen notification systems. Pittsburgh, Pennsylvania recently [updated their fire and EMT alert system](#) to support more efficient communication of the location and type of risks. This system will help the City better respond to community fires and other hazards.

Other specific hazard mitigation projects can be found in the [FEMA Mitigation Ideas Guide](#).

Mark your Calendars!

Important upcoming events include:

- **Public Survey** (now – July 20): This survey will **elicit feedback from the whole community** on their concerns about natural hazards and priorities for mitigation.
- **Jurisdictional Consultation Calls** (now – July 16): Each jurisdiction on the Planning Committee, including the County, will review their jurisdiction's capabilities and identify their greatest risks. These meetings will help **develop the Jurisdictional Annexes** in the Nassau County Hazard Mitigation Plan Update.

- **Plan Review Webinar** (September 16): The Planning Committee's opportunity to review the draft plan and provide initial comments. A plan review period will precede and follow this webinar.

Get Involved

The Steering Committee welcomes your input! If you would like more information on specific elements of the project, or if you believe that you may be able to supply critical information during the planning process, please reach out to our Steering Committee by contacting:

Susan Park
Nassau County Office of Emergency Management, Director of Recovery
hazardmitigation@nassaucountyny.gov
(516) 573-9642

Nassau County Office of Emergency Management
510 Grumman Road
West Bethpage, NY 11714
www.nassaucountyny.gov



In partnership with



To learn more about what we do, visit [Disaster Discourse: The Hagerty Blog!](#)

Want to change how you receive these emails?
You can [update your preferences](#) or [unsubscribe from this list](#).

View this email in your browser



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Planning Newsletter: Issue #3

August 2020

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

Upcoming Events:

August 20, 2020, | Planning Committee Mitigation Strategy Review Webinar

Please [register here](#) for the Planning Committee Mitigation Strategy Review Webinar and offer feedback on your draft mitigation strategy.

Planning Process Update

Since our last Newsletter in July 2020, the planning process has advanced by completing the Public Survey and Jurisdictional Consultation Calls. Thank you to Nassau County and all of the Cities, Towns, and Villages who participated in this critical step in determining specific mitigation actions for each jurisdiction.

July 15, 2020 – July 20, 2020, | Public Survey | Completed

The *Public Survey* was distributed online and through social media and aimed to gather feedback on perceptions of risk and the greatest hazards facing communities.

June 25, 2020 – July 16, 2020, | Jurisdictional Coordination Calls | Completed

The County, Cities, Towns, and Villages participated in individual jurisdictional coordination calls, which were used to develop and validate the mitigation actions for each community.

August 2020 | Complete a full draft of the Mitigation Action Plan | In Progress

Looking ahead, in September, the Planning Committee will be asked to review the full draft of the plan. After comments are received, the plan will be submitted to New York State and FEMA for review. As the State reviews the plan, the draft plan will be shared online for the public to review and provide comment on.

September 2020 | Complete a full draft of the Hazard Mitigation Plan

September 2020 | Commence Planning Committee review period

October 2020 | Submit the Hazard Mitigation Plan to New York State for Review

October 2020 | Public Review Period

November 2020 | Submit the Hazard Mitigation Plan to FEMA Region II

December 2020 – February 2021 | Approval and Adoption of the Hazard Mitigation Plan

Public Survey Summary

The Public Survey Summary is now live on the [NCOEM website](#) and can be accessed via the "[Public Survey](#)." option on the left-hand menu. Share the results of the public survey with your networks by using these [social media templates](#).

Hurricane Preparedness



Image supplied by [PixWizard](#)

County Office of Emergency Management (OEM) aims to help communities across Nassau County be StormReady, by publishing preparedness materials through the Nassau County website.

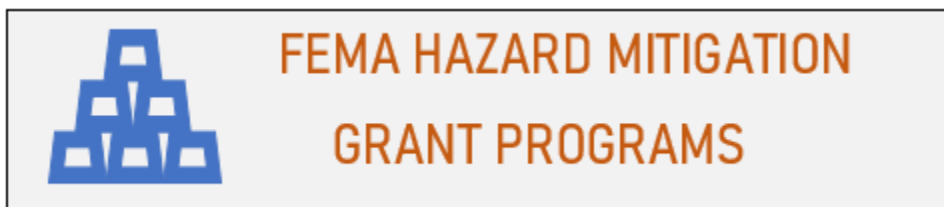
The Nassau County Hurricane Preparedness Guide aims to make residents “prepared and not scared” to face the challenges brought on by hurricanes experienced in Nassau County, and provides resources to help residents check family emergency supplies, prepare ‘go kits’, and finalize a family preparedness plan.

Tips for Handling Hurricane Season

BEFORE A HURRICANE	Know your zone: Find out if you live in a hurricane evacuation area by visiting: nassaucountyny.gov/oem .
	Have a Family Emergency Plan: Decide how you will get in contact with loved ones, where you will go, and what you will do in the event of a Hurricane.
	Prepare an Emergency Supplies Kit: Put together a basic disaster supplies kit with essentials such as generators, flashlights, and storm shutters
	Understand the difference between Watches and Warnings: hurricane watches indicate hurricane conditions are possible, whereas hurricane warnings indicate hurricane conditions are expected.
DURING A HURRICANE	Secure your home: Cover all of your home’s windows.
	Stay tuned in: Check the websites of your local National Weather Service office and Nassau County’s Office of Emergency Management . You can also listen to radio and TV stations for the latest storm news.

It is advised to take all watches and warnings seriously and follow the instructions issued by Nassau OEM and FEMA.

Additionally, community members can register their cell phones to receive emergency notifications through the County’s Notify Me page.



Through the [Building Resilient Infrastructure and Communities \(BRIC\)](#) program, FEMA will continue to invest in a variety of mitigation activities with an added focus on infrastructure projects and Community Lifelines.

The BRIC program will support states, local communities, tribes, and territories as they undertake hazard mitigation projects, reducing the risks they face from disasters and natural hazards. BRIC is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program and focuses on supporting communities through capability and capacity-building, encouraging and enabling innovation, promoting partnerships, enabling large projects, maintaining flexibility, and providing consistency.

The program aims to categorically shift the federal focus away from reactive disaster spending and toward research-supported, proactive investment in community resilience. FEMA anticipates BRIC funding projects that demonstrate innovative approaches to partnerships, such as shared funding mechanisms, and/or project design.

Shelter Volunteers Needed

Nassau County's Office of Emergency Management continues to prepare for the possibility of responding to other disasters, such as a tropical storm while continuing to respond to the COVID-19 disaster. Typically, the American Red Cross is able to support the County's Shelter Plan, which is made up of 21 school locations across Nassau. Due to COVID-19, however, there are a lot of operational changes such as screening, prepackaged food, and social distancing that require further resources to support the Shelter Plan. In complying with current COVID-19 disaster guidance, the County's shelter capacities have been cut in half due to the required spacing, and now more shelters are needed. In addition to the concern of space, a great number of the American Red Cross' volunteers represent vulnerable populations that are at a higher risk of contracting COVID-19. The County expects to see a significant decrease in the number of available shelter volunteers.

The County is therefore actively seeking the help and support of new volunteers who are willing to work in a shelter during a tropical storm, amidst the continuing COVID-19 disaster. The American Red Cross provides training for shelter volunteers and the County will contact these volunteers when the Shelter Plan is activated.

information so we can get them on board! Please send the volunteer's name, phone number, and email address to nmarks@nassaucountyny.gov. If you don't know of anyone right now who would be interested in volunteering, please just keep this request in mind. Any questions can be directed to Nicole Marks, Director of Planning, at nmarks@nassaucountyny.gov or (516) 573-9600.

Nassau County Office of Emergency Management

510 Grumman Road

West Bethpage, NY 11714

www.nassaucountyny.gov



In partnership with



To learn more about what we do, visit [Disaster Discourse: The Hagerty Blog!](#)

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).

[View this email in your browser](#)



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Planning Newsletter: Issue #4

September 2020

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

Register Now:

Planning Committee Plan Review Webinar on September 16, 2020

Please [register here](#) for the Planning Committee Plan Review Webinar and offer feedback on your draft Plan.

Reminder: Review the Draft Plan

The Planning Committee is invited to review the draft version of the Nassau County Hazard Mitigation Plan. This is your opportunity to validate the draft plan prior to the public comment period and submission to New York State Department of Homeland Security and Emergency Services and Federal Emergency Management Agency for review.

Review and send your comments **by September 22, 2020**. To review your jurisdiction's documents:

1. Click [here](#) to access the **Microsoft OneDrive** library containing the full draft Plan. *Note: This library contains the countywide Base Plan, three appendices, and a folder containing annexes for each participating jurisdiction.*
2. Download the **Plan Review Adjudication Matrix** [here](#) or in the **Microsoft OneDrive folder**. Please use this excel spreadsheet to provide all feedback to the Steering

complete. Look through the countywide Base Plan and appendices to offer any additional comments. Write all your comments and edits in the adjudication matrix.

4. **Email your completed adjudication matrix** to Michelle Bohrson via email at michelle.bohrson@hagertyconsulting.com.

Please reach out to Michelle Bohrson via email at michelle.bohrson@hagertyconsulting.com if you are having any issues accessing the documents for your jurisdiction.

Planning for People with Disabilities and Access and Functional Needs

The work to support communities through disaster preparedness, response, recovery and mitigation brings with it the challenge of ensuring that disaster management policies, procedures and practices fully integrate people with disabilities and access and functional needs (DAFN). The road to meeting the challenge is not one that emergency managers, organizations or citizens can or should travel alone. Participation, communication, cooperation and coordination among all the "players" - government and private entities involved in disaster management, disability service/advocacy organizations, and the DAFN community - are essential if we are to establish meaningful resiliency in the face of disasters.



Disability Accessibility and Functional Needs

As part of a growing network of Core Advisory Groups (CAGs) across New York State, the Access and Functional Needs Advisory Coalition (AFNAC) is working hard to build resiliency through partnership in Nassau County, Long Island and beyond. If you are excited by the idea of collaboration across sectors, industries and disciplines for the common goal of disaster management that serves and engages the whole community, we want to hear from you.

For more information or to join the effort, please contact:

Therése Brzezinski

*AFNAC Lead and Director of Planning and Public Policy
Long Island Center for Independent Living, Inc. (LICIL).*

Email: ThereseA@licil.com

September is National Preparedness Month!

The Federal Emergency Management Agency (FEMA) recognizes September as National Preparedness Month annually. The purpose of National Preparedness Month is to promote community and personal preparedness and this year's theme is **Disasters Don't Wait, Make Your Plan Today.**

The Coronavirus Disease 2019 (COVID-19) crisis has not only complicated how governments approach disaster management, but also presents individuals with compounding challenges in the wake of a disaster. FEMA produced the following video to promote disaster preparedness in the time of COVID-19.



Ready.gov PSA COVID-19: Plan Ahead for How to Deal with Disasters During Coronavirus

[Ready.gov](https://www.ready.gov) has many resources to support your community bolster their preparedness and resilience. This resource for individuals to develop a personal preparedness plan and identify actions individuals can take to prepare for and mitigate their risk to disasters.

The Steering Committee is encouraging the Planning Committee to use National Preparedness Month as an opportunity to engage with your community to mitigate risk.

This could include actions such as:

- Purchasing or renewing a [National Flood Insurance Program](#) policy.
- Check up on the insulation, caulking, and weather stripping of homes to reduce the impact of extreme temperatures.
- Identify water conservation measures (e.g., low flow plumbing and to conserve water in the case of drought).

An Introduction to FEMA's National Flood Insurance Program Community Rating System: A New York State Perspective.

The Community Rating System (CRS) allows for participating jurisdictions to achieve a reduction on NFIP premiums for their property owners. Those interested in learning more about CRS should plan on attending! This webinar will be held on Tuesday, September 22, 2020 from 10 AM until 11:30 AM. Register [here](#).

Volunteers Still Needed:

Nassau County is still actively seeking the help and support of new volunteers who are willing to work in a shelter during a tropical storm, amidst the continuing COVID-19 disaster. The American Red Cross provides training for shelter volunteers and the County will contact these volunteers when the Shelter Plan is activated.

If there is anyone in your jurisdiction who is interested in the opportunity to receive this training and help when the time comes, then please send us their information so we can get them on board! Please send the volunteer's name, phone number, and email address to nmarks@nassaucountyny.gov. If you don't know of anyone right now who would be interested in volunteering, please just keep this request in mind. Any questions can be directed to Nicole Marks, Director of Planning, at nmarks@nassaucountyny.gov or (516) 573-9600.

Nassau County Office of Emergency Management

510 Grumman Road
West Bethpage, NY 11714

www.nassaucountyny.gov



In partnership with



To learn more about what we do, visit [Disaster Discourse: The Hagerty Blog!](#)

Outreach Strategy

- 1. Outreach Strategy



Outreach Strategy

**Nassau County Multi-Jurisdictional Multi-Hazard
Mitigation Plan**

Table of Contents

- Outreach Strategy 1
 - Nassau County Multi-Jurisdictional Multi-Hazard Mitigation Plan 1
- Table of Contents 2
- Background 3
- Stakeholder Organization 4
- Strategy 6
 - Tactics 7
 - Tactic 1: Continue community outreach to previously identified organizations 7
 - Tactic 2: Leverage existing “cohorts” and stakeholder/public engagement activities 7
 - Tactic 3: Develop a cohesive and distinctive brand for the HMP Update 7
 - Tactic 4: Ensure CPG, Planning Committee, Stakeholder and Public meeting materials and plan elements are publicly available for review 7
 - Tactic 5: Document outreach activities 8
 - Tactic 6: Distribute messaging to stakeholders and the public about HMP Update, stakeholder and public meetings, and where to review the plan online 8
- Messaging 9
 - Why Should You Be Involved? 9
 - How Can You Be Involved? 9
- Notable Project Meetings 10
- Project Communication Platforms 10
- Newsletter Schedule 11
- Appendix A: Identified Partners 12

Background

The Nassau County Multi-Jurisdictional Multi-Hazard Mitigation Plan (HMP) Update project provides the opportunity to develop a hazard mitigation plan that builds on the existing mitigation capabilities of the County and jurisdictions to enhance their resilience to natural hazards. This project will result in a plan that meets New York State Division of Homeland Security and Emergency Services (NYS DHSES) and Federal Emergency Management Agency (FEMA) requirements. This planning project will continue to build on the County's existing mitigation programs and will ensure that Nassau County and its jurisdictions have a comprehensive approach to reducing the vulnerability of their community to natural disasters.

The Code of Federal Regulations identifies that outreach requirements for Local Hazard Mitigation Plans must include public involvement during the planning process and plan maintenance ([44 CFR §201.6\(b\)\(1\)](#)), and relevant agency involvement ([201.6\(c\)\(1\)](#)). The purpose of the Outreach Strategy is to outline a plan to meet and exceed these requirements. This document describes the specific goals and tactics that the Steering Committee will use to meet intent of the regulation and fulfill a more comprehensive vision of successful outreach.

Stakeholder Organization

The planning process for the Nassau County Multi-Jurisdictional Hazard Mitigation Plan update will include five tiers of stakeholder participation that are based on the expected and desired levels of responsibilities for different individuals and organizations. These roles are intended to streamline the planning process, avoid duplication of effort and feedback, and ensure the planning effort remains sustainable for all participants.

- **Steering Committee** – The Steering Committee consists of the Nassau County Office of Emergency (OEM) Director of Recovery, Director of Planning and Hagerty Consulting. The responsibility of the Steering Committee is to organize and carry out the planning process, collect information from the Core Planning Group (CPG) and Planning Committee, and develop drafts of the plan documents.

Nassau County OEM Director of Recovery, Nassau County OEM Director of Planning, and Hagerty Consulting

- **Core Planning Group** – The CPG will provide the information, consultation, and feedback to support the HMP Update development. The CPG will be consulted to make high level decisions about the purpose and goals of the base plan. They will review drafts and provide feedback. They will contribute to developing mitigation strategies at the county government level.

Steering Committee, Nassau County departments, Long Island agencies, representatives from the cities and townships, neighboring counties, New York State (NYS) agencies, and FEMA Region II

- **Planning Committee** – This group is comprised of the CPG and the County's 64 incorporated villages. The Planning Committee will participate in several the outreach strategies listed in this document. This Committee is critical to understanding the local community needs. The Committee is primarily responsible for providing the Steering Committee with information for the annex and reviewing the annex for their respective jurisdictions.

The CPG and Nassau County's 64 incorporated villages

- **Stakeholder Group** – The Stakeholder Group will consist of a larger audience of community representatives. This group will be kept informed of the HMP Update process. As needed, the Steering Committee and Planning Committee may consult with individuals in the Stakeholder Group for subject matter expertise on specific topics. The Stakeholder Group will be invited to participate in two plan workshops to familiarize them with the plan update and gather feedback.

Special districts (school and fire), elected officials, nonprofits, businesses, coalitions, hospitals, utility companies and educational institutions

- **Public** – The Public will be invited to participate in a survey and a workshop webinar to familiarize them with the plan update and gather feedback.

All Nassau County residents and business owners

Strategy

The Outreach Strategy is comprised of three goals and six tactics that will ensure a thorough and comprehensive stakeholder and public engagement throughout the HMP Update process.

Figure 1: Outreach Strategy Goals and Tactics



Tactics

Tactic 1: Continue community outreach to previously identified organizations

The Steering Committee will communicate with the Planning Committee through email, phone, in-person workshops, and webinars to identify additional stakeholders to involve in the plan update process. The following types of organizations will be engaged:

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

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

The Stakeholder Group and Public may meet at regular intervals, allowing for an engagement opportunity related to the HMP Update. The Steering Committee may leverage existing meetings to share information with stakeholder groups and the public. Leveraging pre-existing meetings allows for a coordinated planning approach.

Tactic 3: Develop a cohesive and distinctive brand for the HMP Update




As part of the preparation for the Planning Committee Risk Review and Mitigation Strategy Webinar, the Steering Committee will develop a style guide and templates distinctive to the HMP Update planning process for all materials, including PowerPoint presentations, visual aids (handouts and posters), meeting materials (agendas, sign-in sheets, and meeting notes), maps, and the HMP Update. The branded materials will be available upon request from Nassau County OEM so that Planning Committee members can use them to develop additional communication and outreach within jurisdictions.

Tactic 4: Ensure CPG, Planning Committee, Stakeholder and Public meeting/webinar materials and plan elements are publicly available for review

FEMA requires all mitigation plans to be a publicly available resource, including meeting minutes, sign-in sheets, and presentations to demonstrate engagement. The Steering Committee will utilize the Nassau County Hazard Mitigation web page to post the full draft plan for at least a 30-day public review period. This web page will also host the final,

FEMA and NYS DHSES approved plan. The following list summarizes the items to display publicly:

Website Attribute

Plan Update Description	
Plan Update Contact Information	
Link to Plan and Draft Plan	

The Steering Committee will also develop content that Planning Committee members can use to update their websites and post the draft and final approved plans.

Tactic 5: Document outreach activities

The Steering Committee will capture all meeting materials and record planning activities in the HMP to demonstrate compliance with FEMA and NYS DHSES planning regulations. The Steering Committee will also encourage Core Planning Group and Planning Committee members to document all of their time spent supporting the development of the plan, including attending planning workshops and public meetings, reviewing the plan, and developing additional outreach materials to advertise the update of the plan (e.g., social media posts). These hours spent supporting the plan update will help the county to meet grant match requirements.

The Steering Committee will also develop an approach for continued outreach and public engagement during the maintenance of the plan. This approach will be socialized with Core Planning Group and Planning Committee for feedback before the final plan is approved.

Tactic 6: Distribute messaging to stakeholders and the public about HMP Update, stakeholder and public meetings, and where to review the plan online

To engage stakeholders and the public, the Steering Committee will draft and deliver pre-scripted social media messages and emails regarding the planning process at appropriate intervals during the project. Messaging can be used to draw the public to the Nassau County Hazard Mitigation web page and solicit feedback on the draft plan. The Steering Committee will also provide template social media messages and emails to any Planning Committee members interested in advertising the plan update process.

The Steering Committee will also draft and deliver routine hazard mitigation planning newsletters that provide an update on the planning process, training and resources available in Nassau County, and upcoming planning expectations. The newsletters will be distributed via email primarily to the Planning Committee, as well as certain stakeholders who have expressed interest in the plan update process.

Messaging

Messaging that the Steering Committee shares throughout the project will be persuasive, direct, and frequent. Several communication platforms will be utilized throughout the project to guarantee that the correct audience receives information about the HMP Update and to bolster participation. The following questions and common responses have been compiled to help standardize common messaging throughout the project:

Why Should You Be Involved?

- Advocate for your community's needs by voicing your input during the HMP Update process.
- Your involvement guarantees a diversity of representation and supports the development of an inclusive plan.
- Be a representative for those who have barriers to access or are unable to attend engagements. Their voice is as important as your own.
- Participating in the planning process fosters collaboration and bolsters the County's effort to better prepare in advance for future disasters.
- Document participation in the planning process and public outreach as required by FEMA to build consensus and encourage transparency.
- Participation helps to align departmental goals and resources with HMP Update.

How Can You Be Involved?

- Planning Committee:
 - Attend planning workshops and contribute meaningfully to the conversation to ensure future safety and resilience of the County. Meaningful contribution and active participation work to create and implement a realistic plan.
 - Fill out and return all requested forms to the Steering Committee in a timely manner.
 - Review and provide comments on drafts of the plan.
 - Adopt the final approved plan.
 - Reach out to local community groups and socialize them about the plan and its process.
- Stakeholders and Public:
 - Attend stakeholder and public workshops to learn about the plan update process and share your observations of how natural hazards impact where you live. Mitigation projects will consider stakeholder and public perspectives to build future safety and resilience of the County.

Notable Project Meetings

Meeting	Intended Audience
Pre-Workshop Webinar 1	Planning Committee
Planning Committee Kickoff Workshop	Planning Committee
Stakeholder Webinar	Stakeholder Group
Risk Review and Mitigation Strategy Webinar	Planning Committee
Public Survey 1: Risk Review and Mitigation Strategy	Public, Stakeholder Group
Jurisdictional Consultation Calls	Planning Committee
Mitigation Strategy Review Webinar	Planning Committee
Plan Review Webinar	Planning Committee
Public Meeting/Webinar: Draft Plan Review	Public, Stakeholder Group

Project Communication Platforms

While conducting the 2020 HMP Update, several communications platforms will be utilized to ensure all stakeholders are receiving information.

- **MailChimp** – The Steering Committee will use MailChimp for mass communication to the Planning Committee throughout the plan update.
- **Routine Newsletter** – The Steering Committee will distribute a routine newsletter to the Planning Committee and other interested stakeholders using MailChimp. The Newsletter will provide information on the HMP Update process, next steps, and additional Hazard Mitigation Planning resources.
- **Nassau County Hazard Mitigation Website** – The Nassau County Hazard Mitigation website will be used to distribute information and collect stakeholder and public feedback about the draft HMP Update.
- **Social Media** – The Steering Committee will explore options to engage stakeholders and the public active on social media by routinely posting updates on the County’s Facebook and Twitter pages.

Newsletter Schedule

Newsletter Issue	Projected Distribution	General Description
1	February 27 th , 2020	Introduce the newsletter, overview of upcoming meetings, description of upcoming mitigation-related trainings and programs.
2	July 6 th , 2020	Reminders about the live public survey, overview of the upcoming Jurisdictional Consultation Call process, review of different types of mitigation strategies
3	August 11 th , 2020	July jurisdictional workshops, review mitigation action plan development process, and reminder of upcoming August 20 th Mitigation strategy Review Webinar
4	September 14 th , 2020	Recap Plan Review, discuss public comment period and where to find draft plan online, announce plan submission to NYS DHSES for review, discuss plan adoption process and expectations
5	October 16 th , 2020	Recap public meeting, reminders about public comment period, discuss plan adoption process and expectations
6	January/February 2021 (timing contingent on length of State and FEMA review and approval process)	Updates on plan approval, discuss plan adoption process and expectations.

Appendix A: Identified Partners

Organization

Atlantic Beach
Baxter Estates
Bayville
Bellerose
Brookville
Cedarhurst
Centre Island
Cove Neck
East Hills
East Rockaway
East Williston
Farmingdale
FEMA Region II
Floral Park
Flower Hill
Freeport
Garden City
Glen Cove
Great Neck
Great Neck Estates Police Department
Great Neck Plaza
Hagerty Consulting
Hewlett Harbor
Hempstead
Island Park
Kensington
Kings Point
Kings Point Police Department
Lake Success
Lattingtown

Organization

Laurel Hollow

Lawrence

Long Beach

Long Beach Fire Department

Long Island Regional Planning Council

Lynbrook

Malverne

Manorhaven

Massapequa Park

Matinecock and Oyster Bay Cove

Mill Neck

Mineola Department of Public Works

Munsey Park

Muttontown

Nassau County Department of Health

Nassau County Department of Human Services

Nassau County Department of Parks, Recreation and Museums

Nassau County Department of Public Works

Nassau County Department of Social Services

Nassau County Fire Marshal

Nassau County Office of Community Development

Nassau County Office of Emergency Management

Nassau County Office of the County Executive

Nassau County Police Department

Nassau County Sheriff's Department & Correctional Center

Nassau County Soil and Water Conservation District

Nassau County Village Officials Association

New Hyde Park

North Hills

NYC Office of Emergency Management

NYS DHSES

NYS Floodplain and Stormwater Managers Association

NYSDEC

Organization

Old Brookville Police Department

Old Westbury

Oyster Bay Cove Police Department

Plandome

Plandome Heights

Plandome Manor

Port Washington North

Rockville Centre

Roslyn

Roslyn Estates

Roslyn Harbor

Russell Gardens

Saddle Rock

Sands Point

Sea Cliff

South Floral Park

South Hempstead Fire Department

Stewart Manor

Suffolk County Office of Emergency Management

Thomaston

Town of Hempstead

Town of North Hempstead

Town of Oyster Bay

Upper Brookville

Valley Stream

Westbury

Williston Park

Woodsburgh, Hewlett Neck & Hewlett Bay Park

Core Planning Group Kick-Off Meeting


February 3, 2020, 9:30 - 11:30 AM

Morrelly Center, 510 Grumman Road West, Bethpage, NY 11714

1. Core Planning Group Kick off Meeting Sign-in Sheet
2. Core Planning Group Kick off Meeting Agenda
3. Core Planning Group Kick off Meeting PowerPoint Presentation
4. Core Planning Group Kick off Meeting Summary

Sign-In Sheet Core Planning Group Kickoff Meeting

Date: 2/3/2020

Initial	Last Name	First Name	Organization
PB	Beckley	Patrick	NYS DHSES
PA/B	Broderick	Paul	NC DSS
SB	Brown	Shawn	Town of North Hempstead
SC	Clarke	Shannon	NYS DHSES
EC	Cole	Elizabeth	Long Island Regional Planning Council
[Signature]	Connolly	Robert	NCPD
[Signature]	Crean	Kevin	NC Office of Community Development - Mineola, NY
[Signature]	DeAngelo	Jim	Hagerty Consulting
	DeSimone	Ann	NC Department of Health
BF	Fonda	Bill	NYSDEC
	Ganim	David	Nassau County Soil and Water Conservation District
	Golio	Michael	NC Sheriff's Department & Correctional Center
	Gootman	Stephanie	FEMA 
	Guardino	Richard	Long Island Regional Planning Council
DWJ	Johnson	Diana	Nassau County Department of Human Services
	Kemins	Scott	Long Beach FD
RZK	Kreitzman	Ralph	NCVOA
	Mangano	Robert	Town of Oyster Bay
CM	Marks	Nicole	NCOEM
Sydney McKenna	McKenna	Sydney	Hagerty Consulting
TW	Messner	Timothy	NC Department of Parks, Recreation and Museums
	Mirando	John	Long Beach
	Monitz	Gary	FEMA
	Ortiz	Christopher	Glen Cove
SP	Park	Susan	NCOEM
[Signature]	Pilczak	Bohdan	NC Fire Marshal



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Core Planning Group Kickoff Meeting

Morrelly Center, 510 Grumman Road West, Bethpage, NY 11714

Monday, February 3, 2020 – Sign-in starts at 9:00 AM; the meeting begins promptly at 9:30 AM EST

Meeting Purpose: Introduce project, discuss purpose and benefits of mitigation planning, review hazards and capabilities, develop mitigation goals, and outline next steps of project.

Meeting Audience: Nassau County Hazard Mitigation Core Planning Group Members

Topic	Presenter	Time
Welcome & Introductions	Susan Park, Nassau County Office of Emergency Management Jim DeAngelo, Hagerty Consulting	9:30 – 9:40 AM
Overview of a Hazard Mitigation Plan Update <ul style="list-style-type: none"> • Purpose and benefits • State and federal requirements • Planning process • Stakeholder engagement 	Jim DeAngelo	9:40 – 10:10 AM
Changes Since Last Plan Update <ul style="list-style-type: none"> • Hazards • Development • Planning and Ordinances 	Sydney McKenna, Hagerty Consulting	10:10 – 10:40 AM
Mitigation Strategy Session <ul style="list-style-type: none"> • Review and update the mitigation goals and objectives 	Jim DeAngelo	10:40 – 11:10 AM
Project Approach <ul style="list-style-type: none"> • Deliverables and project timeline • Data requests 	Jim DeAngelo	11:10 – 11:25 AM
Closing Remarks	All	11:25 – 11:30 AM

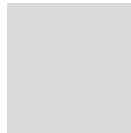
Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Core Planning Group Kickoff Meeting

February 3, 2020



Introduction



Susan Park

Director of Recovery, Nassau County OEM

Email: SPark@nassaucountyny.gov



Jim DeAngelo

Senior Managing Associate

Email: Jim.Deangelo@hagertyconsulting.com



Sydney McKenna

Managing Associate

Email: Sydney.Mckenna@hagertyconsulting.com





Introduction

Now we want to hear from you



Agenda

Topic	Time
Welcome & Introductions	9:30 – 9:40 AM
Overview of a Hazard Mitigation Plan Update	9:40 – 10:10 AM
Changes Since Last Plan Update	10:10 – 10:40 AM
Mitigation Strategy Session	10:40 – 11:10 AM
Project Approach	11:10 – 11:25 AM
Closing Remarks	11:25 – 11:30 AM



Overview of a Hazard Mitigation Plan Update



Goals and Objectives for the Plan Update

- **Overall Goal:** Leverage current standards, regulations, guidance, and hazard information to ensure the Nassau County Multi-Jurisdictional Hazard Mitigation Plan meets and exceeds New York State and Federal Emergency Management Agency (FEMA) requirements.



Nassau County Map

[Source](#)



Long Beach, NY – Damage after Superstorm Sandy 2012

[Source](#)



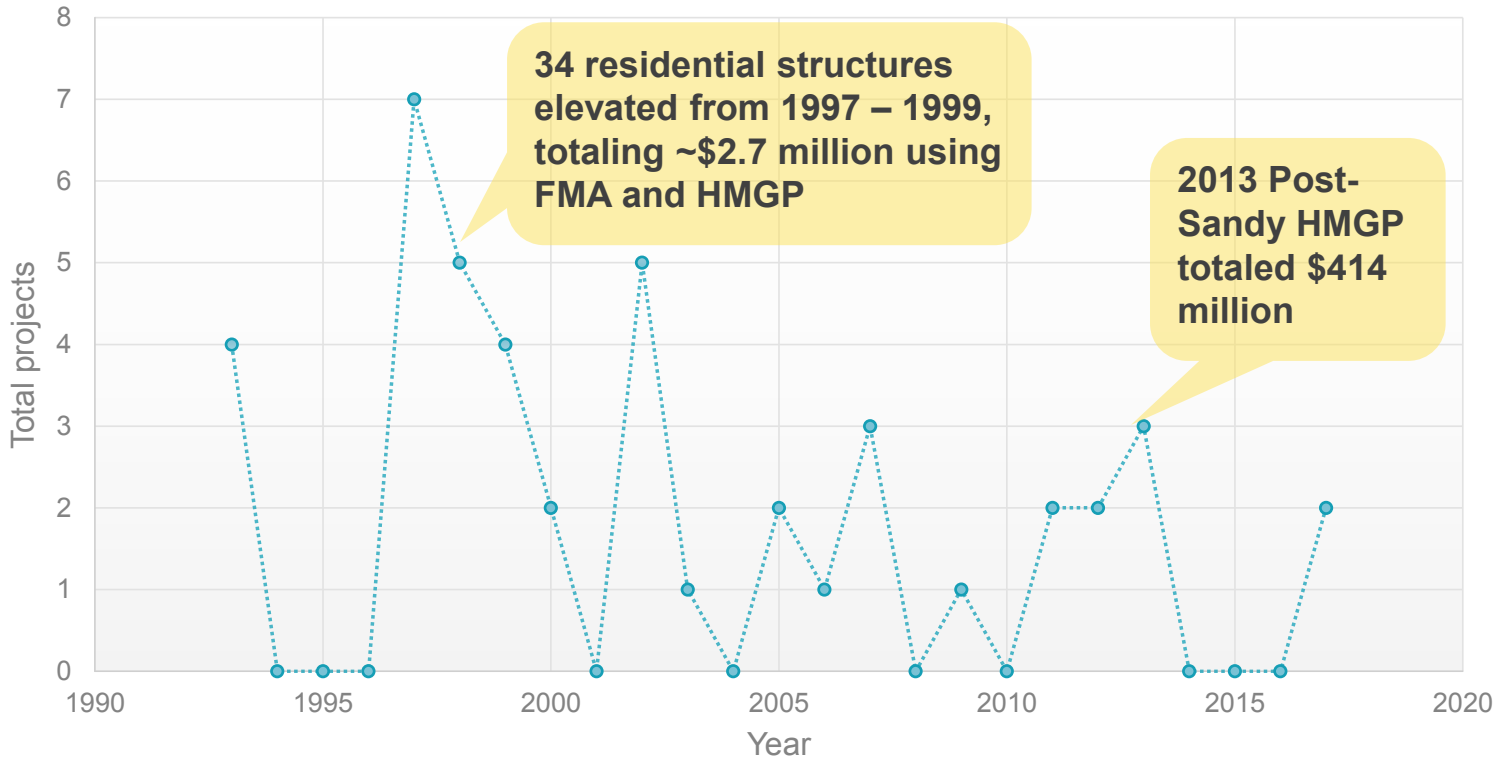
Purpose and Benefits of Hazard Mitigation Planning

- 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)
- Investment in your community's future safety and sustainability
- Educates the public and community officials about hazard risks and vulnerabilities of people, property, and infrastructure
- Promotes stronger partnerships among community stakeholders



Hazard Mitigation Grants

HMA Projects in Nassau County



Planning Process



Historical Context

- Previous *Nassau County Multi-Jurisdictional Hazard Mitigation Plan* adopted in **2014**.
- New updates guided by FEMA Local Mitigation Plan Review Guide (October 2011) and the New York State Hazard Mitigation Planning Standards Guide (2017).

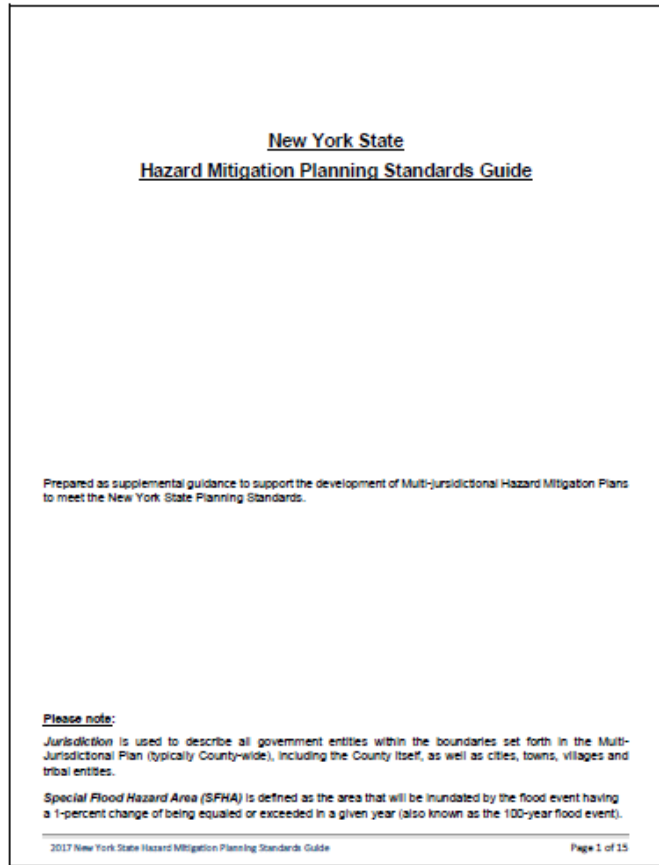


2014 Nassau County Multi-Jurisdictional
Hazard Mitigation Plan

[Source](#)



State Planning Requirements



New York State Hazard Mitigation Planning Standards

[Source](#)

The chart below shows the requirements as they appear on the plan review tool used by NYS DHSES and FEMA Region II to determine whether or not a submitted plan meets federal and state requirements.

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)		Met	Not Met
	ELEMENT F. ADDITIONAL STATE REQUIREMENTS – NYS DHSES HAZARD MITIGATION PLANNING STANDARDS.			
These are required actions for plans developed with NYS DHSES-administered funds.				
F1. Does the plan document how stakeholders were invited to participate at each phase of the planning process and provide a summary of feedback?				
F2. Do jurisdictions identify critical facilities, assess vulnerabilities and ensure protection to a 500-year flood event or worst case scenario?				
F3. Do jurisdictions containing an SFHA identify: a. potential sites for the placement of temporary housing units for residents displaced by disaster; and b. potential sites within the jurisdiction suitable for relocating houses out of the floodplain, or building new houses once properties in the floodplain are razed?				
F4. Do jurisdictions identify: a. routes and procedures to evacuate citizens prior to and during an event; and b. shelters for evacuated citizens, to include provisions for a range of medical needs, accommodation for pets, and compliance with the Americans with Disabilities Act (www.ada.gov)?				
F5. Do jurisdictions identify mitigation projects completed since the approval of the previous mitigation plan (or within the last five years)?				
F6. Does the plan include an annex for every jurisdiction within the County's boundaries?				
F7. Within each jurisdictional annex, are: a. projects developed in accordance with the NYS DHSES Proposed Projects Table; and b. two (2) NYS DHSES Action Worksheets provided?				
F8. Does the plan include a list of potential funding sources?				
F9. Does the plan assess how climate change may affect vulnerability to hazards, propose actions to address this, and discuss sea level rise (if applicable)?				
F10. Was the draft plan posted for public comment?				
Note: The applicant is required to address the 2018 NYS DHSES Hazard Mitigation Planning Standards as required actions for a hazard mitigation plan developed with funds administered by NYS DHSES.				
ELEMENT F: REQUIRED REVISIONS				
<i>Please see opportunities for improvement</i>				

Nassau County Hazard Mitigation Plan Update: CPG Kickoff



11

Federal Planning Requirements

Local Mitigation Plan Review Guide

October 1, 2011



FEMA Local Mitigation Plan Review Guide

[Source](#)

APPENDIX A: LOCAL MITIGATION PLAN REVIEW TOOL

The *Local Mitigation Plan Review Tool* demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The [Regulation Checklist](#) provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The [Plan Assessment](#) identifies the plan's strengths as well as documents areas for future improvement.
- The [Multi-jurisdiction Summary Sheet](#) is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction:	Title of Plan:	Date of Plan:
Local Point of Contact:		Address:
Title:		
Agency:		
Phone Number:		
		E-Mail:

State Reviewer:	Title:	Date:

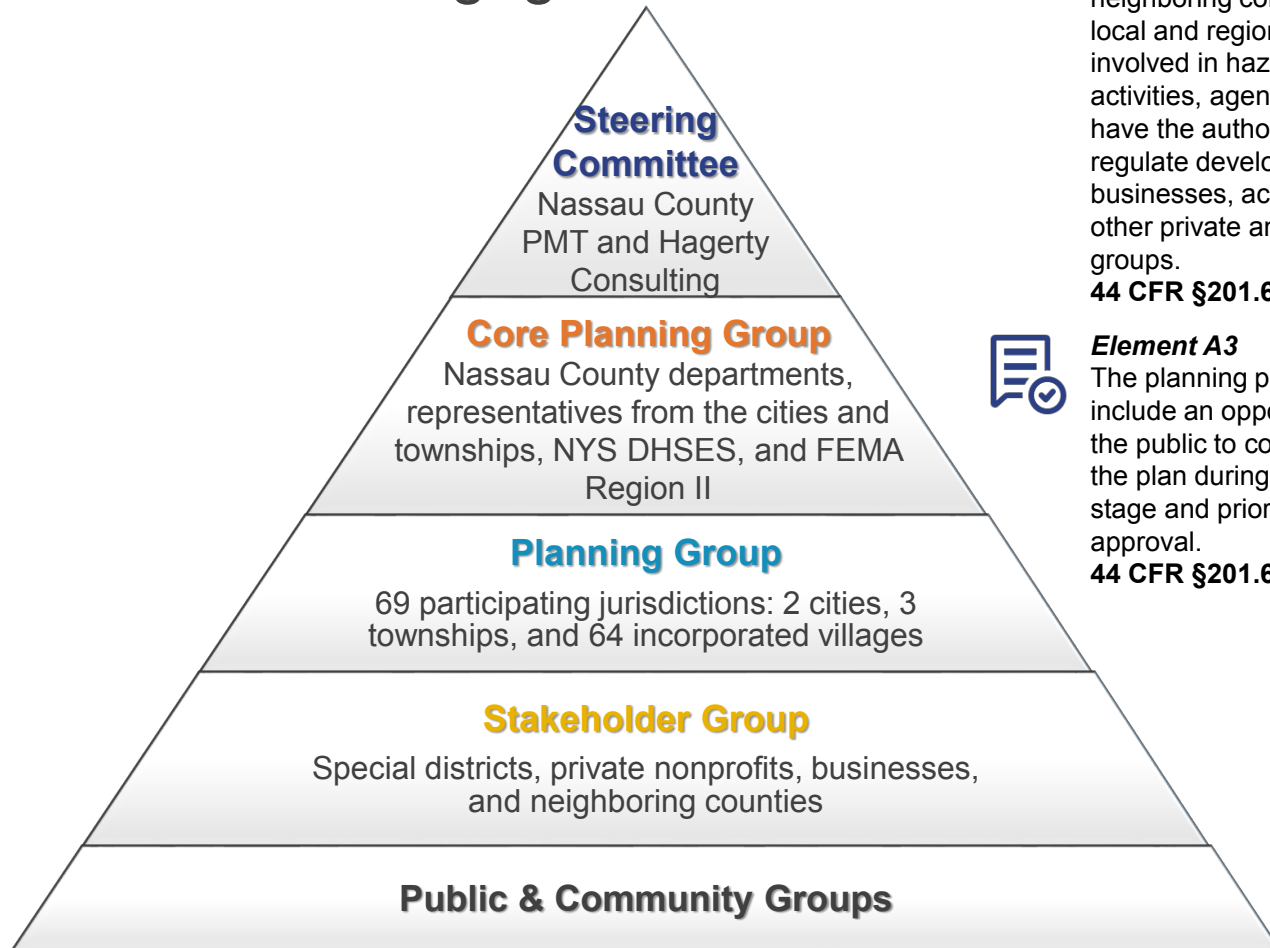
FEMA Reviewer:	Title:	Date:
Date Received in FEMA Region (Insert #)		
Plan Not Approved		
Plan Approvable Pending Adoption		
Plan Approved		

Nassau County Hazard Mitigation Plan Update: CPG Kickoff



12

Stakeholder Engagement



Element A2

The planning process shall include an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development, businesses, academia, and other private and non-profit groups.

44 CFR §201.6(b)(2)



Element A3

The planning process shall include an opportunity for the public to comment on the plan during the drafting stage and prior to plan approval.

44 CFR §201.6(b)(1)



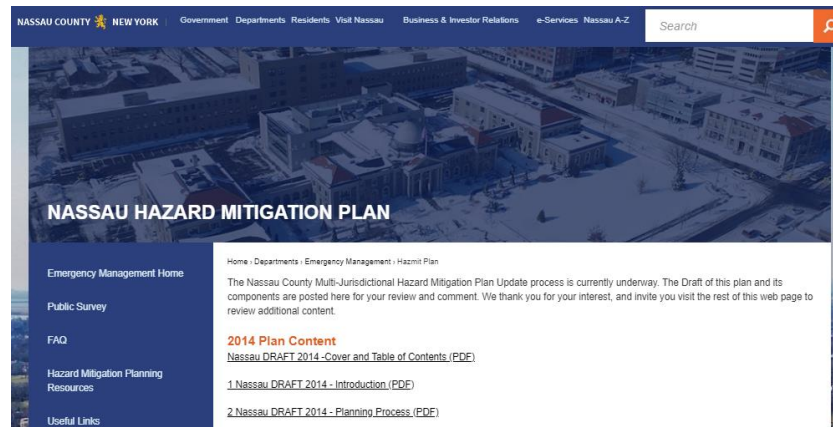
Project Communication Platforms



In-person workshops,
preceded by webinars



Monthly electronic newsletters
through Mail Chimp



Information sharing through Nassau Hazard
Mitigation Plan webpage



Changes Since Last Plan Update



Hazard Review

2014 HMP Hazards

- Coastal Erosion
- Drought
- Earthquakes
- Floods
- Extreme Winds
- Hurricanes and Tropical Storms
- Landslide
- Tornados
- Wave Action
- Winter Storms and Ice Storms

Element B1

The risk assessment shall include a description of the type, location and extent of all natural hazards that can affect the jurisdiction.

44 CFR §201.6(c)(2)(i)



Hazard Review

Should any additional hazards be considered for this plan update?

What, if any, significant hazard events have happened in the last 5 years?

Element B1

The risk assessment shall include a description of the type, location and extent of all natural hazards that can affect the jurisdiction.

44 CFR §201.6(c)(2)(i)



Proposed 2020 HMP Hazards

- Coastal Hazards (including erosion, wave action, and sea level rise)
- Cold Wave
- Drought
- Earthquakes
- Flooding
- Hail
- Heat Wave
- Hurricane and Tropical Storms
- Ice Storms
- Landslide
- Lightning
- Tornadoes
- Winter Storms
- Wind



Development Review

- For the 2014 plan, *2010 Nassau County Comprehensive Plan* was reviewed for information regarding land use and development trends.

Where is new development planned?

What has changed from what was projected 5 years ago?



Element D1

A local jurisdiction must review and revise its plan to reflect changes in development.

44 CFR §201.6(d)(3)



Planning & Ordinance Review

Nassau County Legal and Regulatory Capability (2014):

- Subdivision Ordinance
- Comprehensive Plan
- Capital Improvement Plan
- Economic Development Plan
- Emergency Response Plan
- Post-Disaster Recovery Plan
- Real Estate Disclosure Ordinance

What are some new plans you have since the last update?

What code updates should be considered in the plan update?

Any other plans, ordinances, and policies that help prevent and minimize future damages resulting from hazards?

Element C1

The plan shall include a mitigation strategy [...] based on existing authorities, policies, programs, and resources, and its ability to expand on and improve these existing tools.

44 CFR §201.6(c)(3)



Mitigation Strategy Session

Nassau County Hazard Mitigation Plan Update: CPG Kickoff



Creating Meaningful Goals and Objectives

- Goals explain what the community wants to achieve with the hazard mitigation plan (i.e., the “vision of success”). Goal statements are broad and long-term.
- Objectives, though not required, describe how to measure progress toward a goal. They are broader than an action and can help organize mitigation actions.

Goals Should:

- Consider community impact and input
- Be comprehensive of all jurisdictions
- Address all findings in the Risk Assessment
- Align with community values and state goals

Element C3

The hazard mitigation strategy shall include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

44 CFR §201.6(c)(3)(i)



Avoid Goals That:

- Are hazard-specific goals
- Use unclear or confusing language
- Benefit only a singular group



Nassau County 2014 Goals

- Promote **disaster-resistant development**.
- Build and support local capacity to **enable the public to prepare for, respond to, and recover from disasters**.
- Reduce the possibility of damage and losses due to **drought**.
- Reduce the possibility of damage and losses due to flooding caused **by floods and coastal storms**.
- Reduce the possibility of damage and losses due to **earthquakes**.
- Reduce the possibility of damage and losses due to **landslides**.
- Reduce the possibility of damage and losses due to **coastal erosion**.
- Reduce the possibility of damage and losses due to **winter storms**.
- Reduce the possibility of damage and losses due to **tornadoes and high winds caused by windstorms and hurricane winds**.
- Reduce the possibility **of damages to emergency facilities from flooding and wind damage**.



New York State 2019 Goals

1

Promote a comprehensive state hazard mitigation policy framework for effective mitigation programs that includes **coordination among federal, state, and local organizations** for planning and programs.

2

Protect existing property including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.

3

Increase awareness of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.

4

Encourage the development and implementation of long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.

5

Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.



2014 Goals

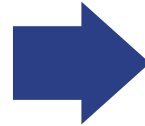
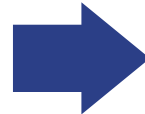
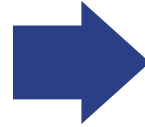
Promote **disaster-resistant development**.

Build and support local capacity to **enable the public to prepare for, respond to, and recover from disasters**.

Reduce the possibility of damage and loss due to drought, floods, coastal storms, earthquakes, landslides, coastal erosion, winter storms, hurricanes, and tornados.

N/A

N/A



Proposed 2020 Goals

Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.

Build and support local capacity to **prepare for, respond to, and recover from disasters**.

Protect existing property including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.

Increase awareness of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.

Develop and implement long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.





Discussion

Are there any other goals to add for the plan update?

How do these goals align with those found in other Nassau County plans? Are we missing any?



Project Approach



Project Approach

Task 1

Project Initiation, Management, and Stakeholder Organization

- ✓ CPG Kickoff Meeting (Today!)
- ✓ Stakeholder Engagement Strategy
- ✓ Pre-Workshop Webinar 1
- ✓ Planning Committee Kickoff Workshop
- ✓ Data Collection

Timeframe

2 Months

Task 2

Hazard, Risk, Vulnerability, and Capability Assessment

- ✓ Complete Level 1 Hazus
- ✓ Hazard Ranking
- ✓ Draft Risk and Vulnerability Assessment
- ✓ Interim Public Meeting

Timeframe

3 Months

Task 3

Develop Mitigation Strategies and Activities

- ✓ Pre-Workshop Webinar 2
- ✓ Risk Review and Mitigation Strategy Workshop
- ✓ Jurisdictional Workshops
- ✓ Draft Mitigation Action Plan

Timeframe

3 Months

Task 4

Plan Finalization and Approval

- ✓ Public Hazard Mitigation Workshop
- ✓ Draft 1 of Plan
- ✓ Plan Review Meeting
- ✓ Draft 2 of Plan
- ✓ Public Review Period
- ✓ Submission to DHSES and FEMA
- ✓ Draft Resolution Plan Adoption

Timeframe

6 Months

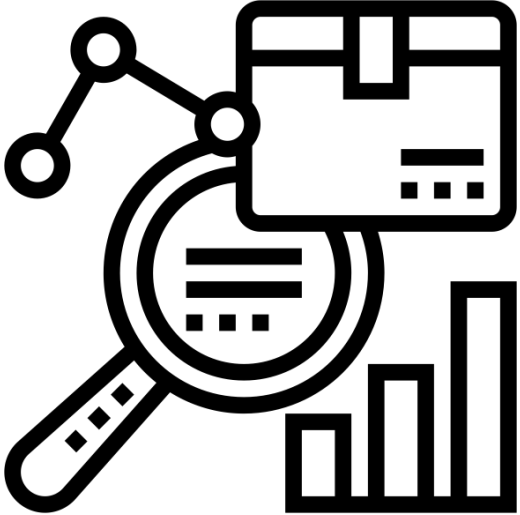


Upcoming Project Dates

Meeting	Timing
Pre-Workshop Webinar 1	February 19, 2020
Planning Committee Kickoff Workshop	March 5, 2020
Interim Public Meeting	April 2020
Pre-Workshop Webinar 2	April 2020
Risk Review and Mitigation Strategy Workshop	April 2020
Jurisdictional Workshops	April – May 2020
Final Public Meeting	June 2020



Data Requests



Closing Remarks

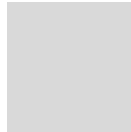


Next Steps

- **Hagerty Consulting:**
 - Finalize Project Management Plan and Outreach Strategy
 - Collect and review additional background documents and data
 - Draft Risk and Vulnerability Assessment
 - Prepare for the Planning Committee Workshop and webinar
- **Core Planning Group**
 - Compile and transmit data for consideration in the risk assessment, especially critical facilities and county/municipal owned buildings and infrastructure
 - Attend the Planning Committee Workshop (*March 5, 2020*) and Pre-Workshop webinar (*February 19, 2020*)



Questions?



Susan Park

Director of Recovery, Nassau County OEM

Email: SPark@nassaucountyny.gov



Jim DeAngelo

Senior Managing Associate

Email: Jim.Deangelo@hagertyconsulting.com



Sydney McKenna

Managing Associate

Email: Sydney.Mckenna@hagertyconsulting.com





Thank You



Core Planning Group Kickoff Meeting Summary

February 3, 2020 | 9:30 AM – 11:30 AM

Nassau County Office of Emergency Management

Introduction

Susan Park, the Hazard Mitigation Plan (HMP) Manager for Nassau County Office of Emergency Management, welcomed the Core Planning Group (CPG) to the meeting. Hagerty introduced the consulting team, asked the CPG to introduce themselves, and reviewed the meeting agenda.

Overview of a Hazard Mitigation Plan Update

Hagerty explained the purpose and overall goal of the Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update. HMPs increase access to certain federal grant programs that can be used to fund mitigation projects identified in the plan. Historically, Nassau County has utilized FEMA's Hazard Mitigation Grant Program for a variety of flood mitigation projects, with the largest Hazard Mitigation Grant Program awards after Hurricane Sandy, totaling \$414 million.

Hagerty asked the CPG who has worked on HMGP projects in the past?

- One community mentioned they went through an HMGP grant application process to secure funding for home elevations.
- New York State Department of Homeland Security and Emergency Services (DHSES) noted that there was a disaster declaration from the Halloween Storm in 2019. HMGP will be announced in June 2020. Despite the current Nassau County plan being expired, it will not inhibit Nassau County jurisdictions from applying for HMGP grants.

Susan Park noted that mitigation actions can be more than structural projects. There are several upcoming opportunities for communities to participate in throughout 2020 that relate to hazard mitigation:

- Participate in the Long Island Community Rating System User Group that will meet throughout the year.
- Attend or host a Mental Health First Aid class can provide you and your team a way to become more resilient and improve the livelihood of people.
- Preparedness training classes that are free and coordinated by the Nassau County Office of Emergency Management can build capacity and educate.

Hagerty reviewed the New York State DHSES 2017 local mitigation planning requirements, which are new since the previous Nassau County HMP update. Nassau County's plan update must meet these requirements as a condition of the grant they received through the state to update the plan.

Hagerty reviewed the stakeholder engagement structure for the plan update:

- The Core Planning Group (comprised of Nassau County, Long Island and State agencies, FEMA, two cities, and three townships) will be responsible for providing data and information that will inform the overall structure and composition of the HMP.
- The CPG is part of the Planning Committee, which also consists of the 64 incorporated villages. The Planning Committee will be responsible for contributing information and data to update and develop an annex for each participating jurisdiction. A series of forms/questionnaires will be used to collect this information throughout the planning process.

Changes since Last Plan

In this section of the kickoff meeting, Hagerty walked the CPG through an exercise to review and discuss how hazards, development, and planning has changed in Nassau County since the last plan update.

Hazard Review

Hagerty reviewed the 2014 HMP hazards with the CPG and talked about what has changed in the last five years. The CPG then reviewed a list of proposed hazards for the 2020 HMP update and discussed anything else that was missing or should be changed. The impacts of climate change will be discussed within the applicable hazard profiles.

Hazards profiled in the HMP update will include:

- Coastal Hazards (coastal erosion, sea level rise, wave action, tsunami)
- Drought
- Extreme Temperatures
- Flooding
- Ground Failure (Earthquakes, Landslides, and Sink Holes)
- Hail
- Hurricane and Tropical Storms
- Lightning
- Tornados
- Severe Winter Weather
- Wind

Changes in Development

- Nassau County has several newly completed and ongoing development projects. A lot of this new development is higher density construction that puts a strain on first responders and existing stormwater management facilities because of the higher density.
- New development or redevelopment is not necessarily happening with resilience in mind. Building officials do not always seem to have the ability to restrict development in hazard prone areas.
- Some of the new redevelopment projects mentioned included:

Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

- The Nassau Hub is a large-scale redevelopment project around the Nassau Veterans Memorial Coliseum in Uniondale that will transform nearly 70-acres of parking lots into a walkable, mixed-use downtown in the heart of Nassau County.
- Southwest Nassau Villa View Estates is a future development project.
- Potential redevelopment of golf courses.
- Belmont Park redevelopment with a stadium and stores.

Changes in Planning and Ordinances

- County does not have zoning authority over jurisdictions, therefore there are a number of different zoning codes used throughout the County. Only the fire code transcends these boundaries, the Nassau County fire prevention code.
- 2010 master plan has not been adopted; an update is forthcoming in the future.

Mitigation Strategy Session

In this session, Hagerty familiarized the CPG with the mitigation strategy section of the HMP, which serves to capture the goals and actions that communities want to achieve to reduce or avoid long-term vulnerabilities to the identified hazards. The CPG learned about best practices for developing plan goals. Hagerty reviewed the 2014 plan goals and suggested potential updates. The 2019 New York State HMP goals were also reviewed and considered for the Nassau County plan update.

The CPG considered a revised list of plan goals that consolidates several of the hazard specific goals from the 2014 plan, rephrases a few goals to be broader, and adds a couple new goals to increase public awareness about hazards, preserve natural systems, and encourage redevelopment that is aware of natural hazard risk. The CPG is encouraged to review this list of **proposed 2020 goals** and provide comments to Hagerty.

Proposed 2020 Mitigation Goals:

1. **Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.**
2. **Build and support local capacity to prepare for, respond to, and recover from disasters.**
3. **Protect existing property including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.**
4. **Increase awareness of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.**
5. **Develop and implement long-term, cost effective, and resilient mitigation projects to preserve or restore the functions of natural systems.**
6. **Improve coordination between land use and redevelopment planning to encourage safe, economically sound investments.**

Project Approach

Hagerty reviewed the project tasks and key deliverables (see graphic below) and highlighted key upcoming dates. Hagerty also discussed the types of data that will be requested from the CPG to inform the Risk Assessment (e.g., critical facility data).



Next Steps

- Hagerty Consulting:
 - Finalize Project Management Plan and Outreach Strategy
 - Collect and review additional background documents and data
 - Draft Risk and Vulnerability Assessment
 - Prepare for the Planning Committee Workshop and webinar
- Core Planning Group
 - Compile and transmit data for consideration in the risk assessment, especially critical facilities and county/municipal owned buildings and infrastructure
 - Attend the Planning Committee Workshop (*March 5, 2020*) and Pre-Workshop webinar (*February 19, 2020*)

Attendees

Last Name	First Name	Organization
Beckley	Patrick	NYS DHSES
Broderick	Paul	NC DSS
Brown	Shawn	Town of North Hempstead
Cavallo	Corrina	NYS DHSES
Clarke	Shannon	NYS DHSES
Cole	Elizabeth	Long Island Regional Planning Council
Connolly	Robert	NCPD
Conway	Elliot	Village of Upper Brookville and Nassau County Village Officials Association
Corbett	Richard	City of Long Beach
DeAngelo	Jim	Hagerty Consulting
Fonda	Bill	NYSDEC
Gootman	Stephanie	FEMA
Johnson	Diana	Nassau County Department of Human Services
Kreitzman	Ralph	NCVOA
Kutner	Kenneth	SCOEM
Lenz	Jeanne	SCOEM
Marks	Nicole	NCOEM
McKenna	Sydney	Hagerty Consulting
Messner	Timothy	NC Department of Parks, Recreation and Museums
Murray	Kenneth	NCPD Homeland Security
Park	Susan	NCOEM
Pilczak	Bohdan	NC Fire Marshal
Ringhauser	Jillian	NYS OEM (DHSES)
Taggart	Karen	NC Office of the County Executive
Viana	David	NC Department of Public Works
Zitani	Brian	NYS Floodplain and Stormwater Managers Association

Planning Committee Pre-Workshop Webinar

February 1, 2020, 10:30 to 11:30 AM

February 20, 2020, 1:00 - 2:00 PM

Note: This webinar was conducted twice. Attendees were requested to attend one of the two webinars.

1. Planning Committee Pre-Workshop Webinar Invitation
2. Planning Committee Pre-Workshop Webinar PowerPoint Presentation
3. Planning Committee Pre-Workshop Webinar Attendee List



Register Now!

*The Planning Committee will convene on **March 5, 2020** from **9:00 am to 12:00 pm** for the **Hazard Mitigation Kickoff Workshop** to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan. It is essential that you attend this workshop as a jurisdiction participating in the plan update.*

[Click here to register for the workshop](#)

At this workshop, you will become familiar with hazard mitigation planning and understand your role in the update process. Please be prepared to share the following information about your jurisdiction:

- A general description of how natural hazards impact your community and any notable recent occurrences;
- New planning efforts and recent changes to codes and ordinances related to risk reduction and hazard mitigation; and
- Legal, administrative, fiscal, and technical capabilities that can help to conduct mitigation projects.

To prepare you to attend the workshop, **please also register to attend one of the following informational webinars:**

[Click here to register for 2/19/20 from 10:30 to 11:30 AM](#)

[Click here to register for 2/20/20 from 1:00 to 2:00 PM](#)

If you have any questions, please contact Susan Park at (516) 573-9642 or spark@nassaucountyny.gov.

Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Planning Committee Pre-Workshop Webinar

February 19, 2020





Introductions



HAGERTY

Sydney McKenna

Deputy Project Manager

Hagerty Consulting

Sydney.McKenna@hagertyconsulting.com



About Hagerty Consulting



2001

Founded in
Evanston, IL



130+

Full-time
professionals



Successfully guided states,
regions, jurisdictions, and
transit agencies through
compliant and inclusive
hazard mitigation plan
updates.



Since 2001

Supported the nation's
largest disaster recovery
efforts, including 9/11,
Katrina, Sandy, Harvey,
CA Wildfires, as well as
dozens of others.



**Experienced in all
federal grant programs**
Including FEMA PA, CDL,
HMGP, HUD CDBG-DR,
FHWA, etc.



Today's Agenda

About Hazard Mitigation Planning

- Background and outcomes of this plan update

Your Role

- Planning Committee responsibilities

What to Expect

- March 5th workshop overview and next steps

Questions

Use the chat box to submit questions throughout the webinar. We will answer at the end.





About Hazard Mitigation Planning

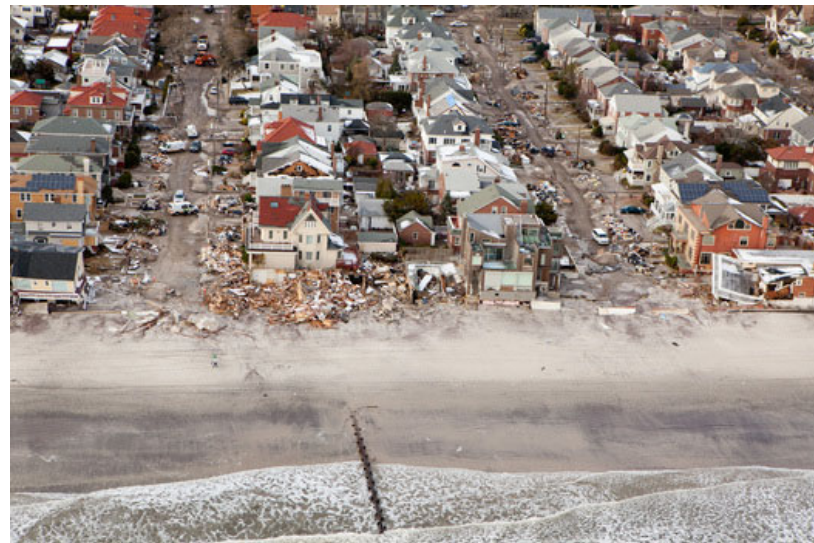


Goals and Objectives for the Plan Update

Leverage current standards, regulations, guidance, and hazard information to ensure the Nassau County Multi-Jurisdictional Hazard Mitigation Plan meets and exceeds New York State and Federal Emergency Management Agency (FEMA) requirements.



Nassau County Map
[Source](#)



Long Beach, NY – Damage after Superstorm Sandy 2012

[Source](#)



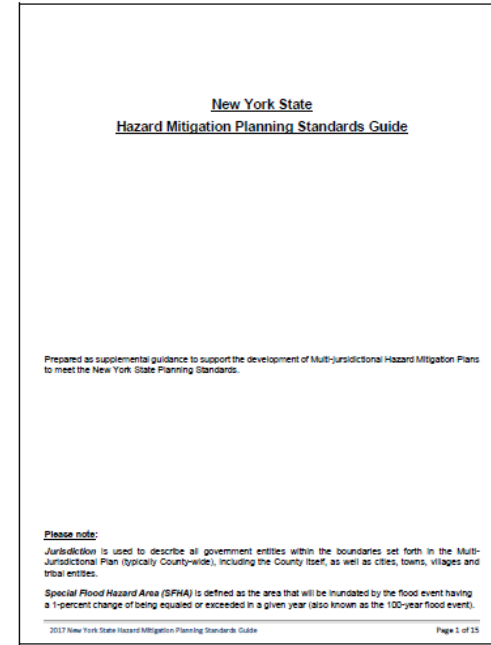
Purpose and Benefits of Hazard Mitigation Planning

- 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)
- Promotes stronger partnerships among community stakeholders
- Investment in your community's future safety and sustainability
- Educates the public and community officials about hazard risks and vulnerabilities of people, property, and infrastructure



Historical Context

- Previous *Nassau County Multi-Jurisdictional Hazard Mitigation Plan* adopted in 2014
- New updates will be guided by:
 - FEMA Local Mitigation Plan Review Guide (October 2011)
 - New York State Hazard Mitigation Planning Standards Guide (2017)



Local Mitigation Plan Review Guide

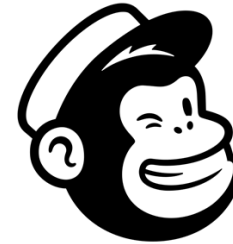
October 1, 2011



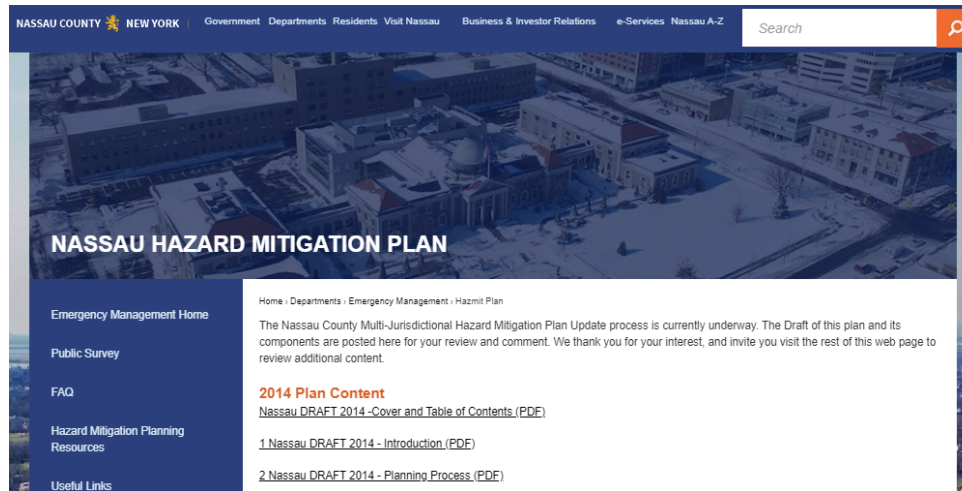
Project Communication Platforms



In-person workshops,
preceded by webinars



Monthly electronic newsletters
through Mail Chimp



Information sharing through Nassau Hazard
Mitigation Plan webpage

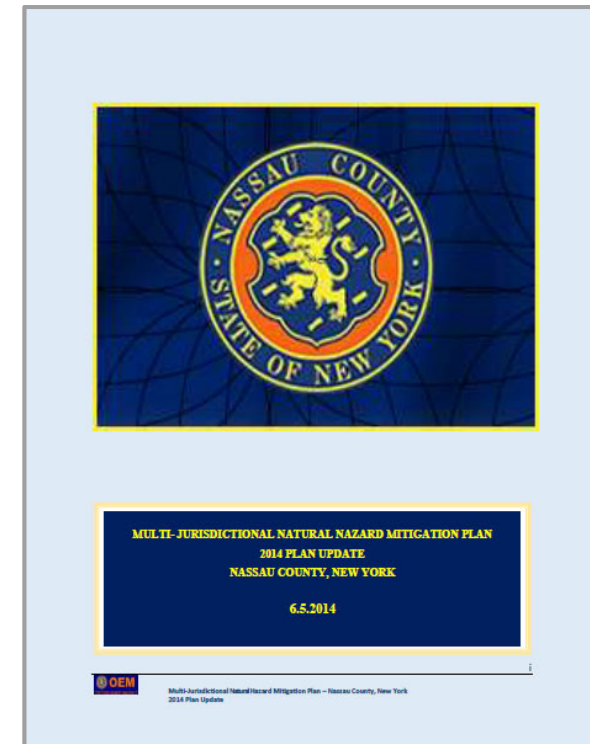


Planning Committee Pre-Workshop Webinar



2021 Plan Outcomes

- The **base plan** will be updated to include:
 - ✓ A countywide **assessment of risk to natural hazards**
 - ✓ Countywide **goals for mitigation** that align with current county and state priorities
 - ✓ A **roadmap for maintaining the plan** over the next five years, including evaluation of mitigation projects and continued public participation



2014 Nassau County Multi-Jurisdictional Hazard Mitigation Plan
[Source](#)



2021 Plan Outcomes

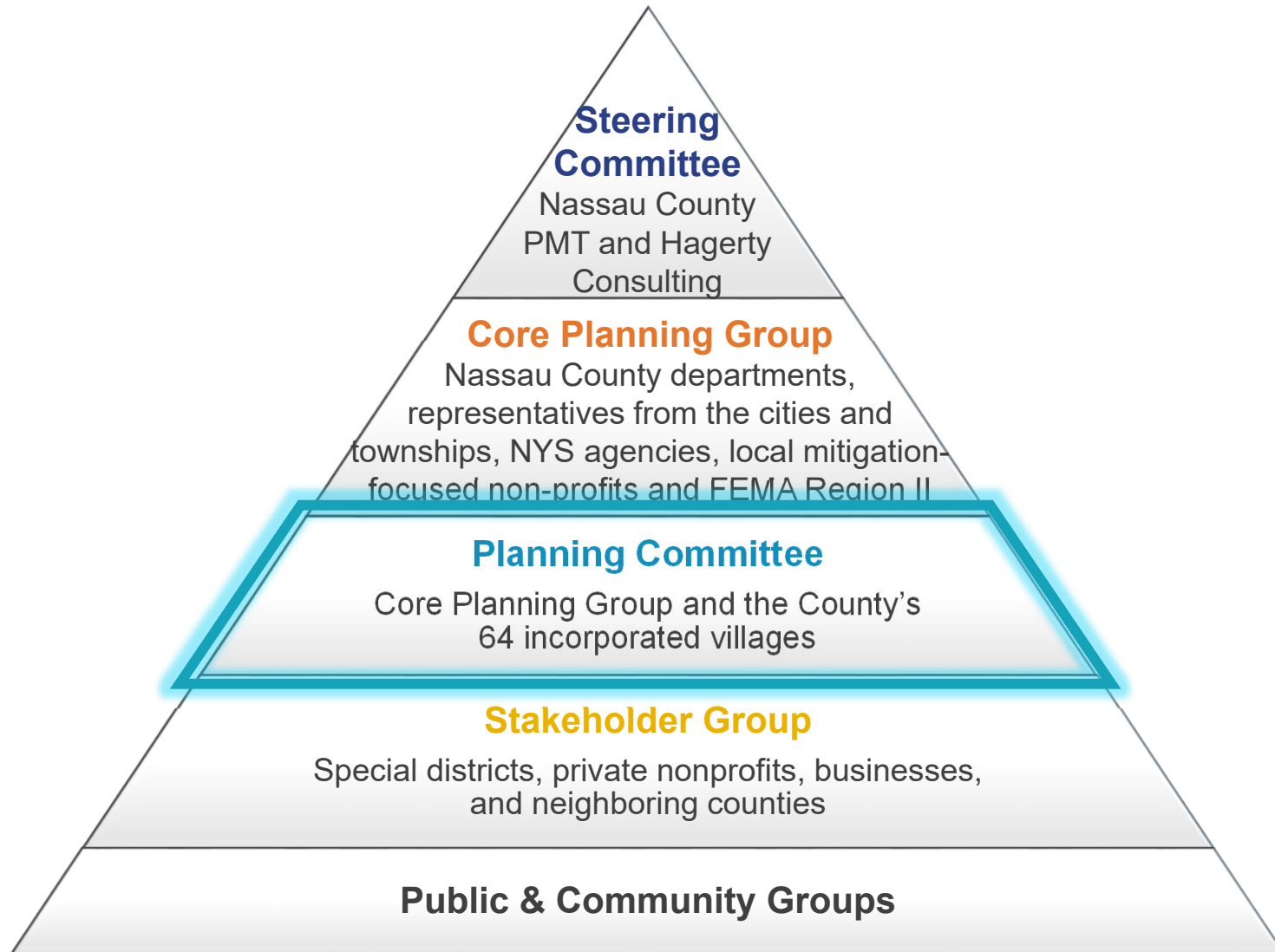
- **Each jurisdiction will have its own annex** to the base plan that includes:
 - ✓ Geography, demographics, and development
 - ✓ Hazard history and vulnerabilities
 - ✓ Critical facilities
 - ✓ Capabilities
 - ✓ Mitigation projects
 - ✓ National Flood Insurance Program summary



Your Role



Stakeholder Engagement





Planning Committee Expectations

- ✓ **Participate** in all in person workshops and webinars
- ✓ **Fill out and return** requested surveys of information
- ✓ **Develop** mitigation action worksheets
- ✓ **Review** and comment on drafts of the hazard mitigation plan

Time is of the essence!



Key Dates and Milestones

Milestone	Timing
Planning Committee Kickoff Workshop	March 5
Interim Public Meeting	April 22, 2020
Risk Review and Mitigation Strategy Workshop	April 22, 2020
Jurisdictional Workshops	May 5 – 7 and 12 – 14, 2020
Planning Committee Hazard Mitigation Workshop	July 8, 2020
Planning Committee Plan Review Meeting	August 4, 2020
Final Public Meeting	August 19
Submit Final Draft Plan to NYS and FEMA for review	September 2020 – January 2021
Plan Adoption	January – March 2021





What to Expect



Planning Committee Kickoff Workshop



Key Objectives:

- Review hazard mitigation planning process and project approach
- Examine previous plan and discuss changes to countywide hazards and mitigation goals
- Review components of jurisdictional annex documents, including:
 - Hazard Review
 - New Development Review
 - Capability Assessment Review
 - National Flood Insurance Program Review
- *Post Workshop: Technical Assistance*



How will jurisdictional annex documents be developed?

- A series of surveys will be distributed **electronically** the day of the workshop
- At the workshop, we will **demonstrate** how to access the surveys and fill them out
- After the workshop, **technical assistance** will be provided to fill out the surveys



Hazard Review



Reflecting on the last five years...

- How have natural hazards impacted people, the economy, public health, natural systems, and buildings and infrastructure in your community?
- Which of these hazards do you consider your community most vulnerable to?

Who is responsible?

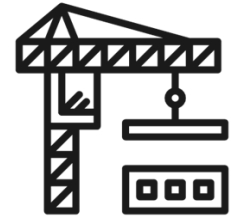
Planning
Committee
Member

For the workshop...

- Consider and reflect on how natural hazards have impacted different parts of your community over the last five year.



New Development Review



- What's happened in the last 5 years?
- What's planned for the next 5 years?
- Is any of this development in regulatory floodplains? (e.g., 100-year floodplain)

Who is responsible?

Building
Department,
Planner,
Engineer

For the workshop...

- Consult with your jurisdiction's building department, planners, developers, and engineers to begin to understand recent development in your community.



Capability Assessment Review



- What is a “capability”?
 - *People, plans, ordinances, resources, and equipment that enable you to do mitigation projects.*
- What capabilities matter for hazard mitigation planning?
 - Legal and Regulatory
 - Administrative and Technical
 - Fiscal

Who is responsible?

Planning
Committee
Member

For the workshop...

- Identify what capabilities your jurisdiction has used in the past to complete mitigation work. Identify if any gaps or road blocks have prevented mitigation projects in the past.



National Flood Insurance Program Compliance Review



- Each jurisdiction's annex must:
 - Address that jurisdiction's participation in the National Flood Insurance Program, and
 - Describe their plan for continued compliance through their floodplain management program (if applicable).

**Who is
responsible?**

Floodplain
Administrator

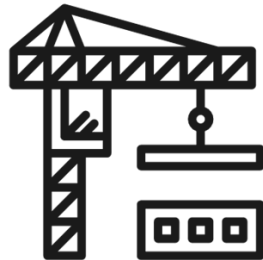
For the workshop...

- Identify your jurisdiction's floodplain administrator.



How to Prepare

- ✓ Consider natural hazard impacts on your community
- ✓ Begin to collect an understanding of recent and planned development
- ✓ Think about what resources have enabled mitigation work in the past and what may be missing
- ✓ Identify your jurisdiction's floodplain administrator





Closing Remarks





Questions?

Contact:

Susan Park

Director of Recovery, Nassau County OEM

Email: SPark@nassaucountyny.gov

Sydney McKenna

Deputy Project Manager, Hagerty Consulting

Email: Sydney.McKenna@hagertyconsulting.com





Thank You



2/19/20 Pre-Workshop Webinar Attendee List

Last Name	First Name	Organization/ Jurisdiction
Acquavella	Steven	Village of Valley Stream
Alfano-Hardy	Maria	Village of Bayville
Bailey	James	Village of East Williston
Castro	Gerry	Village of Lawrence
Clark	Scott	Village of Hempstead
Clarke	Shannon	New York State Division of Homeland Security and Emergency Services
Conway	Elliot	Village of Upperbrookville
Cribbin	Rob	Village of Lynbrook
Daliposki	Sam	Village of Roslyn
Donno	Barbara	Village of Plandome Manor
Drucker	Arlene	Village of Plandome Heighs
Farrell	Patrick	Village of Lake Success
Gootman	Stephanie	FEMA Region II
Groth	Douglas	Village of Bayville
Guardino	Richard	Long Island Regional Planning Council
Hobbs	Waylyn	Village of Villageof Hempstead
Holdener	Richard	Village of Freeport
Iannucci	Pasquale	Village of Westbury
Johnson	Diana	Nassau County Department of Human Services
Jurcsak	Michael	Village of Russell Gardens
Kreitzman	Ralph	Nassau County Village Officials Association
Kutner	Kenneth	Suffolk County
Lenz	Jeanne	Suffolk County
Lucidi	Enrico	Village of Lattintown
Macri	Robert	Village of Massapequa Park
Malman	Randi	Village of Plandome Manor
Marcus	Renee	Village of Floral Park
Marino	Anthony	Nassau County Department of Public Works
Marks	Nicole	Nassau County Office of Emergency Services
McDermott	Patrick	Village of Lake Success
McKenna	Sydney	Hagerty Consulting
Mergel	Ted	Village of Oyster Bay Cove
Messner	Timothy	Nassau County Department of Parks, Recreation and Museums
Monitz	Gary	FEMA Region II
Mullen	Thomas	Village of Upper Brookville
Pape	Emil	Village of Bellerose
Park	Susan	Nassau County Office of Emergency Services
Reilly	Kevin	Village of Rockville Centre
Roca	Frank	Village of Valley Stream
Sandas	George	Village of Hempstead
Sgambati	Dennis	Village of Hempstead
Spina	Robert	Village of Brookville
Stanton	Brendan	Nassau County Office of Emergency Services
Zitani	Brian	NYS Floodplain and Stormwater Managers Association

2/20/20 Pre-Workshop Webinar Attendee List

Last Name	First Name	Organization/Jurisdiction
Alves	Daniel	Old Westbury
Bunnell	Keith	Williston Park
Connolly	Robert	Nassau County
Corbett	Richard	City of Long Beach
Crean	Kevin	Nassau County
DeAngelo	Jim	Hagerty Consulting
Ganim	David	Nassau County Soil and Water Conservation District
Golio	Michael	Nassau County
Harris	Donna	Mill Neck
Holiday	Ruth Anne	Hagerty Consulting
Kaplan	Steve	Port Washington North
Kennedy	Bruce	Sea Cliff
Kugler	Josh	Mill Neck
Kusoff	Dina	Roslyn Harbor
Mangano	Robert	Town of Oyster Bay
McKenna	Sydney	Hagerty Consulting
Moorehead	Michael	Kings Point
Neubert	Jim	Great Neck
Park	Susan	Nassau County
Powers	Ed	Town of Hempstead
Ryder	Michael	Hewlett Harbor
Stanton	Brendan	Nassau County
Toscano	Tony	Muttontown
Zoller	Thomas	Cove Neck

Planning Committee Workshop

March 5, 2020, 9:00 AM - 12:00 PM

Morrelly Center, 510 Grumman Road West, Bethpage, NY 11714

1. Planning Committee Workshop Invitation
2. Planning Committee Workshop Sign in Sheet
3. Planning Committee Workshop One Pager
4. Planning Committee Workshop PowerPoint Presentation
5. Planning Committee Workshop Meeting Summary



Register Now!

*The Planning Committee will convene on **March 5, 2020 from 9:00 am to 12:00 pm for the Hazard Mitigation Kickoff Workshop** to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan. It is essential that you attend this workshop as a jurisdiction participating in the plan update.*

[Click here to register for the workshop](#)

At this workshop, you will become familiar with hazard mitigation planning and understand your role in the update process. Please be prepared to share the following information about your jurisdiction:

- A general description of how natural hazards impact your community and any notable recent occurrences;
- New planning efforts and recent changes to codes and ordinances related to risk reduction and hazard mitigation; and
- Legal, administrative, fiscal, and technical capabilities that can help to conduct mitigation projects.

To prepare you to attend the workshop, **please also register to attend one of the following informational webinars:**

[Click here to register for 2/19/20 from 10:30 to 11:30 AM](#)

[Click here to register for 2/20/20 from 1:00 to 2:00 PM](#)

If you have any questions, please contact Susan Park at (516) 573-9642 or spark@nassaucountyny.gov.

Initials	Last Name	First Name	Organization
MAH	Alfano-Hardy	Maria	Bayville
DA	Alves	Daniel	Old Westbury
	Arnold	Elliott	North Hills NOT ATTENDING EVER
GP	Bencic	Gregg	Old Westbury
MS	Bohrson	Michelle	Hagerty
PAT	Broderick	Paul	Nassau County Department of Social Services
	Brown	Shawn	Town of North Hempstead
KAB	Bunnell	Keith	Williston Park
	Castro	Gerry	Village of Lawrence
	Cherson	Steven	Atlantic Beach
MTL	Clifford III	Richard	Stewart Manor
ES	Cole	Elizabeth	Long Island Regional Planning Council
PC	Connolly	Robert	NCPD
SL	Conway	Elliot	Upper Brookville
DO	Coppola	Richard	New Hyde Park
KJC	Corbett	Richard	City of Long Beach
KOL	Crean	Kevin	Nassau County Office of Community Development
	Cribbin	Rob	Lynbrook
	Daliposki	Sam	Roslyn
	DaSilva	Joshua	Nassau County
	Dean	Tara	Stewart Manor
	DeSimone	Ann	Nassau County Department of Health
	Dommin	Shane	Sea Cliff
	Donno	Barbara	Plandome Manor
	Dougherty	Tim	Village of Brookville
	Falcones	Richard	Flower Hill
	Farrell	Patrick	Lake Success
	Fonda	Bill	NYS Department of Environmental Conservation
PF	Fulgieri	Phil	Westbury
MS	Gange	Michael	Town of Oyster Bay
	Ganim	David	Nassau County Soil and Water Conservation District
JG	Garcia	Juan	East Rockaway
KG	Ginnane	Kevin	Floral Park
	Golio	Michael	Nassau County Sheriff's Department & Correctional Center
	Goodman, M.D.	Kenneth	Matinecock
AS	Groth	Doug	Bayville
	Guardino	Richard	Long Island Regional Planning Council
TS	Gutierrez	Ted	Cove Neck
NA	Haagenson	Nora	Baxter Estates
	Harris	Donna	Mill Neck
	Harty	Brian	Farmingdale
	Hausner	Marie	East Williston
	Hobbs	Waylyn	Hempstead, Village of

Sign-In Sheet

Planning Committee Kickoff Meeting

Date: 3/5/2020

Initials	Last Name	First Name	Organization
<i>RD</i>	Holdener	Richard	Freeport
<i>RA</i>	Holiday	Ruth Anne	Hagerty
<i>PA</i>	Iannucci	Pasquale	Westbury
<i>JP</i>	Isola	John	Island Park
<i>DW</i>	Johnson	Diana	Nassau County Department of Human Services
<i>MJ</i>	Jurcsak	Michael	Russell Gardens
<i>SK</i>	Kaplan	Steven	
<i>KB</i>	Kennedy	Bruce	Sea Cliff
<i>JK</i>	Kreitzman	Ralph	Nassau County Village Officials Association
<i>JK</i>	Kugler	Josh	Mill Neck
<i>DK</i>	Kusoff	Dina	Roslyn Harbor
<i>KL</i>	Kutner	Kenneth	Suffolk County Office of Emergency Management
<i>KL</i>	Leddins	Kris	Hagerty
<i>LD</i>	Lenz	Jeanne	Suffolk County Office of Emergency Management
<i>LD</i>	Lublin	Setn	
<i>LD</i>	Lucidi	Enrico	Lattingtown
<i>LD</i>	MACRI	ROBERT	Massapequa Park
<i>DM</i>	Malman	Randi	Plandome Manor
<i>DM</i>	Mangano	Robert	Town of Oyster Bay
<i>DM</i>	Mannino	Angela	Brookville
<i>DM</i>	Marcus	Renee	Floral Park
<i>DM</i>	Marino	Anthony	Malverne
<i>DM</i>	Marks	Nicole	NCOEM
<i>DM</i>	Massaro	Louie	Great Neck
<i>DM</i>	McCarty	Meagan	Sands Point
<i>DM</i>	McDermott	Patrick	Lake Success
<i>DM</i>	McKenna	Sydney	Hagerty
<i>DM</i>	Mergel	Ted	Oyster Bay Cove
<i>DM</i>	Messner	Timothy	Nassau County Department of Parks, Recreation and Museums
<i>DM</i>	Monitz	Gary	FEMA
<i>DM</i>	Moorehead	Michael	Kings Point
<i>DM</i>	Nemshin	Jeffrey	Laurel Hollow
<i>DM</i>	Neubert	Jim	Great Neck
<i>DM</i>	Ortiz	Christopher	City of Glen Cove
<i>DM</i>	Palumbo	Leonard	Mineola
<i>DM</i>	Pape	Emil	Bellerose
<i>DM</i>	Parente	Bonnie	East Williston
<i>DM</i>	Parise	Frank	Cedarhurst
<i>DM</i>	Park	Susan	NCOEM
<i>DM</i>	Peckelis	Alice	Baxter Estates
<i>DM</i>	Pilczak	Bohdan	Nassau County Fire Marshal
<i>DM</i>	Powers	Edward	Town of Hempstead
<i>DM</i>	Reilly	Kevin	Rockville Centre

Michael Jurcsak participated in the Kickoff Meeting. Correction made on 3/12/2020 by Susan Park -SP 3/12/2020





Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Planning Committee Hazard Mitigation Kickoff Workshop Agenda

March 5, 2020 | Sign-in starts at 8:30 AM; meeting begins promptly at 9:00 AM

Morrelly Center, 510 Grumman Road West, Bethpage, New York 11714

Time	Item Details
09:00 AM	Introduction
09:15 AM	Project Review <ul style="list-style-type: none"> • Provide an overview of the project • Define stakeholder groups
09:30 AM	Hazard Mitigation Planning Review <ul style="list-style-type: none"> • Discuss the purpose of mitigation planning • Introduce New York State Department of Homeland Security and Emergency Services (NYS DHSES) and Federal Emergency Management Agency (FEMA) requirements
10 AM BREAK	
10:10 AM	Base Plan Review <ul style="list-style-type: none"> • Provide an overview of the Plan Update • Discuss details of risk assessment, capability assessment, and mitigation strategy • Engage stakeholders to support planning process
11 AM BREAK	
11:10 AM	Jurisdictional Annexes <ul style="list-style-type: none"> • Review jurisdiction annex structure and content • Review intent of surveys and who should be filling them out
11:50 AM	Conclusion and Next Steps <ul style="list-style-type: none"> • Discuss next steps for the planning team and stakeholders

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at spark@nassaucountyny.gov.



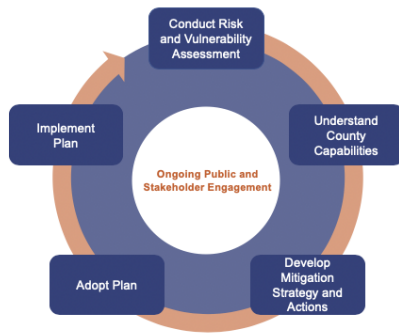
HAGERTY



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Introduction

Nassau County is currently updating its Hazard Mitigation Plan, a document that identifies the County’s greatest vulnerabilities to natural hazards and outlines an approach to mitigating risks. All of the County’s villages, towns, and cities are invited and encouraged to participate in the Planning Committee for this Plan Update. Your participation will ensure that the Plan Update addresses your community’s needs and that your jurisdiction maintains eligibility for federal assistance programs.



The Hazard Mitigation Plan Update will be a multi-part process that includes continuous engagement with stakeholders and the public. The Plan Update will capture your jurisdiction’s greatest concerns about natural hazards, and lay out projects that can improve the quality of life and protect the places where you live and work.

Plan Components

The Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update will include two main parts:

1. **A countywide “base plan”** that includes information about natural hazard risk, capabilities, and the mitigation strategy for Nassau County.
2. **Jurisdiction-specific “annexes”** that capture unique information specific to each jurisdiction’s risk, capabilities, and strategy for mitigation.

Participation

There are three groups of individuals that will oversee and contribute to different aspects of the Hazard Mitigation Plan Update:

Group	Responsibilities
Steering Committee <i>Nassau County OEM Director of Recovery, Nassau County OEM Director of Planning, & Hagerty Consulting</i>	Organize and carry out the planning process, collect information from the CPG and Planning Committee, and develop draft plan documents
Core Planning Group <i>Nassau County departments, Long Island agencies, representatives from the cities & townships, New York State agencies, and FEMA Region II</i>	Contribute information to, and review and comment on, the countywide plan.
Planning Committee <i>CPG cities & towns and Nassau County’s 64 incorporated villages</i>	Contribute information to, and review and comment on, your jurisdiction’s annex.

Planning Process

The planning process to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan began at the start of 2020. The draft Plan Update will be submitted to New York State Division of Homeland Security and Emergency Services (NYS DHSES) and the Federal Emergency Management Agency (FEMA) for review during the fall and winter of 2020, and the final Plan Update will be ready for jurisdictions to adopt in early 2021.

To prepare the Plan Update, the Steering Committee will organize meetings and workshops for the Core Planning Group and Planning Committee to attend over the next several months. Please check your email for save the dates and invitations to register.

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at spark@nassaucountyny.gov.



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Planning Committee Workshop

March 5, 2020





Introduction: Nassau Team



Susan Park
Director of Recovery
Nassau County Office of
Emergency Management





Introduction: Hagerty Team



Sydney McKenna

Deputy Project Manager

Michelle Bohrson

Hazard Mitigation Planner

Ruth Anne Holiday

Local Planner

Kris Ledins

Local Planner



About Hagerty Consulting



2001

Founded in
Evanston,
IL



Since 2001

Supported the nation's largest disaster recovery efforts, including 9/11; Hurricanes Katrina, Sandy, Harvey; California Wildfires; as well as dozens of others.



Successfully guided states, regions, jurisdictions, and transit agencies through compliant and inclusive hazard mitigation plan updates.



130+

Full-time professionals



Experienced in all federal grant programs

Including FEMA PA, CDL, HMGP, HUD CDBG-DR, FHWA, etc.*

*Federal Emergency Management Agency (FEMA) Public Assistance (PA), FEMA Community Disaster Loans (CDL), FEMA Hazard Mitigation Grant Program (HMGP), US Department of Housing and Urban Development (HUD) Community Development Block Grants Disaster Recovery Program (CDBG-DR), Federal Highway Administration (FHWA)



Workshop Objectives


- Review hazard mitigation planning process and project approach
- Examine previous plan and discuss changes to countywide hazards and mitigation goals
- Review components of jurisdictional annex documents and walk through filling out the online forms



Planning Committee Kickoff Workshop



Workshop Materials



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Planning Committee Hazard Mitigation Kickoff Workshop Agenda
March 5, 2020 | Sign-in starts at 8:30 AM; meeting begins promptly at 9:00 A.M.
Morris Center, 910 Oranman Road West, Bethpage, NY 11714

Time	Item Details
09:00 AM	Introduction
09:15 AM	Project Review <ul style="list-style-type: none"> Provide an overview of the project Define stakeholder groups
09:30 AM	Hazard Mitigation Planning Review <ul style="list-style-type: none"> Discuss the purpose of mitigation planning Introduce NYS and FEMA requirements
10 AM BREAK	
10:10 AM	Base Plan Review <ul style="list-style-type: none"> Provide an overview of the plan Discuss details of risk assessment, capability assessment, and mitigation strategy Engage stakeholders to support planning process
11 AM BREAK	
11:10 AM	Jurisdictional Annexes <ul style="list-style-type: none"> Review jurisdiction annex structure and content Review intent of surveys and who should be filling them out
11:50 AM	Conclusion and Next Steps <ul style="list-style-type: none"> Discuss next steps for the planning team and stakeholders

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at spark@nassaucounty.gov.

Recently updating to Hazard Mitigation Plan Update that identifies the County's risks and outlines an approach to the County's risks, hazards, losses, and encouraged to participate in the for this plan update. Your role is that the plan addresses your risk that your jurisdiction maintains assistance programs.

Plan Components
The Nassau County Multi-Jurisdictional Hazard Mitigation Plan will include two main parts:
1. A countywide "base plan" that includes information about natural hazard risk, capabilities, and the mitigation strategy for Nassau County.
2. Jurisdiction-specific "annexes" that capture unique information specific to each jurisdiction's risk, capabilities, and strategy for mitigation.

Participation
There are three groups of individuals that will oversee and contribute to different aspects of the Hazard Mitigation Plan update:
Group **Responsibilities**

Steering Committee Nassau County Chief Director of Recovery, Nassau County Chief Director of Planning, and Hagerty Consulting	Organize and carry out the planning process, collect information from the CPIS and Planning Committee, and develop draft plan documents
Core Planning Group Respective county departments, state and local agencies, representatives from state and federal agencies, New York State agencies, and FEMA Region 4	Contribute information to, and review and comment on, the countywide plan.
Planning Committee CPIS cities & towns and Nassau County's 64 representative villages	Contribute information to, and review and comment on, your jurisdiction's annex.

The Steering Committee will organize meetings and workshops for the Core Planning Group and Planning Committee over the next several months. Please check your email for the dates and invitations to register.

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at spark@nassaucounty.gov.

Agenda and Project Summary





Local Hazard Mitigation Planning Legal Requirements

Introduction:
This document summarizes some of the legal requirements for local hazard mitigation plans. The Code of Federal Regulations (CFR) holds stipulations necessary for local hazard mitigation plans to uphold. The Federal Emergency Management Agency (FEMA) Local Mitigation Plan Review Guide details requirements and expectations for meeting the CFR requirements and ensuring a high-quality hazard mitigation plan. New York State Division of Homeland Security and Emergency Services (NYS DHSES) Local Mitigation Planning Standards Guide details state-specific plan requirements that enhance resilience and prepare communities for climate change.

PLANNING PROCESS

Federal Requirements

- Opportunity for the public to review and comment on plan
- Treatment of diverse audience of stakeholders
- Incorporation of existing plans, studies, reports, and technical information
- Documentation of the planning process

NYS DHSES Requirements

- Establish diverse jurisdictional teams

CAPABILITY ASSESSMENT

Federal Requirements

- Document existing authorities, policies, programs, and resources
- Document ability to expand resources

NYS DHSES Requirements

- Identify funding sources
- Jurisdiction-specific capability assessments
- Plan for displaced residents, evacuation needs, and sheltering

MITIGATION STRATEGY

Federal Requirements

- Analyze a comprehensive range of mitigation actions
- Determine the actions to implement
- Prioritize implementation based on costs and benefits
- Describe process to integrate into other plans

NYS DHSES Requirements

- Document past mitigation accomplishments
- Develop mitigation actions, including key NYS DHSES mitigation action worksheets for minimum of two projects

RISK ASSESSMENT

Federal Requirements

- Describe type, location, and extent of all natural hazards
- Provide information on previous occurrences and probability of hazards
- Describe of impacts on community and vulnerability
- Address NEP structures

NYS DHSES Requirements

- Assess critical facilities
- Plan for climate change
- Document jurisdiction-specific hazards and vulnerabilities

PLAN MAINTENANCE

Federal Requirements

- Continue to seek public feedback after the hazard mitigation plan is approved
- Identify how the hazard mitigation plan will be monitored and evaluated over the 5-year cycle

NYS DHSES Requirements

- No specific requirements

JURISDICTIONAL ANNEXES

Federal Requirements (per jurisdiction)

- Document existing authorities, policies, programs, and resources
- Document ability to expand resources

NYS DHSES Requirements

- Include jurisdictional annexes

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Management Director of Recovery, at spark@nassaucounty.gov.

Planning Requirements Summary





Agenda

- 09:00 AM – Introduction**
- 09:15 AM – Project Review**
- 09:30 AM – Hazard Mitigation Planning Review**
- 10:00 AM – Break**
- 10:10 AM – Base Plan Review**
- 11:00 AM – Break**
- 11:10 AM – Jurisdictional Annexes**
- 11:50 AM – Conclusions and Next Steps**

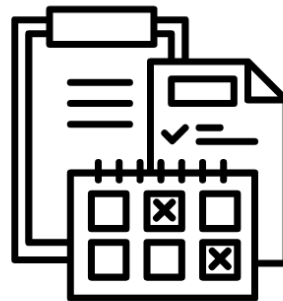


Project Review



Goals for the Plan Update

- **Engage** the County, its 69 jurisdictions, and community members to update the hazard mitigation plan
- Create a common understanding of **natural hazard risk** and **vulnerabilities** in the County
- Develop a mitigation strategy that can **reduce risk** and **bolster the resilience** of the County
- Maintain Nassau County's **eligibility** for federal disaster recovery assistance under the Stafford Act by having a FEMA approved Hazard Mitigation Plan (HMP) Update



2021 Plan Outcomes

- Updated **countywide base plan**, to include:
 - ✓ A countywide assessment of risk to natural hazards
 - ✓ Countywide goals for mitigation and corresponding mitigation projects (actions)
 - ✓ A roadmap for maintaining the plan over the next five years, including evaluation of mitigation projects and continued stakeholder and public participation



Nassau County 2014 Plan Update



2021 Plan Outcomes

- **Individual jurisdictional annexes**, to include:
 - ✓ Geography, demographics, and development
 - ✓ Hazard history and vulnerabilities
 - ✓ Critical facilities
 - ✓ Capabilities
 - ✓ Mitigation projects
 - ✓ National Flood Insurance Program (NFIP) summary



Nassau County Map



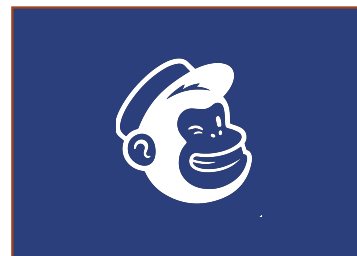
Project Communication Platforms



In-person
workshops



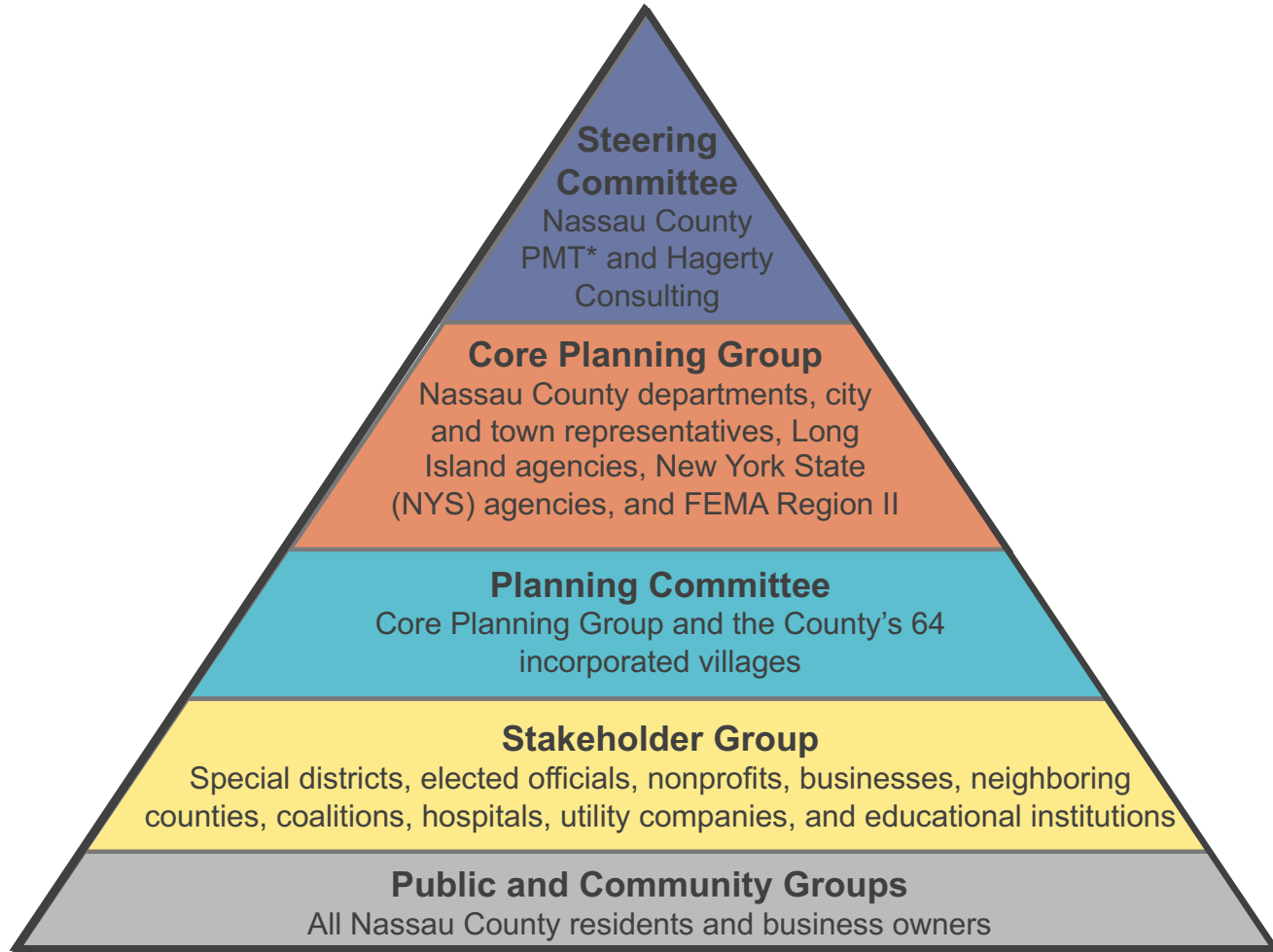
Information
sharing through
Nassau Hazard
Mitigation Plan
web page



Monthly
electronic
newsletters
through
Mailchimp



Stakeholder Engagement



Planning Committee Expectations

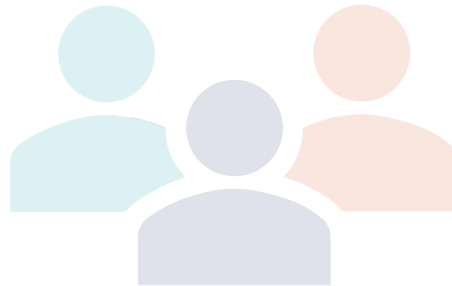
- **Participate** in workshops and webinars, or send a representative in your place
- Fill out and return requested **surveys of information**
- Develop **mitigation action worksheets**
- **Review and comment on drafts** of the hazard mitigation plan (HMP)
- **Document all time** spent supporting planning meetings and plan development



Planning Committee Expectations

- **Participate** in workshops and webinars, or send a representative in your place
- Fill out and return requested **surveys of information**

Your participation is critical for plan approval and adoption.



Key Dates and Milestones



- **Planning Committee Kickoff Workshop (3/5)**
- Interim Stakeholder and Public Meeting (TBD)
- Risk Review and Mitigation Strategy Workshop (4/22)
- Jurisdictional Workshops (Early May)

- Planning Committee Hazard Mitigation Workshop (July)
- Planning Committee Plan Review Meeting (August)
- Final Public Meeting (August)

- Submit Final Plan to New York State Division of Homeland Security and Emergency Services for Review
- Submit Final Plan to FEMA for Review and Approval Pending Adoption

- Plan Adoption





Hazard Mitigation Planning Review



What is Hazard Mitigation?



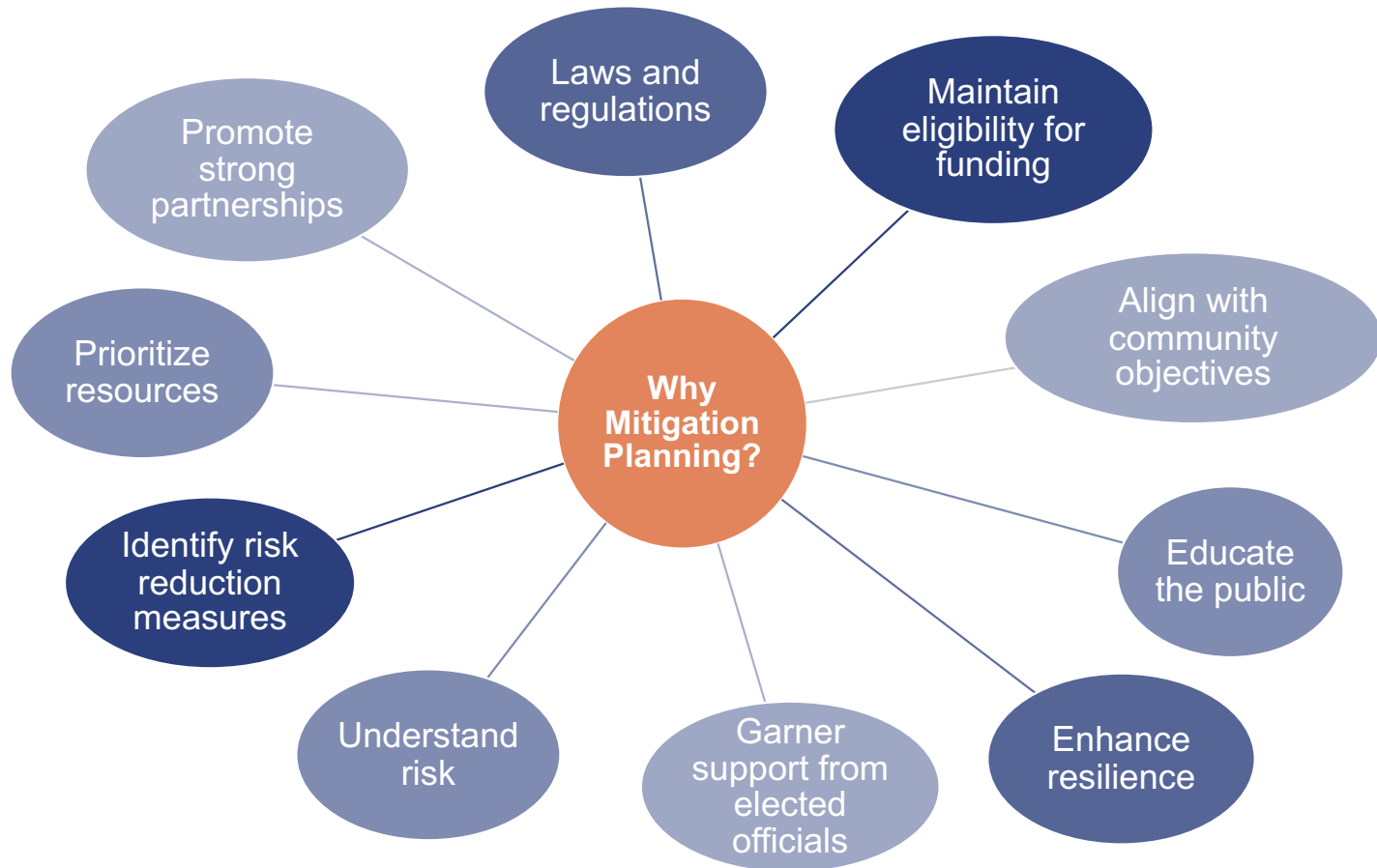
Hazard Mitigation describes actions taken to reduce the impact of natural and manmade hazards on people, property, economies, and the environment

Hazard Mitigation Planning presents an opportunity to think deliberately about the greatest vulnerabilities in your community and make a plan to address those issues through incremental, achievable projects

Hazard Mitigation Plans capture the planning process and summarize mitigation projects in an organized fashion so that it can be easily referenced in the future

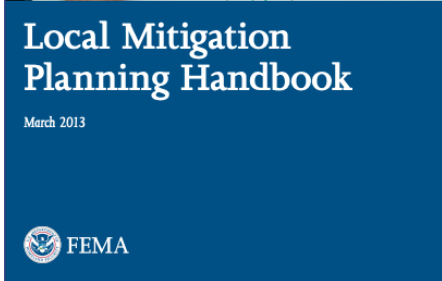


Benefits of Hazard Mitigation Planning



Legal Requirements

Refer to the Planning Requirements Summary handout!



APPENDIX A: LOCAL MITIGATION PLAN REVIEW TOOL

The *Local Mitigation Plan Review Tool* demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The **Regulation Checklist** provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The **Plan Assessment** identifies the plan's strengths as well as documents areas for future improvement.
- The **Multi-jurisdiction Summary Sheet** is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction:	Title of Plan:	Date of Plan:
Local Point of Contact:		Address:
Title:		
Agency:		
Phone Number:	E-Mail:	
State Reviewer:	Title:	Date:
FEMA Reviewer:	Title:	Date:
Date Received in FEMA Region (month):		
Plan Not Approved		
Plan Approvable Pending Adoption		
Plan Approved		

Local Mitigation Plan Review Tool A-1

New York State Hazard Mitigation Planning Standards Guide

Prepared as supplemental guidance to support the development of Multi-jurisdictional Hazard Mitigation Plans to meet the New York State Planning Standards.

Please note:

Jurisdiction is used to describe all government entities within the boundaries set forth in the Multi-jurisdictional Plan (typically County-wide), including the County itself, as well as cities, towns, villages and tribal entities.

Special Flood Hazard Area (SFHA) is defined as the area that will be inundated by the flood event having a 1-percent change of being equaled or exceeded in a given year (also known as the 100-year flood event).

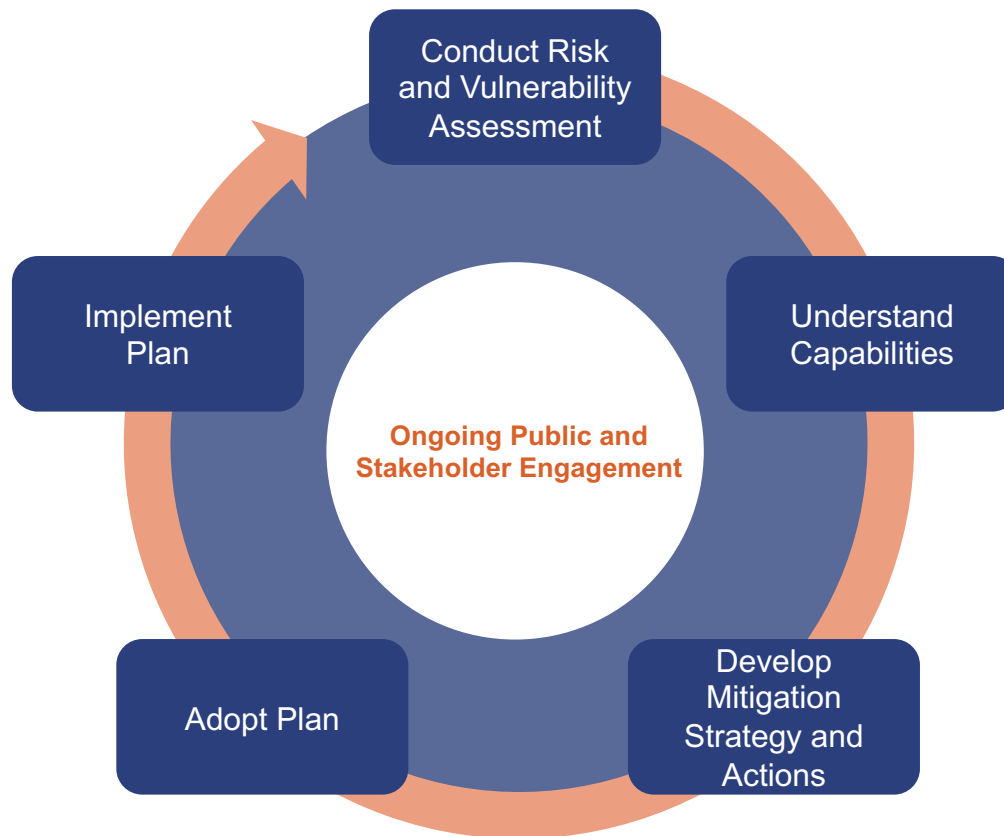
2017 New York State Hazard Mitigation Planning Standards Guide Page 1 of 15

FEMA Guidance and Federal Requirements

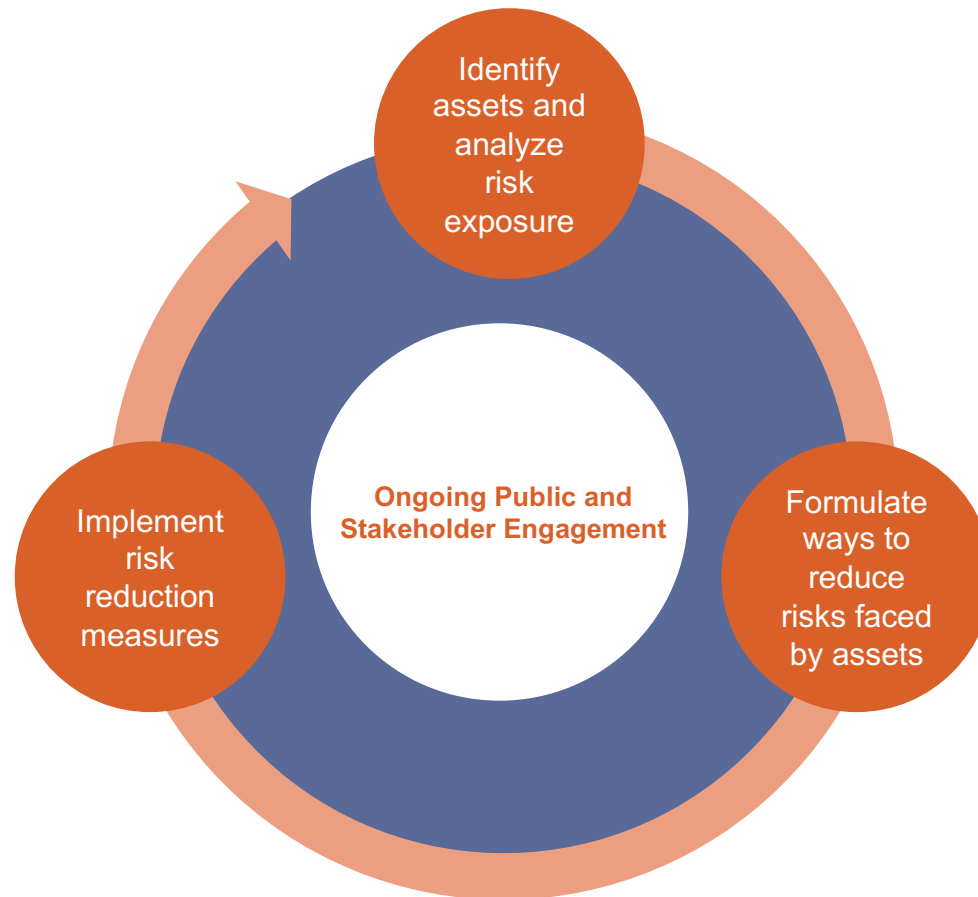
New York State Division of Homeland Security and Emergency Services Guidance and Requirements



Planning Process



Planning Process





Base Plan Review



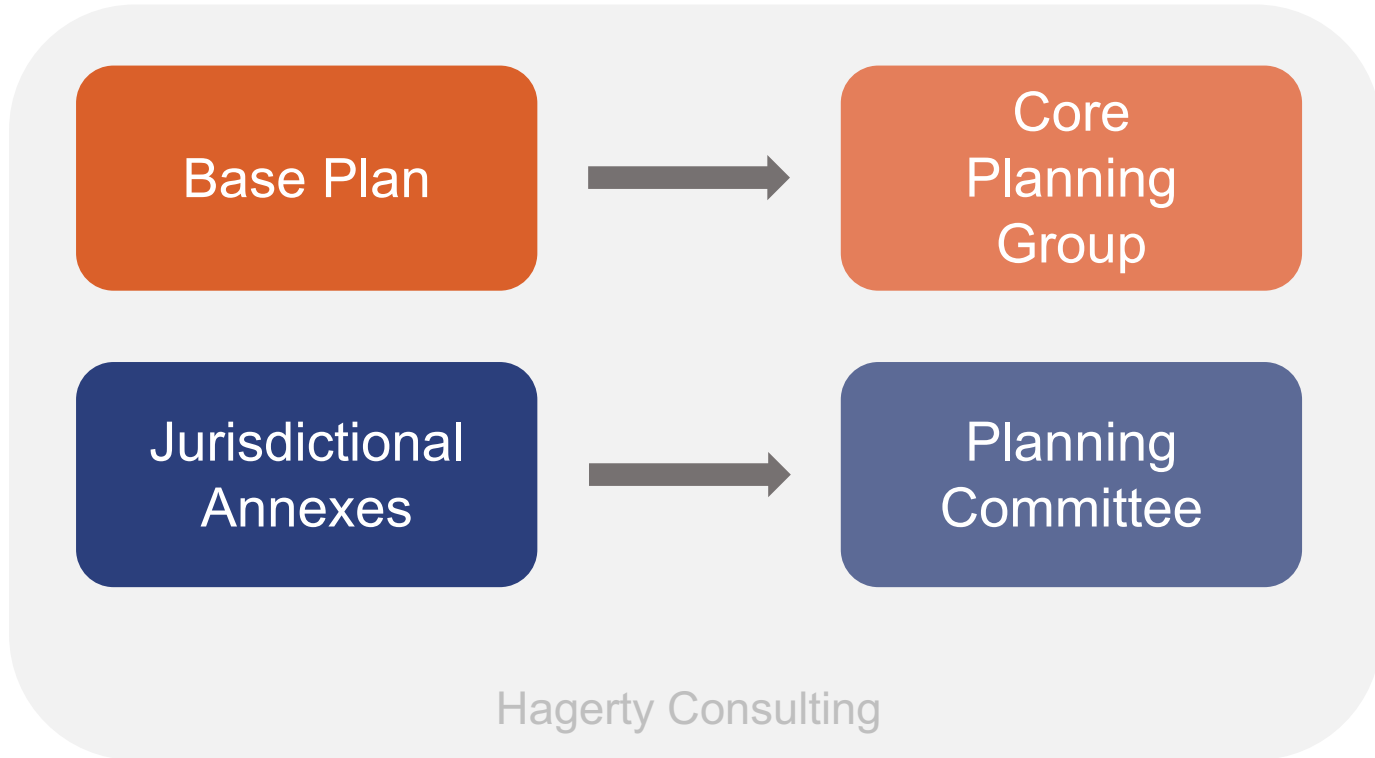
Hazard Mitigation Plan Components



Base Plan Review



Planning Process Responsibility



Introduction and Planning Process

Introduction

- Outline the purpose, scope, and planning assumptions
- Provide context for the situation of the planning area
- Review the laws and regulations driving the planning process

Planning Process

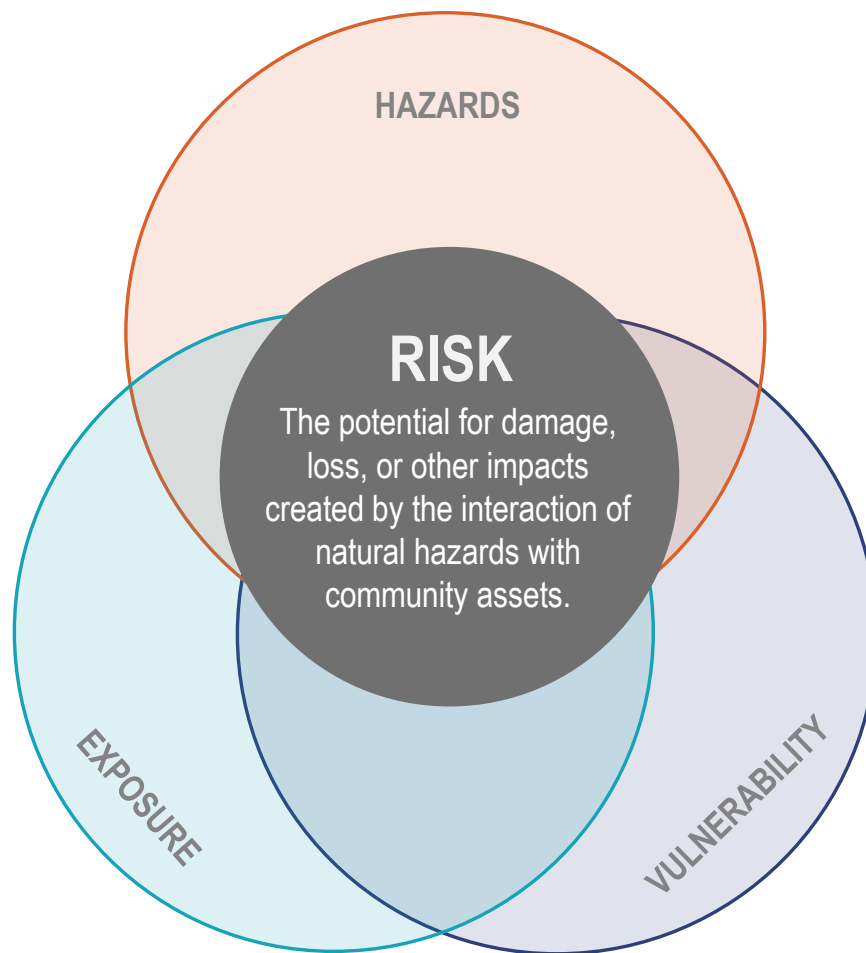
- Discuss the County's process for plan development including the schedule and activities
- Outline the stakeholder and public participation
- Review of relevant existing plans, studies, reports, and technical information



Base Plan Review



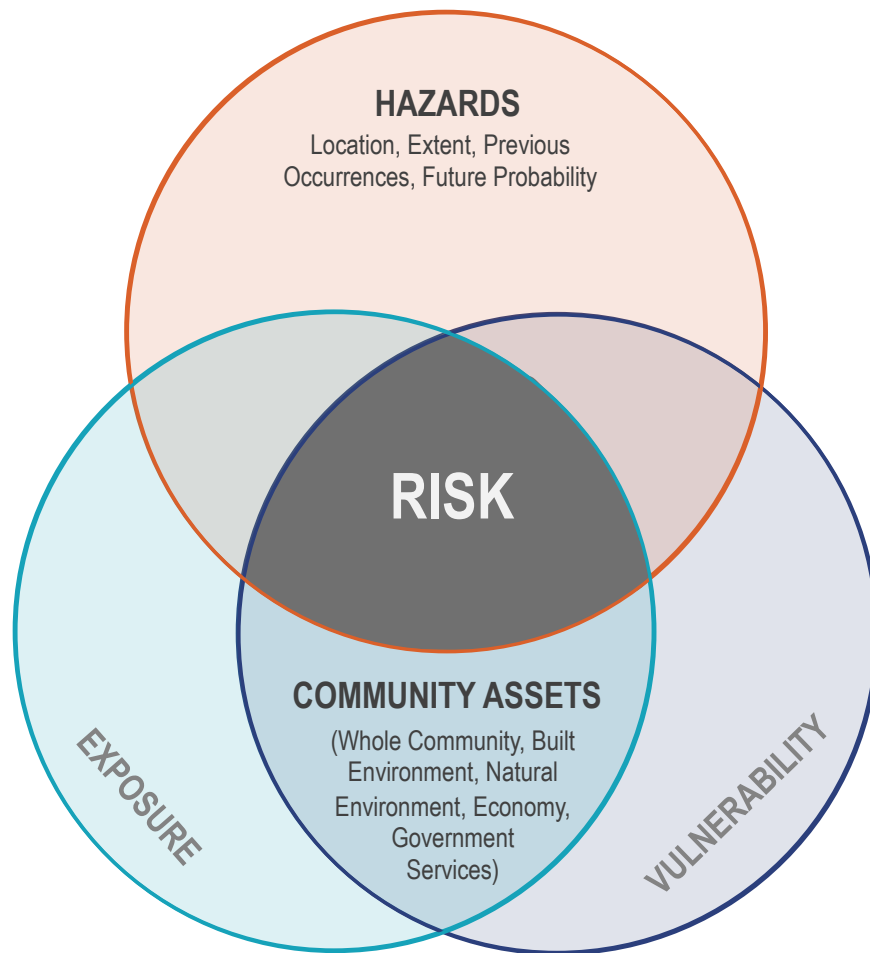
Risk Assessment Overview



Planning Committee Kickoff Workshop



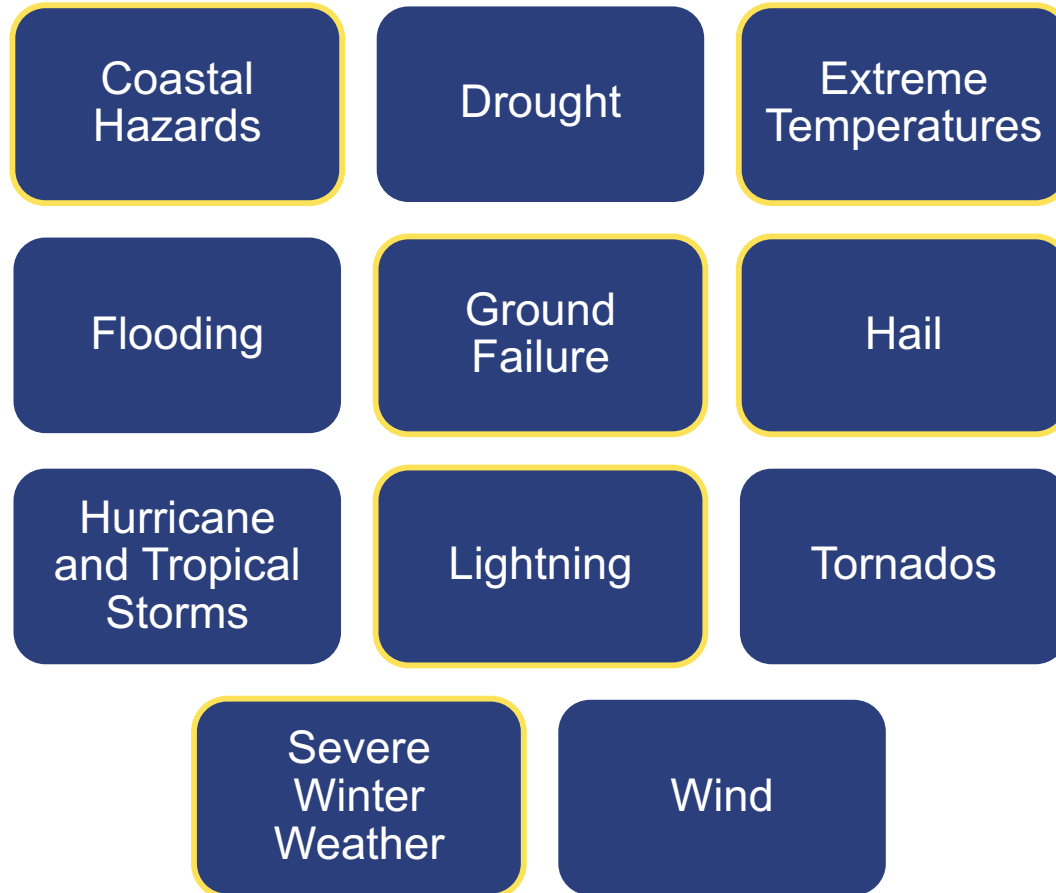
Risk Assessment Overview



Planning Committee Kickoff Workshop



Hazard Identification Overview



*Highlighted hazards are new to this plan update



Risk Assessment Methodology



Based on ...

- Stakeholder feedback
- Past hazard occurrence data
- 2019 New York State Hazard Mitigation Plan (*Mitigate NY*)

Describing ...

- Location
- Extent
- Previous occurrences
- Future probability, and impacts

By conducting...

- Exposure analysis
- Estimation of potential losses



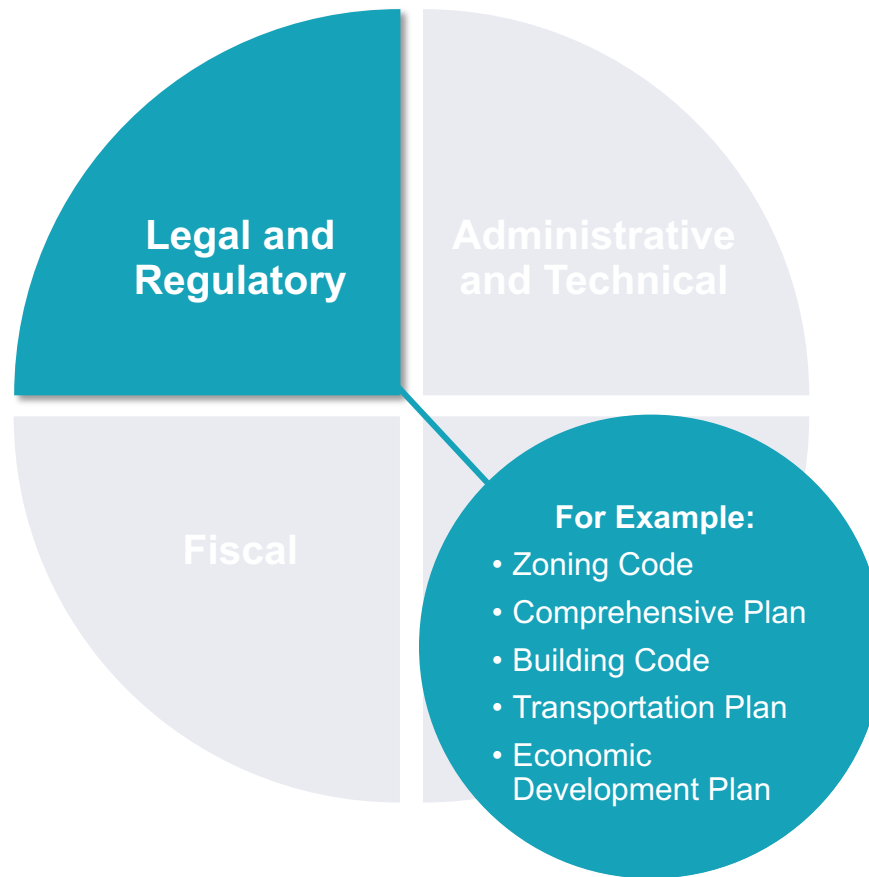
Base Plan Review



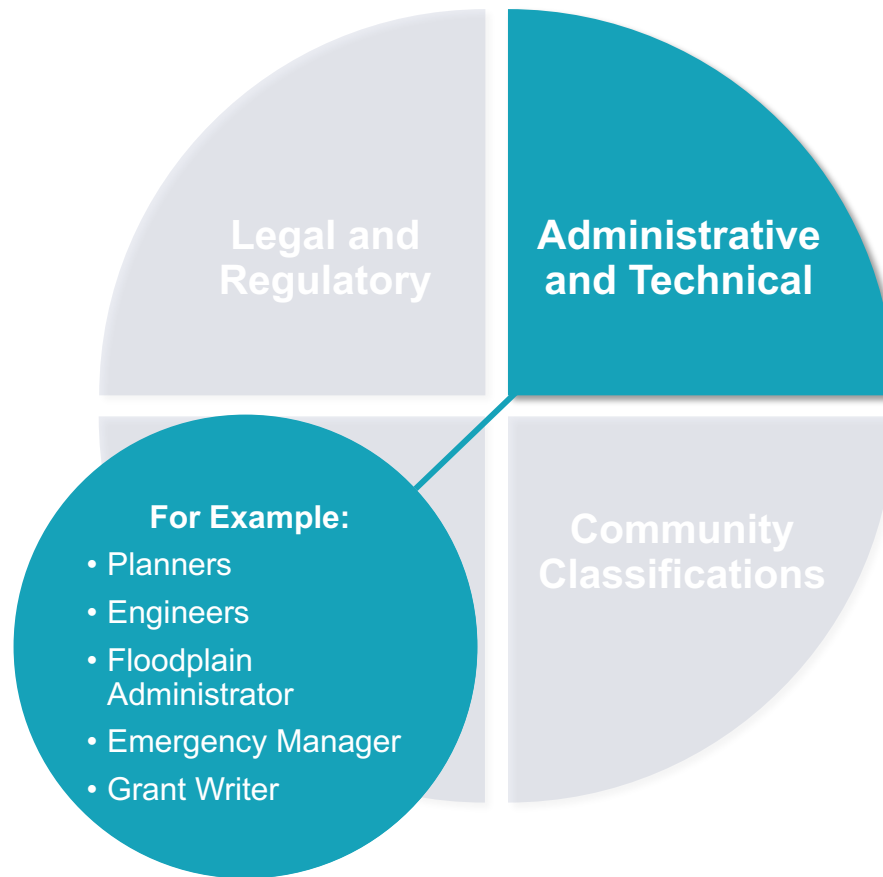
Types of Capabilities



Types of Capabilities



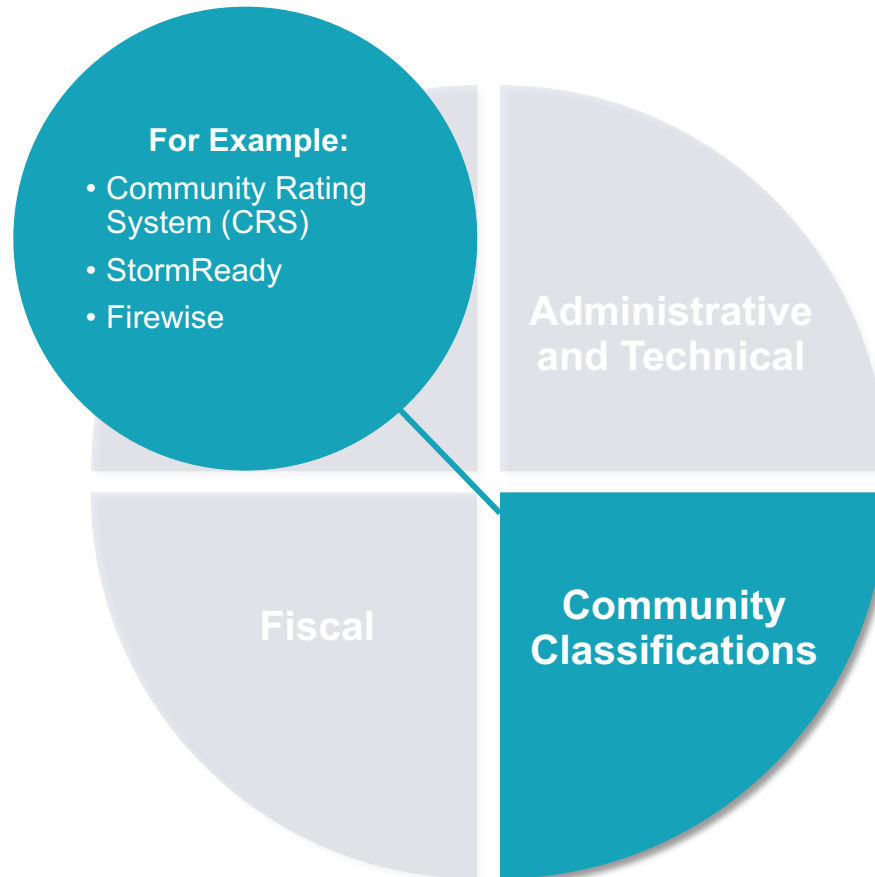
Types of Capabilities



Types of Capabilities



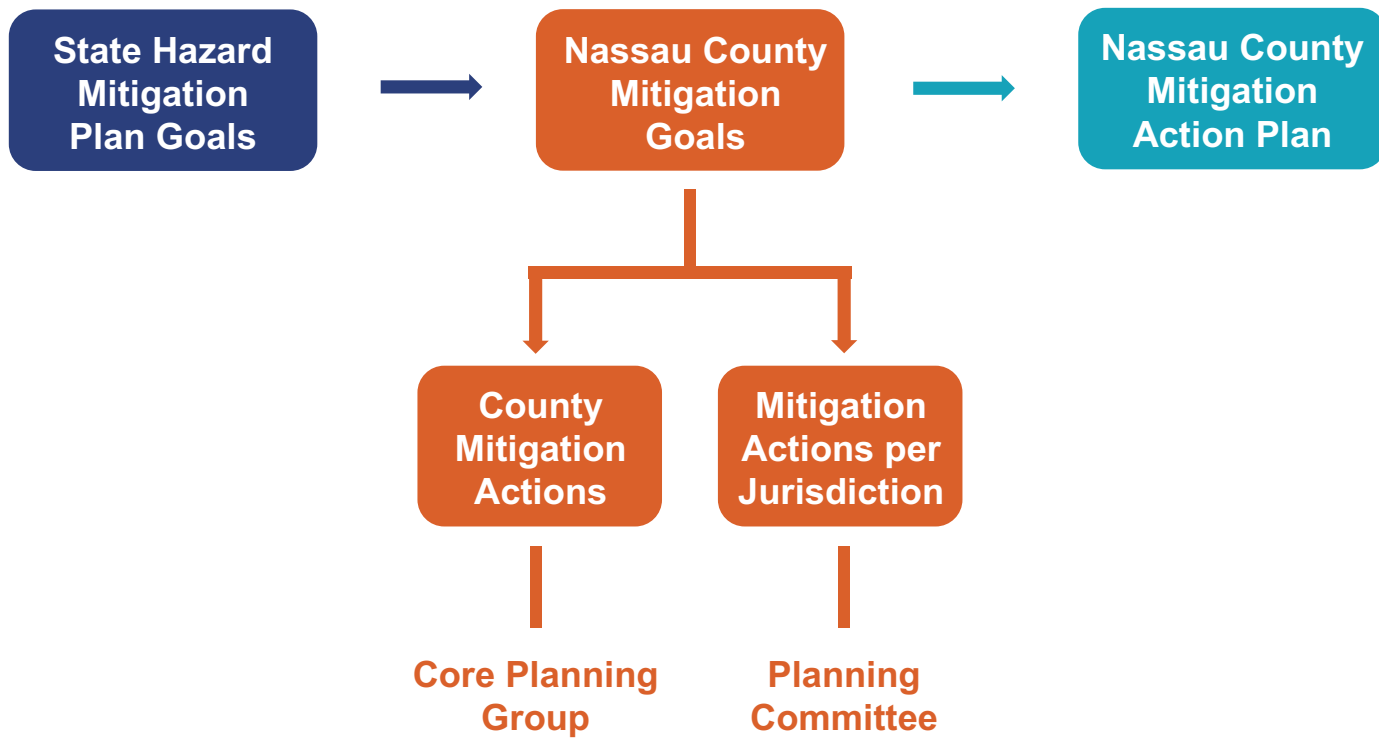
Types of Capabilities



Base Plan Review



Mitigation Strategy Overview



Developing the Mitigation Strategy

NYS SHMP Goals



1. Promote a comprehensive state hazard mitigation policy framework for effective mitigation programs that includes **coordination among federal, state, and local organizations** for planning and programs.
2. **Protect existing property** including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
3. **Increase awareness** of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
4. Encourage the development and implementation of long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.
5. **Build stronger** by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.



Developing the Mitigation Strategy

Goals explain what the community wants to achieve with the hazard mitigation plan (i.e., the “vision of success”). Goal statements are broad and long-term.

Goals should:

- Consider community impact and input
- Be comprehensive of all jurisdictions
- Address all findings in the risk assessment
- Align with community values and state goals

Goals should not:

- Be hazard-specific
- Use unclear or confusing language
- Benefit only a singular group



Developing the Mitigation Strategy

1. **Build stronger** by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.
2. Build and support local capacity to **prepare for, respond to, and recover from disasters**.
3. **Protect existing property** including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
4. **Increase awareness** of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
5. Develop and implement long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.
6. Improve coordination between **land use and redevelopment planning** to encourage safe, economically sound investments.

Nassau County
Mitigation
Goals*

**New for 2021*



Mitigation Strategy Discussion

If there are mitigation priorities that do not align with these goals, there will be an opportunity to add jurisdiction-specific goals in your annex.



Plan Maintenance



Plan Maintenance

- Discuss process for periodic plan review
- Discuss process and triggers for updating the plan
- Outline factors to support plan implementation





Jurisdictional Annexes



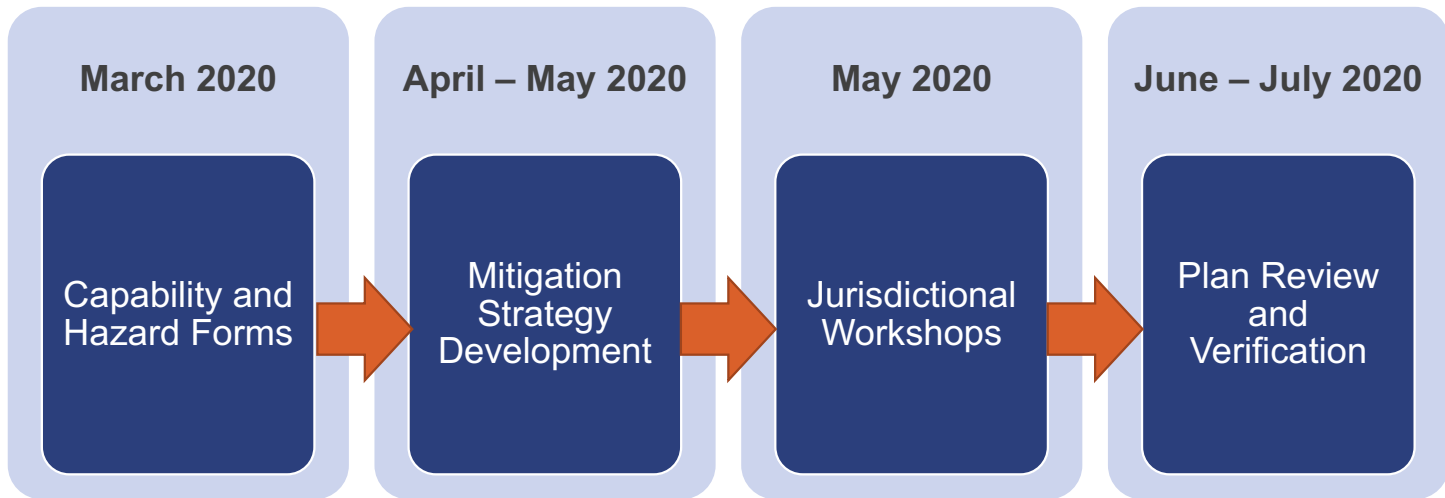
Jurisdictional Annexes

Individual jurisdictional annexes will include:

- Geography, demographics, and development
- Unique hazard history and vulnerabilities
- Critical facilities
- Capabilities
- Mitigation projects
- National Flood Insurance Program (NFIP) summary



Development of the Jurisdictional Annexes



Development of the Jurisdictional Annexes

- A series of forms will be distributed electronically after today's workshop:
 - [Part 1: Profile](#)
 - [Part 2: Hazard Review](#)
 - [Part 3: Capability Assessment](#)
 - [Part 4: National Flood Insurance Program](#)
- Today, we will demonstrate how to access the forms and fill them out



Expectations and Assignments

- Planning Committee:
 - One representative from each jurisdiction should complete the four forms
 - Consult with other individuals and departments for information
- Core Planning Group:
 - All County departments will get a chance to complete the Hazard Review form
 - Nassau County Office of Emergency Management will lead the completion of the forms for the County and consult with departments and individuals for information



Email Notification



Action Required!

On March 5, 2020, Nassau County hosted the Planning Committee Kickoff Workshop for the Multi-Jurisdictional Hazard Mitigation Update.

As per the workshop, the Nassau County Office of Emergency Management and its consultant, Hagerty Consulting, have now begun the data collection phase of the plan update. Accordingly, it is imperative that you, or your jurisdiction's designated representative, **complete the forms below by Friday, April 3, 2020.**

Survey 1: Profile
Complete [Form 1 here.](#)

Survey 2: Hazard Review
Complete [Form 2 here.](#)

Survey 3: Capability Assessment
Complete [Form 3 here.](#)

Survey 4: NFIP Form
Complete [Form 4 here.](#)

To avoid inconsistent data entries, it is important that **one representative per jurisdiction complete these forms.** Please complete each form to the best of your abilities.

If at any time you require assistance in completing your form(s) you may reach out to Susan Park (SPark@nassaucountyny.gov) in the Nassau County Office of Emergency Management or Sydney McKenna (sydney.mckenna@hagertyconsulting.com) with Hagerty Consulting.



Online Form Review



Profile

This section constitutes Part 1 of your Jurisdictional Annex submission. It collects very basic information about your county, town, or village that will be used to supplement future discussion.

**It is NOT a final product and may be changed at a future date. Please complete to the best of your ability.*

Contact Information

Each jurisdiction's annex to the hazard mitigation plan must list a primary point of contact. If alternate contact information is available, it should be included as well.

First name*

First name of person filling out form

Sydney

Last name*

Last name of person filling out form

McKenna

Organization/Jurisdiction*

Ex.: Town of Oyster Bay, Village of Oyster Bay, etc.

Hagerty Consulting

Primary Point of Contact*

POC will be published in profile (e.g. Village Mayor / Trustee)

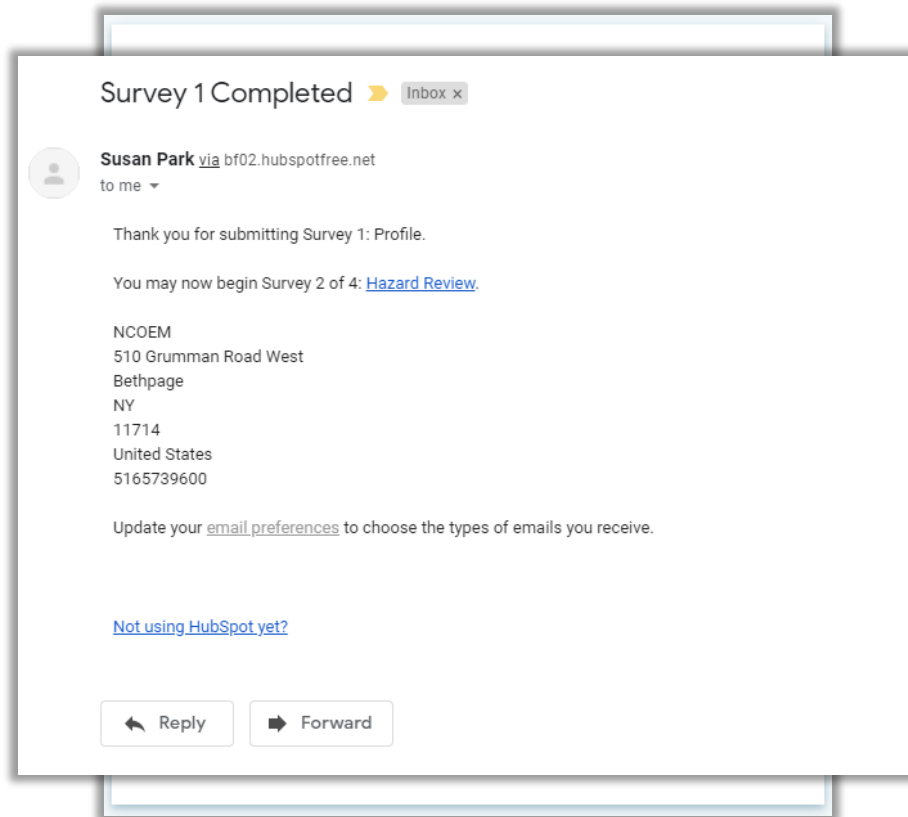
Sydney McKenna
Hazard Mitigation Planner

Alternate Point of Contact*

Alt-POC will be published in profile (E.g. DPW Commissioner)



Survey Completion





Conclusions and Next Steps



Next Steps

- Check your email Monday for the surveys
- Complete surveys by Friday, April 3
- Assistance is available; please reach out to Susan Park or Sydney McKenna (contact information on the next slide)
- Save the Date:
 - April 22, 2020 - Risk Review and Mitigation Strategy Workshop (1:00 – 3:00 PM EST)
 - April 2020 - Stakeholder Meeting (TBD) and Public Meeting (TBD)





Questions?

Contact:

Susan Park

Director of Recovery, Nassau County OEM

Email: SPark@nassaucountyny.gov

Sydney McKenna

Deputy Project Manager, Hagerty Consulting

Email: sydney.mckenna@hagertyconsulting.com



Planning Committee Hazard Mitigation Kickoff Workshop Meeting Summary

March 5, 2020 | 9:00 AM – 12:00 PM

Morrelly Center, 510 Grumman Road West, Bethpage, New York 11714

Introduction

Susan Park and the Hagerty Consulting (Hagerty) Team welcomed and introduced themselves to the attendees, providing a brief overview of their background, work in hazard mitigation planning, and connections to New York. Sydney McKenna (Hagerty) provided a brief overview of Hagerty, including the firm's vast experience in hazard mitigation planning at the state, regional, and local levels.

This workshop met the following objectives:

- Review hazard mitigation planning process and project approach
- Examine previous plan and discuss changes to countywide hazards and mitigation goals
- Review components of jurisdictional annex documents and walk through filling out the online forms

Attendee also received two supplemental handouts that provided additional information about the hazard mitigation plan project and the federal and state planning requirements, respectively.

Project Review

During the hazard mitigation planning process, the Steering Committee, made up of the Nassau County project management team and Hagerty, will engage the County, create a common understanding of natural hazard risk and vulnerabilities, develop a strategy that reduces risk and bolsters resilience, and maintain the County's eligibility for federal funding. These goals will be met by engaging the County and creating a roadmap for mitigation over the next five years. In this Plan Update, each Jurisdiction will have a chance to include projects applicable to the needs of the respective community focusing on the Jurisdiction's unique risk, vulnerabilities, and exposures.

Project Communication and Stakeholder Engagement

To gather information for the Plan Update, the Steering Committee and contributing participants will communicate information through various communications platforms, including in-person workshops, the Nassau County Hazard Mitigation Plan (HMP) web page, and routine newsletters. There are five different stakeholder groups that will be engaged throughout the planning process. Sydney described each of the participant groups and their role in developing the Plan Update. She noted that the Stakeholder Group, comprised of special districts, elected officials, nonprofits, businesses, neighboring counties, coalitions, hospitals, utility companies, and educational institutions, would be meeting on April 22, 2020.

Planning Committee Expectations

It is a federal requirement to document all the people involved in, and the total hours they each contributed to, the plan update process, Susan explained. Nassau County Office of Emergency Management (OEM) will document attendance and time spent at meetings like this one. However, the Steering Committee needs to understand/document the hours spent working on the Plan Update outside of a meeting setting. A portion of the meeting will walk through the upcoming jurisdictional forms, time spent answering the surveys should be inclusive of the total hours the team spends working on the questions. Susan stressed that the planning committee's participation is critical for the plan adoption and approval process.

Key Dates and Milestones

Sydney reviewed upcoming dates with the participants, noting the next meetings are scheduled on April 22, 2020, and include a Stakeholder and Public and Risk Review and Mitigation Strategy Workshop. The Risk Review and Migration Strategy meeting will be attended by the Planning Group. Other notable dates include submission of the Plan Update to New York State Division of Homeland Security and Emergency Services (NYS DHSES) and FEMA at the end of November 2020. The finalized Plan Update is expected to be completed in February 2021, at which time jurisdictions will vote to adopt the plan.

Sydney encouraged attendees to review the plan adoption process and understand the time and effort requirements.

Hazard Mitigation Planning Review

Hazard Mitigation Plans (HMPs) summarize the impact of natural hazards on an area and highlight mitigation projects and actions jurisdictions will complete to build a stronger community in the future.

Legal Requirements

Sydney encouraged participants to review the *Planning Requirements Summary* handout. The federal and state requirements provide necessary guidance for creating the most comprehensive plan. Hagerty is working with the Nassau County Project Management Team (PMT) to ensure that each of these requirements is met in the final Plan Update.

To create the most actionable and inclusive plan, a wide audience of stakeholders and the public will be actively engaged in the entire planning process. Each step in the planning process, from conducting the Risk and Vulnerability Assessment to implementing the plan, will account for community input and formulate effective risk reduction strategies.

Base Plan Review

An HMP consists of multiple components. The introduction, planning process, hazard identification and risk assessment, capability assessment, mitigation strategy, and plan maintenance components make up the base plan. This base plan is largely developed with input from the Core Planning Group, which includes Nassau County departments, city and town representatives, Long Island agencies, New York State (NYS) agencies, and FEMA Region II. The Planning Committee largely contributes to the development of the Jurisdictional Annexes. More information about each of these components is summarized below.

Introduction and Planning Process

Michelle Bohrson (Hagerty) explained that the introduction of a plan often includes an overview of the scope and nature of the plan and context for the document. The “Planning Process” section narrates how the plan came together, including stakeholder and public participation, relevant data utilized, and other important activities.

Risk to the community is the culmination of hazards, exposure, and vulnerability. Risk is the potential for damage, loss, and other impacts created by the interaction of natural hazards with community assets. Nassau County has identified 11 hazards to include in this plan update, as seen below. The **yellow highlighted** hazards are new to this Plan Update.

- Coastal Hazards
- Drought
- Extreme Temperatures
- Flooding
- Ground Failure
- Hail
- Hurricane and Tropical Storms
- Lightening
- Tornados
- Server Winter Weather
- Wind

Risk Assessment Methodology

Michelle stated that the Steering Committee will pare together stakeholder input and data/research to create a comprehensive picture of how hazards are impacting Nassau County.

Participants used an electronic polling software to answer a series of questions about risks to, the capabilities of, and mitigation strategies for their jurisdiction:

*Question 1: What are the most impactful hazards to your jurisdiction?
Answer: Flooding, Hurricanes, and Tropical Storms*

A participant noted that the north peninsula of Nassau County experiences a substantial amount of flooding from heavy rainstorms, which leads to multiple road closures. Another attendee stated that there once was a stream running through the County, but it was filled in. The attendee strongly believes the stream should be reopened to help with water management.

*Question 2: Which assets are most vulnerable (most effected by natural hazards) in your jurisdiction?
Answer: Community members (55%) and Built Environment.*

In Long Beach, people that live close to the bay, which is constantly flooding. Long Beach is a barrier island so it is prone to flooding. Community members are tired of continually being flooded out and the impacts to their homes.

Capability Assessment

Each community and jurisdiction have a unique subset of capabilities that are used to mitigate the community against future disasters. Capabilities could be legal and regulatory, administrative and technical, fiscal, and community classifications, which support the development of a relevant and implementable mitigation plan.

*Question 3: What type of capability does your community use the most for mitigation?
Answer: Legal and Regulatory, Administration and Technical*

Question: What support is needed to improve your jurisdictions capabilities?

Answer: Funding (59%), Staffing

Mitigation Strategy Overview

Michelle explained that it is important to not only look at infrastructure projects but social, natural, and economic projects to holistically bolster the County's mitigation actions. The Nassau County Hazard Mitigation Plan Update will consider the State's 2019 Hazard Mitigation Plan goals and incorporate those into the County's goals and mitigation actions. The State outlines five important mitigation goals:

1. Promote a comprehensive state hazard mitigation policy framework for effective mitigation programs that includes **coordination among federal, state, and local organizations** for planning and programs.
2. **Protect existing property** including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
3. **Increase awareness** of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
4. Encourage the development and implementation of long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.
5. **Build stronger** by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.

Questions 4: Which goals most align with Community's priorities?

Answer: Goal 1- (33%), Goal 2, Goal 3

The Village of Cover Neck explained that there is only one road in and out of the community. They will prioritize repairing the seawall to protect that road.

Nassau County created its own set of six mitigation goals for the Plan Update, largely aligned with the State's goals:

1. **Build stronger** by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.
2. Build and support local capacity to **prepare for, respond to, and recover from disasters**.
3. **Protect existing property** including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
4. **Increase awareness** of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.

5. Develop and implement long-term, cost effective, and resilient mitigation projects to **preserve or restore the functions of natural systems**.
6. Improve coordination between **land use and redevelopment planning** to encourage safe, economically sound investments.

Michelle explained that there will be an opportunity to add jurisdiction-specific goals in the Jurisdiction Annex; therefore, communities needs will be heard if they do not align perfectly with the County's mitigation priorities/goals (above).

To ensure the most effective plan for the County, plan maintenance strategies should be considered in the Plan Update. This includes discussing triggers for updating the plan, periodic reviews of the plan, and implementation strategies for the mitigation actions/projects.

Jurisdictional Annex

The Jurisdictional Annex provides opportunity for individual jurisdiction to assess their community and form a tailored strategy to support their mitigation priorities. Each annex will include geography, demographics, and development; unique hazard history and vulnerabilities; critical facilities; capabilities; mitigation projects, and National Flood Insurance Program (NFIP) summary for the respective jurisdiction. Sydney encourages people to review Appendix C in the previous Nassau County HMP (2014) to see which of the projects and implementation strategies may still be applicable to the jurisdictions to include in this Plan Update.

After this meeting, Sydney explained that four forms will be emailed out to the Planning Committee. These forms will capture each jurisdiction's changes in development, capabilities, unique hazard history, and NFIP information. The Steering Committee will be available to assist each jurisdiction to fill out these forms.

Only one person from each jurisdiction should submit a response to each form. However, jurisdictions can go back and edit the information they provided in that one submission.

Sydney reviewed the forms with the Planning Committee to provide content and information about completing the forms. The information provided in these forms should (and will) inform the mitigation projects that each jurisdiction proposes. Sydney stressed the importance of accurately logging how much time is spent on this activity and all activities moving forward.

Sydney explained that this is the first of a couple steps to develop different components of the jurisdictional annexes. Hagerty will come to the next meeting with information and examples of successful mitigation projects and pitfalls. This meeting will inform jurisdictions about best practices for developing mitigation projects for their jurisdictional annexes.

Conclusion and Next Steps

Susan and Sydney concluded the meeting and thanked participants for attending. Sydney reminded the Planning Committee that surveys are due on April 3, 2020 and the next set of meetings will be held on April 22, 2020.

- April 22, 2020:
 - Risk Review and Mitigation Strategy Workshop (12:30 – 3:00 PM EST)

- Stakeholder Meeting (3:30 – 4:30 PM EST)
- Public Meeting (6:00 – 7:00 PM EST)

Risk Review and Mitigation Strategy Webinar

June 11, 2020, 10:00 - 11:30 AM

1. Risk Review and Mitigation Strategy Webinar Invitation
2. Risk Review and Mitigation Strategy Webinar Agenda
3. Risk Review and Mitigation Strategy Webinar Presentation
4. Risk Review and Mitigation Strategy Webinar Participants List
5. Risk Review and Mitigation Strategy Webinar Meeting Summary



Register Now!

*The Planning Committee, inclusive of the Core Planning Group, will convene on **June 11, 2020 from 10:00 AM to 11:30 AM for the Risk Review and Mitigation Strategy Webinar** to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan.*

[Click here to register for the webinar](#)

It is essential that you attend this workshop as a representative of a jurisdiction or part of Nassau County participating in the plan update. On this webinar we will:

1. Gather your feedback on the results of the Risk Assessment and highlight areas in Nassau County with greater vulnerability to natural hazards,
2. Review different types of mitigation projects and how those projects may be funded,
3. Familiarize you with the mitigation action forms each participating jurisdiction must complete,
4. Discuss the public survey that will be distributed to collect community feedback about hazard mitigation and natural hazard risk, and
5. Review next steps in the planning process.

If you have any questions, please contact Susan Park at (516) 573-9642 or spark@nassaucountyny.gov.

Attachments to this email include:

Webinar

[Meeting Notes](#)

[Presentation](#)

[Webinar Recording](#)

Survey

[Public Survey](#)

[Social Media Template](#)

Jurisdictional Consultation Calls

[Instructions](#)

Schedule: [Jurisdictional Consultation Call](#)

Step 1: [2014 Mitigation Action Spreadsheet](#)

Step 2: [Proposed Project Spreadsheet](#)

Step 3: [Mitigation Action Form](#)

Step 4: [Document Submission](#)

Thank you for your continual support and engagement in this project. Please email hazardmitigation@nassaucountyny.gov if you have any questions.



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Risk Review and Mitigation Strategy Webinar Agenda

June 11, 2020 | 10:00 AM – 11:30 AM

This webinar will be broadcast through Zoom. Please register ahead of time to receive information about how to join. Click [here](#) or visit this website to register: <https://tinyurl.com/ydeey7vg>

Time	Item Details
10:00 AM	Introduction and Project Review to Date
10:10 AM	Risk Assessment Review
10:40 AM	Types of Mitigation Projects
10:50 AM	Funding for Mitigation
11:00 AM	Developing Your Mitigation Strategy
11:15 AM	Next Steps and Q&A

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at hazardmitigation@nassaucountyny.com



HAGERTY

Risk Review and Mitigation Strategy Webinar

Nassau County, New York

June 11, 2020



HAGERTY

Hagerty Consulting



Sydney McKenna

Project Manager



Michelle Bohrson

Deputy Project Manager and
Lead Planner



Housekeeping

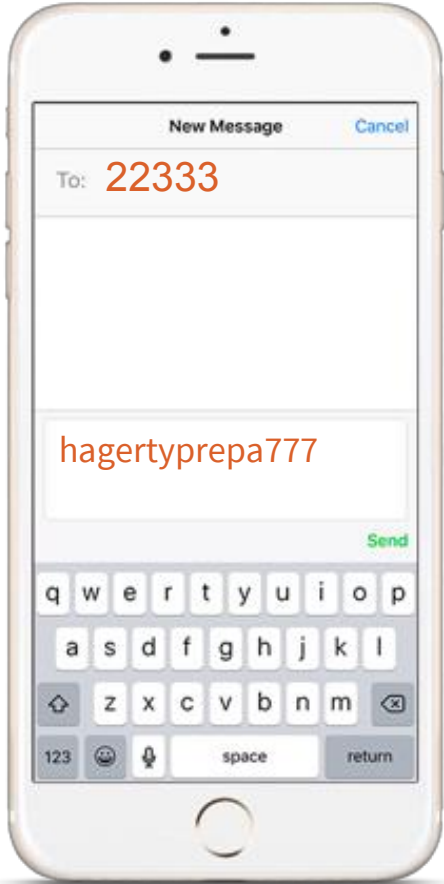
- **This meeting is being recorded.**
- **Phone lines will be muted for the duration of this meeting.**
- **Use the chat box to ask your questions throughout. We will answer your questions during a Q&A session at the end.**



Poll Everywhere





Web voting



Text voting





If your jurisdiction/county were a breed of dog, which breed would it be?

Jack Russell (small, tough,
opinionated)

Tibetan Mastiff (rare and
delightful)

German Shepherd (poised and
elegant but hardy)

Poodle (beautifully presented
but a bit of a poser)

Golden Retriever (warm, cuddly,
and great with children)

Pit Bull Terrier (scary but kind
deep down)

Labradoodle (energetic, cute,
but a little confusing)

Agenda

1. Introduction and Project Review
2. Risk Assessment Review
3. Types of Mitigation Projects
4. Funding for Mitigation
5. Developing your Mitigation Strategy
6. Next Steps and Q&A



Introduction and Project Review



**HAZARD MITIGATION
PLANS PROVIDE THE
IMPETUS FOR MAKING
HOMES, BUSINESSES,
INFRASTRUCTURE, AND
COMMUNITIES MORE
RESILIENT TO THE
IMPACTS OF NATURAL
HAZARDS AND CLIMATE
CHANGE.**



House elevation in Freeport,
Long Island — Freeport, N.Y.
Source: *Hurricane Sandy Recovery Photos*, FEMA

Mitigation Planning for the Future



- Five years ago, most of us did not expect COVID-19
- Hazard mitigation helps communities **assess their risks** and **address any weaknesses**
- The Hazard Mitigation Plan will **prepare us for the next five years**

Planning Progress to Date

- 2/3/2020 – Core Planning Group Kickoff Meeting
- 3/5/2020 – Planning Committee Kickoff Workshop
- March through May 2020:
 - Planning Committee completed four online forms to help update their jurisdiction's annex
 - Hagerty completed a full update of the Risk Assessment section of the plan



Project Timeline



Risk Assessment Review

Risk Review and Mitigation Strategy Webinar



Methodology

1

Hazard Identification

- Based on State and Federal guidelines
- 11 natural hazards of concern identified in this update

2

Hazard Probability

- **Highly Likely:** More than once a year
- **Likely:** Once every five years
- **Unlikely:** Less than once every five years

3

Hazard Impact

- Estimate cost of disasters of different magnitudes



Measuring Hazard Impact

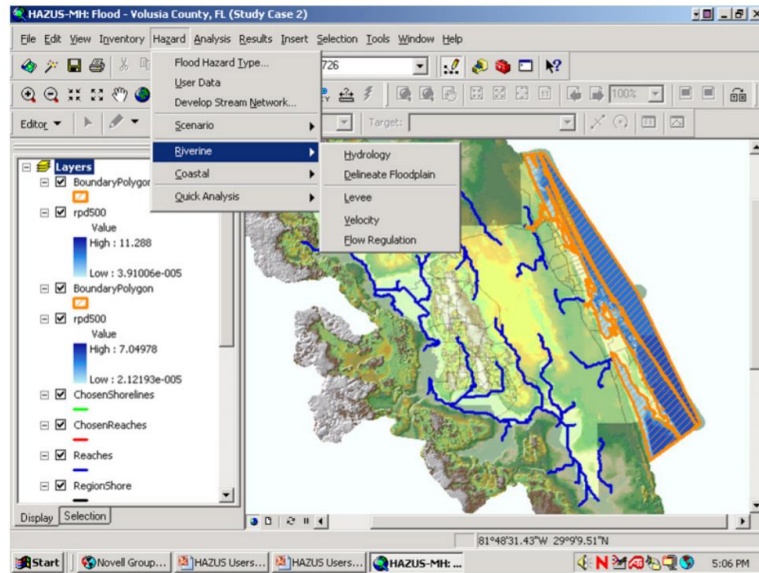
HAZNY

Automated hazard analysis program completed by Nassau County in 2019

Rank	Hazard	Hazard Rank
1	Hurricane and Tropical Storms	High Hazard
2	Coastal Hazard	Moderately High Hazard
3	Flooding	Moderately High Hazard
4	Severe Winter Weather	Moderately High Hazard

HAZUS

Determines damages and losses from earthquakes, hurricanes, and floods



Risk Assessment Findings - Probability

Highly Likely

- Coastal Hazard
- Flooding
- Severe Winter Weather
- Straight-Line Wind

Likely

- Drought
- Extreme Temperatures
- Hail
- Hurricanes and Tropical Storms
- Lightning

Unlikely

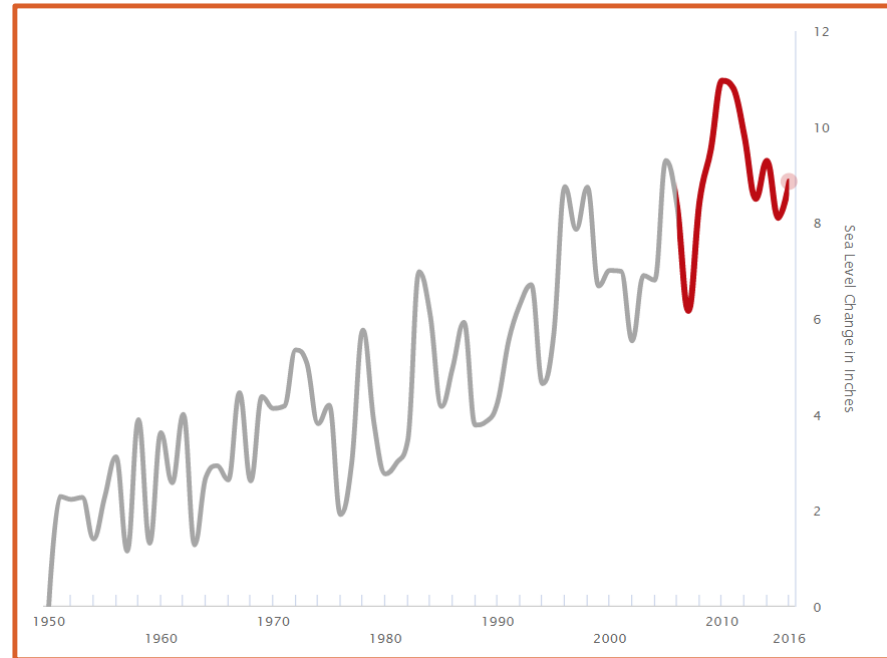
- Ground Failure
- Tornadoes



Coastal Hazard

Highly Likely

- Types:
 - Coastal Erosion
 - Strong Wave Action
 - Coastal Flooding
 - Sea Level Rise
 - Riptides
- Recent Occurrences:
 - Between 2010 and 2020, 3 incidences of **storm surge**
 - Between 2015 and 2020, **riptides** caused 4 fatalities

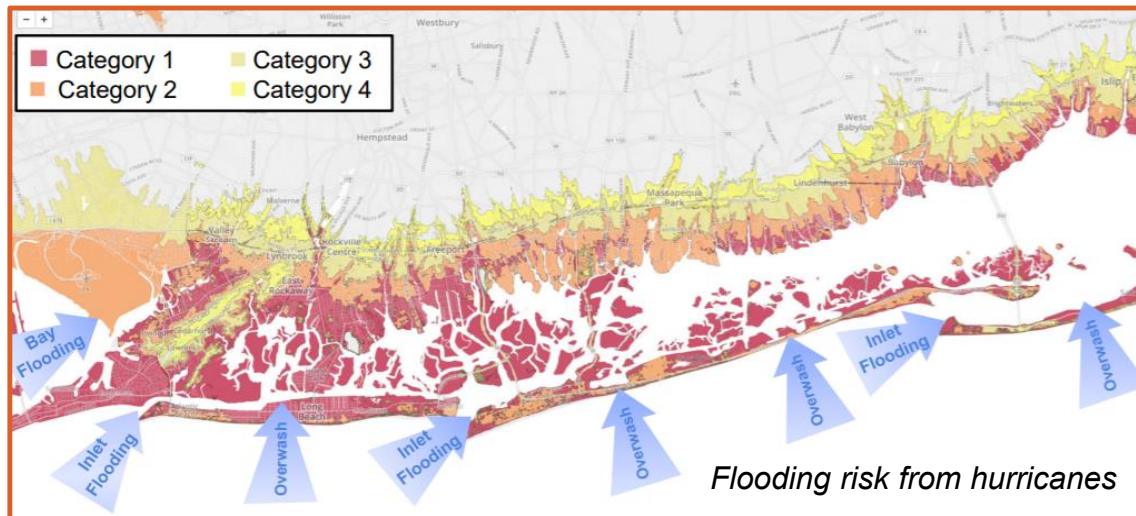


Sea level rise in New York from 1950 to 2015, from sealevelrise.org

Flooding

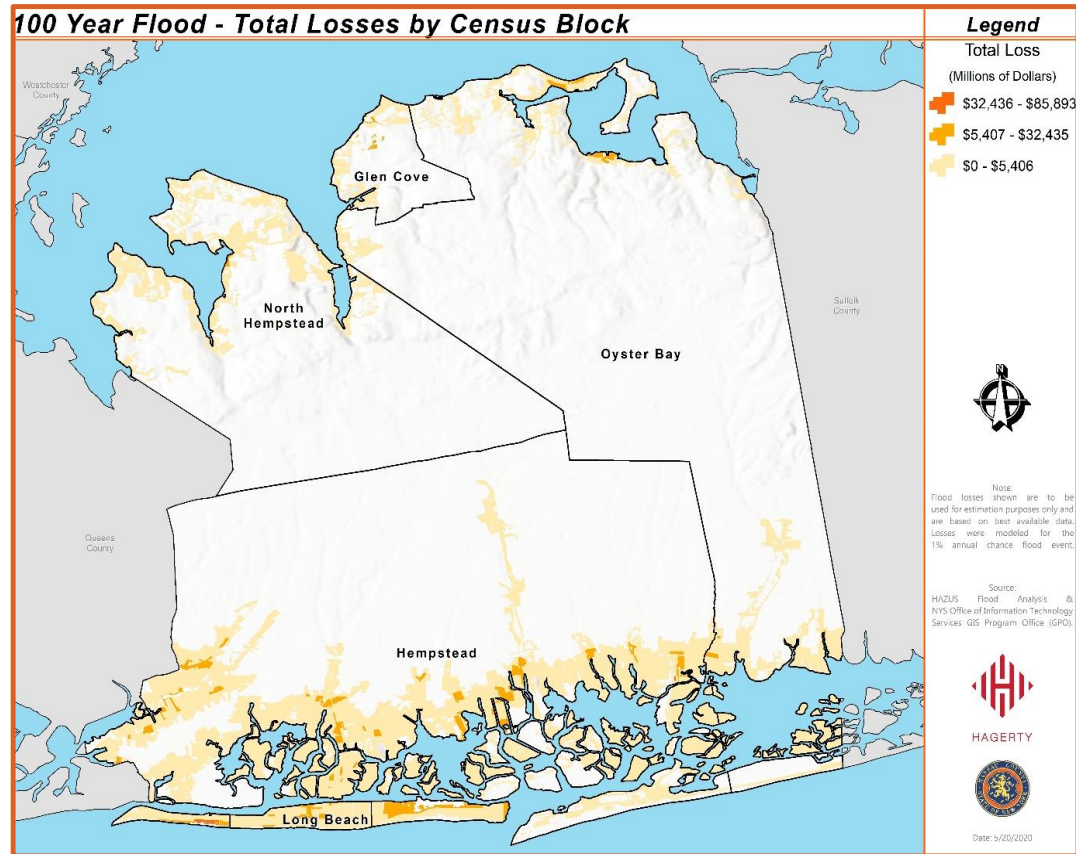
Highly Likely

- Floodplains:
 - 100-year floodplains have a 1% chance of flooding each year
 - 500-year floodplains have a 0.2% change of flooding each year
- Recent Occurrences:
 - Between 2015 and 2020:
 - 55 total floods
 - 21 flash floods
 - 33 coastal floods



Flooding: Vulnerability Assessment

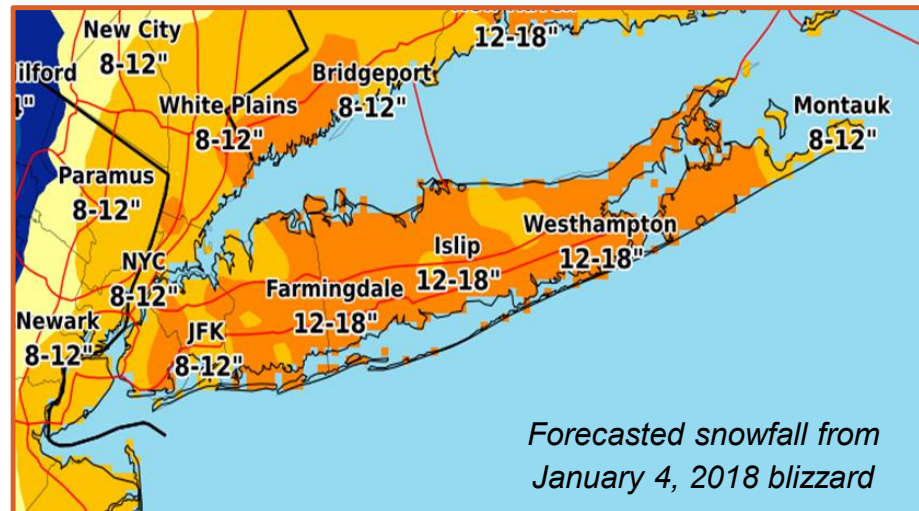
Building-related losses associated with a 100-year flood event total **nearly \$3.2 billion.**



Severe Winter Weather

Highly Likely

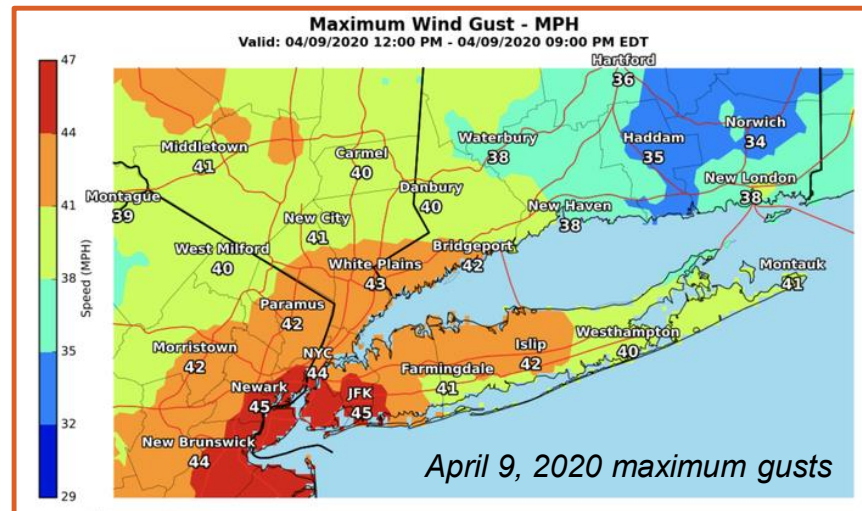
- Types:
 - **Snow:** frozen precipitation in the form of ice crystals
 - **Blizzards:** snow events with wind speed over 35 mph that reduce visibility to quarter mile or less
 - **Nor'easters:** Over nine inches of snow with high wind and storm surges
- Recent Occurrences:
 - Between 2010 and 2020, **66 reported events**, including **one death** and **129 injuries**.



Straight-Line Wind

Highly Likely

- Recent Occurrences:
 - **129 significant events** in the last 10 years, **injuring 3 individuals**
 - In the past 10 years, wind damages cost Nassau County almost **\$20,000 per year**
 - Single, **severe events can cause up to \$100,000 in damages**



When poll is active, respond at PollEv.com/hagertyprepa777

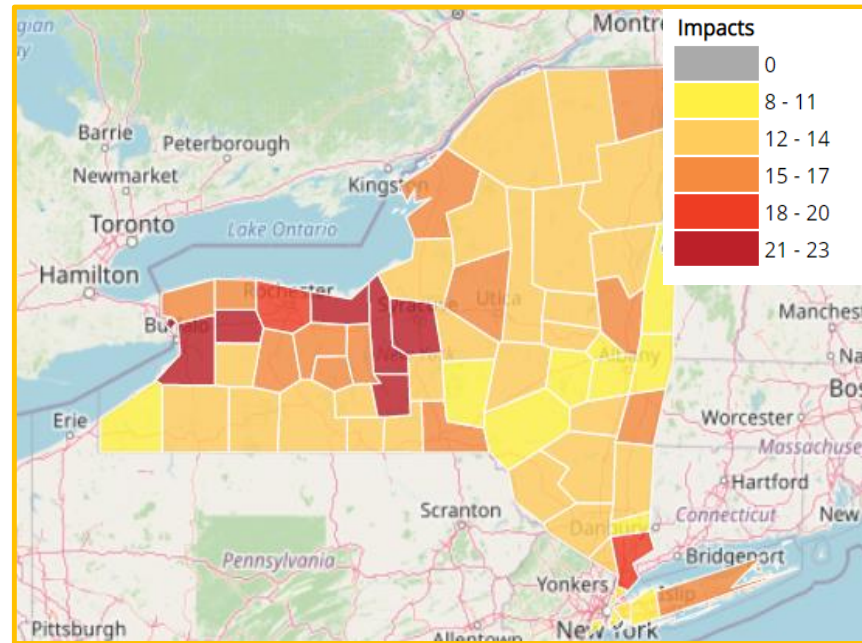
Text **HAGERTYPREPA777** to **22333** once to join

What additional information should we include in these hazard profiles?

Drought

Likely

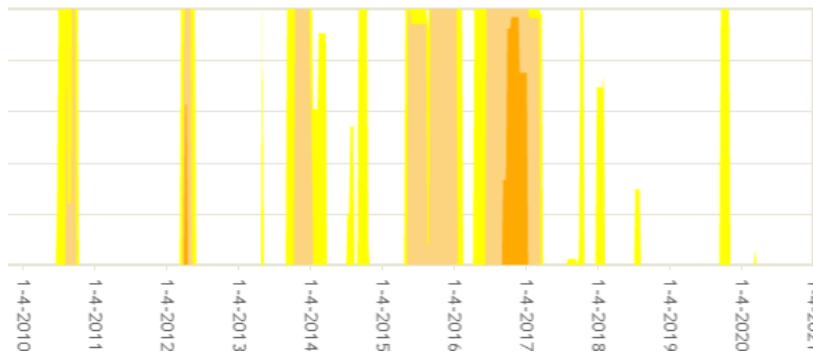
- Types:
 - **Meteorological:** lack of rain
 - **Hydrological:** disappearing groundwater
 - **Agricultural:** dry soil
 - **Socioeconomic:** economic response to a drought



Severity of drought in Nassau County, from National Drought Mitigation Center, 2020

Drought

- Recent Occurrences:
 - Several periods of minor to severe drought in the last 20 years



History of drought in Nassau County

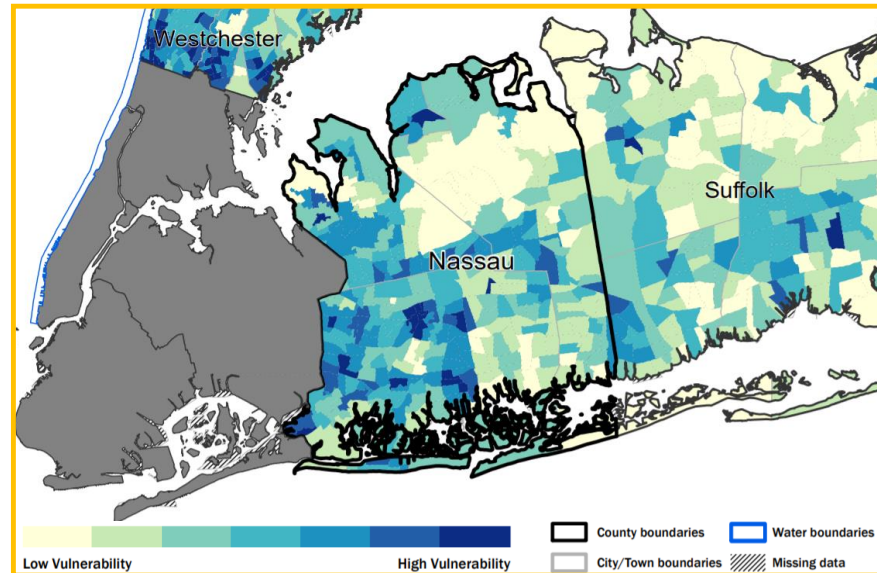
Category	Description
D0	Abnormally Dry
D1	Moderate Drought
D2	Severe Drought
D3	Extreme Drought
D4	Exceptional Drought



Extreme Temperatures

Likely

- Types:
 - **Extreme Heat:** Three hours over 75°F on two consecutive days
 - **Extreme Cold:** -35°F or colder
- Recent Occurrences:
 - Extreme heat has occurred **five times** between 2010 and 2020
 - Extreme cold has not occurred. Some nights have reached -20°F



Heat Vulnerability Index, Nassau County, from 2010 Census Bureau

Hail

Likely

- Recent Occurrences:
 - Between 2010 and 2020, Nassau County experienced **27 hail events, 18 of which were severe** (quarter-sized or bigger)



Example of grapefruit-sized hail

Description	Diameter (inches)
Pea	0.25
Mothball	0.50
Penny	0.75
Nickel	0.88
Quarter	1.00
Gold Ball	1.75
Tennis Ball	2.50
Baseball	2.75
Teacup	3.00
Softball	4.00
Grapefruit	4.50

Hurricane and Tropical Storms

Likely

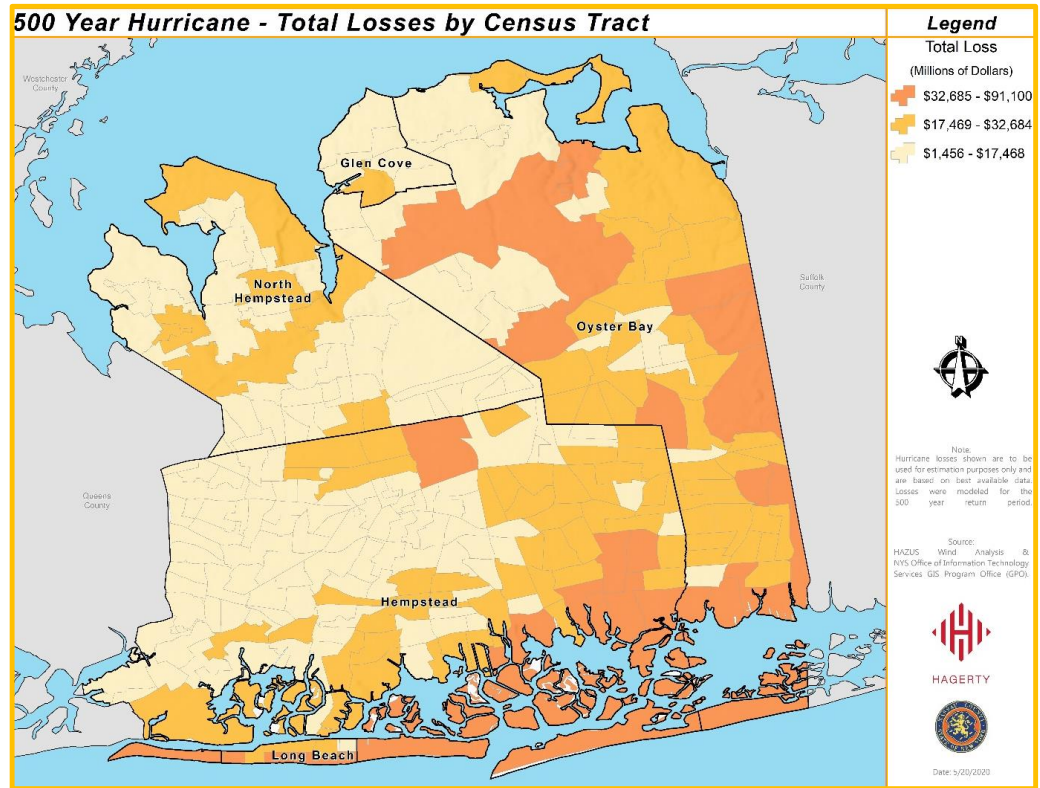
- Types:
 - **Tropical Storm:** sustained winds of at least 39 mph
 - **Hurricane:** sustained winds of at least 74 mph
- Recent Occurrences:
 - Nassau County was greatly impacted by **Hurricanes Isabel, Frances, Bill, Irene, and Sandy** in the last 20 years.

Category	Wind speed	Expected Damages
1	74-95 mph	Damage to roofs, vinyl siding, shingles, and gutters. Tree branches snap. Power outages could last several days.
2	96-110 mph	Well-constructed frame homes sustain major roof and siding damage. Near-total power loss expected.
3	111-129 mph	Major damage to well-built frame homes. Uprooted trees block roads. Electricity and water unavailable for several days to weeks.
4	130-156 mph	Well-built houses lose most of their roofs and walls. Power poles fall. Power outages last weeks to months.
5	157+ mph	Most framed homes destroyed. Most of the area uninhabitable for months.



Hurricane: Vulnerability Assessment

Estimated building-related losses from a 500-year hurricane total nearly **\$5 billion**.



Lightning

Likely

- Recent Occurrences:
 - Between 2010 and 2020, the County experienced **12 significant lightning events** that resulted in **5 injuries** and cost \$73,500



When poll is active, respond at PollEv.com/hagertyprepa777

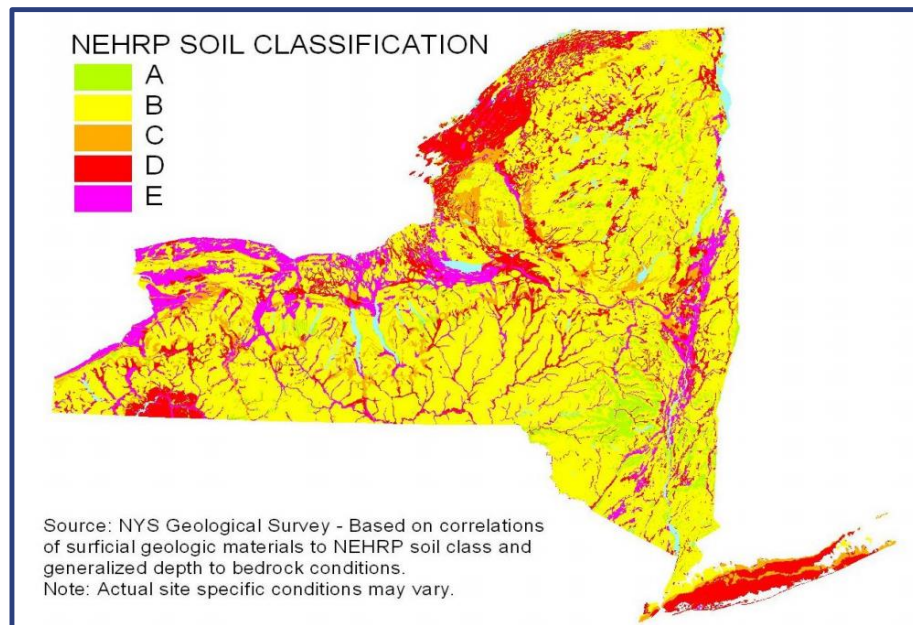
Text **HAGERTYPREPA777** to **22333** once to join

What additional information should we include in these hazard profiles?

Ground Failure

Unlikely

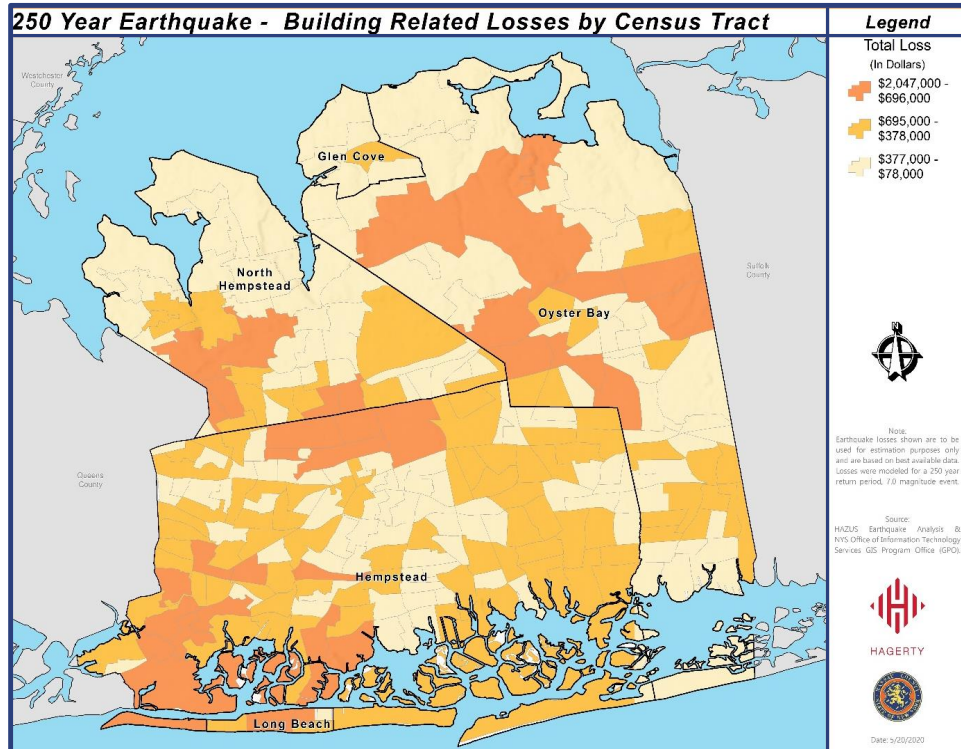
- Types:
 - Earthquake
 - Landslide
 - Land subsidence (sinkholes)
- Recent Occurrences:
 - No earthquakes
 - Landslide in 2014
 - Localized reports of land subsidence



D and E soils magnify the effects of earthquakes, whereas A and B soils reduce them.

Ground Failure: Vulnerability Assessment

Estimated building-related losses from a 250-year earthquake are nearly **\$1.8 billion**.



Tornadoes

Unlikely

- History in Nassau County:
 - No occurrences in the last 10 years
 - 8 reported events since 1950
- Vulnerability:
 - Based on reported previous occurrences, tornados estimated to cause an average of \$49,000 in damage annually

EF Rating	Wind speed	Expected Damages
0	65-85 mph	Broken branches, some damaged roofs.
1	86-110 mph	Mobile homes overturned. Loss of exterior doors. Windows break.
2	111-135 mph	Roofs torn off well-constructed houses. Foundations shifted. Cars lifted off the ground
3	136-165 mph	Entire house stories destroyed. Trains overturned. Trees debarked.
4	166-200 mph	Well-constructed houses completely leveled. Cars thrown.
5	Over 200 mph	Strong frame houses leveled off foundations. Automobiles thrown through the air over 100 yards.



When poll is active, respond at PollEv.com/hagertyprepa777

Text **HAGERTYPREPA777** to **22333** once to join

What additional information should we include in these hazard profiles?

Types of Mitigation Projects

Risk Review and Mitigation Strategy Webinar



Local Plans and Regulations

Steer development away from hazard-prone areas

For example:



Comprehensive plans



Land use ordinances



Community rating system



Structural Projects

Modify existing structures to protect them from hazards

For example:



Elevation



Utility undergrounding



Flood walls



Natural Systems Protection

Minimize damage and preserve the function of natural systems

For example:



Erosion control



Forest management

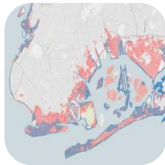


Wetland restoration

Education Programs

Inform and educate community about hazards and potential ways to mitigate them

For example:



Digitizing risk maps



Mandating real estate disclosure



Mental health first aid classes

Preparedness and Response Actions

Eliminate or reduce long-term risk through continuous preparation and mitigation activities

For example:



Mutual aid agreements



Upgrade communication capability



Upgrade citizen notification



In the last five years, what mitigation projects have been completed in your community?



- Structural elevations
- Property acquisition and buyout
- Building code enforcement
- Adopting higher standards for building code
- Education and outreach to homeowners and business owners on personal mitigation measures
- Utility elevation
- Retrofits
- Green infrastructure
- Floodplain and stream restoration

Funding for Mitigation

Risk Review and Mitigation Strategy Webinar



Funding for Mitigation Activities

FEMA Hazard Mitigation Assistance:

- Hazard Mitigation Grant Program (HMGP)
- Building Resilient Infrastructure and Communities (BRIC) – formerly Pre-Disaster Mitigation (PDM)
- Flood Mitigation Assistance (FMA)

Other Funding:

- Section 406 – Hazard Mitigation Funding Under Public Assistance
- Community Development Block Grant – Disaster Recovery (CDBG-DR)
- State specific mitigation grant programs (e.g., local match support, state specific disaster declarations)
- Non-governmental organization funding
- Private funding

FEMA HMA Funding

The majority of mitigation funding comes from FEMA's Hazard Mitigation Assistance (HMA) program, which includes:

Hazard Mitigation Grant Program

- Provides funding to support long-term hazard mitigation measures post-disaster
- Made available after a federal disaster declaration and dependent on the cost of the disaster

Building Resilient Infrastructure and Communities

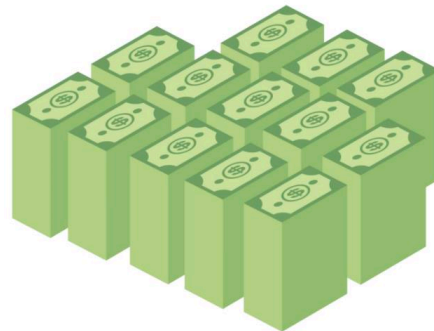
- Provides annual funding to support long-term hazard mitigation measures
- Funded by a 6% set-aside from federal post-disaster grant funding
- Previously PDM program

Flood Mitigation Assistance

- Provides annual funding to support flood mitigation
- Mitigates risk to NFIP insured properties

Hazard Mitigation Grant Program

- Authorized by Section 404 of the Stafford Act
- Can be made available after a Presidential Major Disaster Declaration
- Programmatic requirements can drive project development:
 - Cost effectiveness
 - Feasibility and effectiveness
 - Hazard mitigation plan ✓
 - Environmental planning and historic preservation
 - National flood insurance program



Since 1989, there have been

**1,669 Major Disaster
Declarations**

resulting in the availability of

\$20.7 billion

Hazard Mitigation Grant Program funds

Data current as of May 2020



Building Resilient Infrastructure and Communities

- Authorized by the Disaster Recovery Reform Act (DRRA) Section 1234 (amending Section 203 of the Stafford Act authorizing PDM)
- Funded by a 6% set-aside from federal post-disaster grant funding
- States with major disaster declaration in the last seven years are eligible
 - Due to COVID-19, all States will be eligible
- New program – notice of funding available in August/September 2020
- Additional programmatic requirements:
 - Reduce / eliminate risk and damage from future natural hazards
 - Meet latest two consensus codes (i.e. 2015 or 2018)



BRIC vs. PDM

- Existing activities as outlined in the HMA guidance are still eligible
- Additional eligibility includes:
 - Project scoping
 - Building code projects
 - Additional wildfire and wind implementation
 - Earthquake early warning

The BRIC program will:

Set clear priorities

- Lifelines and infrastructure projects
- Building codes
- Shared partnerships
- Innovative

Build capacity

- Capacity building activities
- Technical assistance
- Mitigation Action Portfolio

Increase flexibility

- Reduce limitations
- Increase caps
- Allows pre-award scoping

Streamline processes

- New application process
- Project extensions
- Phased projects



Community Lifelines

Lifelines are vital services communities use. BRIC mitigation grants can go towards projects that make lifelines more resilient.



Community Lifelines

Lifeline-focused mitigation projects will support community stabilization after a disaster and prevent cascading impacts.



Designing and building **water storage** for use during water outages.



Flood-proofing local hospitals to reduce the risk of disruption during response.



Undergrounding of utility lines to mitigate from wind and other hazards



Improving **stormwater drainage system** capacity to limit transportation disruption

When poll is active, respond at PollEv.com/hagertyprepa777

Text **HAGERTYPREPA777** to **22333** once to join

What more do you want know about BRIC funding?

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Flood Mitigation Assistance

- Authorized by Section 1366 of the National Flood Insurance Act of 1968, as amended
- Goal of program is to reduce flood risk of repetitive loss (RL) and severe repetitive loss (SRL) properties insured by the National Flood Insurance Program (NFIP)

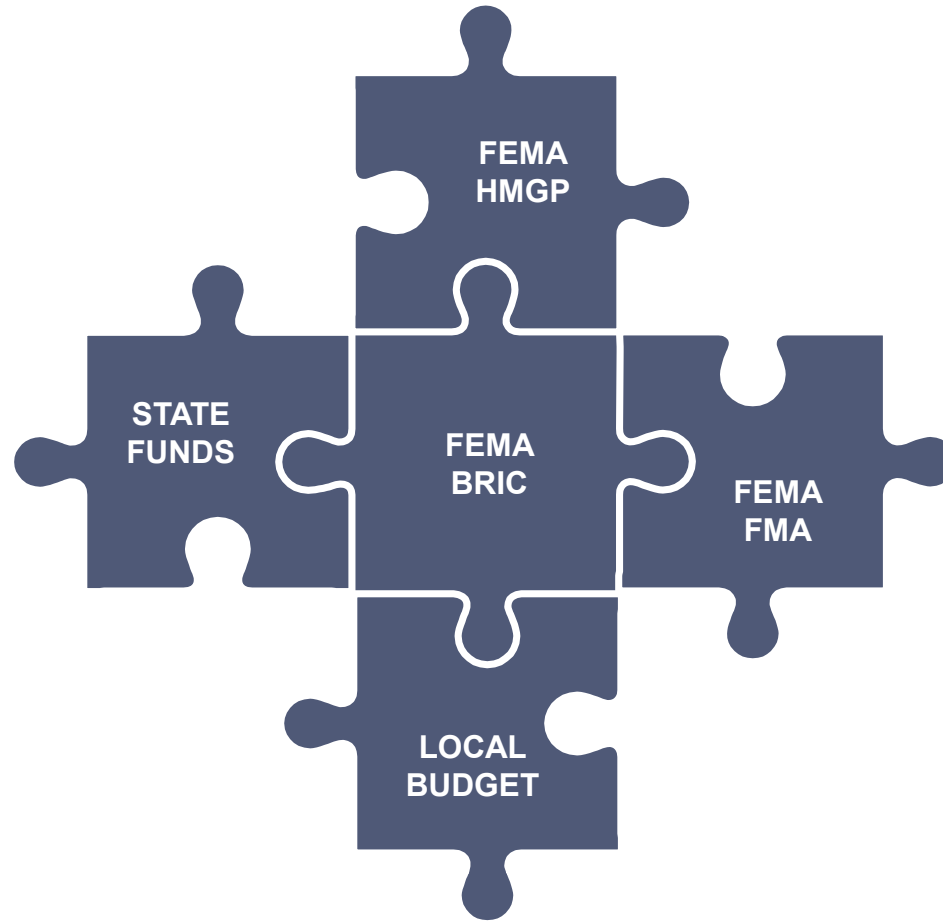


Other Funding Sources

- Section 406 – Hazard Mitigation Funding Under Public Assistance
- Community Development Block Grant – Disaster Recovery (CDBG-DR)
- State specific mitigation grant programs (e.g., local match support, state specific disaster declarations)
- Non-governmental organization funding
- Private funding



Funding to Create Resilience is Complex

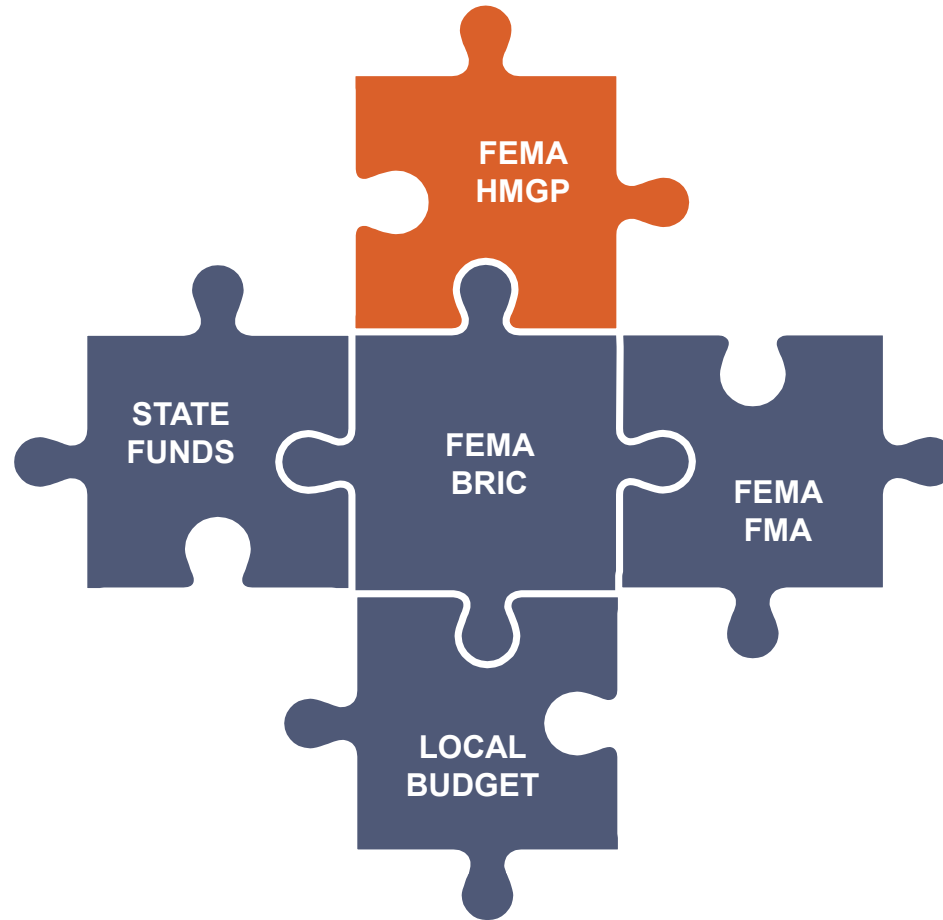


Funding to Create Resilience is Complex

Eligible Activity	HMGP	BRIC	FMA
Generators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Structure Elevation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Post-Disaster Code enforcement	<input checked="" type="checkbox"/>		
Green Infrastructure	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Structure Relocation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advance Assistance	<input checked="" type="checkbox"/>		
Flood Diversion and Storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hazard Mitigation Planning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Technical Assistance			<input checked="" type="checkbox"/>
Management Costs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



Funding to Create Resilience is Complex



Funding Considerations for Mitigation Planning

- Federal cost share will greatly reduce the cost of mitigation measures
- Local cost share can become a cost-burden (especially post-disaster)
- Strategic identification can support development of an implementable plan



Developing your Mitigation Strategy

Risk Review and Mitigation Strategy Webinar



What is a Mitigation Strategy?

The projects and actions your community will take to mitigate the risks posed to your community's people, property, infrastructure, and natural environment.

Your mitigation strategy should:

- Reduce long-term risk to natural hazards
- Reflect the values and priorities of the community
- Addresses current and future threats



Mitigation Strategy Development

Step 1:

Review and document progress on mitigation projects

Step 2:

List all proposed mitigation activities

Step 3:

Develop at least two mitigation action worksheets

- For jurisdictions with special flood hazard areas, one action must address flood



Step 1: Review and Document Progress on Mitigation Projects

- Review the **2014 mitigation action spreadsheet** and report progress on implementation
 - Note which actions should be removed or modified to carry forward
- **Document any other mitigation projects completed** by your jurisdiction in the last 5 years, on this spreadsheet.



Step 2: List All Proposed Projects

- Using the blank **Proposed Projects spreadsheet**, populate it with the projects that your jurisdiction would like to pursue in the next five years.
- This may include projects not completed in the 2014 plan, but that are still good ideas to carry forward.



Step 2: List All Proposed Projects

PROPOSED PROJECTS													
*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.													
Proj #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority

Project Name and Number

- This should be a unique identifier for the project. If the project was included in a previous plan and is being carried over, the identifier should be consistent or reference the previous one.

Goal and/or Objective being met

- The project must be consistent with a goal or objective identified in the plan.

Hazard to be mitigated

- Identify the Hazard to be mitigated.

Description of the Problem

- Provide a brief description of the hazard's impact to the community, both previous damages and/or potential damages.



Step 2: List All Proposed Projects

PROPOSED PROJECTS													
*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.													
Proj #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority

Description of the Solution (Project Description)

- Provide a brief description of the proposed project, including location, scope of work (including studies/assessments required or already performed), and any known environmental or historic preservation concerns that may arise upon implementation.

Whether or not the project is related to a Critical Facility

- Is this project related to a critical facility? Yes/No. As sampled above, any project related to a critical facility must assure that the facility will be protected to the 500-year event or greatest damage scenario, to meet State Standard F2.

Environmental Planning and Historic Preservation (EHP) Issues

- Note if this project may potentially be subject to an environmental planning, compliance, and review process

Estimated Timeline

- Identify the time required for completion of the project upon implementation.

Lead Agency responsible for implementation

- Identify the lead agency or department responsible for implementation.



Step 2: List All Proposed Projects

PROPOSED PROJECTS													
*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.													
Proj #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority

Estimated Costs

- Provide an estimated cost for implementation. Rough dollar figures are ideal, but if unknown, a specified range is acceptable.

Estimated Benefits

- Provide a description of the estimated benefits, either quantitative and/or qualitative.

Potential Funding Sources

- Identify potential funding sources for implementation, which will be supported by a list as required in State Standard F8; and

Priority

- Identify the prioritization of this project as determined by a methodology established by the community.



Step 3: Mitigation Action Worksheets

- Must complete **minimum of two (2) NYS DHSES Action Worksheets** for jurisdiction's highest priority projects
 - One must address flooding for communities that have special flood hazard areas
- New York State Department of Homeland Security and Emergency Services (DHSES) administers **3 mitigation grant programs**:
 - HMGP
 - BRIC (formerly PDM)
 - FMA
- Letters of Intent (LOI) for projects more fully developed in the NYS DHSES Action Worksheets will **rank higher and be prioritized** for funding over those that are not

XXXXXXX County Multi-Jurisdictional Hazard Mitigation Plan			
(Name of Jurisdiction)			
Project Name: NYS DHSES Action Worksheet			
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"/>			
<small>(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)</small>			
Level of Protection:	Useful Life:	Estimated Benefits (doses avoided):	
Estimated Cost:	Plan for Implementation		
Prioritization:	Estimated Time Required for Project Implementation:	Desired Timeframe for Implementation:	Potential Funding Sources:
Responsible Organization:	Local Planning Mechanisms to be Used in Implementation, if any:		
Three Alternatives Considered (including No Action)			
Alternative:	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:			

2017 New York State Hazard Mitigation Planning Standards Guide Page 12 of 15



Step 3: Mitigation Action Worksheets

XXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

(State of Use/Action)

NYS DHSES Action Worksheet

Project Name: _____
 Project Number: _____ Risk / Vulnerability: _____
 Hazard of Concern: _____
 Description of the Problem: _____

Action or Project Needed for Implementation

Description of the Solution: _____

Is this project related to a Critical Facility? Yes No

Is this project (not about a project) in the 100-year flood zone or in the special-needs disaster recovery, evacuation or shelter area? Yes No

Level of Protection	Estimated Benefit	Estimated Cost
100-year Flood		
500-year Flood		

Risk Reduction Opportunities

Priority	Estimated Time Required for Project Implementation	Potential Funding Source	Local Planning Mechanism to be Used for Implementation, if any
1			
2			
3			

Three Alternatives Considered (Including No Action)

Alternative	Action to be Taken	Estimated Cost	Evaluation
1			
2			
3			

Project Report (for plan maintenance)

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

© 2017 New York State Hazard Mitigation Planning Standards Guide Page 12 of 15

NYS DHSES Action Worksheet	
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.
Risk / Vulnerability	
Hazard of Concern:	Identify the hazard being addressed with this action.
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.



Step 3: Mitigation Action Worksheets

XXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

Phase of Project/Action

Project Name: _____
 Project Number: _____
 Hazard of Concern: _____
 Date of Review: _____

Description of the Problem

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: _____ Estimated Benefits: _____
 Useful Life: _____ Project Cost: _____

Plan for Implementation

Prioritization: _____ Review Status for Implementation: _____
 Estimated Time Required for Project Implementation: _____ Potential Funding Source: _____
 Responsible Organization: _____ Local Government/Department to be Used in Implementation, if any: _____

Three Alternatives Considered (Including No Action)

Alternative: _____ Evaluation: _____
 Alternative: _____ Evaluation: _____
 Alternative: _____ Evaluation: _____

Program Report (for plan maintenance)

Date of Review: _____
 Report of Progress: _____

Type of Evaluation of the Problem and/or Solution: _____

2017 New York State Hazard Mitigation Planning Standards Guide Page 12 of 15

Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
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:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	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.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		



Step 3: Mitigation Action Worksheets

XXXXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

XXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

Project Name: _____
 Project Number: _____
 Date of Concern: _____
 Description of the Problem: _____
 Actions or Projects Proposed for Implementation: _____
 Description of the Solution: _____
 Is this project outlined in a Critical Plan? Yes No
 (If yes, the project must be listed in the 100 most flood critical or the most severe damage concerns, whichever is greater.)
 Cost of Project: _____ Estimated Benefits: _____
 Other: _____ Other: _____

Plan for Implementation

Prioritization:	Desired Timeframe for Implementation:	Desired Start Date for Implementation:	Potential Funding Sources:
Estimated Time Required for Project Implementation:	Potential Funding Sources:	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Responsible Organization:	Local Planning Mechanisms to be Used in Implementation, if any:	Estimated Cost:	Evaluation:

Alternatives: _____

Program Report (for plan maintenance)

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

2017 New York State Hazard Mitigation Planning Standards Guide Page 12 of 15

Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provided the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.



Step 3: Mitigation Action Worksheets

XXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

Phase of Application

Project Name: _____
 Project Number: _____
 District: _____
 Date of Concern: _____
 Description of the Problem: _____

Actions or Projects Proposed for Implementation

Description of the Solution: _____

Is this project outlined in a Federal Permit? Yes No
 (If yes, did project meet Federal or State or the 100-year flood or other special water damage concerns, whichever is greater)

Level of Protection: _____ Estimated Benefits: _____
 Type of Action: _____ (Select one)
 Estimated Cost: _____ (Select one)

Plan for Implementation

Priority/Status: _____ Proposed Start Date for Implementation: _____
 Estimated Time Required for Project Implementation: _____ Potential Funding Source: _____
 Responsible Organization: _____ Local Government/Department to be Used in Implementation: _____

Three Alternatives Considered (including No Action)

Alternative:	Action	Estimated Cost	Evaluation
	No Action	\$0	
	Alternative 1 – Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 – Brief Description		Include a description of pros/cons of Alternative 2.

Date of Entry: _____
 Subject: _____
 Report of Progress: _____
 Update Evaluation of the Problem and/or Solution: _____

2017 New York State Hazard Mitigation Planning Standards Guide Page 12 of 15

Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
	Alternative 1 – Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 – Brief Description		Include a description of pros/cons of Alternative 2.



Step 3: Mitigation Action Worksheets

XXXXXX County Multi-Jurisdictional Hazard Mitigation Plan

Phase of Implementation

Project Name: _____
 Project Number: _____
 District of Concern: _____
 Date of Status Report: _____
 Description of the Problem: _____
 Description of the Solution: _____
 Action or Project Initiated for Implementation: _____
 Is this project included in a Federal Funding? Yes No
 (If yes, the project must be added to project in the 100 most flood areas of the actual worst damage scenario, whichever is greater.)
 Type of Problem: _____ Estimated Benefits: _____
 Estimated Costs: _____ (Specify amount)
Plan for Implementation
 Prioritization: _____
 Estimated Time Required for Project Implementation: _____
 Responsible Organization: _____
 Funding Source: _____
 Local Government: _____
 State Government: _____
 Federal Government: _____
 Other: _____
 Status: _____
 Evaluation: _____
 Alternatives: _____

Progress Report (for plan maintenance)

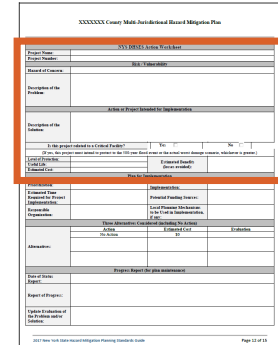
Date of Status Report: _____
 Report of Progress: _____
 Update Evaluation of the Problem and/or Solution: _____

2011 New York State Hazard Mitigation Planning Standards Guide Page 12 of 18

Progress Report (for plan maintenance)	
Date of Status Report:	This section should be completed during plan maintenance/evaluation.
Report of Progress:	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.
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.



Worksheet Example #1



NYS DHSES Action Worksheet			
Project Name:	Flooding at the intersection of Wall Street and Clifton Country Road		
Project Number:	TCP-21		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	Wall Street meets Clifton Country Road where the latter runs through Clifton Country Mall, a regional economic hub. A Google map of the location is included on the next page. The town identified this location as a flood problem some years back and initiated an engineering study with the end goal of expanding the existing retention pond and installing better flood controls.		
Action or Project Intended for Implementation			
Description of the Solution:	The proposed project includes redesigning the outlet structure, adding a new overflow culvert, and cleaning the pond to maximize storage capacity of the basin. Downstream culvert systems have been evaluated to determine if the improvements will impact the downstream culverts capacity.		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input checked="" 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:	100-year flood event	Estimated Benefits (losses avoided):	Protect travelers and business property. Ensure the ongoing viability of a town economic center.
Useful Life:	75-100 years		
Estimated Cost:	\$300,000 – 400,000		

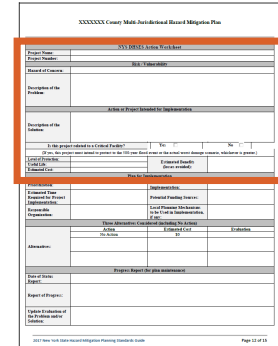


Worksheet Example #1

Plan for Implementation			
Prioritization:		Desired Timeframe for Implementation:	Short-Term
Estimated Time Required for Project Implementation:	1-2 years	Potential Funding Sources:	FEMA Flood Mitigation Assistance; Emergency Watershed Protection Program; USDA-NRCS Watershed Protection and Flood Prevention Program; Water Quality Improvement Grant; General Budget
Responsible Organization:	Town Highway Department with support from mall owners	Local Planning Mechanisms to be Used in Implementation, if any:	Stormwater Management Plan
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Ongoing flooding of roadway leading to a major economic center. Potential loss of income, damage to travelers and to business property.
	Phased or partial realization of plan: redesigning outlet structure and adding a new culvert or cleaning pond	Unknown	Pros: Lower cost; leverage funding to realize highest impact activity. Cons: Partial realization of plan may impact downstream culvert capacity and may fail to mitigate flooding.
	Renewed survey and needs assessment to determine best flood control measures.	Unknown	Pros: Provides clarity regarding proposed measures and their outcomes. Cons: Delays action and implementation of flood mitigation measures; additional survey or needs assessments may be redundant to previous studies.
Progress Report (for plan maintenance)			
Date of Status Report:	November 2018		
Report of Progress:	Through the NYSDEC the Town of Clifton Park (TOCP) has obtained a Water Quality Improvement Program Grant. The review of the plans and reports are ongoing between NYSDEC and the Towns Designated Engineer (TDE). The TDE has submitted their latest report to NYSDEC on 7/27/18. There were two teleconferences with NYSDEC, TDE, and TOCP on 8/3/18 & 8/29/18. The NYSDEC did not want the weir boards as part of the stormwater controls. The TDE wanted to know the exact elevation of the existing water line on both sides of Clifton Country Road before moving forward with the design change. The TOCP Water Department located the elevations of the water line on 9/28/18. The TDE is now in the process of modifying the outlet controls.		
Update Evaluation of the Problem and/or Solution:			



Worksheet Example #2



NYS DHSES Action Worksheet			
Project Name:	Education and Outreach Before and After Flood		
Project Number:	SC-28		
Risk / Vulnerability			
Hazard of Concern:	Flood		
Description of the Problem:	People may be unaware of actions they should take to protect themselves and their pets prior to a flood. They also may be unaware of the health hazards that can occur after a flood.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide outreach through fairs, public messaging, and education materials and talks.		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input checked="" 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:	100-year	Estimated Benefits (losses avoided):	High
Useful Life:	Ongoing		
Estimated Cost:	Low		



Worksheet Example #2

XXXXXX County Risk Mitigation Plan

Plan for Implementation

Prioritization: High

Estimated Time Required for Project Implementation: Short-term (1 to 5 years)

Responsible Organization: Saratoga County Department of Public Health

Desired Timeframe for Implementation: Immediately

Potential Funding Sources: Grants/Volunteering Programming

Local Planning Mechanisms to be Used in Implementation, if any: Emergency Preparedness Plan, Outreach, Volunteer Programming

Three Alternatives Considered (including No Action)

Action	Estimated Cost	Evaluation
No Action	\$0	
Website information	0	While this tool enables the County to be able to see who interacted, it is not interactive.
Public messaging through social media	0	Depends on people with computers and use of social media.

Progress Report (for plan maintenance)

Date of Status Report:

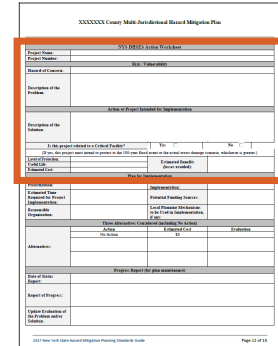
Report of Progress:

Update Evaluation of the Problem and/or Solution:

Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediately
Estimated Time Required for Project Implementation:	Short-term (1 to 5 years)	Potential Funding Sources:	Grants/Volunteering Programming
Responsible Organization:	Saratoga County Department of Public Health	Local Planning Mechanisms to be Used in Implementation, if any:	Emergency Preparedness Plan, Outreach, Volunteer Programming
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
	Website information	0	While this tool enables the County to be able to see who interacted, it is not interactive.
	Public messaging through social media	0	Depends on people with computers and use of social media.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Worksheet Example #3



NYS DHSES Action Worksheet			
Project Name:	Special Needs Registry		
Project Number:	SC-29		
Risk / Vulnerability			
Hazard of Concern:	Special Needs Registry – Public Education and Revamping to make current (all hazards)		
Description of the Problem:	General public is not aware of this registry. Not everyone that should be on the list is on it. Additionally, some individuals may have moved or passed away. They need to be removed from the list.		
Action or Project Intended for Implementation			
Description of the Solution:	Utilize County Social Services to get people registered in the database. Develop method to maintain and remove individuals from the list.		
Is this project related to a Critical Facility?		Yes	No <input checked="" 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:	N/A	Estimated Benefits (losses avoided):	Special needs registry will remain current.
Useful Life:	N/A		
Estimated Cost:	County Funding		



Worksheet Example #3

Plan for Implementation			
Prioritization:	Medium	Desired Timeframe for Implementation:	2019
Estimated Time Required for Project Implementation:	1.5 years	Potential Funding Sources:	County Budget
Responsible Organization:	Office of Emergency Services	Local Planning Mechanisms to be Used in Implementation, if any:	County Office for the Aging, County Public Health Office, and public outreach
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
	End registry	\$0	Leaves special needs population vulnerable
	Begin new registry	\$0	Lose all records – current and outdated
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



When poll is active, respond at PollEv.com/hagertyprepa777

Text **HAGERTYPREPA777** to **22333** once to join

What more information do you want about filling out the worksheets?

Next Step and Q&A



Key Upcoming Events

June 15 – July 20

Public Survey goes Live

Elicit feedback from the whole community

June 25 – July 16

Jurisdictional Consultation Calls

Verify your jurisdiction's annex and mitigation strategy

August 20

Planning Committee Mitigation Strategy Review Webinar

Offer feedback on your draft mitigation strategy



Jurisdictional Consultation Calls

- **One-time consultation calls** available with Hagerty for Planning Committee representatives of the **towns, cities, and villages**
- Your chance to **validate the information** needed for your jurisdiction's annex, review your jurisdiction's mitigation actions, and get your questions answered
- Check your email to book your appointment between **June 25th and July 16th**
- Convene your jurisdiction's team **ahead of the call** to:
 - Review past mitigation actions
 - Document your proposed list of mitigation actions
 - Fill out your two mitigation action worksheets

For the County, Susan will contact non-jurisdictional representatives on an individual basis.



Addressing Sheltering and Displacement

Plan for Displaced Residents

The plan must:

- List viable locations for temporary housing compliant with NYS Uniform Fire Prevention and Building Code
- Include a letter from the local floodplain administrator certifying viability or listing any actions required to ensure conformance

Plan for Evacuation and Sheltering Needs

The plan must document:

- Evacuation routes and procedures
- Location of shelters
- How these plans are accessible and available to the public



Nassau County Needs Your Help!



Shelter in Nassau County during Superstorm Sandy

We are looking for volunteers to help support our Sheltering Capability. Especially during COVID-19, **we want to ensure that we can shelter residents if there were a need to evacuate.** With social distancing and other guidelines in place **we need additional assistance in our shelters!**

Please let us know if you have one, two, or more volunteers that are interested in receiving shelter training and might be available when the need arises! We have included a space for you to provide us this information when you sign up for your Consultation Call.

Next Steps

Planning Committee - look out for an email that contains instructions to:

- 1. Schedule a Jurisdictional Consultation Call with Hagerty**
- 2. Review and update the 2014 mitigation actions spreadsheet**
- 3. Identify all proposed mitigation projects**
- 4. Fill out at least two mitigation action worksheets**
- 5. Advertise the public survey to constituents**
 - Hagerty will provide sample wording for social media posts

To have your Jurisdictional Consultation, submit your updates to the 2014 Mitigation Actions, list of Proposed Mitigation Projects, and two Mitigation Action Worksheets to [this link](#) at least 72 hours in advance.



Questions?



Sydney McKenna

(703) 350-9689

sydney.mckenna@hagertyconsulting.com



Michelle Bohrson

(609) 558-4878

michelle.bohrson@hagertyconsulting.com

6/11/20 Risk Review and Mitigation Strategy Webinar Attendee List

Last	First	Organization
Alfano-Hardy	Maria	Village of Bayville
Biehayn	Rosemarie	Village of Stewart Manor
Bohrson	Michelle	Hagerty Consulting
Brown	Shawn	Town of North Hempstead
Bunnell	Keith	Village of Williston Park
Castro	Gerry	Village of Lawrence
Celender	Jean	Village of Great Neck Plaza
Clarke	Shannon	New York State Division of Homeland Security & Emergency Services
Cole	Elizabeth	Long Island Regional Planning Council
Crean	Kevin	Nassau County Office of Community Development
Cribbin	Robert	Village of Lynbrook
Daliposki	Sam	Village of Roslyn
Davatzes	Julia	Hagerty Consulting
Devaney	Thomas	Town of North Hempstead
Donno	Barbara	Village of Plandome Manor
Farrell	Pat	Village of Lake Success
Garcia	Juan	Village of East Rockaway
Ginnane	Kevin	Village of Floral Park
Golio	Michael	Nassau County Sheriff's Department
Gootman	Stephanie	FEMA Region II
Hubbard	John	Village of Cove Neck
Iannucci	Pasquale	Village of Westbury
Johnson	Diana	Nassau County Department of Human Services
Jurcsak	Michael	Village of Russell Gardens
Kalimian	Albert	Village of Matinecock
Kiernan	Chrissy	Village of Baxter Estates
Kreitzman	Ralph	Nassau County Village Officials Association
Kugler	Josh	Village of Mill Neck
Kussoff	Dina	Village of Roslyn Harbor
Levkowitz	Michael	Hagerty Consulting
Lobaccaro	Marianne	Village of North Hills
Long	Mary	Village of South Floral Park
Macri	Robert	Village of Massapequa Park
Marcus	Renee	Village of Floral Park
Marino	Anthony	Village of Malverne
Marks	Nicole	Nassau County Office of Emergency Services Port Washington Manhasset Office of Emergency Management
Martinez	Correne	Management
Massaro	Louis	Village of Great Neck
Mazurkiewicz	William	Village of Thomaston
McDonough	Tom	Town of North Hempstead
McGinty	Michael	Village of Island Park
McKenna	Sydney	Hagerty Consulting

Monitz	Gary	FEMA Region II
Mullen	Thomas	Village of Upperbrookville
Nemshin	Jeff	Village of Laurel Hollow
Neubert	James	Village of Great Neck
Neubert	Jim	Village of Great Neck
Ortize	Chrissy	City of Glen Cove Code Enforcement
Palmer	Darcia	Village of Garden City
Palumbo	Lenny	Village of Mineola
Pape	Emil	Village of Bellerose
Parise	Frank	Village of Cedarhurst
Park	Susan	Nassau County Office of Emergency Services
Pilczak	Bohdan	Nassau County Fire Marshall's Office
Powers	Edward	Town of Hempstead
Powers	Ed	Town of Hempstead
Ridgway	Brian	Village of Old Westbury
Roca	Frank	Village of Valley Stream
Rosenbaum	Randall	Village of Flower Hill
Russo	Joseph	Village of Muttontown
Schneider	Brian	Nassau County Department of Public Works and Parks
Shatzkamer	Ronnie	Village of Flower Hill
Spina	Robert	Village of Brookville
Stanco	Domenick	Village of Garden City
Tenenbaum	Francois	Village of Woodsburgh, Village of Hewlett Bay Park, and Village of Hewlett Neck
Viana	David	Nassau County Department of Public Works
von Brieson	Edward F.	Village of Matinecock
Weber	Katie	Hagerty Consulting
Zitani	Brian	NYS Floodplain and Stormwater Managers Association

Risk Review and Mitigation Strategy Webinar

June 11, 2020 | 10 to 11:30 a.m. EDT

Virtual Meeting

Introduction

The meeting began with brief introductions by Sydney McKenna and Michelle Bohrson of Hagerty Consulting (Hagerty). They welcomed the attendees and gave a brief overview of the agenda for the meeting. McKenna spoke to the importance of hazard mitigation in developing resilient communities by helping them assess their risks to natural hazards and addressing existing vulnerabilities.

S. McKenna reviewed the planning process to date, sharing progress made on the plan update and listing upcoming meetings and deliverables. Notable items in the schedule are as follows:

- June 12, 2020: Hazard Mitigation Stakeholder Webinar
- June 15 – July 20: Public Survey
- June 25 – July 16, 2020: Individual Jurisdictional Consultations
- August 2020: Complete draft of the Hazard Mitigation Plan
- September 2020: Complete full draft of the Hazard Mitigation Plan and commence Planning Committee review period
- October 2020: Submit Hazard Mitigation Plan to New York State for review, hold a public meeting or webinar, and start the public comment period
- November 2020: Submit Hazard Mitigation Plan to FEMA Region II
- December - February 2021: Approval pending adoption and adoption of Hazard Mitigation Plan

Risk Assessment Review

Risk Assessment Findings

S. McKenna discussed the research, data sources, and methodology used to develop the risk assessment. The methodology has three parts: **hazard identification**, **hazard probability**, and **hazard impact**. Hazard identification determines hazards relevant to the area. Hazard probability quantifies the likelihood of that hazard in future. In this project, hazard probability is categorized as **highly likely** (occurs more than once a year), **likely** (occurs once every five years), or **unlikely** (occurs less than once every five years). **Hazard impact** quantifies the impacts of hazards. Hagerty used the programs Hazard New York (HAZNY) and Hazus to create the risk assessment. The detailed results will be made available in the Plan.

The results of the hazard probability analysis are as follows.

- Highly likely hazards
 - Coastal hazards (riptides, erosion, wave action, storm surge)
 - Flooding
 - Severe winter weather
 - Straight-line wind
- Likely hazards
 - Drought
 - Extreme temperatures
 - Hail
 - Hurricanes and tropical storms
 - Lightning
- Unlikely hazards
 - Ground failure (earthquakes, landslides, sinkholes)
 - Tornadoes

Risk Assessment Feedback

Attendees were asked to contribute any feedback they had on the identified hazards and hazards in general. Attendees responded with concerns of four hazards: pandemic/disease, flooding due to suburban sprawl and lack of green space, microbursts, and earthquakes. They mentioned two notable hazard events: Village of Great Neck microburst in June 2010 and an earthquake on August 23, 2011.

Types of Mitigation Projects

M. Bohrson reviewed five different types of mitigation projects that can be implemented in communities.

- **Local plans and regulations** help steer development away from hazard-prone areas. Examples of this type of project are comprehensive plans, land ordinances, and community rating systems.
- **Structural projects** modify existing structures to protect them from hazards. Examples of this type of project are building elevations, floodwalls, and placing utilities underground.
- **Natural systems protections** minimize damage and preserve the function of natural systems. Examples of this type of project are erosion control, forest management, and wetland restoration.
- **Education programs** are important in informing and educating the community about hazards and how to mitigate their impacts. Examples of this type of project are digitizing risk maps, mandating real estate disclosures, and mental health first aid classes to help survivors cope with the impact of disasters.
- **Preparedness and response actions** eliminate or reduce long-term risk through continuous activities. Examples of this type of project are mutual aid agreements, upgrading communication systems, and upgrading citizen notification systems.

Funding for Mitigation

FEMA Hazard Mitigation Assistance

M. Bohrson reviewed two major types of mitigation funding sources. The first, FEMA Hazard Mitigation Assistance (HMA), includes the **Hazard Mitigation Grant Program (HMGP)**, **Building Resilient Infrastructures and Communities (BRIC)**, and **Flood Mitigation Assistance (FMA)**. M. Bohrson spoke in-depth about the requirements of each program.

HMGP supports funding for long-term hazard mitigation post-disaster the amount of funding depends on the size of the disaster. BRIC replaces the Pre-Disaster Mitigation (PDM) Program and provides annual funding for long-term hazard mitigation measures. It has a broader scope of activities eligible for funding and emphasizes funding for **community lifelines**. Community lifelines are vital services that a community uses, such energy or communications, and BRIC funding can support making these lifelines more resilient. Examples of eligible activities are undergrounding utility lines and improving stormwater drainage system capacities. The third type of assistance, FMA, provides annual funding for flood mitigation measures.

Specifics about each of these programs, how they differ, and the requirements of each are included in the presentation slides, which will be made available to meeting attendees.

Other Funding Sources

The second grouping of funding sources are **Section 406 Hazard Mitigation Funding Under Public Assistance, Community Development Block Grant – Disaster Recovery (CDBG-DR), state-specific mitigation grant programs, non-governmental organizational funding, and private funding**. M. Bohrson emphasized how understanding different types of funding sources is important in developing a comprehensive funding strategy to support mitigation efforts.

Developing Your Mitigation Strategy

S. McKenna defined **mitigation strategies** as the projects and actions a community takes to mitigate risks. Mitigation strategies should reduce long-term risks to natural hazards, reflect the values and priorities of the community, and address current and future threats. She discussed the upcoming **public survey** that will be used to collect input from the public. She also discussed the next steps of the project, in which the **participating jurisdictions will be documenting past mitigation actions and proposing new mitigation projects in their communities**. Towns, villages, and cities will have upcoming jurisdictional consultation calls with Hagerty to discuss their proposed plans.

Nicole Marks (Director of Emergency Management at the Nassau County Office of Emergency Management) addressed sheltering and displacement in Nassau County. She noted that there is a need for additional assistance in the shelters and for more volunteers to receive shelter training. Attendees should look to identify individuals who might be interested in receiving shelter training.

Next Steps and Q&A

Next Steps: Planning Committee

- Distribute the **public survey** online and through social media using the template language attached.
- Identify persons who may be interested in receiving **shelter training**.

Next Steps: Towns, Villages, and Cities

- Schedule a **jurisdictional consultation call** using the provided link.
- Before your jurisdictional consultation call, gather your team and **review the following projects and attachments**:
 - Step 1: Review and document progress on existing mitigation projects.
 - Use the **2014 Mitigation Action Spreadsheet** to review your jurisdiction's actions from the previous plan and fill in the required fields to document your progress.
 - Document any other mitigation projects you have completed since 2014 in that spreadsheet.
 - Step 2: List all proposed mitigation projects.
 - Use the **Proposed Project Spreadsheet** to fill in your ideas for mitigation projects to complete in the next five years.
 - Step 3: Elaborate on at least two mitigation projects.
 - Use the **Mitigation Action Form** to fill out at least two mitigation actions for projects that you want included in the updated hazard mitigation plan. These projects should aim to reduce long-term risk to natural hazards, including structural and non-structural (e.g., planning) projects.
 - If your jurisdiction is specifically in a flood hazard area, one of your actions must be related to flooding.
 - Step 4: **Submit all documents** at least 72 hours before your jurisdictional consultation call. A link will be provided to you.

Poll Everywhere Results

In the last five years, what mitigation projects have been completed in your community?	
Building code enforcement	4
Structural elevations	4
Education and outreach to homeowners and business owners on personal mitigation measures	3
Floodplain and stream restoration	1
Adopting higher standards for building code	1

What more do you want know about BRIC funding?
Is BRIC funding strictly for structural mitigation projects?
BRIC is supposed to cover pre-development/planning cost were PDM didn't?

What more information do you want about filling out the worksheets?
Who can I reach for assistance when filling out the worksheets?

What additional information should we include in these hazard profiles?
Nassau County had a measurable earthquake 8-23-2011
flooding due to urban sprawl and lack of green space
Village of Great Neck microburst June 2010 cost just village @\$400k
Pandemic

Stakeholder Webinar

June 12, 2020, 11:00 AM - 12:00 PM

1. Stakeholder Webinar Invitation
2. Stakeholder Webinar Agenda
3. Stakeholder Webinar Presentation
4. Stakeholder Webinar Attendees List
5. Stakeholder Webinar Meeting Summary



Register Now!

*You are invited to attend the **Stakeholder Webinar on June 12, 2020 from 11 AM - 12 PM** to learn more about the Nassau County Multi-Jurisdictional Hazard Mitigation Plan.*

[Click here to register for the webinar](#)

On the webinar, we will provide an overview of the hazard mitigation plan update process, review some of the major changes since the last plan, and discuss the hazards and risks that threaten Nassau County. The webinar will also provide opportunities to give feedback on the plan update. Your participation is encouraged!

If you have any questions, please contact Susan Park at (516) 573-9642 or spark@nassaucountyny.gov.



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Stakeholder Webinar for Nassau County Multi-Jurisdictional Plan Update

June 12, 2020 | 11:00 AM – 12:00 PM

This webinar will be broadcast through Zoom. Please register ahead of time to receive information about how to join. Click [here](#) or visit this website to register: <https://tinyurl.com/yb28a9yn>

Time	Item Details
11:00 AM	Introduction and Project Background
11:10 AM	Your Role in Hazard Mitigation
11:20 AM	Overview of a Hazard Mitigation Plan Update
11:30 PM	Mitigating Risk in Nassau County
11:50 AM	Next Steps and Q&A

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at hazardmitigation@nassaucountyny.com



HAGERTY

Hazard Mitigation Stakeholder Webinar

Nassau County, New York

June 12th, 2020



HAGERTY

Introduction and Project Background



Agenda

Time Agenda Item

11:00 a.m.	Introduction and Project Background
11:10 a.m.	Your Role in Hazard Mitigation
11:20 a.m.	Overview of a Hazard Mitigation Plan Update
11:30 a.m.	Mitigating Risk in Nassau County
11:50 a.m.	Next Steps and Q&A





HAGERTY

Sydney McKenna

Project Manager

Hagerty Consulting

sydney.mckenna@hagertyconsulting.com



About Hagerty Consulting



2001

Founded in
Evanston, IL



130+

Full-time
professionals



Successfully guided states,
regions, jurisdictions, and
transit agencies through
compliant and inclusive
hazard mitigation plan
updates.



Since 2001

Supported the nation's
largest disaster recovery
efforts, including 9/11,
Katrina, Sandy, Harvey,
CA Wildfires, as well as
dozens of others.



**Experienced in all
federal grant programs**
Including FEMA PA, CDL,
HMGP, HUD CDBG-DR,
FHWA, etc.



When poll is active, respond at **PollEv.com/hagertyprepa777**

Text **HAGERTYPREPA777** to **22333** once to join

Where in Nassau County are you from?



Who do you represent?

Government

Business

Non-profit

Institute of Education

Community Member

Other

About the Hazard Mitigation Plan Update



Goals and Objectives for the Plan Update

Leverage current standards, regulations, guidance, and hazard information to ensure the Nassau County Multi-Jurisdictional Hazard Mitigation Plan meets and exceeds New York State and Federal Emergency Management Agency (FEMA) requirements.



Nassau County Map
[Source](#)



Long Beach, NY – Damage after Superstorm Sandy
2012
[Source](#)



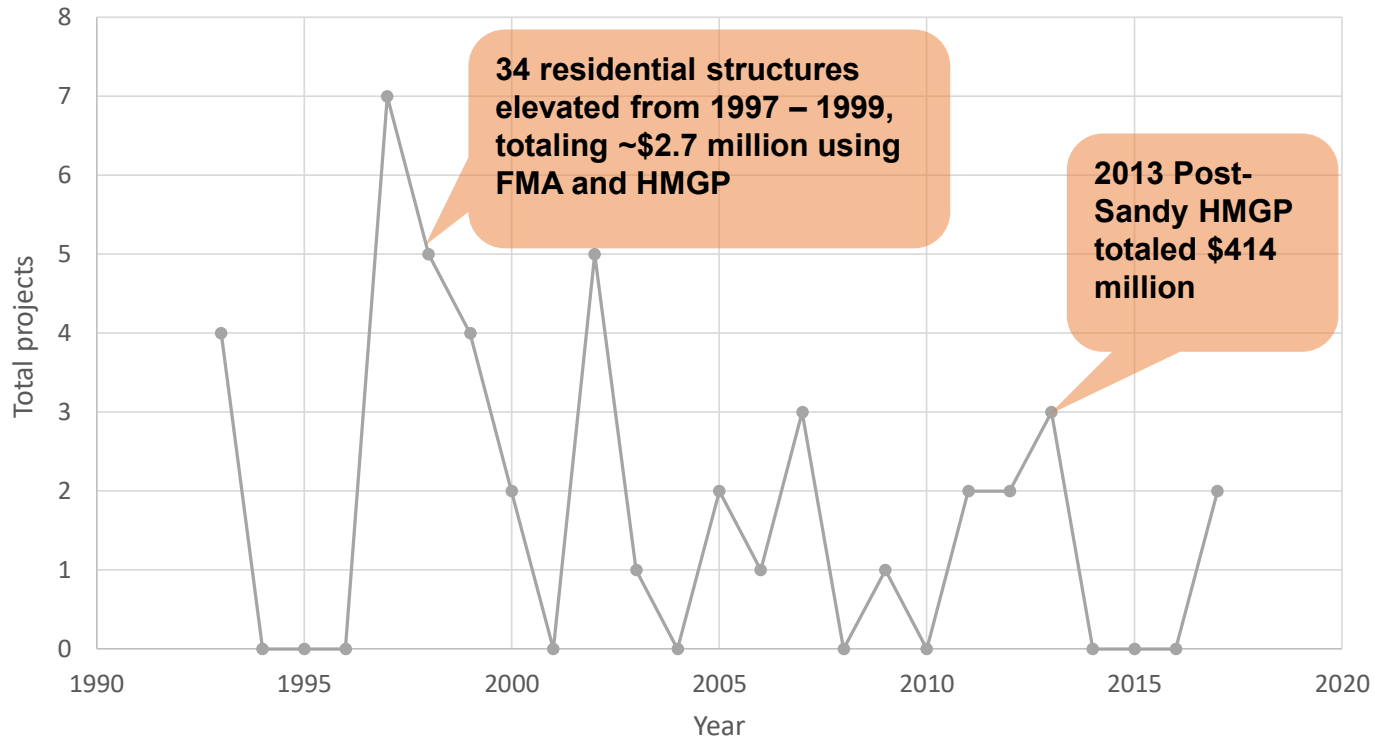
Benefits of Hazard Mitigation Planning

- **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)
 - [Building Resilient Infrastructure and Communities](#) (BRIC)
 - [Flood Mitigation Assistance](#) (FMA)
- **Investment in your community's future** safety and sustainability
- **Educate the public and community officials** about hazard risks and vulnerabilities of people, property, and infrastructure
- **Stronger partnerships** among community stakeholders

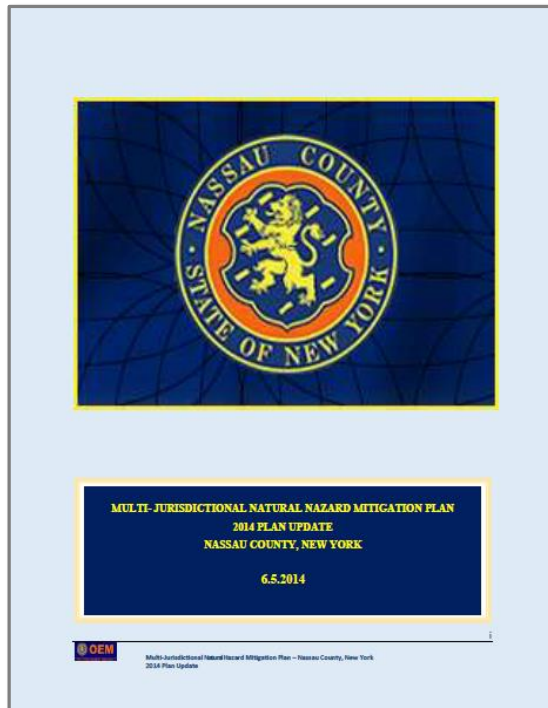


Hazard Mitigation Grants

Hazard Mitigation Assistance Projects in Nassau County



Historical Context



2014 Nassau County Multi-Jurisdictional Hazard Mitigation Plan

[Source](#)

2007: Nassau County makes its first Hazard Mitigation Plan

2014: Nassau County updates the Plan

2020: Nassau County prepares to update the Plan again





What was your involvement with the last Plan update?

Attended meetings

Submitted
mitigation actions

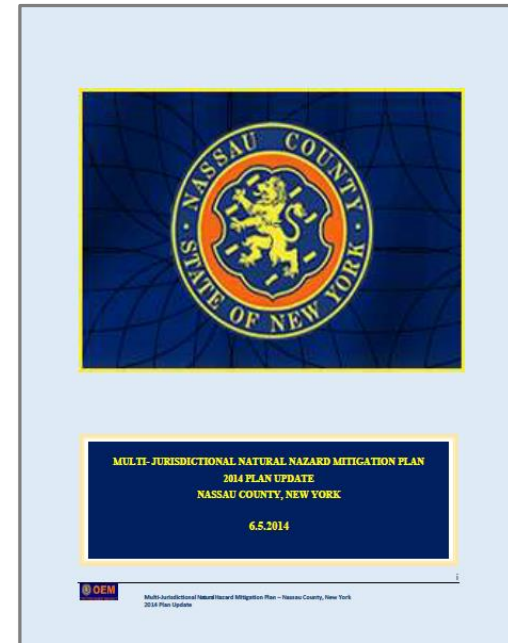
Provided feedback
on a draft

Read the Plan

2021 Plan Outcomes

The **base plan** will be updated to include:

- ✓ A countywide **assessment of risk to natural hazards**
- ✓ Countywide **goals for mitigation** that align with current county and state priorities
- ✓ A **roadmap for maintaining the plan** over the next five years, including evaluation of mitigation projects and continued public participation



2014 Nassau County Multi-Jurisdictional Hazard Mitigation Plan
[Source](#)



2021 Plan Outcomes

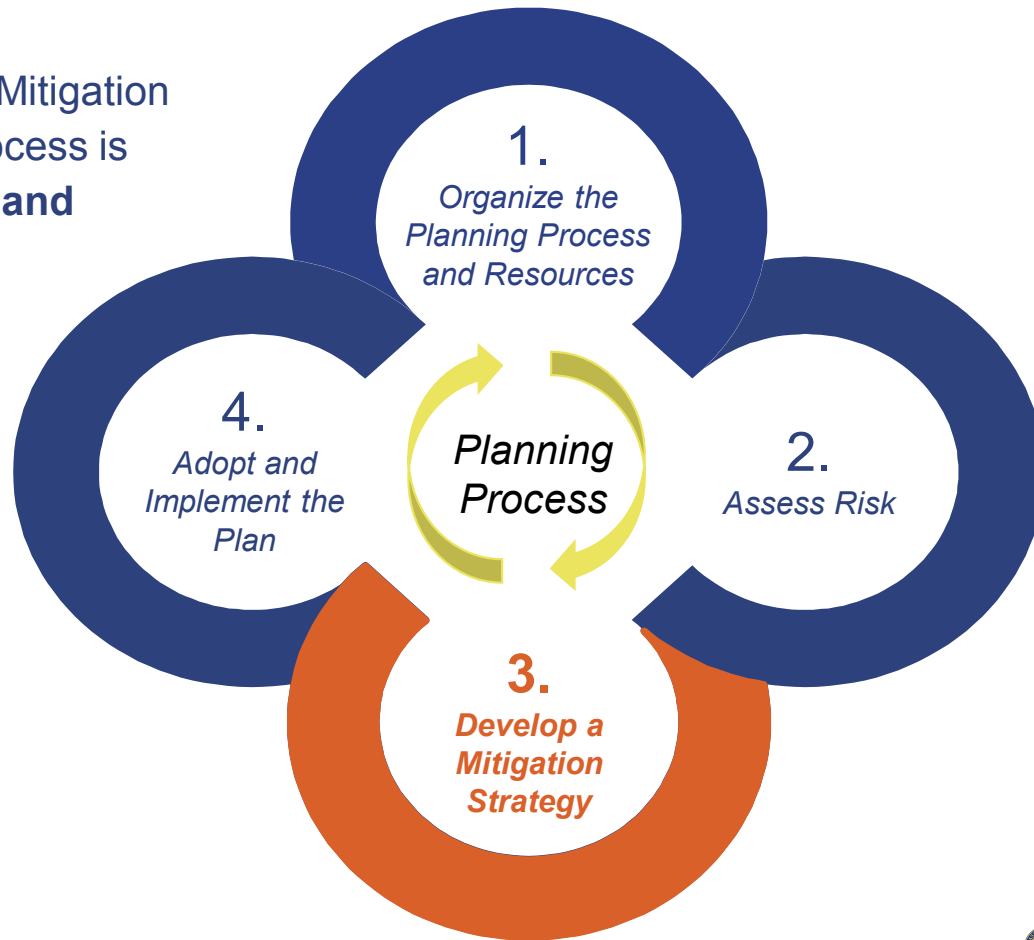
Each jurisdiction will have its own annex to the base plan that includes:

- ✓ Geography, demographics, and development
- ✓ Hazard history and vulnerabilities
- ✓ Critical facilities
- ✓ Capabilities
- ✓ Mitigation projects
- ✓ National Flood Insurance Program summary



Hazard Mitigation Planning Process

The Hazard Mitigation Planning Process is **continuous and iterative.**



State and Local Planning Requirements

The chart below shows the requirements as they appear on the plan review tool used by NYS DHSES and FEMA Region II to determine whether or not a submitted plan meets federal and state requirements.

1. REGULATION CHECKLIST	Location in Plan (section and/or page number)	Met	Not Met
Regulation (44 CFR 201.6 Local Mitigation Plans)			
ELEMENT F. ADDITIONAL STATE REQUIREMENTS – NYS DHSES HAZARD MITIGATION PLANNING STANDARDS.			
These are required actions for plans developed with NYS DHSES-administered funds.			
F1. Does the plan document how stakeholders were invited to participate at each phase of the planning process and provide a summary of feedback?			
F2. Do jurisdictions identify critical facilities, assess vulnerabilities and ensure protection to a 500-year flood event or worst case scenario?			
F3. Do jurisdictions containing an SFHA identify: a. potential sites for the placement of temporary housing units for residents displaced by disaster, and b. potential sites within the jurisdiction suitable for relocating houses out of the floodplain, or building new houses once properties in the floodplain are razed?			
F4. Do jurisdictions identify: a. routes and procedures to evacuate citizens prior to and during an event; and b. shelters for evacuated citizens, to include provisions for a range of medical needs, accommodation for pets, and compliance with the Americans with Disabilities Act (www.ada.gov)?			
F5. Do jurisdictions identify mitigation projects completed since the approval of the previous mitigation plan (or within the last five years)?			
F6. Does the plan include an annex for every jurisdiction within the County's boundaries?			
F7. Within each jurisdictional annex, are: a. projects developed in accordance with the NYS DHSES Proposed Projects Table; and b. two (2) NYS DHSES Action Worksheets provided?			
F8. Does the plan include a list of potential funding sources?			
F9. Does the plan assess how climate change may affect vulnerability to hazards, propose actions to address this, and discuss sea level rise (if applicable)?			
F10. Was the draft plan posted for public comment?			
Note: The applicant is required to address the 2018 NYS DHSES Hazard Mitigation Planning Standards as required actions for a hazard mitigation plan developed with funds administered by NYS DHSES.			
ELEMENT F: REQUIRED REVISIONS			
<i>Please see opportunities for improvement</i>			

New York State Hazard Mitigation Planning Standards

[Source](#)

APPENDIX A: LOCAL MITIGATION PLAN REVIEW TOOL

The *Local Mitigation Plan Review Tool* demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The [Regulation Checklist](#) provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The [Plan Assessment](#) identifies the plan's strengths as well as documents areas for future improvement.
- The [Multi-jurisdiction Summary Sheet](#) is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisdiction:	Title of Plan:	Date of Plan:
Local Point of Contact:	Address:	
Title:		
Agency:		
Phone Number:	E-Mail:	

State Reviewer:	Title:	Date:
-----------------	--------	-------

FEMA Reviewer:	Title:	Date:
Date Received in FEMA Region (insert #)		
Plan Not Approved		
Plan Approvable Pending Adoption		
Plan Approved		

FEMA Local Mitigation Plan Review Guide

[Source](#)

Hazard Mitigation Stakeholder Webinar

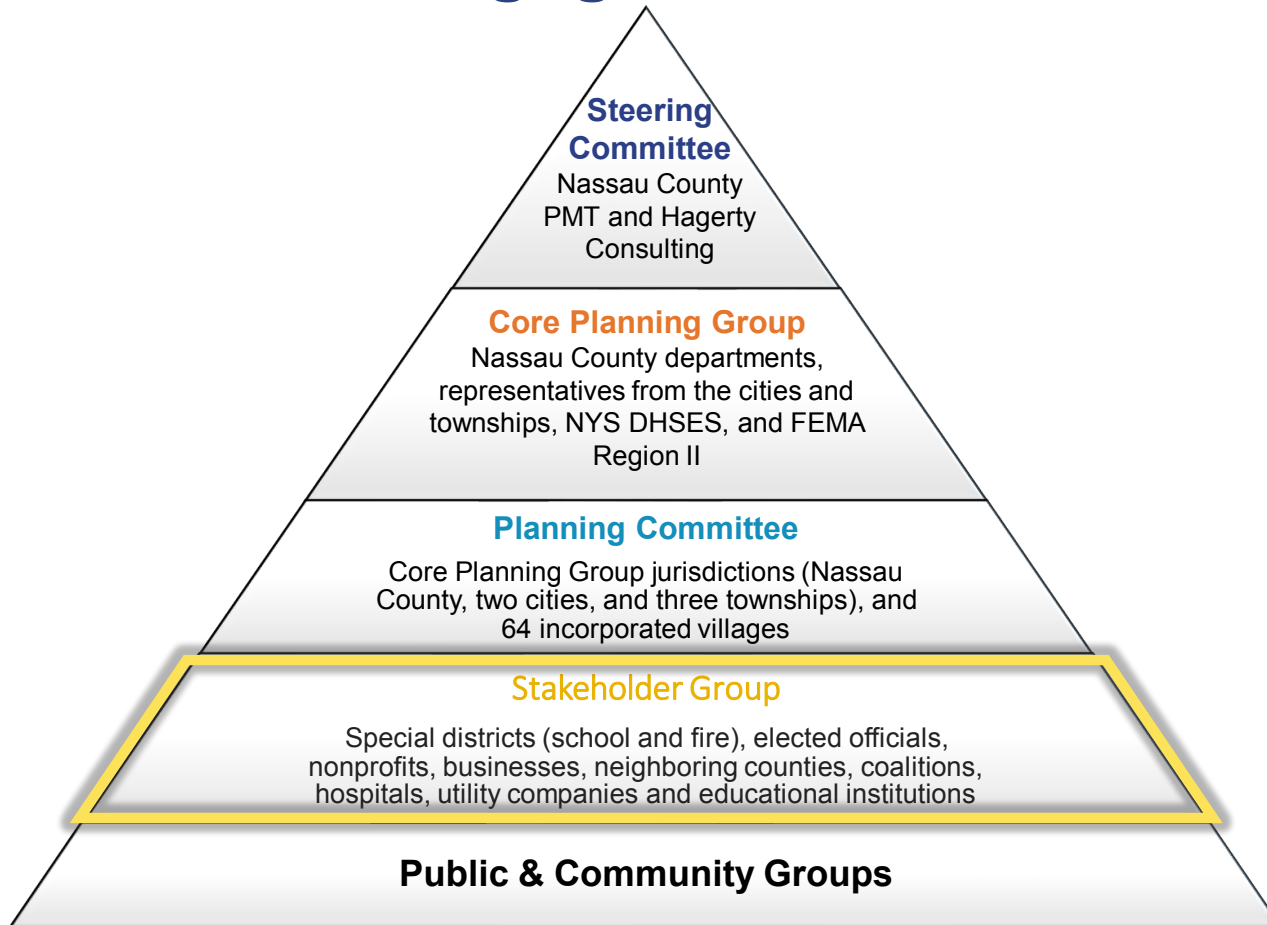


17

Your Role in Hazard Mitigation

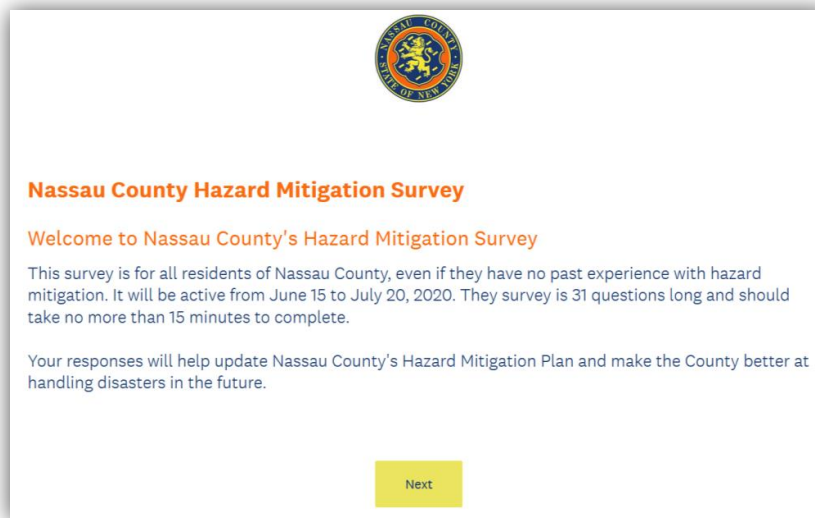


Stakeholder Engagement



Public Survey

- We want community input in the Hazard Mitigation Process
- The survey should go live mid-June
- The more people who take it, the better, so spread the word!



Ways to Participate



Attend webinars



Fill out the public survey



Spread the word on the public survey



Review and provide comments on the draft plan during the public comment period



Talk to your jurisdiction's Planning Committee representative to share ideas





Which method of participation are you most excited about?

Participating in webinars

Filling out the public survey

Spreading the word about the survey

Reviewing and providing comments
on the draft

Contacting your Planning Committee
representative with thoughts

Key Dates and Milestones

**Live June 15 to
July 20, 2020**

Public Survey

Elicit feedback
from the whole
community

October 1, 2020

**Public Meeting/
Webinar**

Review the final
draft plan

October 1 – 30, 2020

**Public Review
Period**

Comment on
the Plan



Mitigating Risk in Nassau County



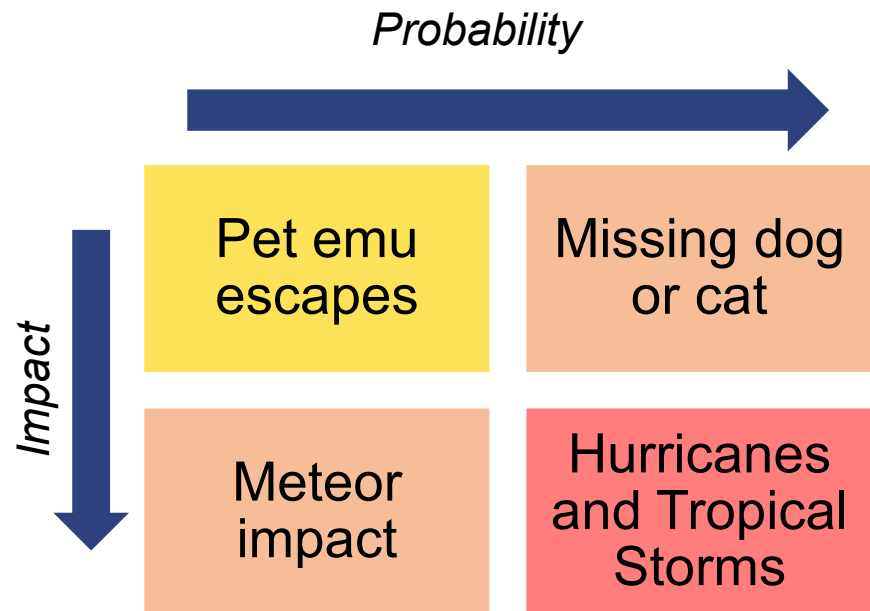
Risk Assessment

A risk assessment looks at the **probability of a hazard** and its **potential impact** to determine the overall risk of the hazard.

A risk assessment tells us


- What hazards to expect
- What buildings and areas are most likely to get damaged
- Where vulnerable populations live

Risk assessments help us prepare for future disasters.





Which of these hazards do you think is most likely in Nassau County?



Hail

Earthquake

Tornado

Tsunami

Wildfire

Probability of Natural Hazards in Nassau County

Highly Likely

- Coastal Hazard
- Flooding
- Severe Winter Weather
- Straight-Line Wind

Likely

- Drought
- Extreme Temperatures
- Hail
- Hurricanes and Tropical Storms
- Lightning

Unlikely

- Ground Failure
- Tornadoes



Flooding

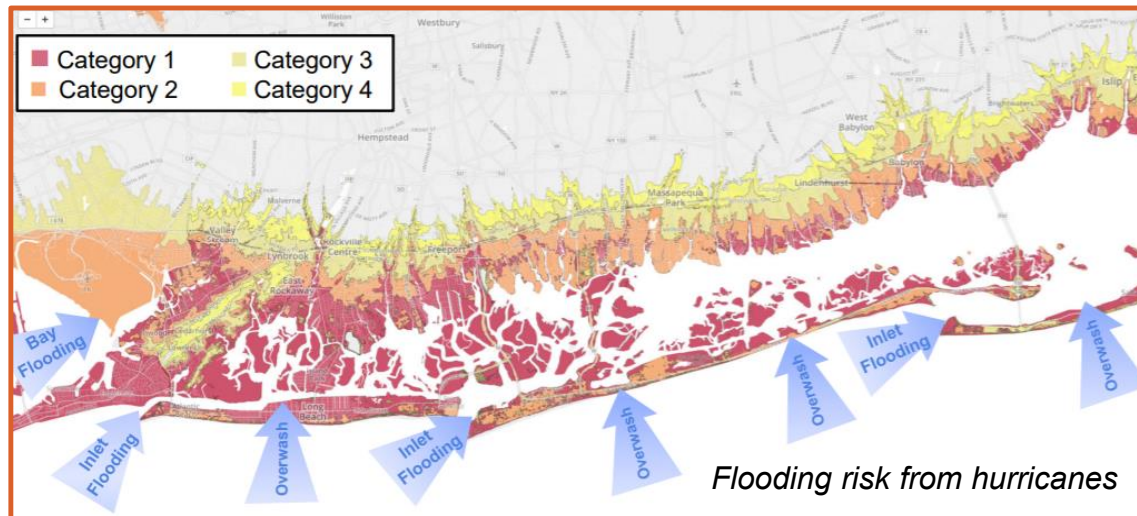
Highly Likely

- Floodplains:

- 100-year floodplains have a 1% chance of flooding each year
- 500-year floodplains have a 0.2% change of flooding each year

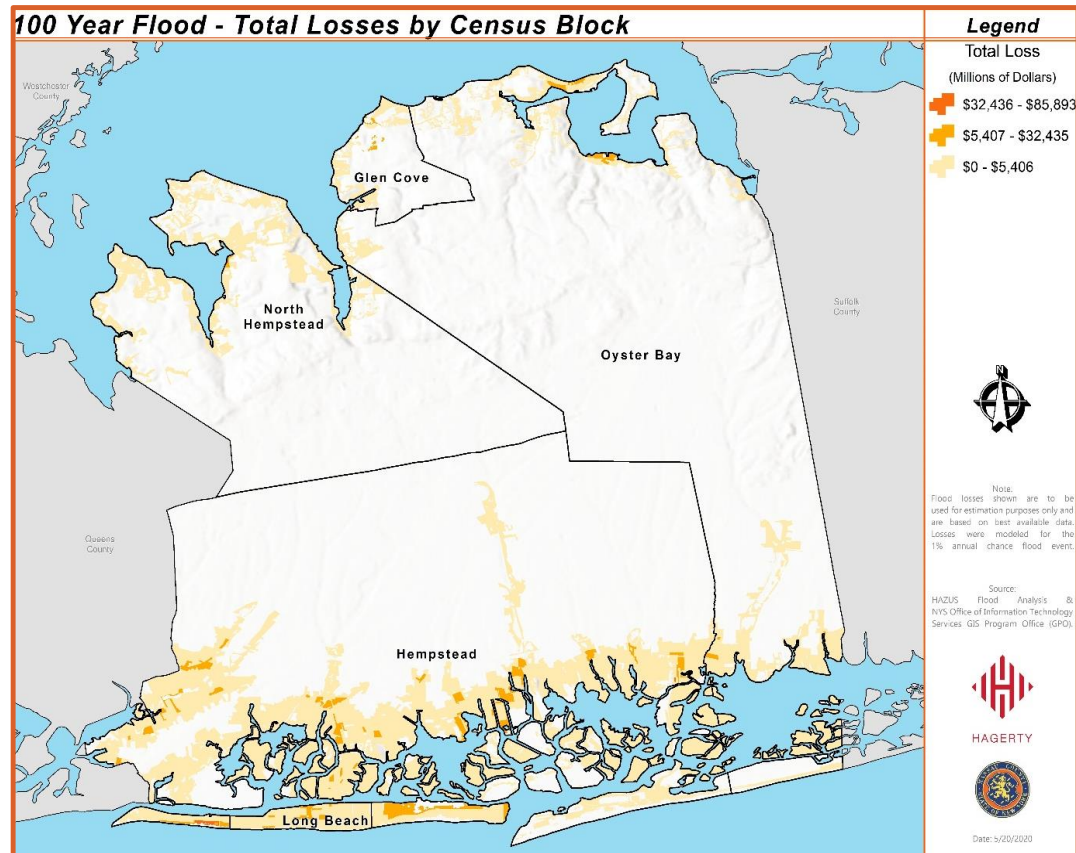
- Recent Occurrences:

- Between 2015 and 2020:
 - 55 total floods
 - 21 flash floods
 - 33 coastal floods

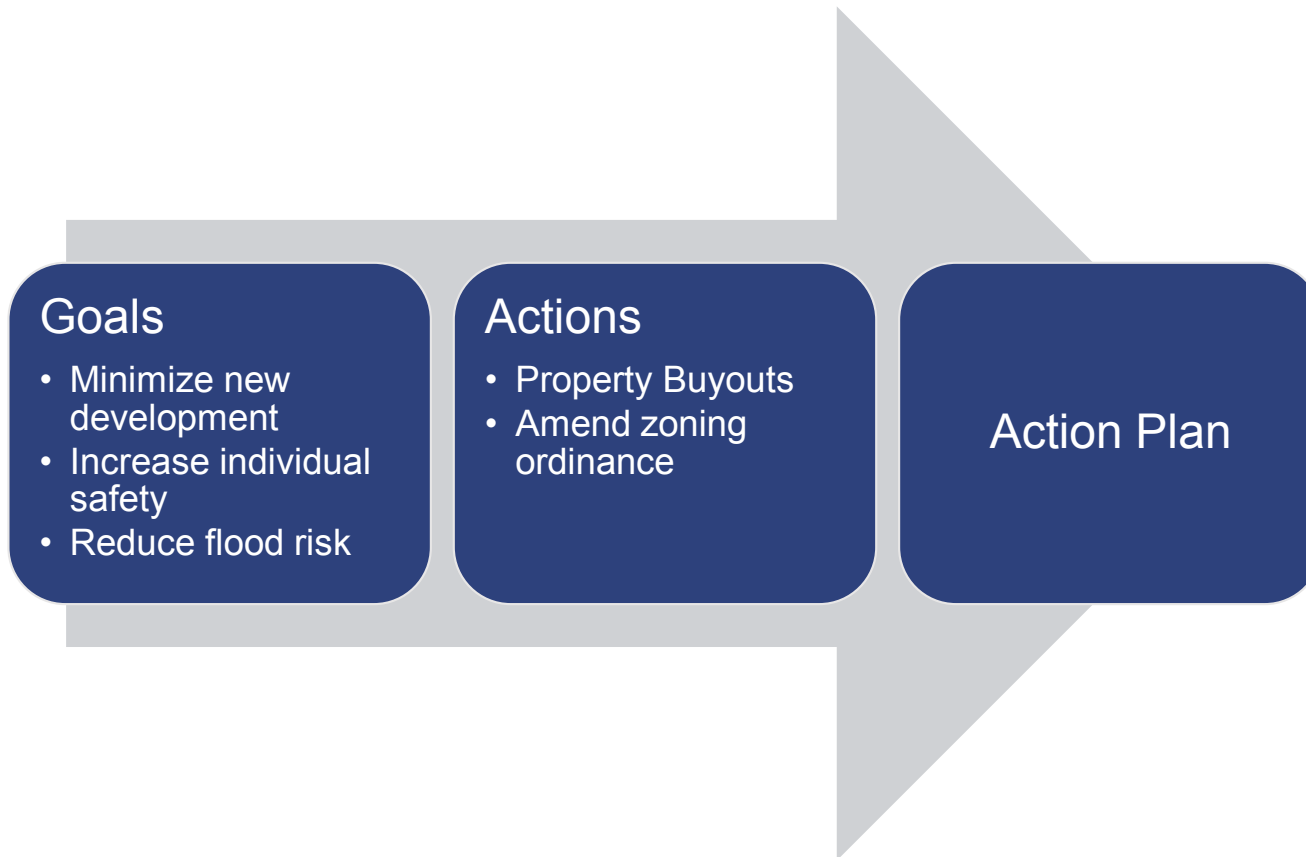


Flooding: Vulnerability Assessment

Losses associated with a 100-year flood total **nearly \$3.2 billion.**



Components of a Mitigation Strategy



Mitigation Actions

A **mitigation action** is a specific action, project, activity, or process taken to **reduce or eliminate long-term risk** to people and property from hazards and their impacts.

- Uses hazard identification and risk assessment to inform the development of actions that address current and future threats
- Informed by the capabilities (competencies, skills, and resources) that the local or state government possesses



Types of Mitigation Actions

Types of mitigation actions that **reduce long-term vulnerability** include:

Natural systems protection



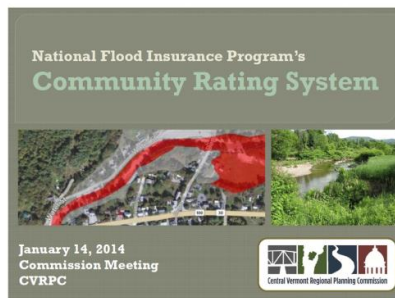
Preparedness and response actions



Structural projects



Local plans and regulations



Education programs




Mental Health First Aid Kit

Just as CPR teaches you to help someone having a heart attack, **mental health first aid teaches you to help someone having a mental health crisis.**


Nassau County's Mental Health First Aid class:

- Is offered to everyone **free of charge**
- Teaches **common signs of mental illness** and substance abuse
- Empowers you to give **reassurance and information** to people in crisis





What actions have you taken to protect yourself and others from hazards?



Created an emergency plan

Stocked a go-bag or shelter-in-place bag

Floodproofed your home

Installed flood vents

Elevated your house

Added storm drains or gutters to your house

Next Steps and Q&A



Whole Community



Public Survey

Survey goes live on June 15th
Take the survey and share it
through your contacts!



Reach Out

Reach out to
hazardmitigation@nassaucountyny.gov
with your ideas and concerns – we want to
hear them!



Questions?





HAGERTY

Susan Park

Director of Recovery

Nassau County Office of Emergency Services

hazardmitigation@nassaucountyny.com

Sydney McKenna

Project Manager

Hagerty Consulting

Sydney.McKenna@hagertyconsulting.com



Hazard Mitigation Stakeholder Meeting

June 12, 2020 | 11 a.m. to 12 p.m. EDT

Virtual Meeting

Introduction

The meeting began with a welcome to the meeting attendees and a brief introduction by Sydney McKenna. She introduced Hagerty Consulting and provided an overview of the agenda for the meeting.

About Hazard Mitigation Plan Update

S. McKenna provided an overview of the hazard mitigation plan update. This project ensures that communities have access to FEMA post-disaster funding programs. The updated plan is an **investment in the community's future**, an opportunity to **educate the public and community officials** about hazard risks and vulnerabilities, and an opportunity to **build stronger partnerships** among community stakeholders. S. McKenna reviewed previous iterations of the Nassau County's Hazard Mitigation Plan and explained these components of the updated plan:

- Countywide assessment of risk to natural hazards;
- Countywide goals for mitigation that align with county and state requirements;
- A roadmap for maintaining the plan over the next five years; and
- Annexes for each jurisdiction (plans specific to the community).

She also reviewed the components of the hazard mitigation planning process and state and local planning requirements.

Your Role in Hazard Mitigation

The stakeholder engagement levels in the Plan include the Steering Committee, Core Planning Group, Planning Committee, Stakeholder Group, and Public and Community Groups. The meeting attendees represent the stakeholder group as members of the community (special districts, private nonprofits, businesses, and neighboring counties). A public survey, which goes live on June 15, will be an important contribution to stakeholder engagement.

S. McKenna presented five ways that the stakeholder group can participate:

- Attend webinars;
- Fill out public survey;
- Spread the word on the public survey;
- Review and provide comments on the draft plan during the public comment period; and
- Talk to their jurisdiction's planning committee representative to share ideas.

The key dates and milestones for this project are:

- June 15 - July 20: Public survey is live;
- October 1: Public meeting/webinar to review the final draft of the Plan; and
- October 1 - 30: Public review period to comment on the Plan.

Mitigating Risk in Nassau County

Hazard Probability and Impact

S. McKenna reviewed the process to assess risk in Nassau County. A risk assessment looks at the probability of a hazard and its potential impact to determine the overall risk. It identifies what hazards to expect, what buildings and areas are most likely to get damaged, and where vulnerable populations live. To assess the risk of hazards in Nassau County, the project team has reviewed hazards in previous plans and discussed changing community hazards and concerns.

In this project, hazard probability is categorized as **highly likely** (occurs more than once a year), **likely** (occurs once every five years), or **unlikely** (occurs less than once every five years). The results of the hazard probability analysis are as follows.

- Highly likely hazards
 - Coastal hazards (riptides, erosion, wave action, storm surge)
 - Flooding
 - Severe winter weather
 - Straight-line wind
- Likely hazards
 - Drought
 - Extreme temperatures
 - Hail
 - Hurricanes and tropical storms
 - Lightning
- Unlikely hazards
 - Ground failure (earthquakes, landslides, sinkholes)
 - Tornadoes

S. McKenna thoroughly explained the process to qualify the impacts of flooding hazards. These impact assessments were created using Hazards New York (HAZNY) and Hazus. Detailed results will be made available in the Plan.

Mitigation Strategy

The components of the mitigation strategy are goals, actions, and action plans. Mitigation actions are specific activities taken to reduce or eliminate long-term risk based on local level capabilities. Examples of projects that can be implemented in communities are:

- Local plans and regulations;
- Structural projects;
- Natural systems protections;

- Education programs; and
- Preparedness and response actions.

Hagerty highlighted the Mental Health First Aid Kit program in Nassau County, which teaches participants how to help someone having a mental health crisis and is available at no cost to community members.

Next Steps and Q&A

- Take and distribute the **public survey** online and through social media using the template language attached.
- Reach out to hazardmitigation@nassaucountyny.gov with your ideas and concerns.

Meeting Attendees

Name	Organization
Dave Rich	Nassau County
DObrien1	Nassau County
Glenn Schaefering	Northwell Health
Gregory May	Nassau County
Jeremy May	Nassau County
Judy Wieber	SCO Family of Services
Kenneth Heino	Nassau County
Linda Wenze	National Society of Health Coaches
Liz Treston	Unknown
Michael Hahn	Jericho School District
Michael McGuinness	Adelphi University
Nancy Fischer	Nassau County
Scott Strauss	Mineola, NY
Susan Park	Nassau County
Therese Brzezinski	Long Island Center for Independent Living
Tony Tripp	Unknown
Sydney McKenna	Hagerty Consulting
Michelle Bohrson	Hagerty Consulting
Julia Davatzes	Hagerty Consulting
Katie Weber	Hagerty Consulting

*Three other lines were present on the call, but no names were attached.

Poll Everywhere Results

Who do you represent?	
Government	5
Other	1

What was your involvement with the last Plan update?	
Attended meetings	2
Submitted mitigation actions	1

Which method of participation are you most excited about?	
Reading the new plan when it comes out	2
Following Nassau County Emergency Management on social media	1
Reviewing and providing comments on the draft	1
Spreading the word about the survey	1
Filling out the public survey	1

Which of these hazards do you think is most likely in Nassau County?	
Hail	6

What actions have you taken to protect yourself and others from hazards?	
Stocked a go-bag or shelter-in-place bag	4
Elevated your house	1

Public Survey Summary

Survey live from June 12 to July 20, 2020.

Public Survey Results

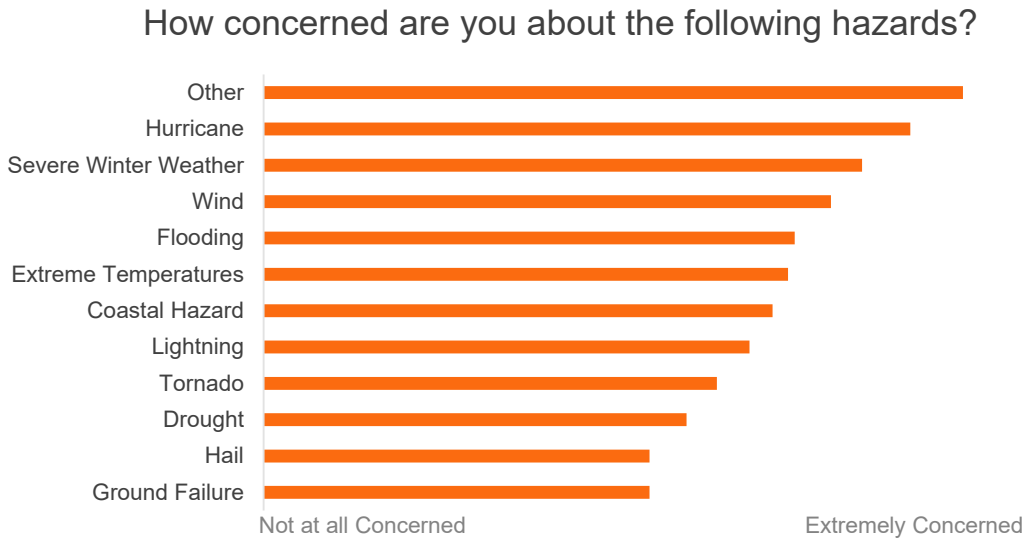
SURVEY SAMPLE

The Nassau County Hazard Mitigation Outreach Survey was live from **June 12, 2020 to July 20, 2020** on Survey Monkey. It received **277 responses**. The demographic breakdown of the survey sample was predominantly composed of more white respondents than is representative of Nassau County. Ten percent of the County is Asian American and 13% is African American, whereas only 0.4% and 2.8% of the respondents were Asian American and African American, respectively. Also, half of the survey sample was composed of respondents over 65, although only 18% of Nassau County's population is over 65. **A majority (52%) of responses came from four jurisdictions:** Village of Flower Hill (66), Town of Hempstead (32), Valley Stream (30), and Village of Great Neck Plaza (20).

KEY TAKEAWAYS

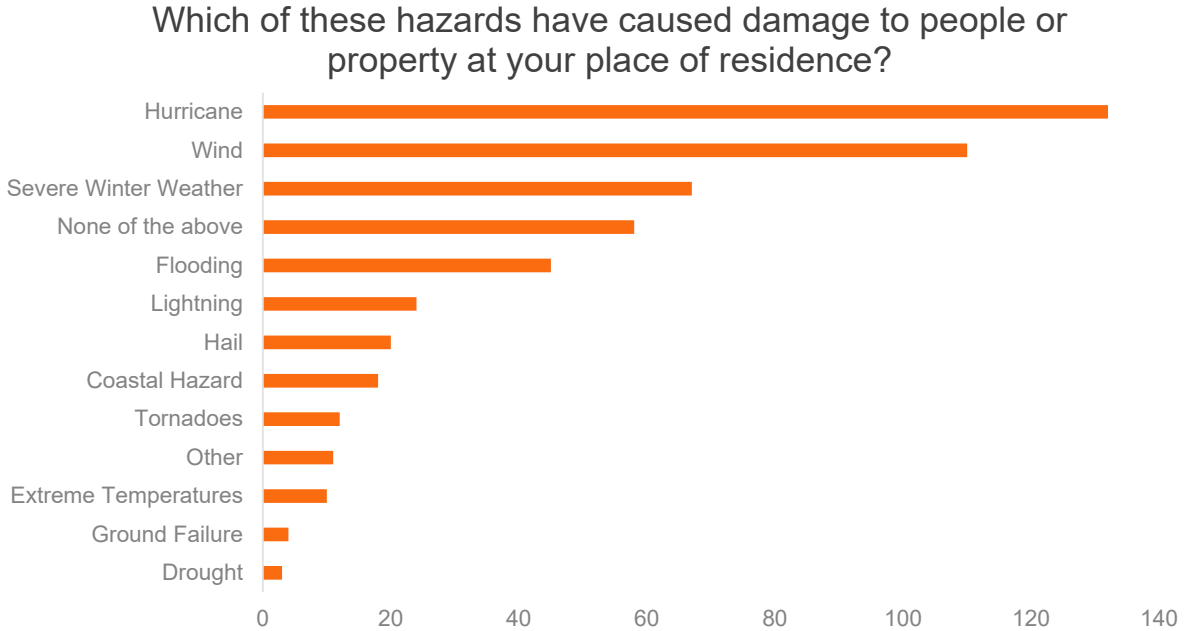
- Respondents **ranked hurricanes and other types of hazards as most concerning and hail and ground failure as the least concerning** (Figure 1). “Other” types of hazards may have ranked so high in part because this survey was administered as the nation was experiencing the coronavirus pandemic and widespread Black Lives Matters protests in the wake of the deaths of George Floyd, Breonna Taylor and Ahmaud Arbery. Specific response options were not provided for either.
- When asked about hazards that concerned them but were not listed, most respondents listed:
 - Pandemics;
 - Fires;
 - Man-made disasters (terrorism, looting and unrest);
 - Trees falling;
 - Difficulty getting people to shelters or evacuating the island if necessary (congestion);
 - Power outages; or
 - Supply chain disruptions that lead to food, electricity, or other shortages.

Figure 1



- The **most experienced hazards were hurricanes, severe winter weather, and wind**. Very few respondents indicated they had experienced drought, hail, or ground failure (Figure 2).¹

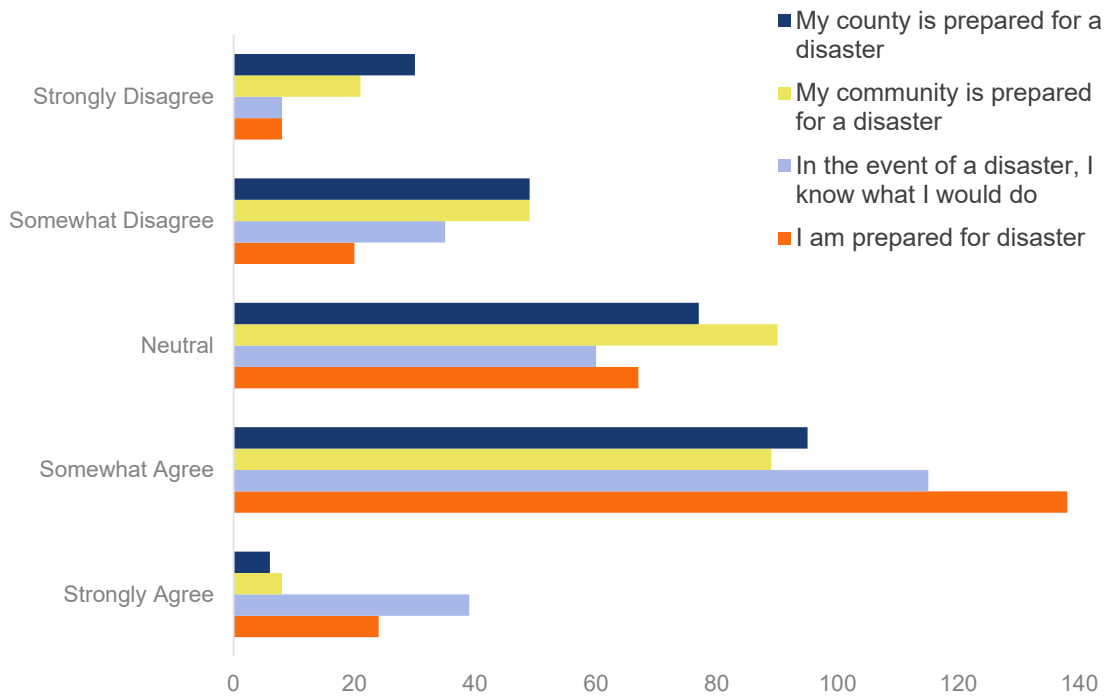
Figure 2



¹ Respondents could select multiple hazards in this section.

- In general, respondents thought they were more prepared for disasters than their county and community (Figure 3).

Figure 3



- **The majority of respondents had modified their property to make it safer (Figure 4). Besides the listed options (Figure 5), the most common modifications were buying generators or installing French drains.**

Figure 4

Have you made improvements to protect your property from natural hazards?

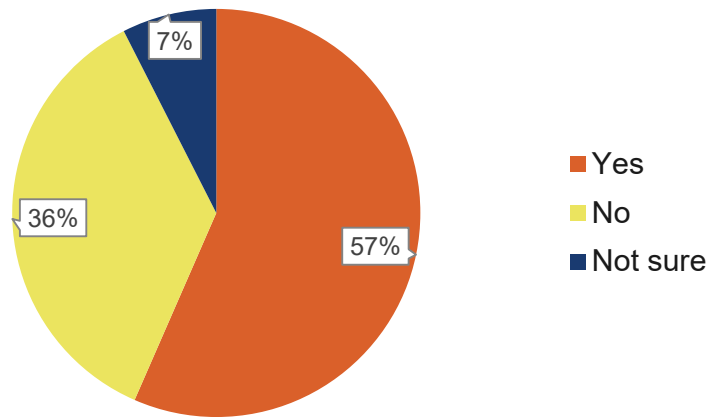
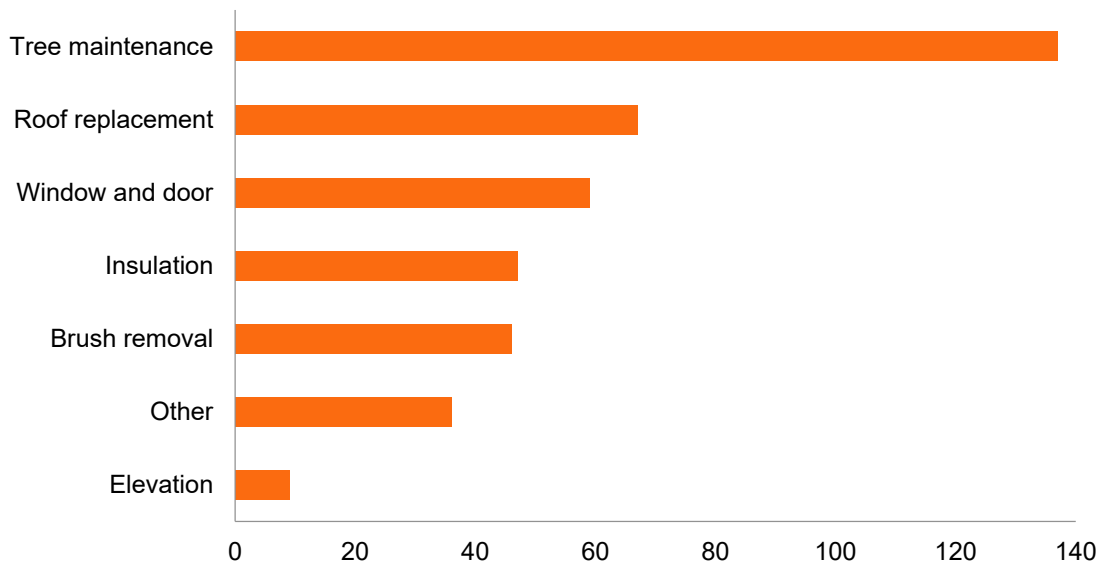


Figure 5

What improvements have you made?



- **Fewer than 20% of respondents knew they had flood insurance** (Figure 6). The most common reason not to have flood insurance was **living on high ground** (Figure 7). The most common explanation for respondents who selected other was not living in a flood zone.

Figure 6

Do you have flood insurance?

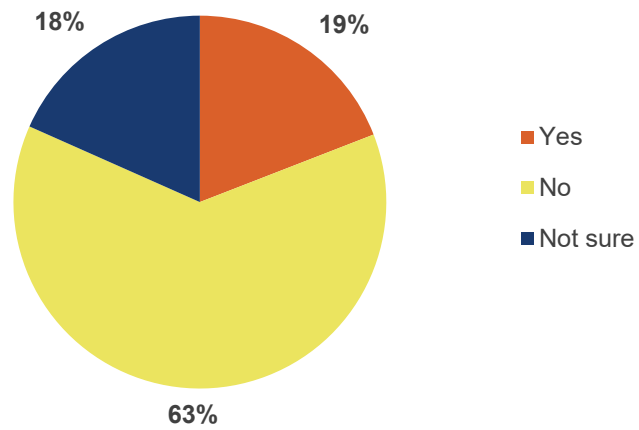
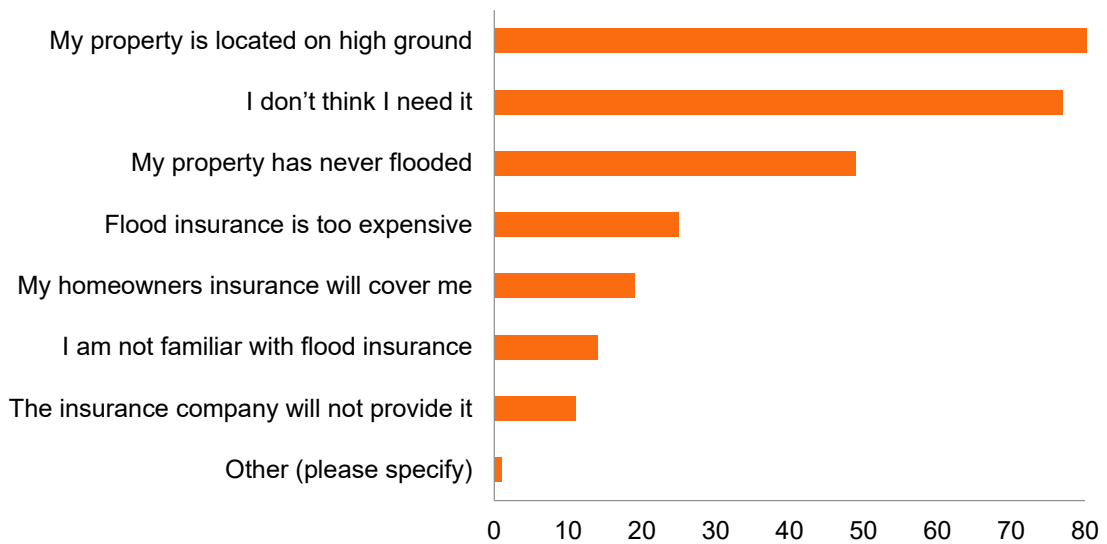


Figure 7

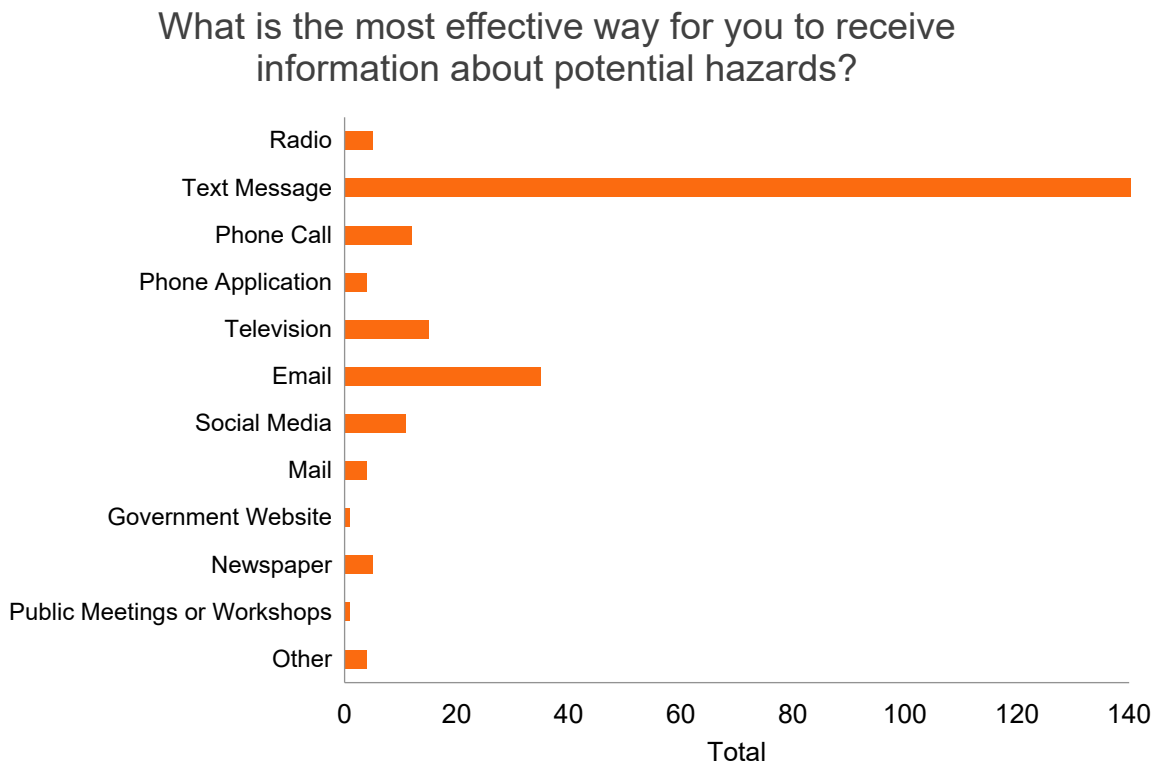
Why don't you have flood insurance?



- When asked if they had anything to add about suggestions for ways Nassau County could prepare for future disasters, respondents identified a wide variety of actions, including:
 - Publicizing plans so the community knows what to expect during a disaster;
 - Communicate with the public more during, before, and after disasters;
 - Respondents suggested many options, including an app, text alerts, email updates, a website, and distributing paper copies of evacuation routes
 - Building resilience into electrical infrastructure through mitigation projects and investment in modern upgrades to the grid, including:
 - Burying powerlines underground;
 - Purchasing generators for key facilities; and
 - Increasing incentives for solar and wind power.
 - Continue offering Community Emergency Response Training (CERT) and other preparedness centered classes.
- Many respondents **referenced Hurricane Sandy as the basis for their suggestions**. A common suggestion related to this event was for Nassau County to improve coordination with Federal Emergency Management Agency (FEMA) officials and local utilities post-disaster.

- By far, the **most effective way to reach respondents is through text**, followed by email (Figure 8).² Many respondents expressed the need for better county-wide communication about disasters and texting is likely the most effective way to meet that need.

Figure 8



- **96** respondents **provided their email addresses** to receive updates about the hazard mitigation process. A few also respondents also requested updates on the results of the survey.

² Respondents could select multiple options on this question.

Jurisdictional Consultation Calls

Calls held from June 25 to July 16, 2020.

1. Jurisdictional Consultation Calls Invitation
2. Jurisdictional Consultation Calls Agenda
3. Jurisdictional Consultation Calls Schedule



Dear Planning Committee,

Thank you for attending the Risk Review and Mitigation Strategy webinar on June 11th. The meeting summary, presentation, and recording for the webinar are available in the attachments below. Opportunities like this are a great way for us to stay engaged on the Nassau County Hazard Mitigation Plan Update project, especially in a virtual setting.

Please distribute the [public survey](#) online and through social media using this [template language](#). The survey goes live on **June 15th** and will be open until July 20th!

[Click here to take the Public Survey](#)

Cities, Towns, and Villages, over the next few weeks, please move forward with the following tasks:

Schedule a [Jurisdictional Consultation Call](#).

As a valued partner of the Nassau County Hazard Mitigation Plan update, this meeting is when you will speak with our consultants to derive mitigation actions based on the data you have provided in your jurisdictional annex. This is an opportunity to place your jurisdiction in the best possible position to receive federal hazard mitigation funding for future mitigation projects and policies.

[Click here to schedule your Jurisdictional Consultation Call](#)

Before your Jurisdictional Consultation Call, gather your team to review and work on Steps 1 - 4. Refer to this [Instruction Guide](#) for more information along the way.

Step 1: Review and document progress on existing mitigation projects.

- Use the attached **2014 Mitigation Action Spreadsheet** to review your jurisdiction's actions from the previous plan and fill in the required fields to document your progress.
- Document any other mitigation projects you have completed since 2014 in the same spreadsheet.

Step 2: List all proposed mitigation projects.

- Use the **Proposed Project Spreadsheet** to fill in your ideas for mitigation projects to complete in the next five years.

Step 3: Fill out two Mitigation Action Forms.

- Use the attached **Mitigation Action Form** to fill out at least two mitigation actions for projects that you want included in the updated hazard mitigation plan. These projects should aim to reduce long-term risk to natural hazards, including structural and non-structural (e.g., planning) projects.
- If your jurisdiction is specifically in a flood hazard area, one of your actions must be related to flooding.

Step 4: Submit your documents.

- Submit all documents from Steps 1-3 **at least 72 hours before** your Jurisdictional Consultation Call using the [submission link](#).
- You will also be asked to submit the names of two volunteers who may assist in shelter activities in the event that Nassau County activates a shelter in your area.

Attachments to this email include:

Webinar

[Meeting Notes](#)

[Presentation](#)

[Webinar Recording](#)

Nassau County Hazard Mitigation Plan Update

Jurisdictional Annex Interview Checklist

V/T/C of [Name of Jurisdiction], [Name of Representative]

Meeting Agenda

Topic	Time	Notes
Welcome and Introductions	~3 minutes	
Review of Outstanding Questions related to the <i>Profile Survey, Hazard Review, Capability Assessment, or NFIP forms</i> » <i>If this discussion lasts the full 15 minutes, it will likely be necessary to either extent the call beyond 30 minutes total or to schedule a follow-up call.</i>	5-15 minutes	
Review of State Mitigation Action Sheet 1	5-15 minutes	
Review of State Mitigation Action Sheet 2	5-15 minutes	
Time spent preparing for today's call?		
Additional Questions / Next Steps	~3 minutes	

Jurisdiction	Call Date	Time (ET)	Contact	Contact Email
Atlantic Beach, Village of	Submitted documentation electronically		Steven Cherson	plaza65buildings@aol.com ; steveniche@aol.com
Baxter Estates, Village of	7/15/20	2:00 PM	Chrissy Kiernan	clerk@baxterestates.org
Bayville, Village of	7/15/20	10:30 AM	Maria Alfano-Hardy	malfanohardy@bayvilleny.gov
Bellerose, Village of	No call			
Brookville, Village of	7/10/20	10:30 AM	Robert Spina	robert.spina@ubs.com
Cedarhurst, Village of	6/25/20	10:30 AM	Frank Parise	fp3100@verizon.net
Centre Island, Village of	Submitted documentation electronically		Larry Schmidlapp	larry.schmidlapp@gmail.com
Cove Neck, Village of	7/7/20	10:30 AM	John N Hubbard	hubbardaux@gmail.com
East Hills, Village of	No call			
East Rockaway, Village of	7/8/20	1:00 PM	Juan Garcia	jgarcia@villageofeastrockaway.org
East Williston, Village of	6/26/20	10:00 AM	Marie Hausner	ewillistonclerk@yahoo.com
Farmingdale, Village of	No call		Brian Harty	bharty@farmingdalevillage.com
Floral Park, Village of	7/14/20	10:00 AM	Renee Marcus	rmarcus@fpvillage.org
Flower Hill, Village of	6/29/20	11:00 AM	Ronnie Shatzkamer	yclerk@villageflowerhill.org
Freeport, Village of	Not applicable			
Garden City, Village of	7/9/20	1:30 PM	Domenick A. Stanco	dstanco@gardencityny.net
Glen Cove, City of	7/10/20	2:00 PM	Chris Ortiz	cortiz@glencopepd.org
Great Neck Estates, Village of	7/10/20	3:00 PM	Barbara Dzierney	admin@vgne.com
Great Neck Plaza, Village of	6/30/20	1:00 PM	Jean Celender	majorjean@greatneckplaza.net
Great Neck, Village of	No call		Jim Neubert	jneubert@optonline.net
Hempstead, Town of	7/7/20	9:30 AM	Edward W. Powers	epowers@tohmail.org
Hempstead, Village of	Submitted documentation electronically		George Sandas	gsands@villageofhempsteadny.gov
Hewlett Bay Park, Village of	No call			
Hewlett Harbor, Village of	No call		Michael Ryder	villageclerk@hewlettharbor.org
Hewlett Neck, Village of	No call			
Island Park, Village of	Submitted documentation electronically		Michael McGinty	mmcginty@villageofislandpark.com
Kensington, Village of	No call			
Kings Point, Village of	No call		Gomie Persaud	gopersaud@villageofkingspoint.org
Lake Success, Village of	7/14/20	11:00 AM	Patrick Farrell	plsadmin@optonline.net
Lattingtown, Village of	7/6/20	1:00 PM	Dawn Gresalfi	cgresalfi@aol.com
Laurel Hollow, Village of	7/14/20	2:00 PM	Elizabeth Kaye	clerktreasurer@laurelhollow.org
Lawrence, Village of	7/15/20	1:00 PM	Gerry Castro	gcastro@villageoflawrence.org
Long Beach, City of	7/8/20	10:00 AM	Scott Kemins	skemins@longbeachny.gov
Lynbrook, Village of	7/9/20	3:00 PM	Rob Cribbin	rcribbin@lynbrookvillage.com
Malverne, Village of	7/13/20	3:00 PM	Anthony L. Marino	lihueguy@optonline.net
Manorhaven, Village of	6/25/20	9:00 AM	Sharon Abramski	villageclerksharon@manorhaven.org
Massapequa Park, Village of	6/29/20	12:00 PM	Robert Macri	superintendent@masspk.com
Matinecock, Village of	7/9/20	11:00 AM	Ken Goodman, M.D.	kgoodma2@optonline.net
Mill Neck, Village of	7/8/20	11:30 AM	Josh Kugler	joshkugler14@gmail.com
Mineola, Village of	6/26/20	9:00 AM	Lenny Palumbo	lpalumbo@mineola-ny.gov
Munsey Park, Village of	7/10/20	1:00 PM	Tara Gibbons	tgibbons@munseypark.org
Muttontown, Village of	7/16/20	2:00 PM	Joe Russo	jrusso@muttontownny.gov
Nassau, County of	7/23 and 8/5		David Viana	Dviana@nassaucounty.gov
New Hyde Park, Village of	No call			
North Hempstead, Town of	7/14/20	1:00 PM	Shawn Brown	browns@northhempsteadny.gov
North Hills, Village of	7/6/20	10:00 AM	Marianne Lobaccaro	villageadministrator@villagenorthhills.com
Old Brookville, Village of	No call		Bernie Ryba	village@oldbrookville.net
Old Westbury, Village of	No call		Brian Ridgway	bridgway@vowny.org
Oyster Bay Cove, Village of	7/10/20	9:00 AM	Edward von Briesen	junkervb@rcn.com
Oyster Bay, Town of	7/9/20	10:00 AM	Robert Mangano	rmangano@oysterbay-ny.gov
Plandome Heights, Village of	7/2/20	11:30 AM	Kenneth C. Riscica	mayor@plandomeheights-ny.gov
Plandome Manor, Village of	7/13/20	1:00 PM	Barbara Donno	inspector@plandomemanor.com
Plandome, Village of	No call		Donald Richardson	richdk@aol.com
Port Washington North, Village of	No call			
Rockville Center, Village of	7/16/20	11:30 AM	Kevin Reilly	kreilly@rcvny.us
Roslyn Estates, Village of	No call			

Roslyn Harbor, Village of	7/15/20	3:00 PM	Dina Kussoff	jacy@optonline.net
Roslyn, Village of	No call		Sam Daliposki	sdaliposki@roslynny.gov
Russell Gardens, Village of	7/17/20	11:00 AM	Michael Jurcsak	mikedpw@russellgardens.com
Saddle Rock, Village of	No call			
Sands Point, Village of	7/13/20	11:00 AM	Liz Gaynor	liz@sandspoint.org
Sea Cliff, Village of	7/2/20	9:30 AM	Bruce Kennedy	bkennedy@seacliff-ny.gov
South Floral Park, Village of	7/13/20	2:00 PM	Mary Long	villageclerk383@optimum.net
Stewart Manor, Village of	7/16/20	1:00 PM	Barbara Barciere	barciere@stewartmanor.org
Thomaston, Village of	No call			
Upper Brookville, Village of	7/14/20	3:00 PM	Tracy Lynch	villageclerk@upperbrookville.org
Valley Stream, Village of	7/15/20	9:30 AM	Frank Roca	vsemo@vsvny.org
Westbury, Village of	7/13/20	9:00 AM	Iannucci Pasquale	piannucci@villageofwestbury.org
Williston Park, Village of	7/8/20	9:00 AM	Keith Bunnell	jkain@villageofwillistonpark.org
Woodsburgh, Village of	6/30/20	11:00 AM	Francois Tenenbaum	designbyfrancois@yahoo.com

Planning Committee Mitigation Strategy Review Webinar

August 20, 2020, 10:00 - 11:30 AM

1. Planning Committee Mitigation Strategy Review Webinar Invitation
2. Planning Committee Mitigation Strategy Review Webinar Agenda
3. Planning Committee Mitigation Strategy Review Webinar PowerPoint Presentation
4. Planning Committee Mitigation Strategy Review Webinar Participant List



Register Now!

*The Planning Committee, inclusive of the Core Planning Group, will convene on **August 20, 2020 from 10:00 AM to 11:30 AM for the Mitigation Strategy Review Webinar** to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan.*

[Click here to register for the webinar](#)

It is essential that you attend this workshop as a representative of a jurisdiction or part of Nassau County participating in the plan update. This webinar will:

1. Review the draft Mitigation Action Plan
2. Collect feedback from the Planning Committee about the Hazard Mitigation Update process thus far
3. Begin discussing the process for local plan adoption
4. Review next steps in the planning process

If you have any questions, please contact Susan Park at (516) 573-9642 or spark@nassaucountyny.gov.



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Strategy Review Webinar Agenda

August 20, 2020 | 10:00 AM – 11:30 AM

This webinar will be broadcast through Zoom. Please register ahead of time to receive information: https://us02web.zoom.us/meeting/register/tZcsce6srj8oHdYsre7aqULOcISvPhiw_T7J

Time	Item Details
10:00 AM	Introduction and Project Review to Date
10:10 AM	Draft Mitigation Action Plan Review
10:40 AM	Plan Adoption Process
11:00 AM	Roadmap to Implementation
11:15 AM	Next Steps and Q&A

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at hazardmitigation@nassaucountyny.com



HAGERTY



Nassau County Multi-Jurisdictional Hazard Mitigation Plan Update

Mitigation Strategy Review Webinar Agenda

August 20, 2020 | 10:00 AM – 11:30 AM

This webinar will be broadcast through Zoom. Please register ahead of time to receive information: https://us02web.zoom.us/meeting/register/tZcsce6srj8oHdYsre7aqULOcISvPhiw_T7J

Time	Item Details
10:00 AM	<p>Introduction and Project Review to Date</p> <p><i>Introduce meeting, facilitators, and attendees. Introduce polling software (if using). Review project progress to date. Mention COVID-19 and recent tropical storm as a call to action for mitigation.</i></p>
10:10 AM	<p>Draft Mitigation Action Plan Review</p> <p><i>Review Mitigation Action Plan. This involves reviewing some elements of the base plan. This also will involve reviewing the work Hagerty and jurisdictions have done for the Annexes. This section will be designed to be interactive, and aim to emphasize how again the right people should be reviewing these documents.</i></p>
10:40 AM	<p>Plan Adoption Process</p> <p><i>Discuss how the plan adoption process occurs. Provide examples of this via case studies</i></p>
11:00 AM	<p>Roadmap to Implementation</p> <p><i>Provide context and examples of what implementation and maintenance of this plan will look like post-adoption</i></p>
11:15 AM	<p>Next Steps and Q&A</p> <p><i>Note key dates.</i></p>

For more information about this process, please contact Susan Park, Nassau County Office of Emergency Services Director of Recovery, at hazardmitigation@nassaucountyny.com



HAGERTY

Mitigation Strategy Review Webinar

Nassau County, New York

August 20, 2020



HAGERTY

Hagerty Consulting



Sydney McKenna

Project Manager



Michelle Bohrson

Deputy Project Manager and
Lead Planner

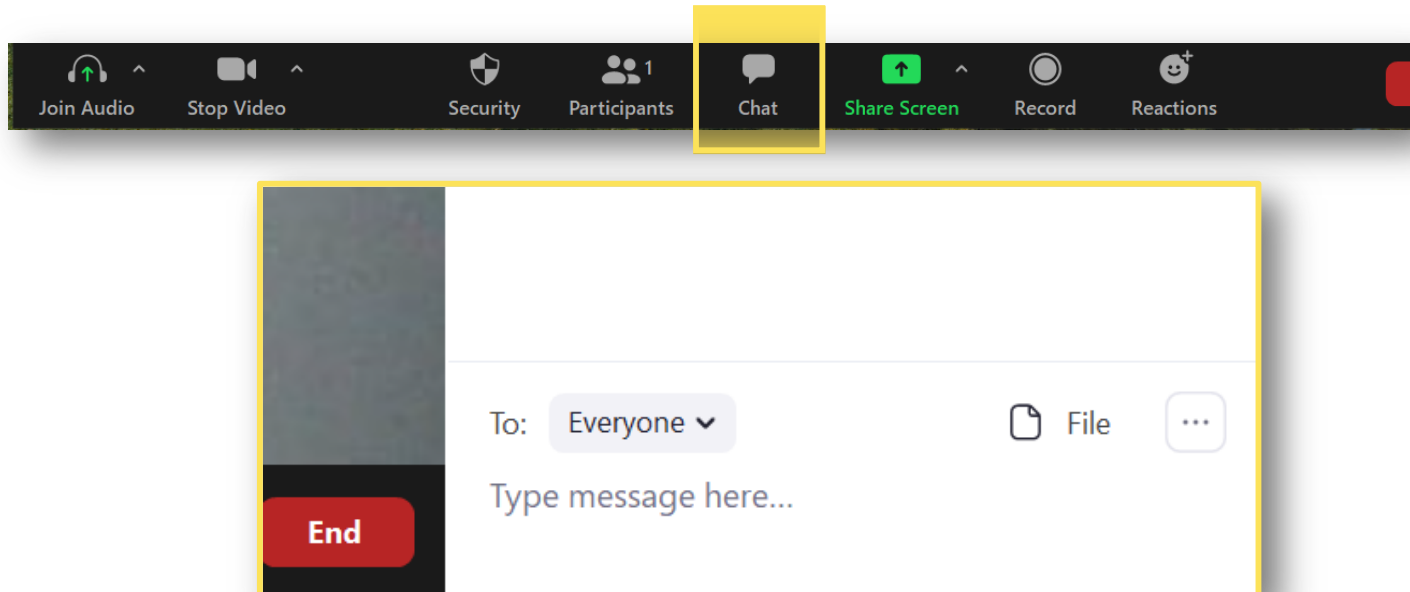


Housekeeping

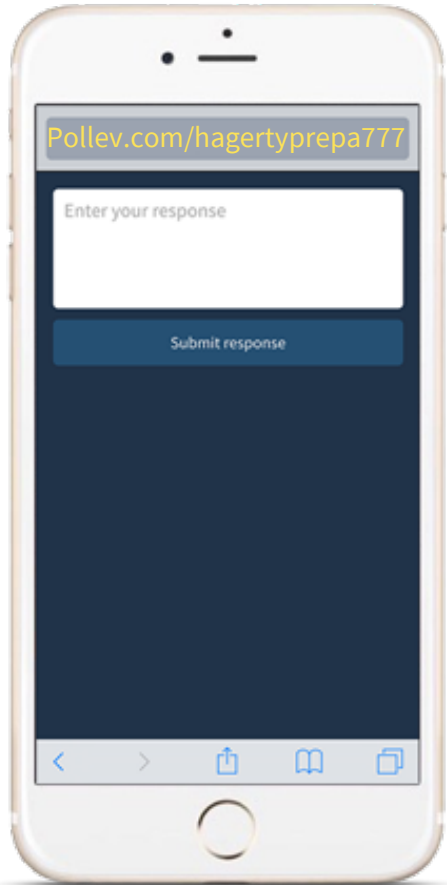
- This meeting is being recorded.
- Phone lines will be muted for the duration of this meeting.
- Use the chat box to ask your questions. We will answer your questions during a Q&A session at the end.
- Please email hazardmitigation@nassaucountyny.gov if joining us on the phone.



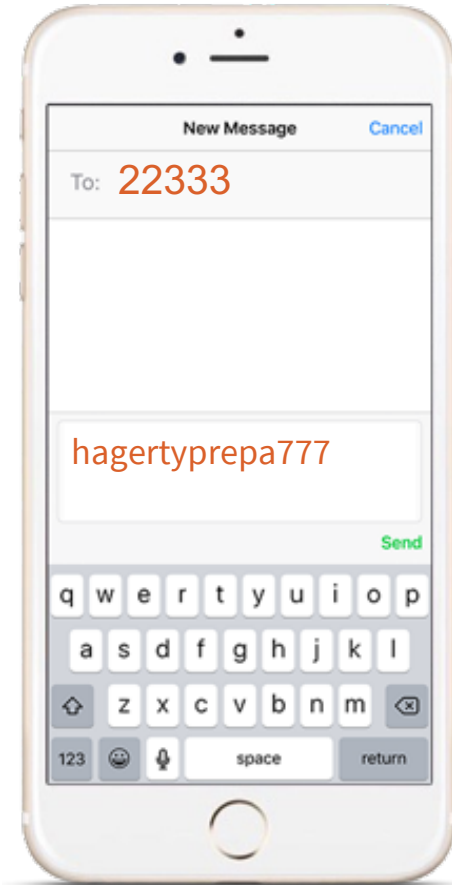
Using Zoom



Poll Everywhere



Web voting





Text voting





How can the public feedback gathering process be improved in the future?



Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Agenda

- 1. Introduction and Project Review**
- 2. Draft Mitigation Action Plan Review**
- 3. Plan Adoption Process**
- 4. Roadmap to Implementation**
- 5. Next Steps and Q&A**



Introduction and Project Review



Why is Mitigation Planning Important?



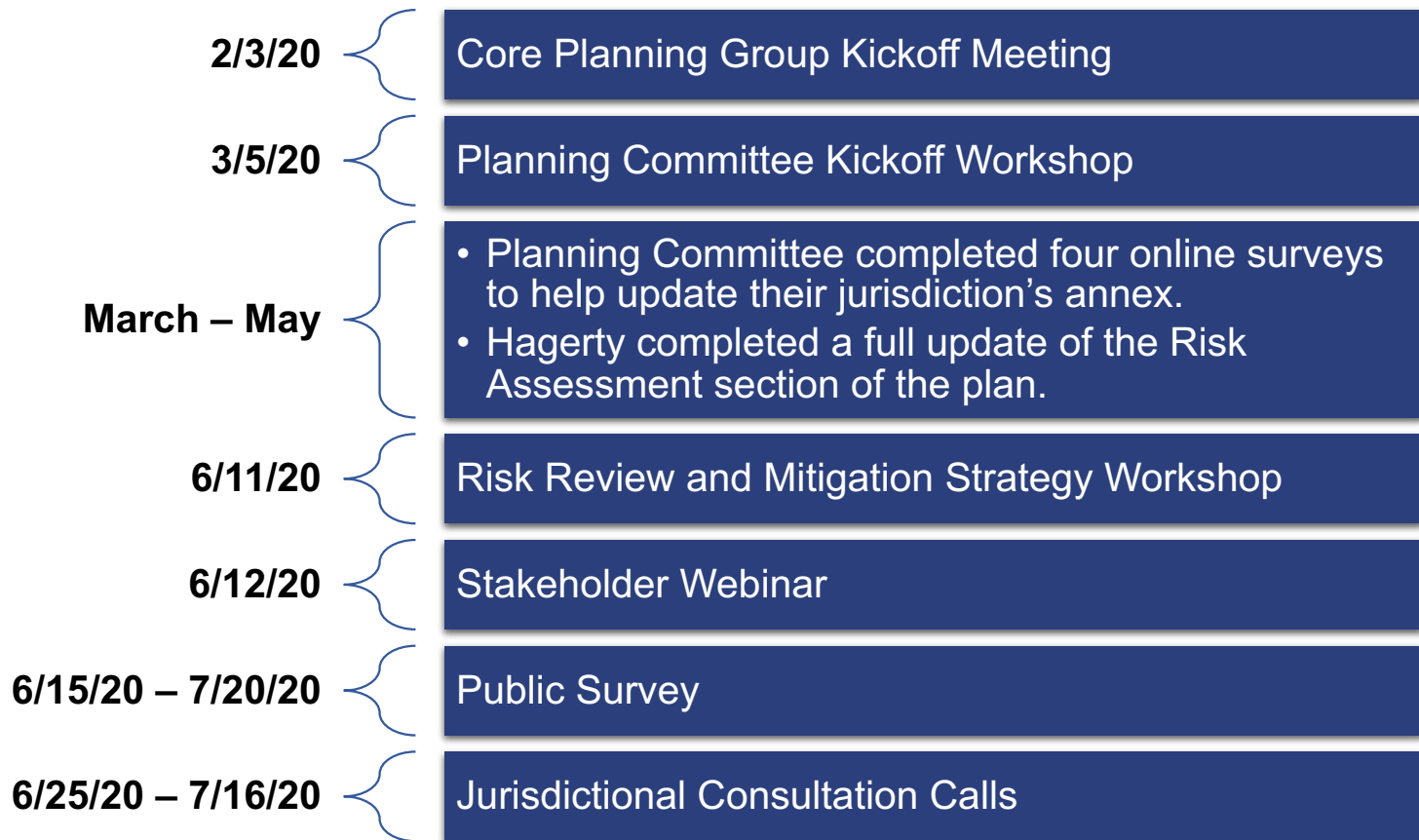
Tropical Storm Isaias

Mitigation Planning for the Future

- Planning and implementing mitigation measures **reduces loss of life and property**.
- **Effectively invest** in your community to reduce risk.
- Become **eligible** for federal mitigation funding opportunities.
- Engage the **Whole Community** in the cycle of emergency management.



Planning Progress to Date



Planning Progress to Date

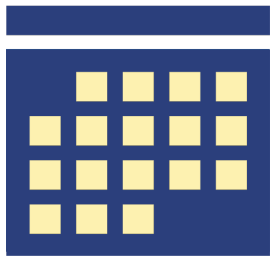


- **51 participating jurisdictions** in the Nassau County Hazard Mitigation Plan Update.
- These jurisdictions make up the **Planning Committee** – which has continued to meet virtually to date.

Project Timeline



Key Upcoming Events



- 8/18 to 8/25** { Submit feedback on Mitigation Action Plan
- 9/8 to 9/22** { Planning Committee reviews the draft Hazard Mitigation Plan
- 9/16** { Plan Review Webinar
- 10/1** { Planning Committee reviews the draft Hazard Mitigation Plan
- 10/1 – 10/31** { Public Webinar and Comment Period

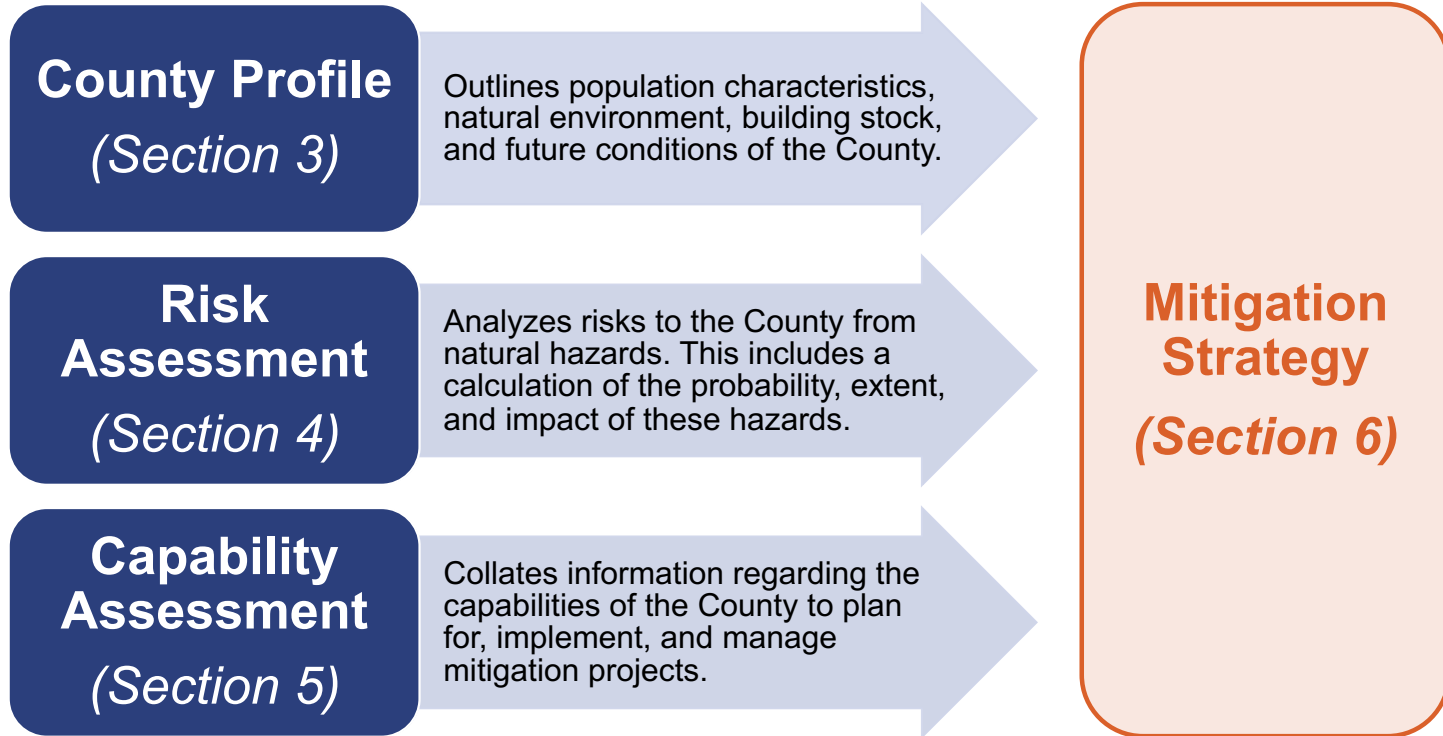


Draft Mitigation Action Plan Review

Risk Review and Mitigation Strategy Webinar



Mitigation Strategy



Mitigation Strategy

Base Plan (Section 6)

- Goals and objectives
- Approach for development of mitigation strategy
- Description of categories in mitigation plan
- Prioritization approach
- Countywide mitigation actions

Jurisdictional Annex

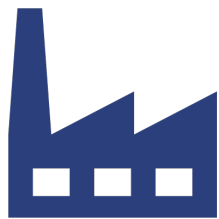
- Progress towards previous mitigation actions
- 2020 mitigation action plan
- DHSES Mitigation Action Worksheets

Mitigation Strategy Goals

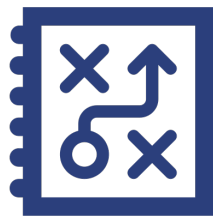
- 1 Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.
- 2 Build and support local capacity to prepare for, respond to, and recover from disasters.
- 3 Protect existing property including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
- 4 Increase awareness of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
- 5 Develop and implement long-term, cost effective, and resilient mitigation projects to preserve or restore the functions of natural systems.
- 6 Improve coordination between land use and redevelopment planning to encourage safe, economically sound investments.

Mitigation Action Plan

Trends in Action Development



**Utility
Retrofitting**



**Continuity
Planning**



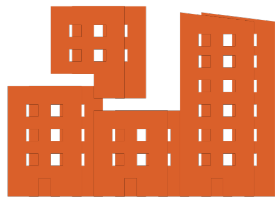
Generators



**Stormwater
Management**

Mitigation Action Plan

Innovative Action Development



**Green Resilience /
Coastal
Development Zone**





**Hurricane
Preparedness
Education
Program**



Phased Projects



Living Shorelines



**Do your mitigation actions address all of
your community's vulnerabilities to natural
hazards?**



What other ideas do you have for mitigation actions for your community?



Mitigation Action Plan Review



Review Your Jurisdiction's Mitigation Action Strategy!

Each participating jurisdiction can now review their Mitigation Action Strategy, prior to finalization of the Draft Nassau County Hazard Mitigation Plan.

The Jurisdiction Mitigation Action Strategy review period will be **open from August 18, 2020 through August 25, 2020**. To review your jurisdiction's documents:



1. Click the link below to access the SharePoint OneDrive library of Jurisdiction Mitigation Action Strategies.
2. Review the documents in your jurisdictions folder. *Note: you will not be able to edit the documents directly on SharePoint.*
3. Provide any feedback you have directly to Michelle Bohrson via email at michelle.bohrson@hagertyconsulting.com.

Review your jurisdiction's Mitigation Action Strategy between **August 18, 2020 and August 25, 2020**.

Please reach out to **Michelle Bohrson** at **michelle.bohrson@hagertyconsulting.com** if you are having any issues accessing the documents for your jurisdiction.

[Click Here to Access Your Mitigation Action Strategy](#)





What questions do you have about the process for reviewing the mitigation action plan?

Plan Adoption Process

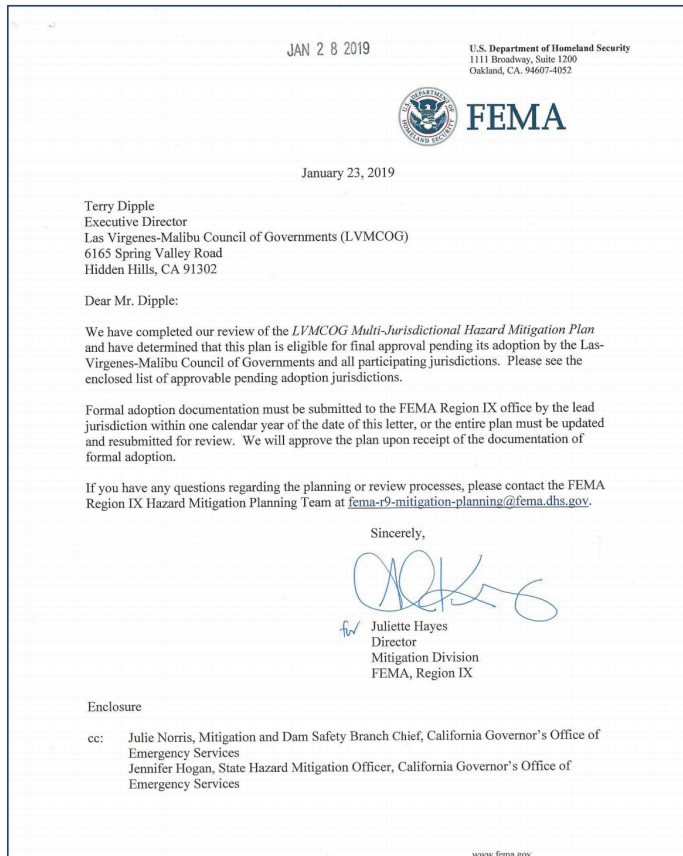


Plan Review Process

It is critical for your jurisdiction to review the plan prior to submission to FEMA to support plan adoption.

- You will be adopting this plan, so review it and confirm the information is complete and accurate.
- Ensure all of the public review and engagement requirements are met for your jurisdiction to adopt the plan.

Approval Pending Adoption



- After DHSES and FEMA review, **FEMA approves** the Plan.
- The County and jurisdictions will receive **Approval Pending Adoption (APA)**.
- Each jurisdiction is **required to adopt** the plan to have a FEMA-approved plan.

Case Study – Village of Bayville 2014 Plan

1. Posted draft Plan online and held a public hearing.

Made comment forms available in person (online now) and published a legal public notice.

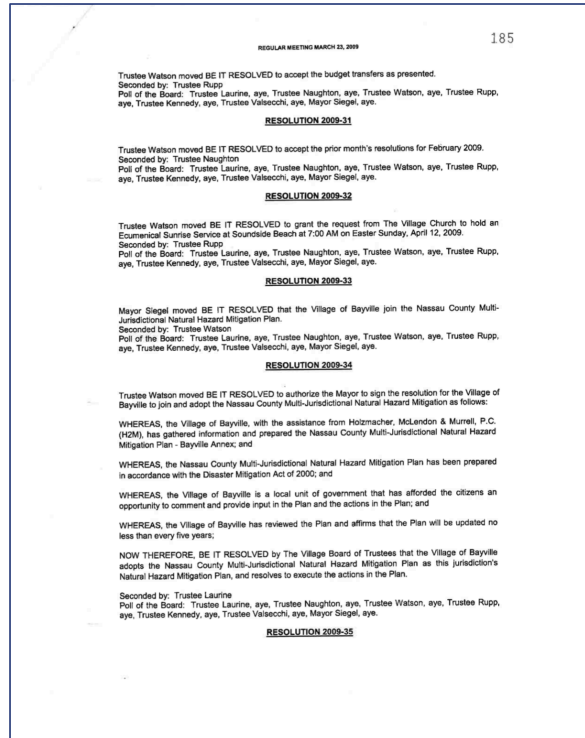
2. Mayor and Board of Trustees passed the resolution.

The resolution was reviewed by FEMA ahead of time. It authorized the mayor to sign the resolution to adopt the HMP.

3. Sent the passed resolution to FEMA.




Typical Adoption Process




Hazard mitigation adoption process fundamentally requires documentation to demonstrate each jurisdiction adopted the plan.





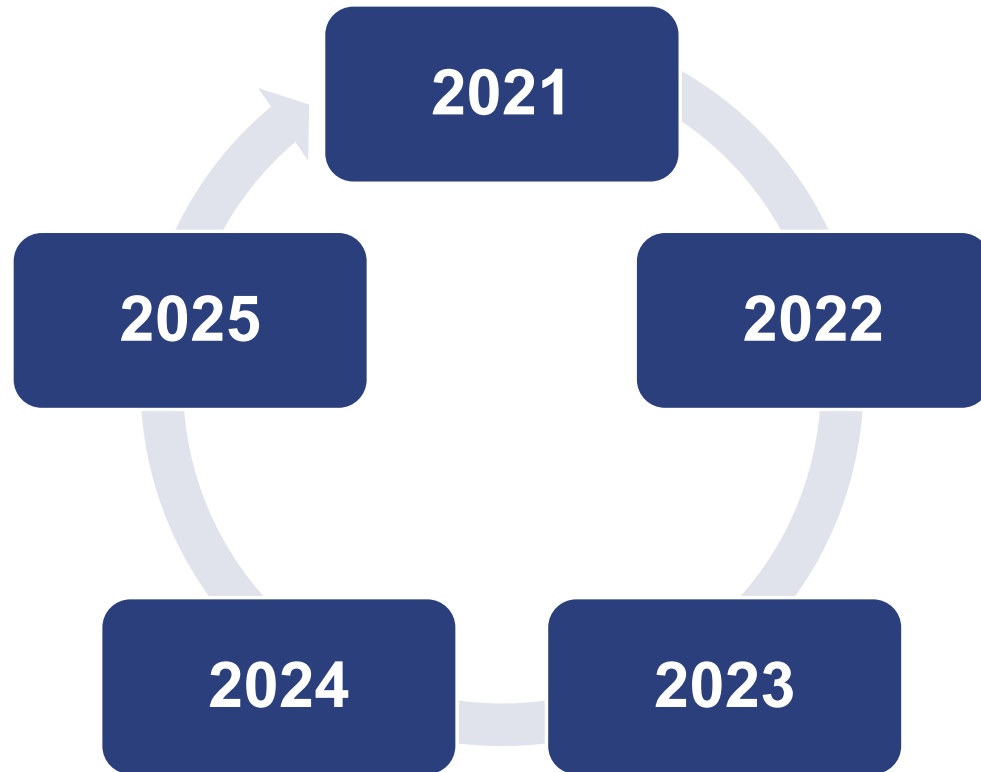
What questions do you have about plan adoption?



What Happens Next?



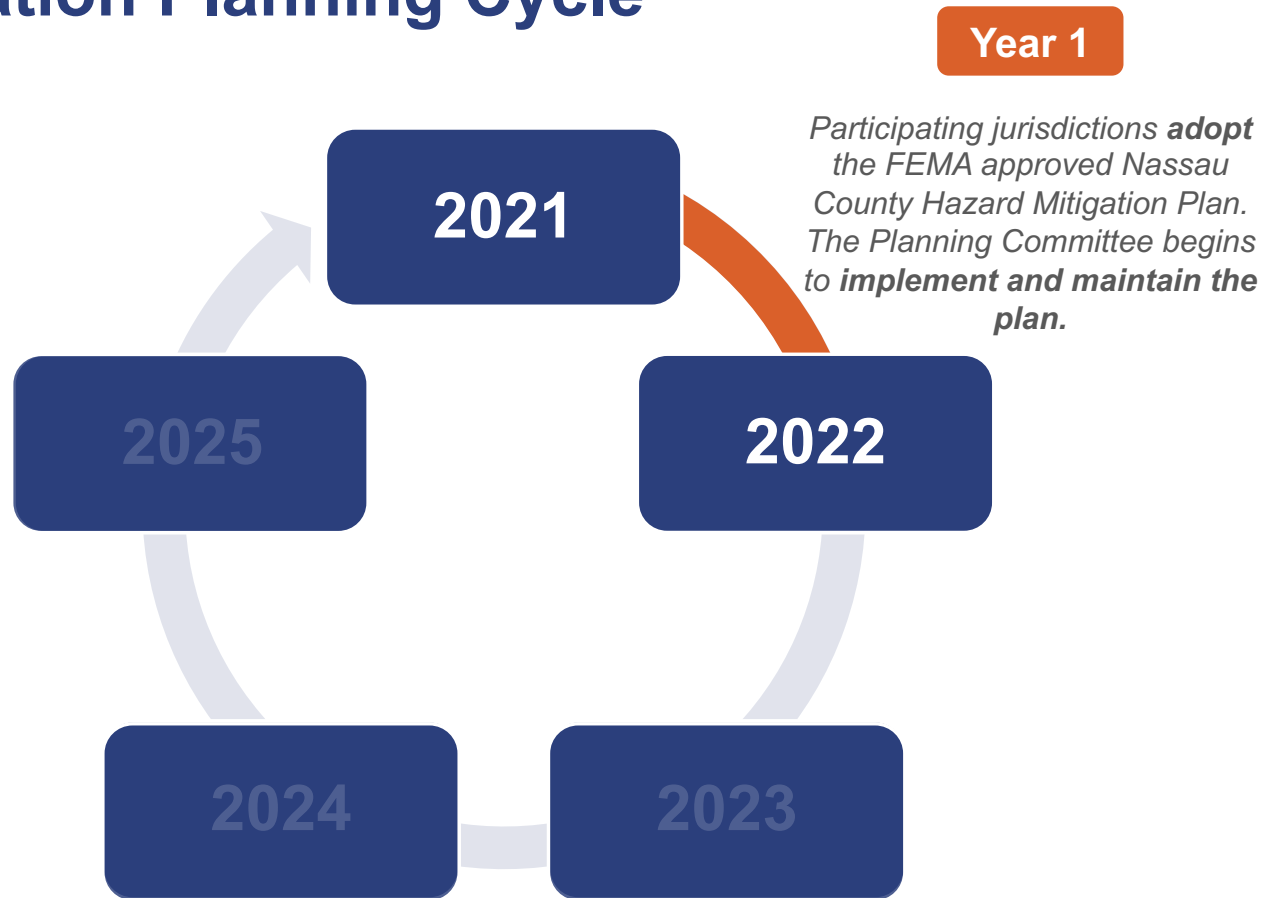
Mitigation Planning Cycle



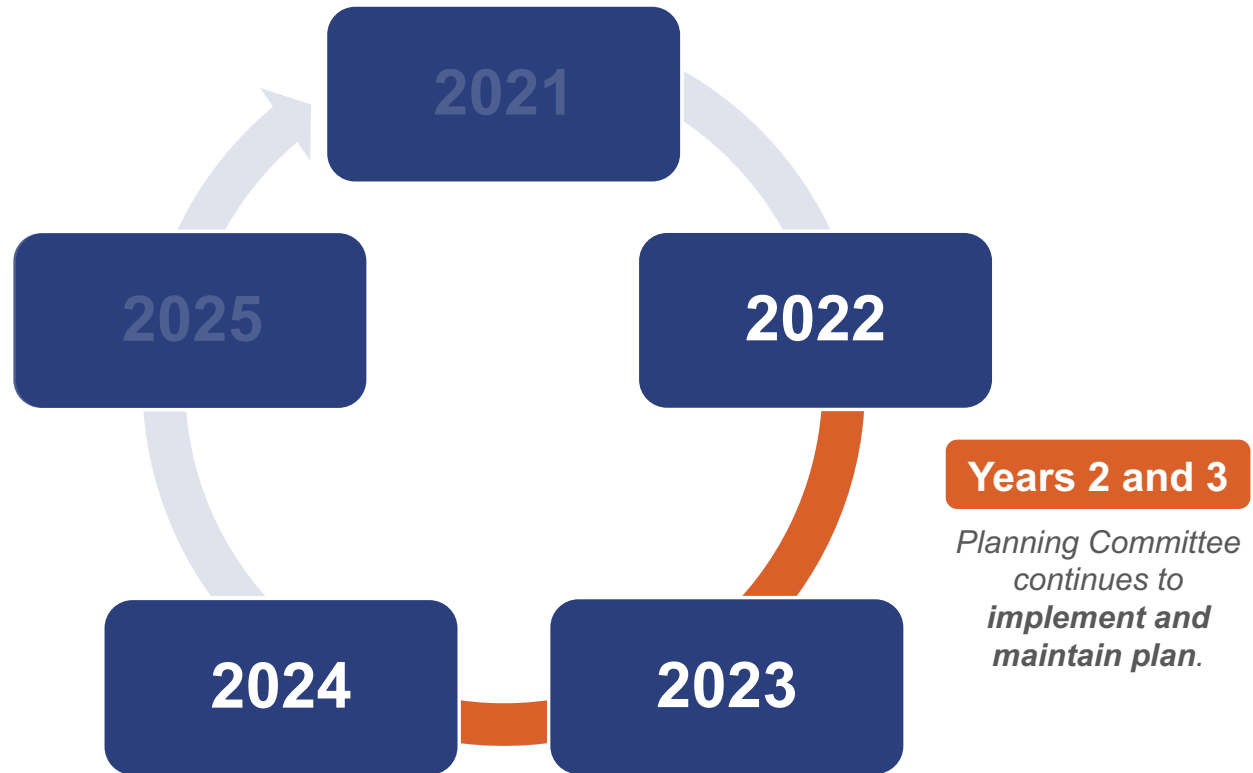
Mitigation Planning Cycle



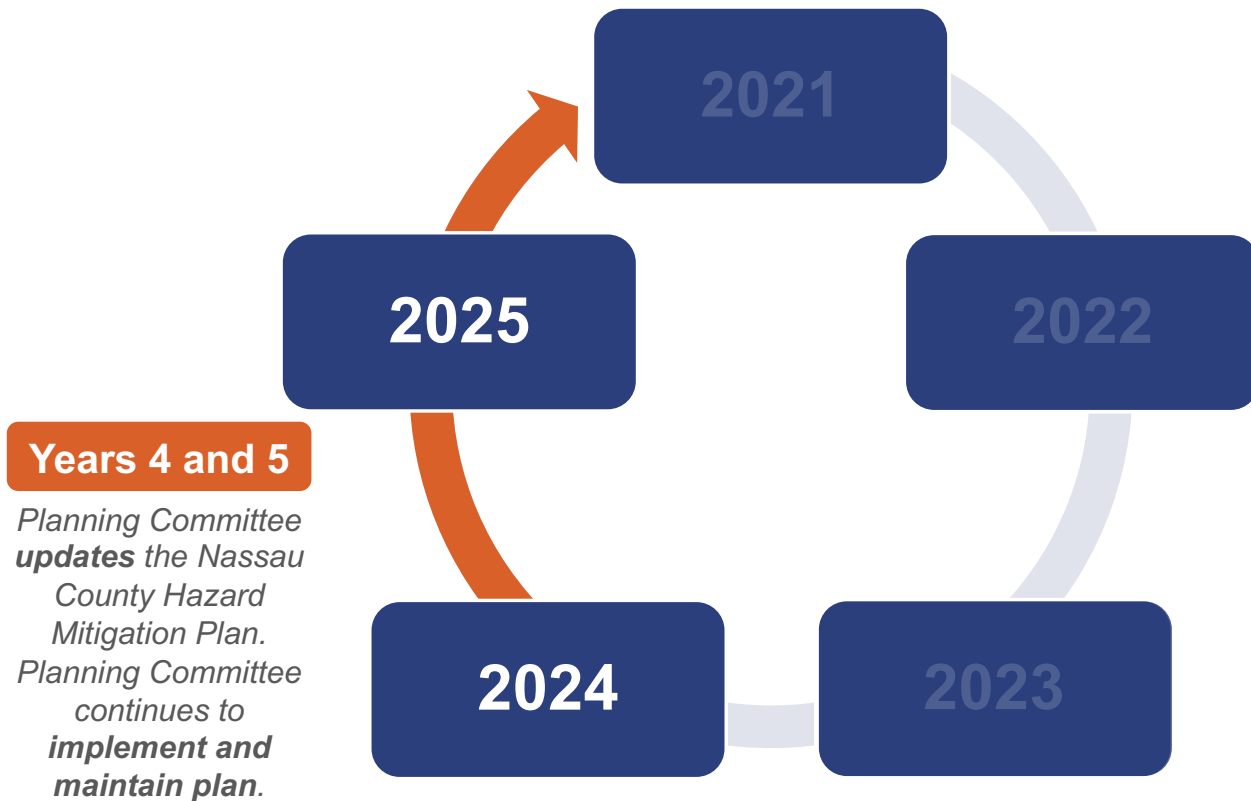
Mitigation Planning Cycle



Mitigation Planning Cycle



Mitigation Planning Cycle



Planning Committee Expectations

Monitor Projects

- Meet regularly and use tools to track project implementation over time.

Evaluate Projects

- Regularly assess and measure how effectively you are implementing the plan and achieving its goals.

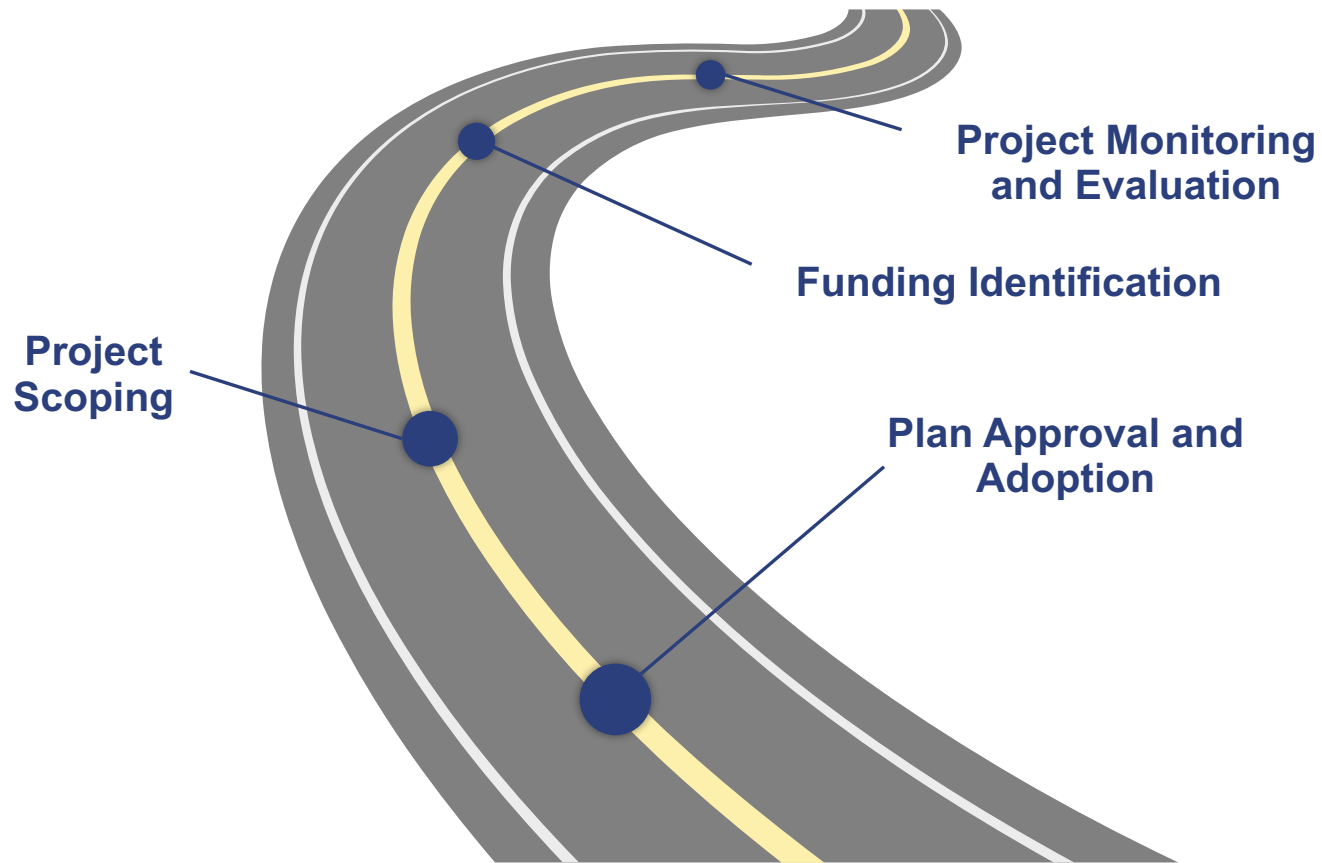
Update the Plan



- Use past evaluations and project monitoring to revise and update the plan

Monitoring, evaluating, and updating the Plan and projects occurs concurrently throughout the planning cycle.



Roadmap to Project Implementation

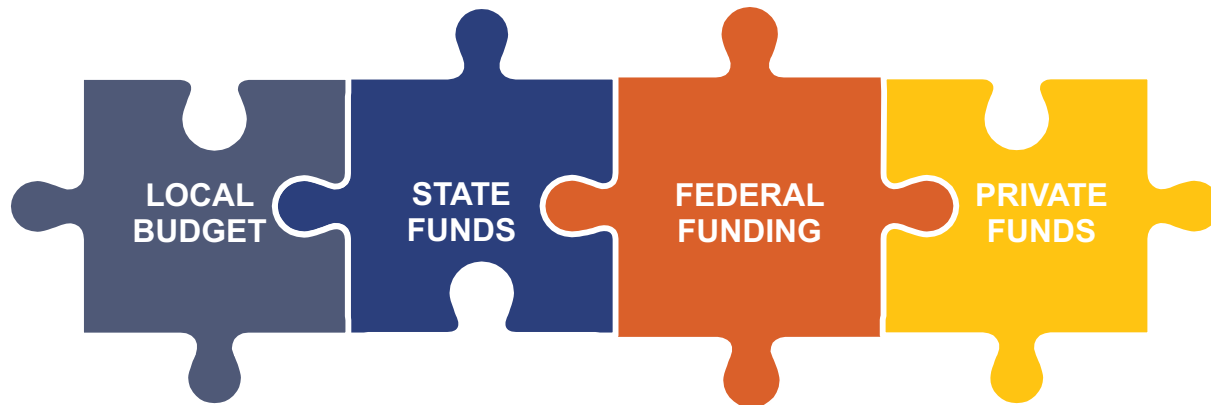




What challenges do you anticipate with implementing the actions identified in the plan (or have you experienced previously)?

Plan Implementation – Finding Funding

- Various funding mechanisms exist to support implementation of mitigation projects.
- Funding mitigation often involves piecing together several different sources.



Plan Implementation – Finding Funding

Local and Private Funding Sources



- Funding from capital improvements program.
- Funding integrated into annual budgets.
- Coordination via multiple departments.
- Fees and taxes collected for a specific project.



- Local share of federal grants may be passed on to private property owners.
- Local corporations or philanthropic organizations may see co-benefits and provide funding.

Plan Implementation – Finding Funding

FEMA's Unified Hazard Mitigation Assistance Grant Programs

- **Hazard Mitigation Grant Program (HMGP)**
 - Available following Presidential Disasters
 - Funding amount tied to disaster damages
 - State-level allocations
- **Pre-Disaster Mitigation (PDM) / Building Resilient Infrastructure and Communities (BRIC)**
 - Available annually
 - Funding amount tied to previous year's (total) annual disaster damages
- **Flood Mitigation Assistance (FMA) Program**
 - Available annually
 - Funding amount determined by congressional appropriations

All participating jurisdictions that adopt the plan are eligible for these programs



Plan Implementation – Finding Funding

ELIGIBLE ACTIVITIES

Mitigation Activities	HMGP	PDM	FMA
1. Mitigation Projects	✓	✓	✓
Property Acquisition and Structure Demolition or Relocation	✓	✓	✓
Structure Elevation	✓	✓	✓
Mitigation Reconstruction			
Dry Floodproofing of Historic Residential Structures	✓	✓	✓
Dry Floodproofing of Non-Residential Structures	✓	✓	✓
Minor Localized Flood Reduction Projects	✓	✓	✓
Structural Retrofitting of Existing Buildings	✓	✓	
Non-Structural Retrofitting of Existing Buildings and Facilities	✓	✓	
Safe Room Construction	✓	✓	
Infrastructure Retrofit	✓	✓	
Soil Stabilization	✓	✓	
Wildfire Mitigation	✓	✓	
Post-Disaster Code Enforcement	✓		
5% Initiative Projects	✓		
2. Hazard Mitigation Planning	✓	✓	✓
3. Management Costs	✓	✓	✓

✓ = Mitigation activity is eligible for program funding



Plan Implementation – Cost Share

- Remember, most Federal programs have a local cost share associated with the award.
- Local cost share may include cash, third-party in-kind services, materials, or any combination of those items.



Note: The local cost share percentage may vary by program and community.

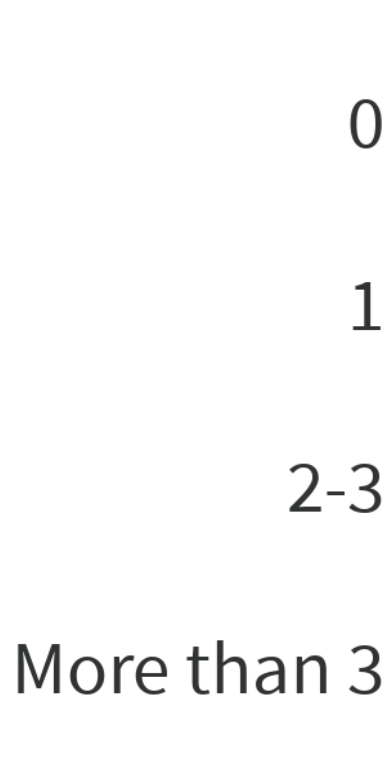




What other funding sources are you aware of that can be used to support mitigation?



How many mitigation projects do you plan to pursue/implement within 12 months?



Next Step and Q&A



Next Steps

**August 18, 2020 –
August 25, 2020**

**Mitigation Action
Plan Feedback Due**

Elicit feedback from
the planning
committee on
mitigation action
plan.

**September 8, 2020 –
September 22, 2020**

**Draft Hazard
Mitigation
Distributed for
Review**

Review full Hazard
Mitigation Plan prior
to submission to
DHSES and FEMA.

September 16, 2020

**Plan Review
Webinar**

Review the Plan
with the planning
committee.

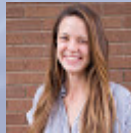
Questions?



Sydney McKenna

(703) 350-9689

sydney.mckenna@hagertyconsulting.com



Michelle Bohrson

(609) 558-4878

michelle.bohrson@hagertyconsulting.com

8/20/20 Planning Committee Mitigation Strategy Review Webinar

First	Last	Organization
Maria	Alfano-Hardy	Village of Bayville
Barbara	Arciere	Village of Stewart Manor
Paul	Broderick	Nassau County
Jean	Celender	Village of Great Neck Plaza
Robert	Cribbin	Village of Lynbrook
Thomas	Devaney	Town of North Hempstead
Shane	Dommin	Village of Sea Cliff
Tim	Dougherty	Village of Brookville
Patrick	Farrell	Village of Lake Success
Joseph	Febrizio	City of Long Beach
		New York State Department of Environmental
Bill	Fonda	Conservation
Juan	Garcia	Village of East Rockaway
Michael	Golio	Nassau County Sheriff's Department
John	Hubbard	Village of Cove Neck
Elizabeth	Kaye	Village of Laurel Hollow
Bruce	Kennedy	Village of Sea Cliff
Chrissy	Kiernan	Village of Baxter Estates
		Suffolk County Office of Emergency
Jean	Lenz	Management
Marianne	Lobaccaro	Village of North Hills
Tracy	Lynch	Village of Upper Brookville
Peter	MacKinnon	Village of Matinecock
Robert	Mangano	Town of Oyster Bay
Angela	Mannino	Village of Brookville
Renee	Marcus	Village of Floral Park
Anthony	Marino	Village of Malverne
		Nassau County Office of Emergency
Nicole	Marks	Management
John	Mirando	City of Long Beach
Thomas	Mullen	Village of Upper Brookville
Frank	Parise	Village of Cedarhurst
		Nassau County Office of Emergency
Susan	Park	Management
Bo	Pilczak	Nassau County Fire Marshal
Edward	Powers	Town of Hempstead
		New York State Division of Homeland Security
Jillian	Ringhauser	and Emergency Services
Frank	Roca	Village of Valley Stream

Lawrence
Thomas
Francois

Schmidlapp
Smith
Tenenbaum

Village of Centre Island
Village of East Rockaway
Village of Woodsburgh
NYS Floodplain and Stormwater Managers
Association

Brian

Zitani

Planning Committee Plan Review Webinar

September 16, 2020, 10:00 - 11:30 AM

1. Planning Committee Plan Review Webinar Invitation
2. Planning Committee Plan Review Webinar Presentation
3. Planning Committee Plan Review Webinar Attendee List



Register Now!

*The Planning Committee, inclusive of the Core Planning Group, will convene on **September 16, 2020 from 10:00 AM to 11:30 AM for the Plan Review Webinar** to update the Nassau County Multi-Jurisdictional Hazard Mitigation Plan.*

[Click here to register for the webinar](#)

You will be provided the full draft of the Plan on September 8. At this webinar we will:

1. Review the draft Hazard Mitigation Plan
 2. Collect feedback from the Planning Committee about the draft Hazard Mitigation Plan
 3. Review next steps in the planning process
-

Hazard Mitigation Grant Program Funding Notice

The New York State Division of Homeland Security and Emergency Services (DHSES) has recently announced a new Hazard Mitigation Grant Program (HMGP) funding opportunity for Presidential Declaration DR-4472: Severe Storms and Flooding. Approximately \$3,700,000 is estimated to be available for mitigation projects.

If interested, Letters of Intent (LOI) for this funding opportunity are due Wednesday, September 30, 2020 @ 5:00 PM. More information can be found on the [funding announcement](#).

If you have any questions about this funding opportunity, please email: hazardmitigation@nassaucountyny.gov.

September

22

An Introduction to FEMA's National Flood Insurance Program Community Rating System: A New York State Perspective.

The Community Rating System (CRS) allows for participating jurisdictions to achieve a reduction on NFIP premiums for their property owners. Those interested in learning more about CRS should plan on attending! This webinar will be held on Tuesday, September 22, 2020 from 10 AM until 11:30 AM.

Register [here](#).

Plan Review Webinar

Nassau County, New York

September 16, 2020



HAGERTY

Hagerty Consulting



Michelle Bohrson

Deputy Project Manager and
Lead Planner



Michael Levkowitz

Planning Support

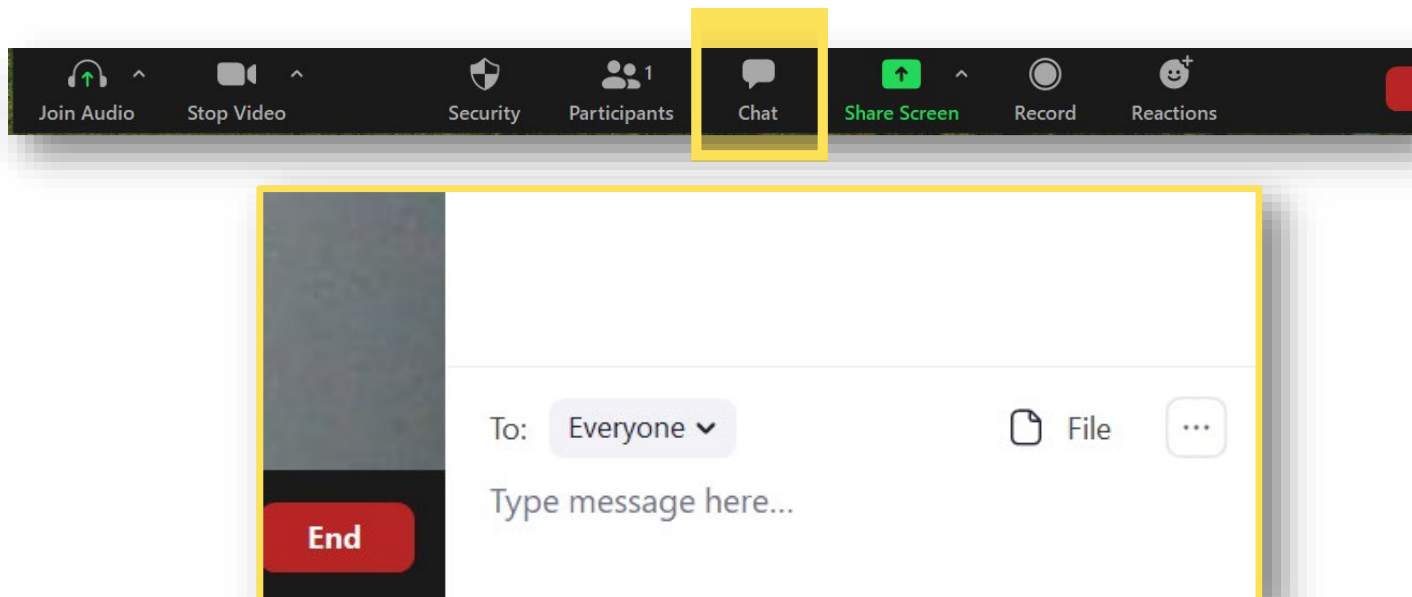


Housekeeping

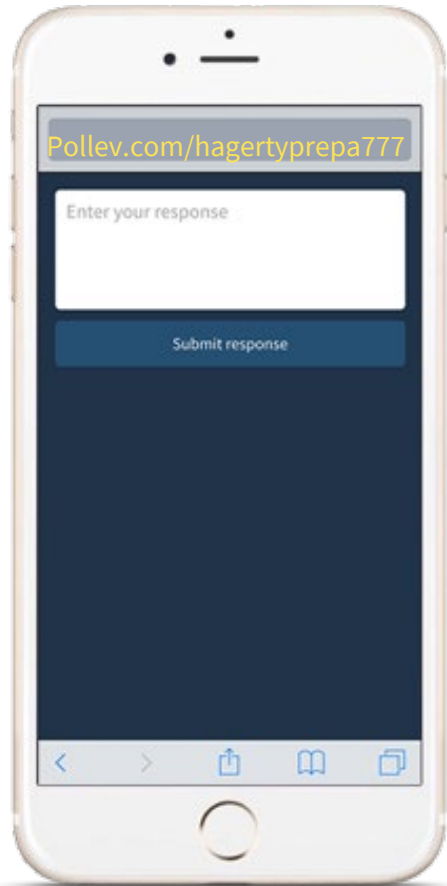
- This meeting is being recorded.
- Phone lines will be muted for the duration of this meeting.
- Use the chat box to ask your questions. We will answer your questions during a Q&A session at the end.
- Please email hazardmitigation@nassaucountyny.gov if joining us on the phone.



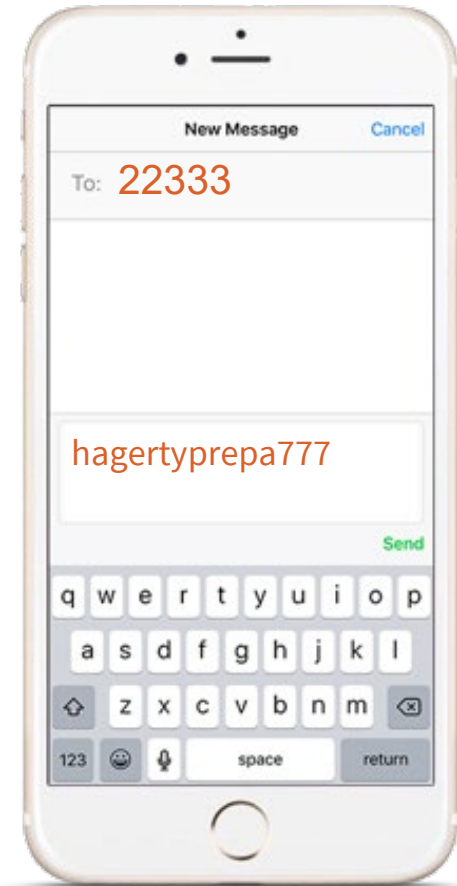
Using Zoom



Poll Everywhere



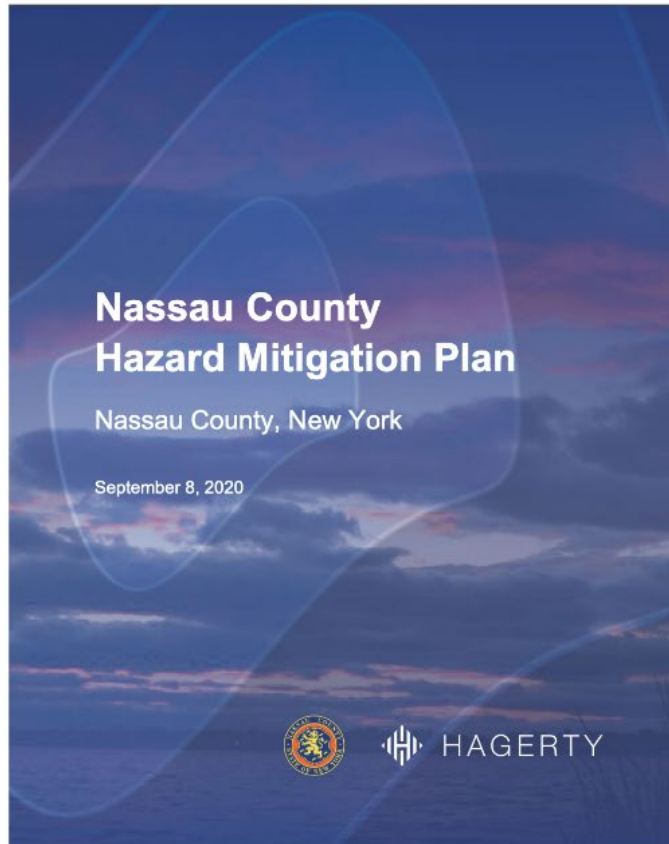
Web voting



Text voting



Have you reviewed the Nassau County Hazard Mitigation Plan?



Yes, all of it!

Yes, but only my jurisdiction's annex.

Yes, but only the base plan.

I've opened it...

Not yet.

Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

- 1. Introduction and Project Review**
- 2. Plan Overview**
- 3. Plan Review**
- 4. Using the Plan**
- 5. Next Steps and Q&A**



Introduction and Project Review

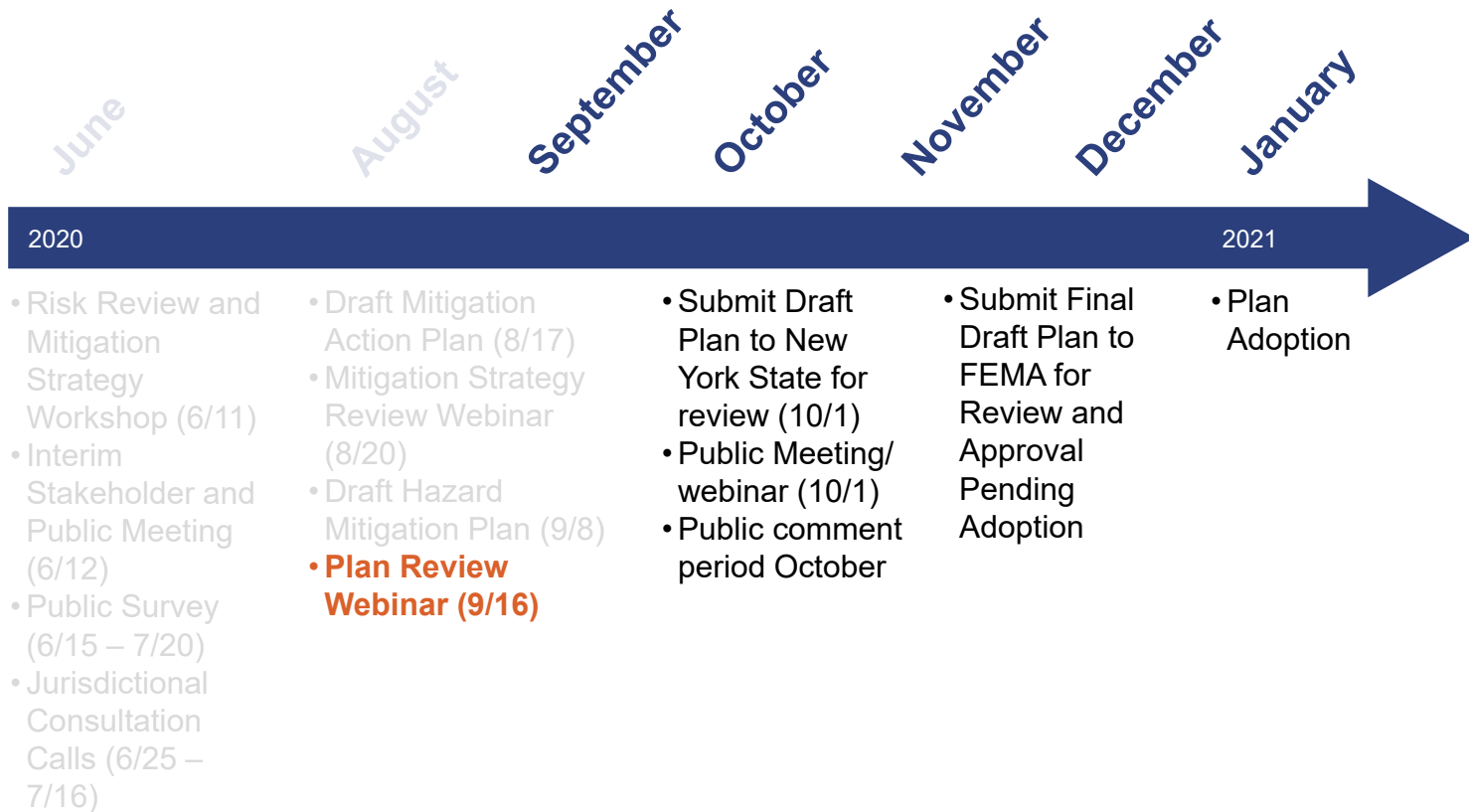


Mitigation Planning for the Future

- Planning and implementing mitigation measures **reduces loss of life and property.**
- **Effectively invest** in your community to reduce risk.
- Become **eligible** for federal mitigation funding opportunities.
- Engage the **Whole Community** in the cycle of emergency management.



Project Timeline



Key Upcoming Dates

September 22

- Planning Committee to provide feedback to steering committee on the draft Plan.

October 1

- Public review period begins.
- Plan submitted to the State for review.

October 31

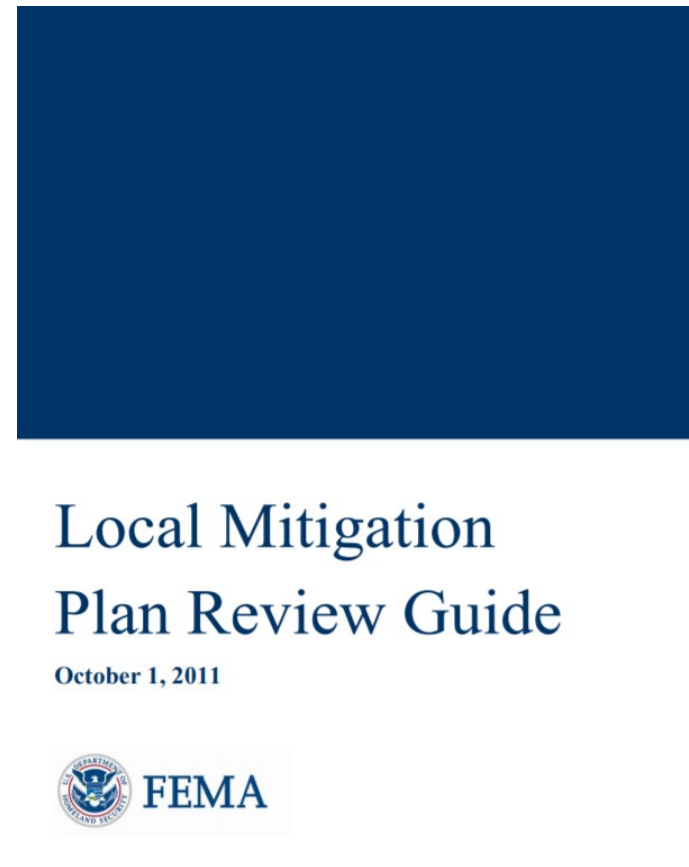
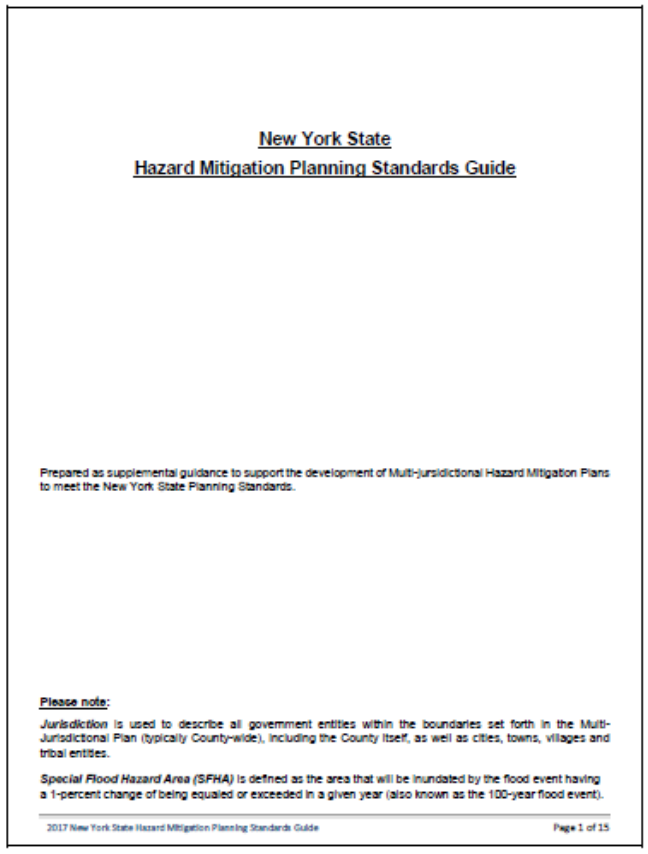
- Public review period ends.

**Late
November**

- Anticipated submission date to FEMA for Approval Pending Adoption.



Meeting Planning Requirements



Plan Overview



Plan Overview

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



Base Plan Overview

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



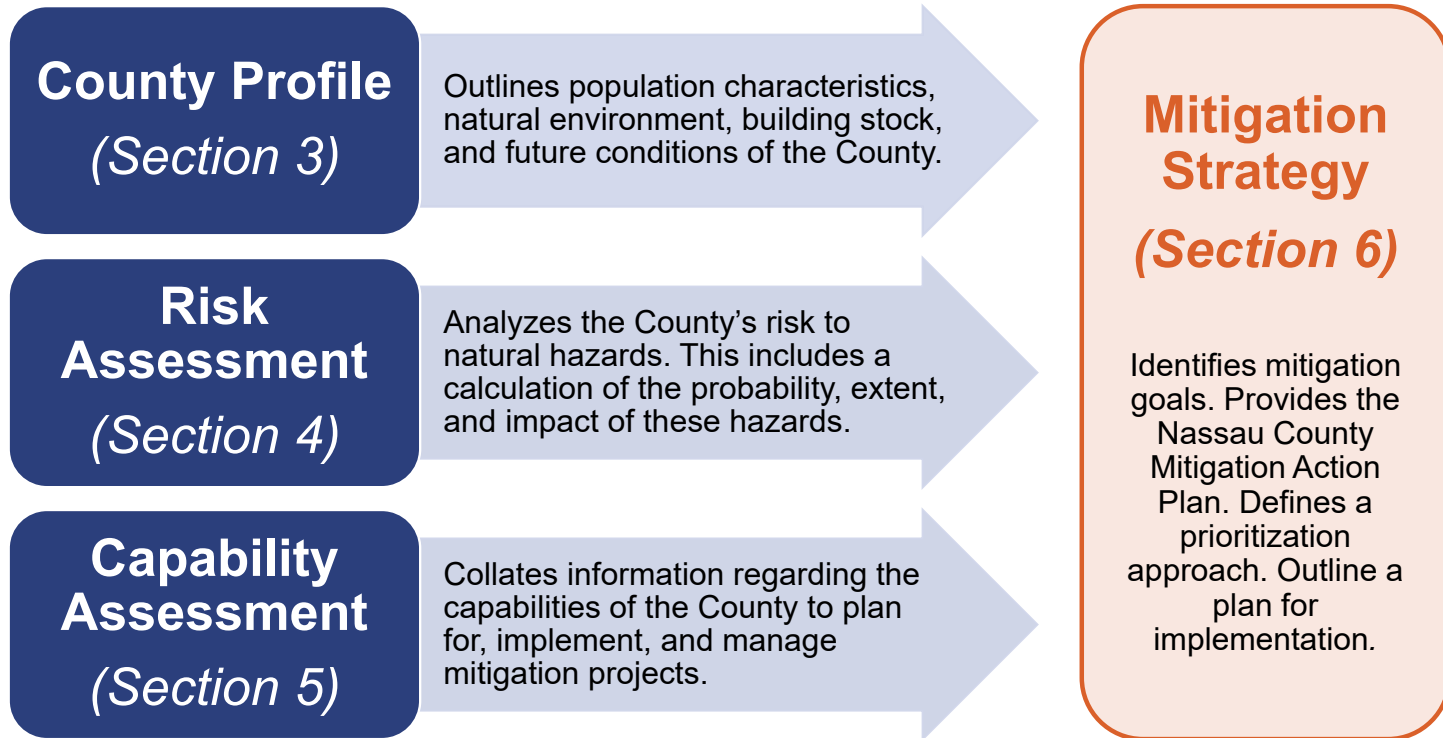
Base Plan Overview

Section 1 – Introduction

- Orients readers to the purpose and scope of the Plan.



Base Plan Overview



Overview of Appendices

Base Plan	Section 1 – Introduction Section 2 – Planning Process Section 3 – Profile Section 4 – Risk Assessment Section 5 – Capability Assessment Section 6 – Mitigation Strategy
Appendices	Appendix A – Planning Process Appendix B – Risk Assessment Appendix C – Mitigation Strategy
Annexes	51 Jurisdictional Annexes <i>(one for each participating jurisdiction)</i>



Overview of Appendices

Appendix A – Planning Process

- Provides a record of outreach and participation in the planning process.
- Includes:
 - Outreach strategy
 - Copies of newsletters
 - Meeting invitations, attendance, and presentations



Overview of Appendices

Appendix B – Risk Assessment

- Provides more detailed tables of data to supplement the analysis presented in the risk assessment section
- Supports additional understanding of hazard risk



Overview of Appendices

Appendix C – Mitigation Strategy

- Provides tools to support plan maintenance and implementation.
- Tools include:
 - Sample Adoption Resolution
 - Project Funding Support Tool
 - Plan Maintenance Reporting Tool



Overview of Appendices

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



Overview of Annexes

Jurisdictional Annexes

- Identifies unique information on the demographics of the jurisdiction.
- Describes current and future development for each jurisdiction.
- Provides an overview of the impacts of the natural hazards outlined in the Base Plan.
- Identifies each jurisdiction's progress towards previous mitigation actions.
- Outlines 2020 mitigation action plan for each jurisdiction.
- Provides the DHSES Mitigation Action Worksheets for each jurisdiction.



Plan Review



Plan Review Process

It is critical for your jurisdiction to review the plan prior to submission to DSHES and FEMA to support plan adoption.

- You will be adopting this plan, so please review it and confirm the information is complete and accurate.
- Your jurisdiction can utilize the public review period set up for the whole plan to meet your engagement requirements to adopt the plan.





Is the review process clear to you?



Yes

No

Reviewing the Plan

- An action might be mitigating risk even if you are not calling it mitigation.
- Consider what your community is doing to **reduce risk**.



Reviewing the Plan



Reviewing the Plan



Reviewing the Plan

- Review the feedback submitted
- Adjudicate any conflicting feedback
- Incorporate feedback into the draft plan





What sections are you expected to review?



Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app





Why is it important for you to review the plan?

You will be adopting the Plan.

Your jurisdiction may have public review requirements.


This Plan will be publicly available.

This plan will be used for decision making.



All of the above.

Using the Plan





How will you explain the hazard mitigation plan to your colleagues or community?



What mitigation action(s) are you seeking to implement within the next year?

Generators

Stormwater /
Drainage

Coastal Flooding
/ Storm Surge

Other



What section(s) of the plan do you think the public would find most interesting?



Plan Integration



Plan Integration: Linking Local Planning Efforts

July 2015



37

Building Resilience through Plan Integration



Plan Integration

Comprehensive Emergency Management Plan (CEMP)



Plan Integration

Continuity of Operations Plan (COOP)





How do you imagine integrating the Plan into your existing plans and policies?

Comprehensive Emergency
Management Plan

Continuity of Operations
Plan

Capital Improvement Plan

Comprehensive Plan

Other

Next Steps and Q&A



Key Upcoming Dates

September 22

- Planning Committee to provide feedback to steering committee on the draft Plan.

October 1

- Public review period begins.
- Plan submitted to the State for review.

October 31

- Public review period ends.

**Late
November**

- Anticipated submission date to FEMA for Approval Pending Adoption.



Questions?



Michelle Bohrson

Deputy Project Manager and
Lead Planner



Michael Levkowitz

Planning Support

9/16/20 Plan Review Webinar Attendee List

First	Last	Organization
Sharon	Abramski	Manorhaven
Barbara	Arciere	Stewart Manor
Michelle	Bohrson	Hagerty Consulting
Paul	Broderick	County of Nassau
Keith	Bunnell	Williston Park
Scott	Clark	Hempstead
Shannon	Clarke	NYS DHSES
Roger	Cocchi	Matinecock
Kevin	Crean	Nassau County Office of Community Development
Thomas	Devaney	Town of North Hempstead
Jeremy	Devine	Lawrence Union Free School District
Barbara	Donno	Plandome Manor
Tim	Dougherty	Brookville
Michael	Ertel	Sands Point
Patrick	Farrell	Lake Success
Joseph	Febrizio	City of Long Beach
Michael	Golio	Nassau County Sheriff's Department
Michael	Golio	Sheriff's Department
Dawn	Gresalfi	Lattingtown
Doug	Groth	Bayville
John	Hubbard	Cove Neck
Michael	Jurcsak	Russell Gardens
Bruce	Kennedy	Sea Cliff
Chrissy	Kiernan	Baxter Estates
Dina	Kussoff	Roslyn Harbor
Andrew	Levenbaum	Mineola
Michael	Levkowitz	Hagerty Consulting
Marianne	Lobaccaro	North Hills
Tracy	Lynch	Upper Brookville
Angela	Mannino	Brookville
Nicole	Marks	Office of Emergency Management / Nassau County
Thomas	Mullen	Upper Brookville
Christopher	Ortiz	City of Glen Cove
Frank	Parise	Cedarhurst
Susan	Park	Nassau County Office of Emergency Services
Bohdan	Pilczak	Nassau County Fire Marshal
Edward	Powers	Town of Hempstead
Kevin	Reilly	Rockville Centre
Jillian	Ringhauser	NYS DHSES
Kenneth	Riscica	Plandome Heights
Frank	Roca	Valley Stream
Lawrence	Schmidlapp	Centre Island
Dennis	Sgambati	North Hills
Thomas	Smith	East Rockaway
Robert	Spina	Brookville

Karen	Taggart	Nassau County-Office of the County Executive
Francois	Tenenbaum	Woodsburgh
Joseph	Trimarchi	Nassau County Office of Emergency Services
David	Viana	Nassau County Department of Public Works
Paola	Villegas	Hagerty Consulting

Public Meeting

October 8, 2020, 11:30 AM - 12:30 PM

Virtual

1. Public Meeting Invitation
2. Public Meeting PowerPoint Presentation
3. Public Meeting Attendees

OCT
08

Nassau County Hazard Mitigation Plan Public Meeting

by Nassau County Office of Emergency Management

[Follow](#)

Hazard Mitigation Plan
Public Meeting



Free

Free

[Register](#)



Date And Time

Thu, October 8, 2020
11:30 AM - 12:30 PM EDT
[Add to Calendar](#)



Location

Online Event



Please join us for a meeting discussing Nassau County's updated DRAFT Multi-Jurisdictional Hazard Mitigation Plan.

About this Event

The Nassau County Hazard Mitigation Plan (Plan) demonstrates the County's dedication to identifying and reducing risks associated with natural hazards to increase community resilience. This **DRAFT** Plan was developed in coordination with stakeholder groups and input from the public through a year-long interactive planning process which included identifying hazards of concern, assessing these hazards and associated risk and potential losses, and developing a strategy to mitigate risk to these hazards throughout the County.

We invite you to join us for this brief (virtual) Public Meeting, during which time we will review the contents of the plan and solicit feedback from residents to ensure the final plan aligns with community values, interests, and priorities. The **DRAFT** Plan will be available to review in advance of the Public Meeting; please RSVP through EventBrite and be on the look out for an emailed update in early October with a link to view the **DRAFT** Plan. We will also be sending a link to participate in a public survey which will also help validate and inform the proposed strategies included.

Note: After registering, you will receive an email from Eventbrite that includes information about how to join the virtual event through your computer or smartphone.

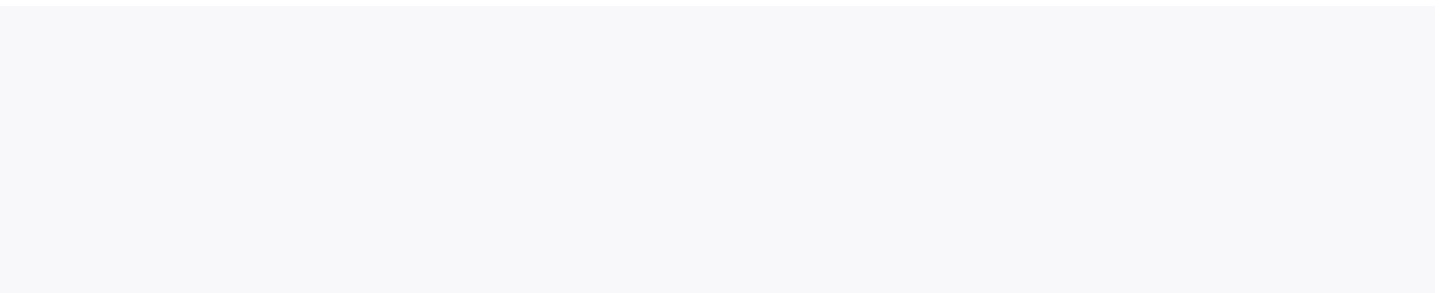
Date And Time

Thu, October 8, 2020
11:30 AM - 12:30 PM EDT

[Add to Calendar](#)

Location

Online Event





Nassau County Office Of Emergency Management

Organizer of Nassau County Hazard Mitigation Plan Public Meeting

[Website](#)

[Follow](#)

[Contact](#)

[Use Eventbrite](#)

[How it Works](#)

[Pricing](#)

[Event Blog](#)

[Plan Events](#)

[Online Registration](#)

[Sell Event Tickets](#)

[Event Management Software](#)

[Find Events](#)

[Browse Online Events](#)

[Get the Eventbrite App](#)

[Connect With Us](#)

[Report This Event](#)

[Help Center](#)

[Terms](#)

[Privacy](#)

[CA Privacy Notice](#)

[Community Guidelines](#)



© 2020 Eventbrite

Hazard Mitigation Public Meeting

Nassau County, New York

October 8, 2020



HAGERTY



HAGERTY

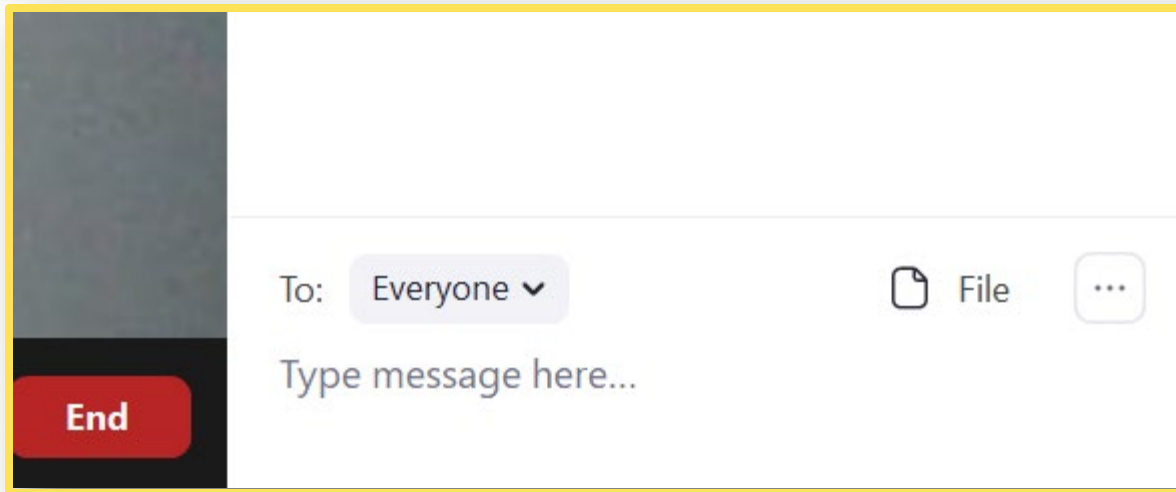
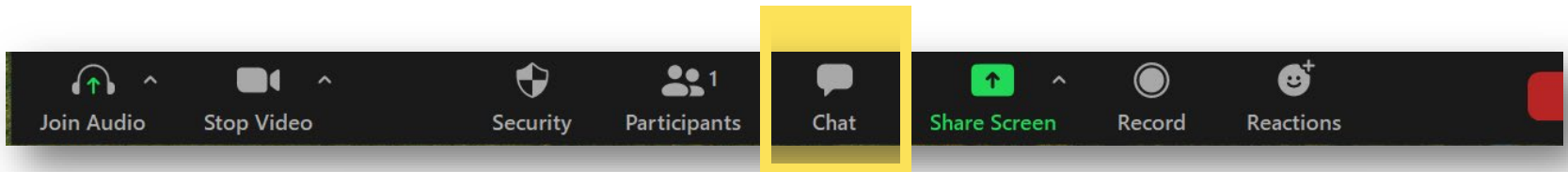
Sydney McKenna
Project Manager
Hagerty Consulting



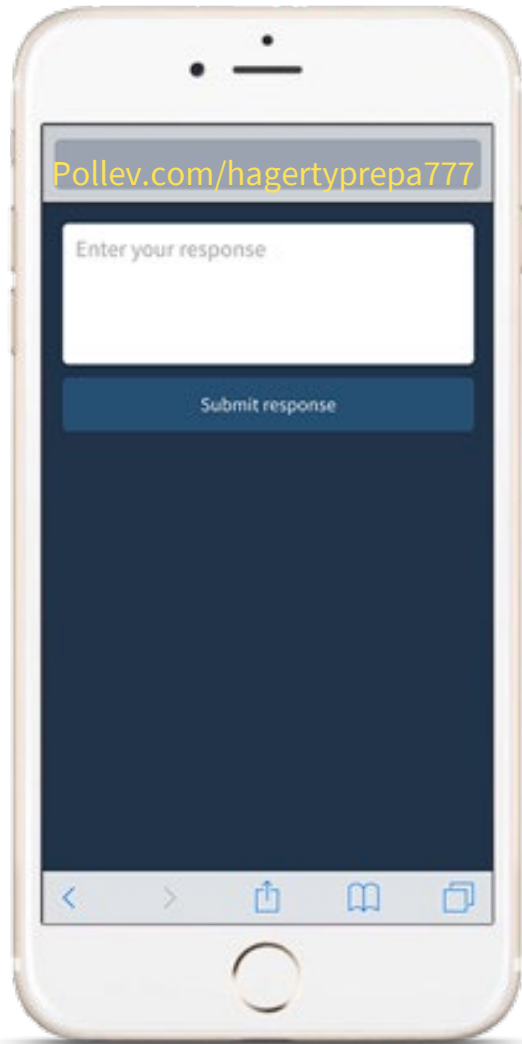
Housekeeping

- This meeting is being recorded.
- Phone lines will be muted for the duration of this meeting.
- Use the chat box to ask your questions. We will answer your questions during a Q&A session at the end.
- Please email hazardmitigation@nassaucountyny.gov if joining us on the phone.

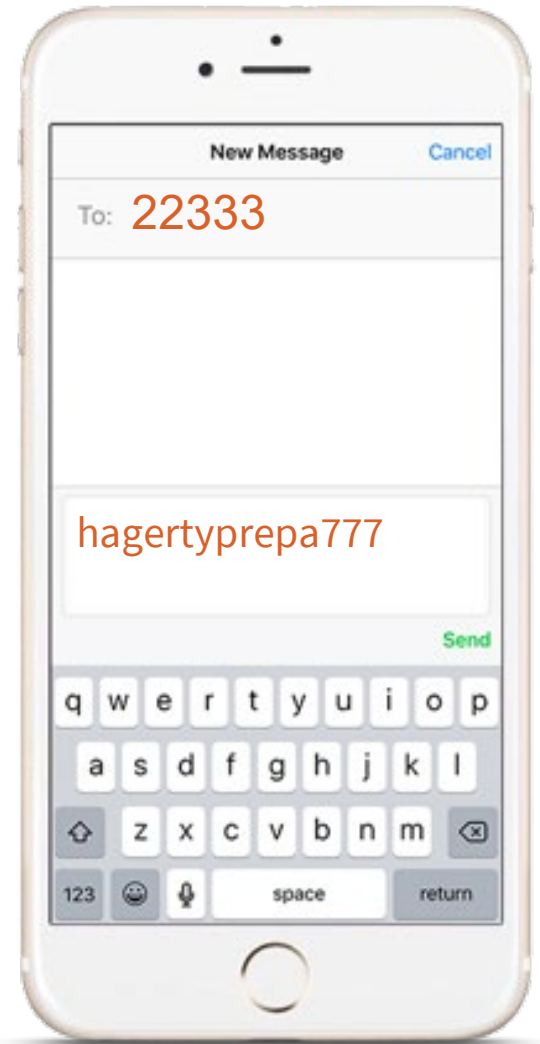
Using Zoom



Poll Everywhere



Web voting



Text voting

Which of the following describe you? Choose up to two.

Resident of Nassau County **A**

Business owner in Nassau County **B**

Non-profit employee in Nassau County **C**

Student in Nassau County **D**

Government employee in Nassau County **E**

Other **F**

About the Hazard Mitigation Plan Update



Benefits of Hazard Mitigation Planning

- Ensures **continued eligibility** for various FEMA grant programs
- Invests in your community's **future safety and sustainability**
- **Educates the whole community** about hazard risks and vulnerabilities of people, property, and infrastructure
- **Builds and enriches partnerships** among community stakeholders



Goals and Objectives for the Plan Update

Leverage current standards, regulations, guidance, and hazard information to ensure the Nassau County Multi-Jurisdictional Hazard Mitigation Plan meets and exceeds New York State and Federal Emergency Management Agency (FEMA) requirements.



Nassau County Municipalities

[Source](#)

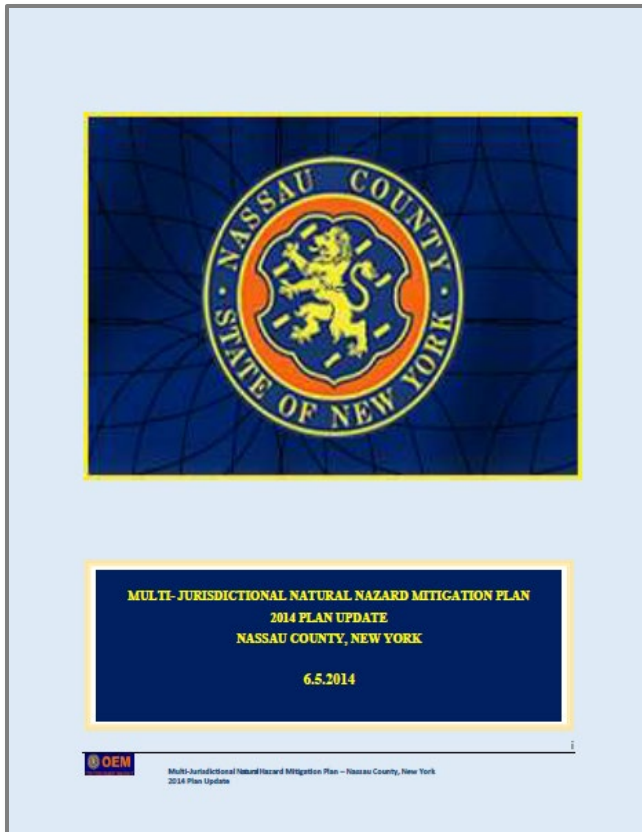


Long Beach, NY – Damage after Superstorm Sandy 2012

[Source](#)



Historical Context



2014 Nassau County Multi-Jurisdictional Hazard Mitigation Plan

[Source](#)

2007: Nassau County develops its first Hazard Mitigation Plan

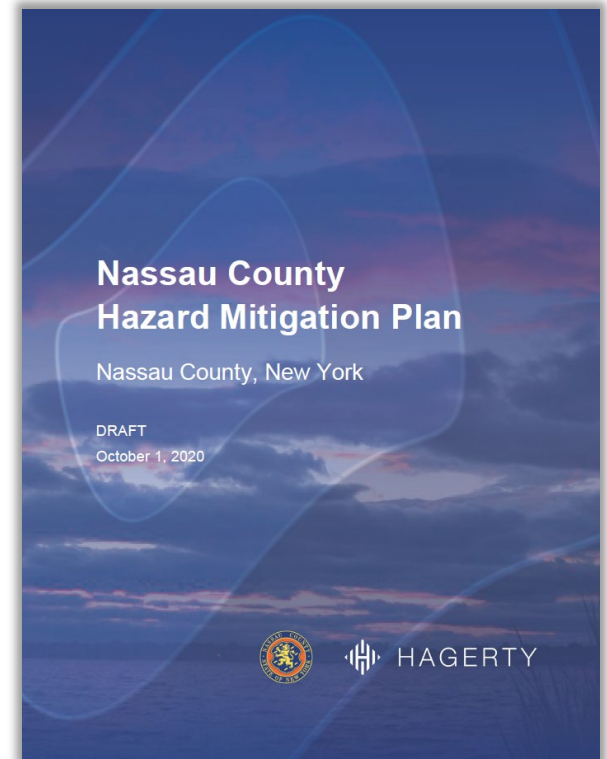
2014: Nassau County updates the Plan

2020: Nassau County prepares to update the Plan again

2021 Plan Outcomes

The base plan was updated to include:

- A countywide assessment of risk to natural hazards
- Countywide goals for mitigation that align with current county and state priorities
- A roadmap for maintaining the plan over the next five years, including evaluation of mitigation projects and continued public participation



2021 Plan Outcomes

Each participating jurisdiction has its own annex to the base plan that includes:

- Geography, demographics, and development
- Hazard history and vulnerabilities
- Capabilities
- Mitigation projects
- National Flood Insurance Program summary

City of Glen Cove Annex

This document presents the City of Glen Cove's annex to the Nassau County Multi-Jurisdictional Hazard Mitigation Plan.

Hazard Mitigation Plan Points of Contact

The individuals below have been identified as this jurisdiction's points of contact for the hazard mitigation plan. These individuals are members of the Planning Committee that met regularly for the update of this plan and will continue to meet in the years ahead to implement it.

Primary Point of Contact	Alternate Point of Contact
Mayor Timothy Tenke, Mayor City of Glen Cove 9 Glen Street Glen Cove, NY 11542 Tenke@glencoveny.gov 516-676-2004	Maureen Basdavanos, Deputy Mayor City of Glen Cove 9 Glen Street Glen Cove, NY 11542 mbasdavanos@glencoveny.gov 516-676-2000

Profile

The City of Glen Cove covers approximately 6.66 square miles¹ and has a total population of 27,166 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the City of Glen Cove are summarized in Table 1. This information supported the development of mitigation actions that account for the needs of the most vulnerable individuals in the community.

Table 1: City of Glen Cove Demographic Information

Demographic	Percentage	Demographic	Percentage
Below 5 Years Old	6.7%	Black or African American alone	8.7%
Above 65 Years Old	18.0%	American Indian and Alaska Native alone	0.7%
Individuals with Disabilities	5.5%	Asian alone	5.0%
Persons in Poverty	14.1%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	49.2%	Two or More Races	2.9%
Without a High School Diploma	19.5%	White alone, not Hispanic or Latino, percent	54.3%
Without Access to Broadband Internet	15.4%	Hispanic or Latino	27.3%

¹ This is inclusive of land area only.



Meeting Planning Requirements

New York State
Hazard Mitigation Planning Standards Guide

Prepared as supplemental guidance to support the development of Multi-jurisdictional Hazard Mitigation Plans to meet the New York State Planning Standards.

Please note:

Jurisdiction is used to describe all government entities within the boundaries set forth in the Multi-Jurisdictional Plan (typically County-wide), including the County itself, as well as cities, towns, villages and tribal entities.

Special Flood Hazard Area (SFHA) is defined as the area that will be inundated by the flood event having a 1-percent change of being equaled or exceeded in a given year (also known as the 100-year flood event).

Local Mitigation Plan Review Guide

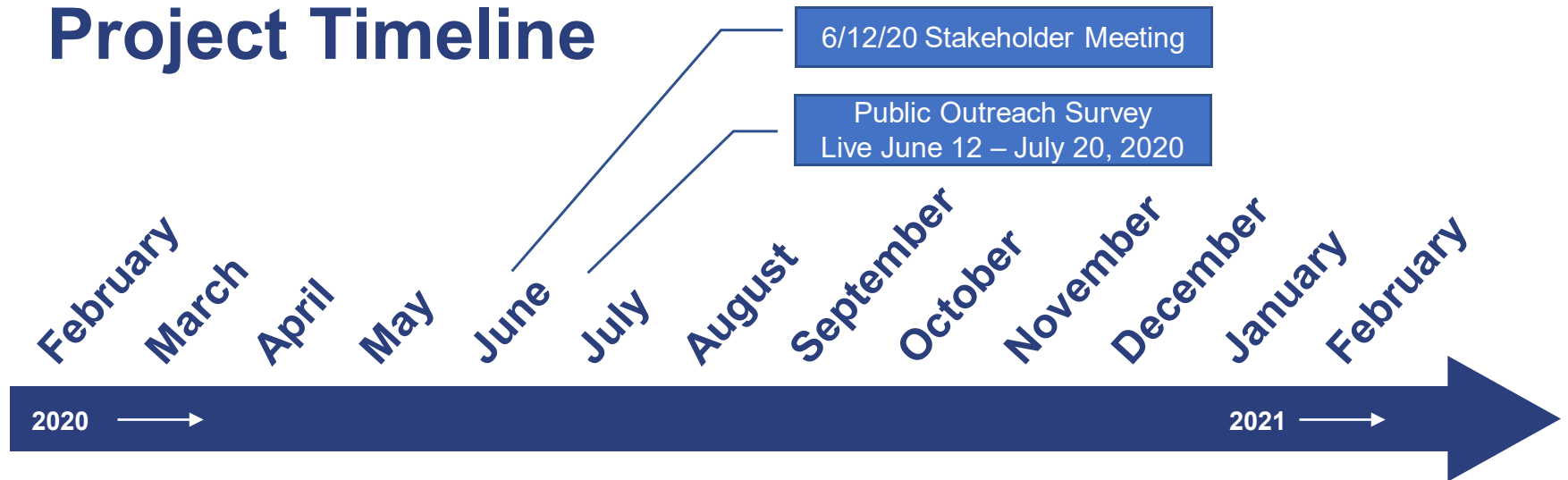
October 1, 2011



FEMA



Project Timeline



Participating jurisdictions and the County met to review the previous plan and update the Risk Assessment and Capability Assessment

Planning Committee met to review progress with mitigation projects and develop new projects to address changes in risk

Everyone in Nassau County has the chance to review the Plan and provide comments

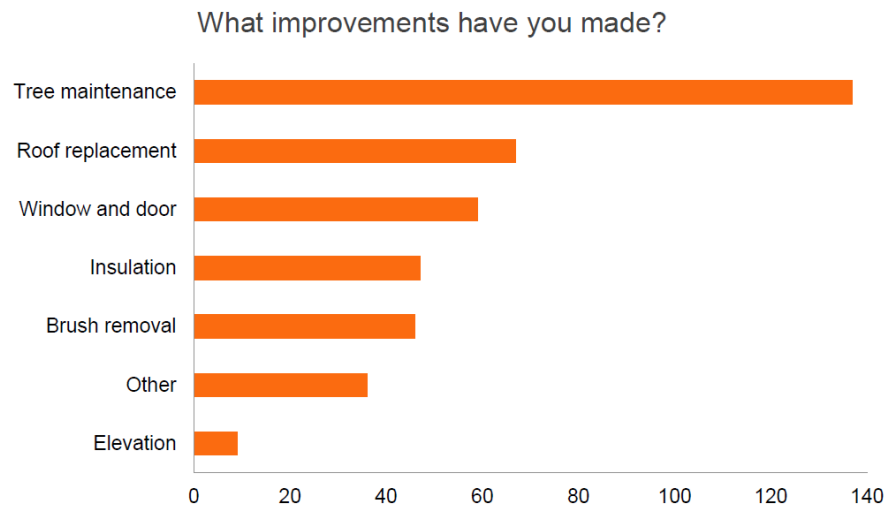
New York State and FEMA review and approve the Plan

Plan Adoption

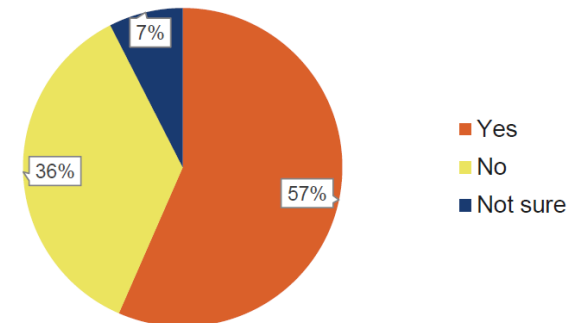


Hazard Mitigation Public Survey Results

- 277 responses received
- **Hurricanes were ranked the most concerning hazard**, as well as a variety of “other” types of hazards, including but not limited to pandemics, house fires, man-made disasters (e.g., terrorism), and trees falling.




Have you made improvements to protect your property from natural hazards?




Plan Review



Review the Plan!

NASSAU COUNTY  NEW YORK

Search 

Government Departments Residents Visit Nassau Business & Investor Relations e-Services Nassau A-Z

NASSAU HAZARD MITIGATION PLAN

- Emergency Management Home
- Hazard Mitigation Plan
- Public Comment Form**
- Interim Public Survey Results
- Executive Summary
- FAQ

[Home](#) > [Departments](#) > [Emergency Management](#) > Hazmit Plan


The Nassau County Hazard Mitigation Plan (Plan) emphasizes the County's dedication to identifying and reducing risks associated with natural hazards to increase community resilience. This Plan was developed through a year-long interactive planning process in close coordination with stakeholder groups and

We want to hear from you! ...ing the hazards of concern and potential losses, and developing a strategy with feasible and implementable actions to mitigate risk to these hazards throughout the County. Please review the Plan below and provide your feedback through the [Public Comment Form](#).

2021 Plan Content

[Executive Summary](#)

CONTACT US



[Email Us](#)

Visit <https://www.nassaucountyny.gov/2813/Hazmit-Plan> to review the draft plan online.



Review the Plan!



 HAGERTY

Public Comment Form for the Nassau County Hazard Mitigation Plan

Welcome

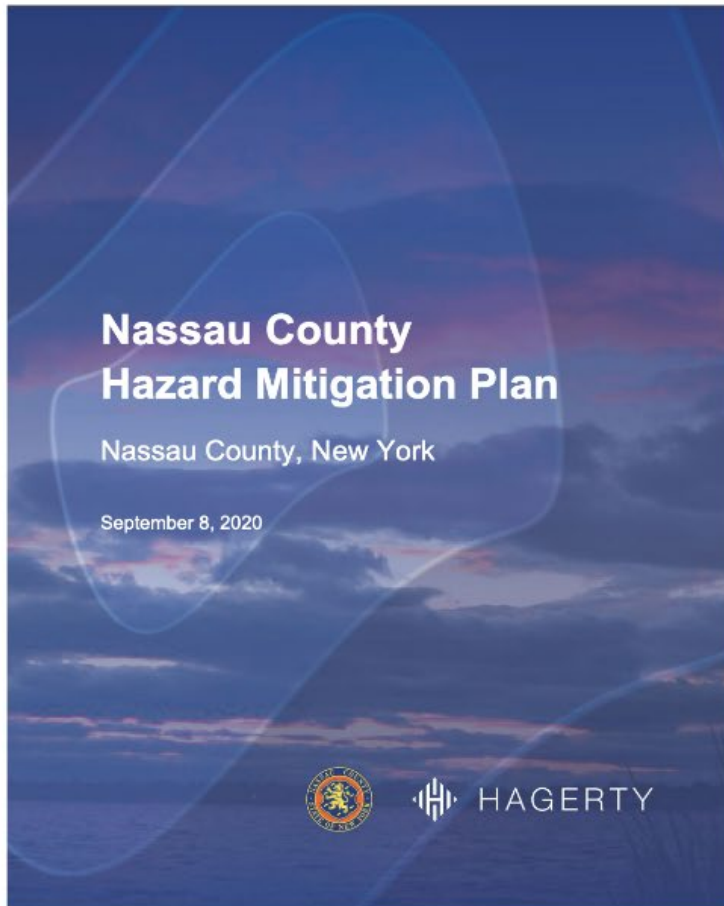
Thank you for taking the time to provide your feedback on the draft Nassau County Hazard Mitigation Plan. At this stage, the Plan has received a comprehensive update through a year-long interactive planning process. This marks the final opportunity for you to provide input on the Nassau County Hazard Mitigation Plan before it is finalized and submitted to New York State and the Federal Emergency Management Agency for final review and approval. This feedback form will be live from October 1 through October 30, 2020.

Before beginning the survey, please take a moment to download and review a copy of the [draft Nassau County Hazard Mitigation Plan](#) and the annex for the jurisdiction that you reside in. These documents can be found here on the Nassau County Office of Emergency Management's website.

Next



Have you reviewed the Nassau County Hazard Mitigation Plan?



Yes, all of it!

Yes, but only my jurisdiction's annex.

Yes, but only the base plan.

I've opened it but have not yet reviewed the document.

Not yet.

Plan Overview

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – County Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy
Appendix D – Nassau County Mitigation
Action Worksheets

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



Base Plan Overview

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – County Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy
Appendix D – Nassau County Mitigation
Action Worksheets

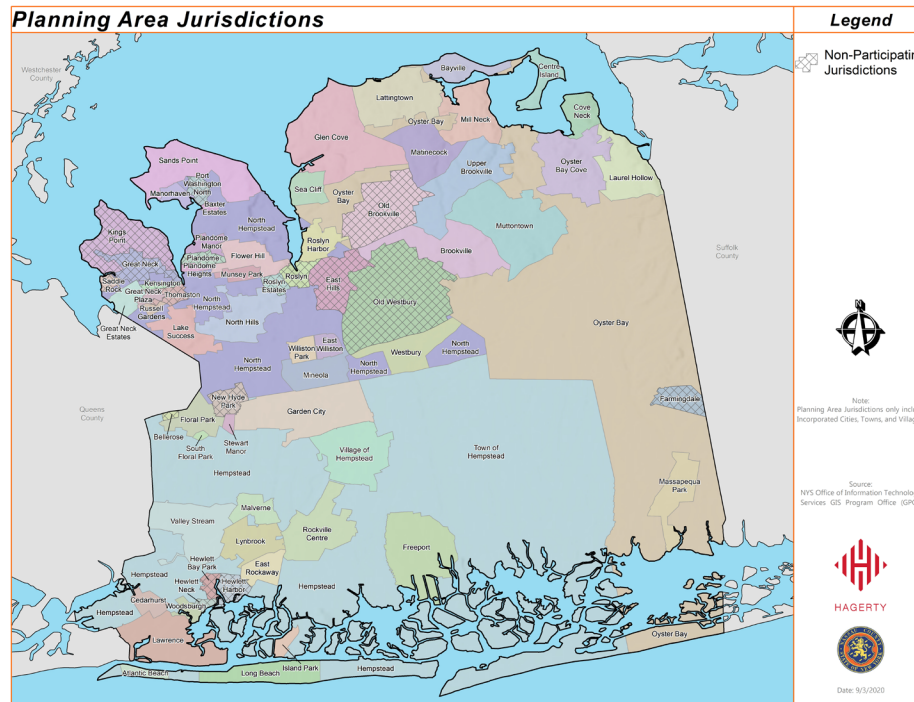
Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



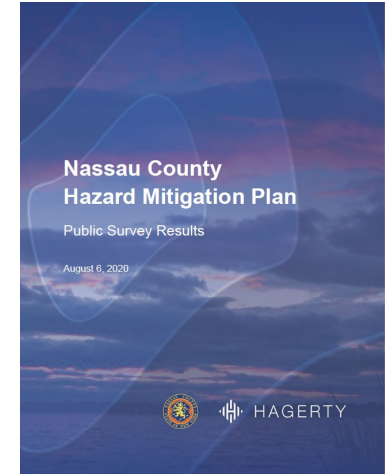
Section 1 – Introduction

Orients readers to the purpose and scope of the Plan and describes the jurisdictions who participated in the planning process.



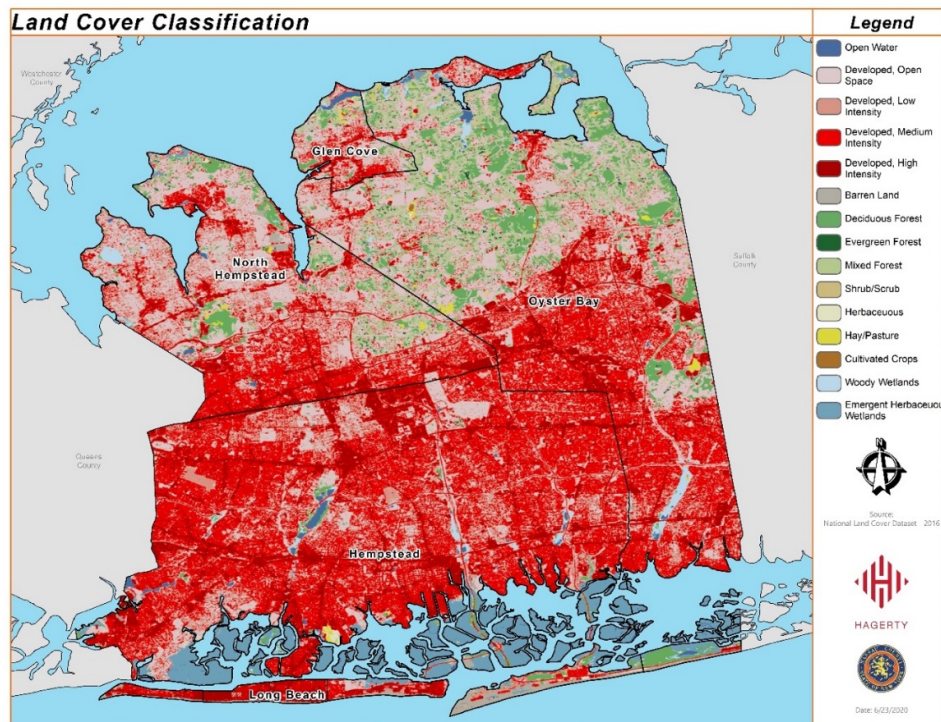
Section 2 – Planning Process

Describes the how the Plan was updated, including the meetings and tactics used to engage the whole community.



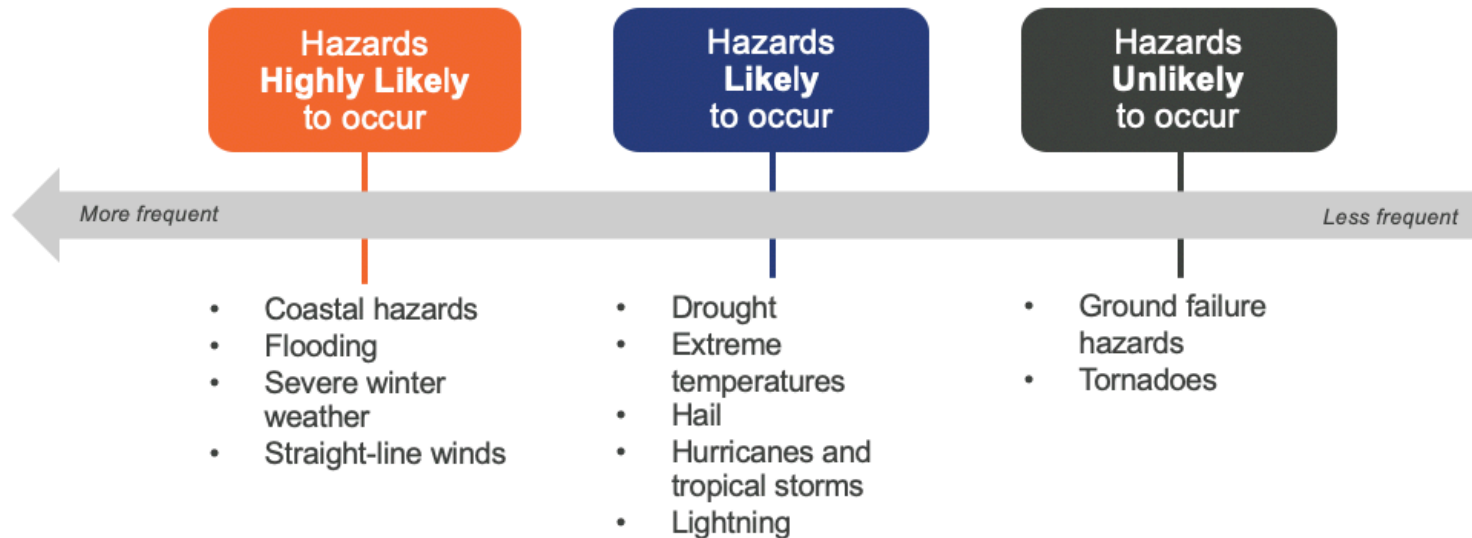
Section 3 – County Profile

Outlines the population, natural environment, building stock, and future conditions of the County.



Section 4 – Risk Assessment

Analyzes the County's risk to natural hazards. This includes a calculation of the probability, extent, and impact of these hazards.

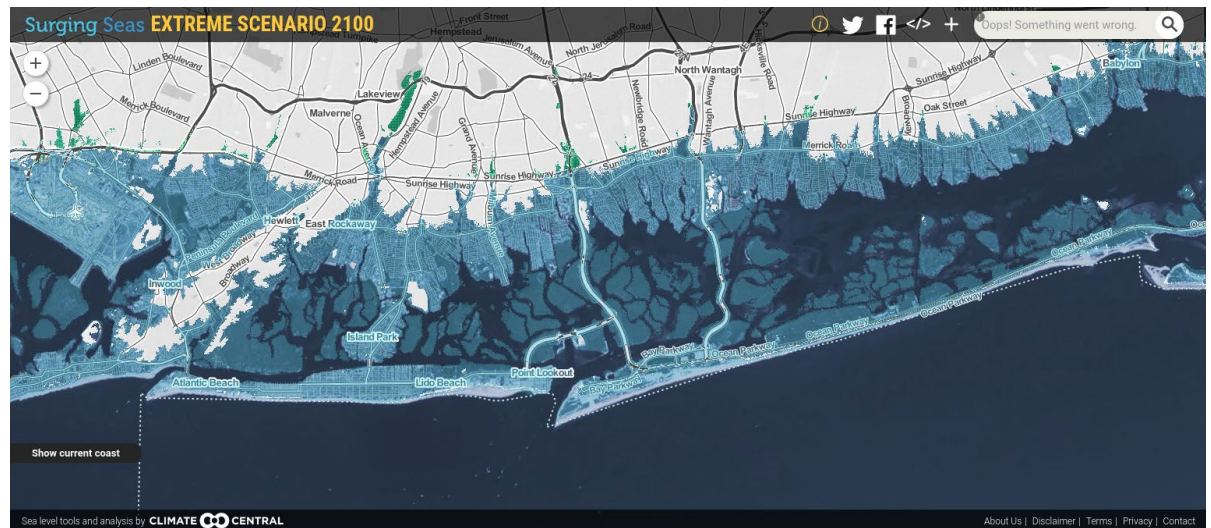


Coastal Hazards

Highly Likely

Types:

- Coastal Erosion
- Strong Wave Action
- Coastal Flooding
- Sea Level Rise
- Riptides



Flooding

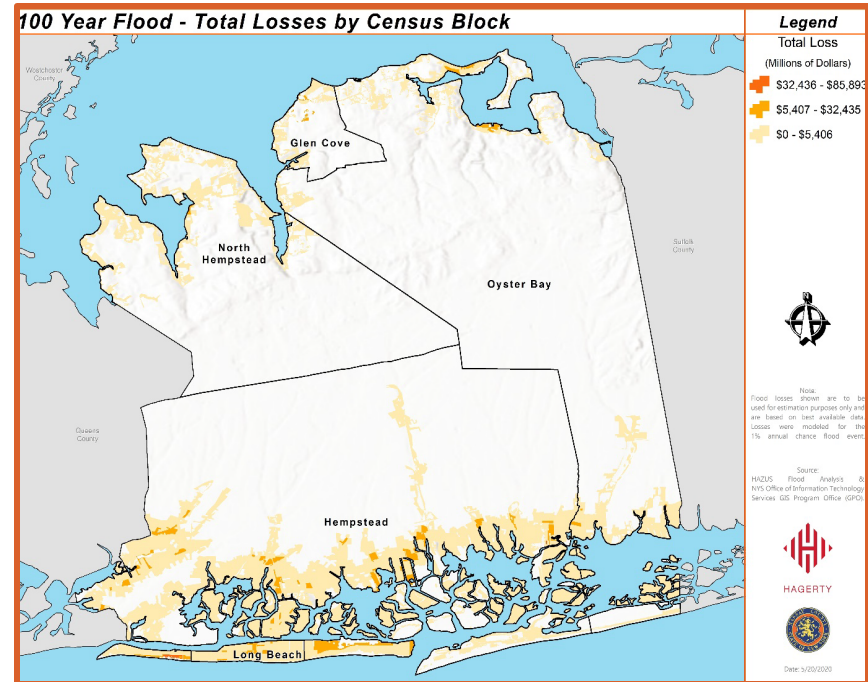
Highly Likely

Floodplains:

- 100-year floodplains have a 1% chance of flooding each year
- 500-year floodplains have a 0.2% chance of flooding each year

Recent Occurrences:

- Between 2015 and 2020:
 - 55 total floods
 - 21 flash floods
 - 33 coastal floods



*Building-related losses associated with a 100-year flood event total **nearly \$3.2 billion.***

Severe Winter Weather

Highly Likely

Types:

- Snow: frozen precipitation in the form of ice crystals
- Blizzards: snow events with wind speed over 35 mph that reduce visibility to quarter mile or less
- Nor'easters: Over nine inches of snow with high wind and storm surges

Recent Occurrences:

- Between 2010 and 2020, 66 reported events, including one death and 129 injuries.

The Dolan-Davis Nor'easter Intensity Scale

Storm Class	Description	Beach Erosion	Dune Erosion	Overwash	Property Damage
1	Weak	Minor changes	None	No	No
2	Moderate	Modest; mostly to lower beach	Minor	No	Modest
3	Significant	Erosion extends across the beach	Can be significant	No	Loss of many structures at local level
4	Severe	Severe beach erosion and recession	Severe dune erosion or destruction	On low beaches	Loss of structures at community level
5	Extreme	Extreme beach erosion	Dunes destroyed over extensive areas	Massive in sheets and channels	Extensive at regional scale; millions of dollars

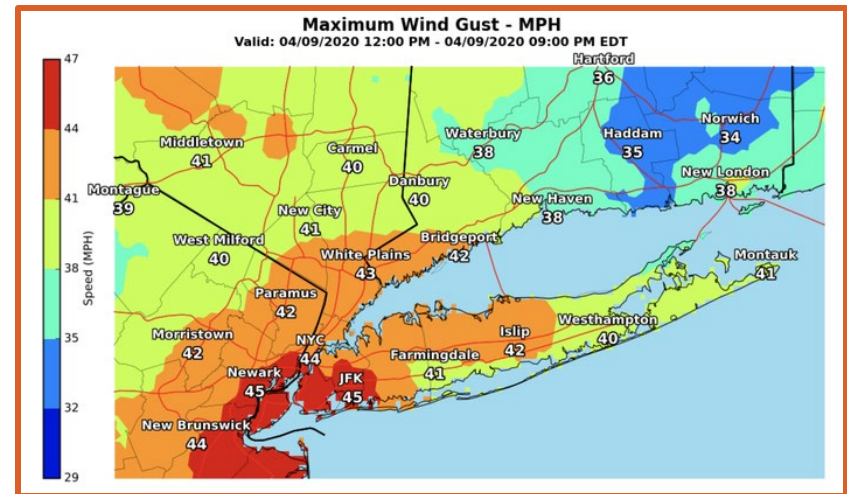


Straight-Line Wind

Highly Likely

Recent Occurrences:

- 129 significant events in the last 10 years, injuring 3 individuals
- In the past 10 years, wind damages cost Nassau County almost \$20,000 per year
- Single, severe events can cause up to \$100,000 in damages



April 9, 2020 maximum gusts

Section 5 – Capability Assessment

Collates information about the capabilities of the County to plan for, implement, and manage mitigation projects.



Legal and
Regulatory



Administrative
and Technical



Fiscal



Community Classifications

Section 6 – Mitigation Strategy

Presents the Plan’s mitigation goals and Nassau County’s Mitigation Action Plan.

Defines how actions will be prioritized and implemented.



Mitigation Goals

- 1** Build stronger by promoting mitigation actions that emphasize sustainable construction and design measures to reduce or eliminate the impacts of natural hazards now and in the future.
- 2** Build and support local capacity to prepare for, respond to, and recover from disasters.
- 3** Protect existing property including public, historic, private structures, state-owned/operated buildings, and critical facilities and infrastructure.
- 4** Increase awareness of hazard risk and mitigation capabilities among stakeholders, citizens, elected officials, and property owners to enable the successful implementation of mitigation strategies.
- 5** Develop and implement long-term, cost effective, and resilient mitigation projects to preserve or restore the functions of natural systems.
- 6** Improve coordination between land use and redevelopment planning to encourage safe, economically sound investments.



Overview of Appendices

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – County Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy
Appendix D – Nassau County Mitigation
Action Worksheets

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



Appendix A – Planning Process

Provides a record of outreach and participation in the planning process.

Includes:

- Outreach strategy
- Public survey summaries
- Copies of newsletters
- Meeting invitations, attendance, and presentations



Appendix B – Risk Assessment

Supports additional understanding of hazard risk by providing more detailed tables of data to supplement the analysis presented in the risk assessment section of the base plan.

Wind Losses

The charts below estimate the total losses that buildings across Nassau County could sustain due to a 100 year or 500 year wind event, according to an analysis conducted in Hazus. The loss values are reported in thousands of dollars.

100 Year Wind Events

Jurisdiction	Residential	Commercial	Industry	Agriculture	Government	Education	Religious	Total
Atlantic Beach, Village of	\$3,629	\$275	\$7	\$4	\$1	\$1	\$3	\$3,920
Baxter Estates, Village of	\$4,743	\$246	\$27	\$6	\$10	\$9	\$19	\$5,060
Bayville, Village of	\$8,075	\$215	\$17	\$6	\$4	\$30	\$17	\$8,365
Bellerose, Village of	\$3,498	\$88	\$14	\$0	\$1	\$6	\$5	\$3,611
Brookville, Village of	\$13,961	\$1,074	\$161	\$10	\$7	\$41	\$45	\$15,299
Cedarhurst, Village of	\$19,408	\$1,269	\$115	\$12	\$17	\$110	\$131	\$21,061
Centre Island, Village of	\$2,407	\$88	\$7	\$2	\$4	\$3	\$2	\$2,513
Cove Neck, Village of	\$3,901	\$238	\$7	\$2	\$1	\$13	\$4	\$4,166
East Hills, Village of	\$20,078	\$967	\$136	\$13	\$5	\$81	\$81	\$21,361
East Rockaway, Village of	\$24,065	\$1,475	\$183	\$12	\$11	\$36	\$58	\$25,839
East Williston, Village of	\$7,816	\$281	\$80	\$5	\$3	\$15	\$13	\$8,212
Farmingdale, Village of	\$17,897	\$874	\$114	\$17	\$3	\$72	\$56	\$19,033
Floral Park, Village of	\$13,233	\$351	\$52	\$3	\$6	\$25	\$27	\$13,698
Flower Hill, Village of	\$16,636	\$1,396	\$123	\$13	\$6	\$46	\$74	\$18,284
Freeport, Village of	\$46,580	\$2,240	\$387	\$34	\$25	\$76	\$205	\$49,547
Garden City, Village of	\$44,909	\$4,466	\$410	\$30	\$81	\$314	\$201	\$50,410
Glen Cove, City of	\$20,858	\$714	\$86	\$20	\$8	\$64	\$45	\$21,795
Great Neck, Village of	\$14,495	\$650	\$50	\$5	\$10	\$19	\$47	\$15,275
Great Neck Estates, Village of	\$14,868	\$861	\$58	\$3	\$5	\$16	\$50	\$15,861
Great Neck Plaza, Village of	\$12,897	\$813	\$54	\$3	\$4	\$13	\$37	\$13,821
Hempstead, Town of	\$394,887	\$19,151	\$2,218	\$276	\$196	\$1,365	\$1,513	\$419,606
Hempstead, Village of	\$38,646	\$2,773	\$217	\$18	\$40	\$269	\$185	\$42,146

Appendix C – Mitigation Strategy

Provides tools to support plan maintenance and implementation.

Tools include:

- Sample Adoption Resolution
- Project Funding Support Tool
- Plan Maintenance Reporting Tool



Appendix D – Nassau County Hazard Mitigation Worksheets

Appendix D contains 10 mitigation action worksheets that accompany some of the mitigation actions listed in the 2020 Nassau County Mitigation Action Plan (see Section 6).

Nassau County Multi-Jurisdictional Hazard Mitigation Plan			
Name of Jurisdiction: Nassau County: Village of East Rockaway			
NYS DHSES Action Worksheet			
Project Name:	Bay Park/East Rockaway: Drainage Improvements		
Project Number:	NCO_1		
Risk / Vulnerability			
Hazard of Concern:	Coastal Flooding		
Description of the Problem:	During high tide events, tidal water backing up into the drainage system and flows out of the existing grates at the low points flooding Lawson Avenue and the adjacent streets; the existing drainage system on Lawson Avenue does not have the capacity to store the road runoff from any rain event especially when there is a high tide; the existing drainage system is back pitched and does not function properly; several drainage grates have filter bag inserts that collect debris in order to clean the system, however, these bags are filling quickly and not being cleaned thus not allowing stormwater to enter the system and flooding Lawson Avenue and adjacent streets; and the system becomes filled with debris preventing the stormwater to flow through the system properly.		
Action or Project Intended for Implementation			
Description of the Solution:	Installation of various check valves and stormwater treatment devices and drainage improvements to Lawson Avenue in Bay Park and the Village of East Rockaway. The existing drainage system on Lawson Avenue will be replaced with larger pipe and more drainage structures to increase the capacity of the system and remove the pipes that are back pitched and the installation of an in-line check valve to prevent tidal surcharge and a stormwater treatment structure to remove debris, improve the quality of the stormwater, and prevent debris from reaching the in-line check valve thus preserving the life of the in-line check valve.		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input checked="" 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:	1-Year storm	Estimated Benefits (losses avoided):	This project will correct major drainage problems that continue to flood the streets of East Rockaway and Bay Park.
Useful Life:	50 Years		
Estimated Cost:	\$5,671,589.05		
Plan for Implementation			
Prioritization:	Leave Blank	Desired Timeframe for Implementation:	February 28, 2020
Estimated Time Required for Project Implementation:	15 Months	Potential Funding Sources:	GOSR/CDBG-DR
Responsible Organization:	Nassau County	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	0	
	Purchase additional filter bag inserts and establish a system for rapid-replacement of filters.	<\$100,000 + annual maintenance.	This might provide some flood reduction benefits, but would require significant staff time and availability without providing the same level of risk reduction.
Upgrade the system to accommodate a larger storm event	>\$8,000,000	While upgrading the drainage infrastructure to accommodate even larger storm events would be desirable, it is believed to be cost prohibitive.	
Progress Report (for plan maintenance)			
Date of Status Report:	August 14, 2020.		
Report of Progress:	Design phase almost complete, Construction phase set to begin by the end of the year.		



Jurisdictional Annexes

Base Plan

Section 1 – Introduction
Section 2 – Planning Process
Section 3 – County Profile
Section 4 – Risk Assessment
Section 5 – Capability Assessment
Section 6 – Mitigation Strategy

Appendices

Appendix A – Planning Process
Appendix B – Risk Assessment
Appendix C – Mitigation Strategy
Appendix D – Nassau County Hazard Mitigation Worksheets

Annexes

51 Jurisdictional Annexes
(one for each participating jurisdiction)



Jurisdictional Annexes

- Demographics and current and future development for the jurisdiction
- Overview of how the natural hazards outlined in the Base Plan impact the jurisdiction
- Jurisdiction's progress towards previous mitigation actions
- New mitigation action plan and mitigation action worksheets

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Centre Island. The Village of Centre Island has a high level of primary administrative and technical capabilities to support mitigation. This includes management, engineering, grant writing, GIS analyst, and planning. Increasing training capacity and expertise of these individuals will support mitigation practice in the Village.

Table 4: Village of Centre Island Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Mayor Lawrence Schmidlapp
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	Village Engineer James Antonelli
Engineer(s) with an understanding of natural and/or human caused hazards	No	
Engineer(s) with knowledge of land development and land management practices	Yes	Building Inspector Joe Richardson
Grant Writers	Yes	currently looking
Personnel skilled or trained in Geographic Information Systems	Yes	Village Clerk- Carol Schmidlapp
Personnel trained in construction practices related to buildings/infrastructure	Yes	Building Inspector- Joe Richardson
Planner(s) with an understanding of natural hazards	No	
Planner(s) with knowledge of land development and land management practices	Yes	Jim Antonelli
Scientist(s) familiar with natural hazards	No	
Surveyors	No	

Mitigation Strategy

The following section provides an overview of the mitigation strategy for Village of Centre Island. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

Previous Mitigation Actions

Action	Centre Island Road Flooding Mitigation - Construction of a 5ft high extension to an existing 1ft wall, and two one-way 12" diameter sluice pipes.	Generator installed at the Police Station in order to reduce impacts from flooding events.
Risk Category	Flooding	Flooding
Project Status	In progress	Completed
Project Status Description	Engineering analysis is done but additional project work is temporarily halted. Construction has not started due to logistics and the scope of the plan. After extensive engineering drawings, the owner of adjacent property refuses to lose use of his driveway for two months in order for construction to move forward.	
Carried Forward to 2020 Plan	Yes	NO
Required Changes	A better way to accomplish the end result is being studied	



Next Steps and Q&A



Next Steps



Public Comment Period

The draft plan was posted on October 1st. Submit your comments before October 30th using the online public comment form.

Please take the survey and share it through your contacts!





Reach Out

Reach out to **hazardmitigation@nassaucountyny.gov** with your ideas and concerns – we want to hear them!



Review the Plan!

NASSAU COUNTY  **NEW YORK** | Search 

Government Departments Residents Visit Nassau Business & Investor Relations e-Services Nassau A-Z

NASSAU HAZARD MITIGATION PLAN

- Emergency Management Home
- Hazard Mitigation Plan
- Public Comment Form**
- Interim Public Survey Results
- Executive Summary
- FAQ

[Home](#) > [Departments](#) > [Emergency Management](#) > Hazmit Plan


The Nassau County Hazard Mitigation Plan (Plan) emphasizes the County's dedication to identifying and reducing risks associated with natural hazards to increase community resilience. This Plan was developed through a year-long interactive planning process in close coordination with stakeholder groups and

We want to hear from you! ...ing the hazards of concern and potential losses, and developing a strategy with feasible and implementable actions to mitigate risk to these hazards throughout the County. Please review the Plan below and provide your feedback through the [Public Comment Form](#).

2021 Plan Content

[Executive Summary](#)

CONTACT US



[Email Us](#)

Visit <https://www.nassaucountyny.gov/2813/Hazmit-Plan> to review the draft plan online.



Questions?



Nassau County Public Meeting – October 8, 2020

Meeting Attendees

- Sydney McKenna (Presenter, Hagerty Consulting)
- Michael Levkowitz (Subject Matter Expert, Hagerty Consulting)
- Tim Dougherty
- Susan Park, Nassau County Office of Emergency Management
- Nicole Marks, Nassau County Office of Emergency Management
- Corey Sinkler
- Doug Groth - Bayville
- Amy Blackman
- Valley Stream
- edwapow
- Sam Pinto
- Elizabeth Treston
- Felicia Leto
- Tracy Lynch
- Shannon Clarke
- brian farrell
- THOMAS
- PBroderick
- Alex Prince
- Joel Ziev
- Angela Mannino
- Renee Marcus
- Joel Ziev
- Sarah Felson (Felson's)
- Albaranom
- Maria Alfano-Hardy
- Tracy Lynch
- BARRY (ROSEANN)
- A Ward
- FPA EMS
- Angela Mannino
- Helene
- Call-In Attendee (Number Redacted)
- Call-In Attendee (Number Redacted)
- Call-In Attendee (Number Redacted)

Public Comment Summary

Nassau County shared its draft Hazard Mitigation Plan with the public, posting the plan on the County website between October 1 - October 30, 2020. The public comment period was advertised through the County website, the Mitigation Planning Newsletter, and during the Public Meeting on October 8, 2020. Two comments were received from the public during the comment period. Both comments were reviewed and addressed through revisions or additions to the plan.