

Discovery Report Appendix G

Discovery Meeting Presentation

Oneida Lake Watershed

HUC 04140202

September 2016



Federal Emergency Management Agency
Department of Homeland Security
26 Federal Plaza
New York, NY



FEMA

Discovery Meeting: Oneida Lake Watershed

May 24th – May 26, 2016



NEW YORK
STATE OF
OPPORTUNITY


Department of
Environmental
Conservation


RiskMAP

Increasing Resilience Together

Agenda

- Introductions
- Purpose of This Meeting
- Risk MAP Program Overview
- Discovery Process
- Flood Risk Products
- Oneida Lake Watershed Data
- Mitigation Planning
- NFIP and Community Rating System
- Next Steps
- Discussion Session

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Oneida Lake Watershed Risk MAP Discovery Project

Join us in capturing a more complete picture of flood risk in your community and watershed.

The FEMA Risk MAP Program
Risk Mapping, Assessment, and Planning (Risk MAP) is the Federal Emergency Management Agency (FEMA) program that provides communities with quality flood maps and other tools they can use to enhance their mitigation plans and take action to reduce flood risk. As part of the Risk MAP program, FEMA, in partnership with the New York State Department of Environmental Conservation (NYSDEC), has started a Risk MAP Discovery project for the Oneida Lake watershed.

Oneida Lake Watershed Discovery Project
The Discovery process of FEMA's Risk MAP program is about the "discovery" of flood hazards and flood risk in a particular watershed. As part of the Oneida Lake watershed Discovery project (map on next page), FEMA and NYSDEC will work closely with local communities and organizations to collect information about flooding issues and flood mitigation activities; flood mapping needs; recent development; and other issues related to flood risk. The Discovery process helps communities identify areas at risk for flooding and solutions for reducing that risk.

The project team is currently collecting watershed-wide data and will coordinate with local stakeholders to obtain additional data about flood risk. The information collected during this Discovery process will be used to develop recommendations for a future Risk MAP project that may be initiated if funding is available. Such a follow up project could include the creation of digital flood maps, risk assessment or mitigation planning assistance. The Discovery process does not necessarily mean that a new Risk MAP project will take place - instead, it is the process through which FEMA and NYSDEC learn about local flooding issues and prioritize the need for new studies.

Upcoming Discovery Meetings!
FEMA and NYSDEC are hosting five Discovery Meetings in your watershed soon. During the meetings, we will review the flood risk data collected, discuss your community's floodplains, mitigation plans, flood risk concerns, and the vision of the watershed's future. Attendees will be able to meet one-on-one with project team members to discuss local flooding issues, provide feedback on their community's existing floodplain maps and learn more about programs and activities that may help reduce flood risk.

Attend an Upcoming Discovery Meeting -
This is your opportunity to ensure that FEMA and NYSDEC are aware of local flooding issues and flood mapping needs. Make sure your community's voice is heard!

RSVP for any of the Oneida Lake Watershed Discovery Meetings below by contacting Grace Vinson of the project team by email at gracevinson@clarkgroupinc.com or call (802) 917-0582.

Madison County: Tuesday, May 24, 2016
1:30 PM - 4:00 PM
Madison County Emergency Operations Center
198 North Court Street, Wampsville, NY 13163

Oneida County: Wednesday, May 25, 2016
9:00 AM - 11:30 AM
Village of Sylvan Beach Office
808 Marina Drive, Sylvan Beach, NY 13157

Oswego County: Wednesday, May 25, 2016
1:30 PM - 4:00 PM
Village of Cleveland Village Hall
2 Clay Street, Cleveland, NY 13042

Onondaga County: Thursday, May 26, 2016
9:00 AM - 11:30 AM
Town of Manlius Office
301 Brookline Drive, Fayetteville, NY 13066

Lewis County: Thursday, May 26, 2016
2:30 PM - 5:00 PM
Lewis County Cornell Cooperative Extension
5274 Outer Shawe Street, Lewisville, NY 13367

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Introductions

- ***FEMA Region II:***

- Paul Hoole
- Other FEMA Region II Representatives

- ***NYS DEC Support Team***

- Samara Ebinger, Dewberry
- Phil Hipley, Dewberry
- Lisa Mahoney, The Clark Group
- Grace Vinson, The Clark Group

- ***New York State Department of Environmental Conservation (NYS DEC)***

- William Nechamen – Chief of Floodplain Management Section
- Kelli Higgins-Roche – NYS DEC Project Lead
- Jennifer Horton – Environmental Engineer
- Dave Sherman – Environmental Program Specialist

Who's Here?

- **State or Federal Representatives**
- **County Officials**
- **Local Communities**
 - CEOs/Elected Officials
 - Floodplain Administrators
 - Code Enforcement Officers/Engineers
 - Emergency Planners
- **Non-Governmental Organizations**
- **Private sector**
- **Other**



Purpose of This Meeting

- **Explain the Discovery process**
- **Share your concerns about flood risk**
- **Share any additional flood data you may have:**
 - Areas of recent or proposed development
 - Areas of historical flooding
 - Overstated or understated flood hazard areas
 - Areas of possible mitigation interest
 - Risk communication/training needs
- **Share your thoughts on which FEMA flood risk products / mitigation projects you would like in your community**



What is Risk MAP?

- **FEMA works with communities to develop flood risk products and flood hazard maps that are:**
 - Based on the best available data from the community and latest technologies.
- **You can use Risk MAP tools and data to:**
 - improve / implement your Hazard Mitigation Plans.
 - influence decisions about development, ordinances, and flood mitigation projects.
 - communicate with citizens about flood risk.



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What is Risk MAP?

- **Our common goal: to maintain the sustainability of your community by increasing its resilience from floods and other natural hazards**



Discovery Process

- **FEMA and local communities/organizations “discover” and assess flood risk data**
- **Discovery Data Collection Period**
 - Stakeholder coordination and data analysis
- **Discovery Meeting**
 - Initial Discovery Maps and Report
- **Post-Meeting Review**
 - Final Discovery Map and Discovery Report
- **Scope Refinement**



Discovery Products and Results

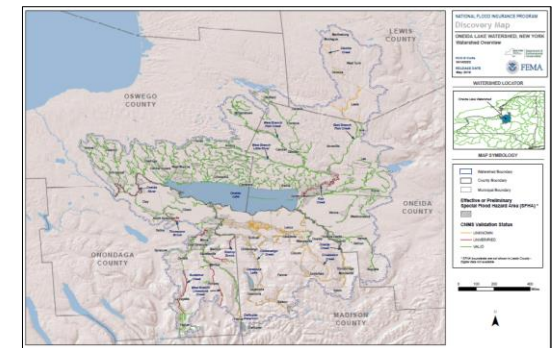
- **Discovery Report**

Including summary of data/needs, analysis, meetings, and action items or decisions

- **Discovery Maps**

Visual representation of data collected, including feedback from stakeholders

- **Recommended scope for future Risk MAP project (e.g., updated digital FIRMs)**

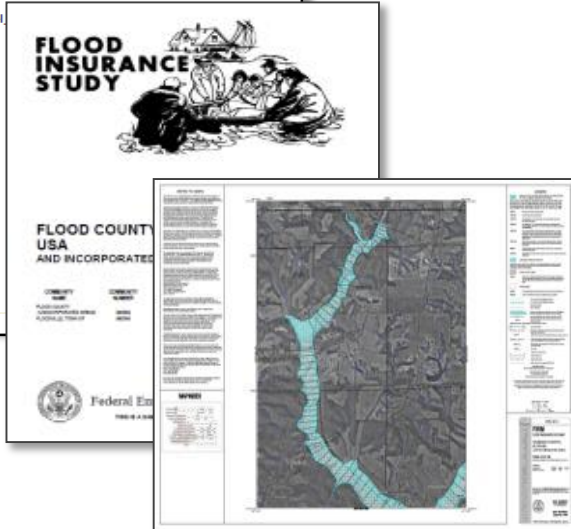


Flood Risk Products

Traditional Regulatory Products

DFIRM Database

- Flood_Hazard_Data
- Political_Boundaries
- Public_Land_Survey_System
- TopoData
- Community_Panel
- L_Comm_Info
- L_MT1_LOMC
- L_Pan_Revis
- L_Pol_FHBM
- L_Riv_Model
- L_Stn_Start
- L_Wtr_Nm
- S_Bfe
- S_DOQ_Index
- S_Firm_Pan
- S_Gen_Struct
- S_Label_Id
- S_LOMR
- S_Perm_Bmk
- S_Quad
- S_Riv_Mrk
- S_Trnsport_Ar

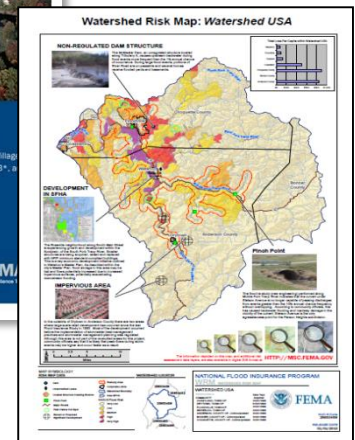
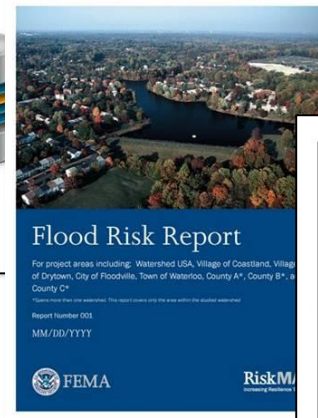


Traditional products are regulatory and subject to statutory due-process requirements

Non-Regulatory Products (new for Risk MAP)

Flood Risk Database

- Community_Panel_Info
- L_Comm_Info
- L_MT1_LOMC
- L_Pan_Revis
- L_Pol_FHBM
- L_Riv_Model
- L_Stn_Start
- L_Wtr_Nm
- S_Bfe
- S_DOQ_Index
- S_Firm_Pan
- S_Gen_Struct
- S_Label_Id
- S_Label_Pt
- S_LOMR
- S_Perm_Bmk
- S_Quad
- S_Riv_Mrk
- S_Trnsport_Ar



Risk MAP products are non-regulatory and are not subject to statutory due-process requirements

Non-Regulatory Flood Risk Products - Examples

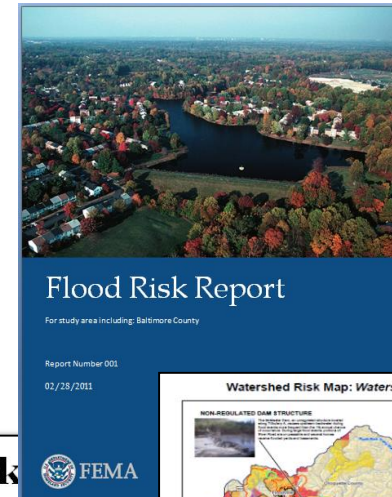
■ Flood Risk Datasets

- Changes Since Last FIRM
- Flood Depth Grids
- Water Surface Elevation Change Grids
- Areas of Mitigation Interest

■ Flood Risk Database

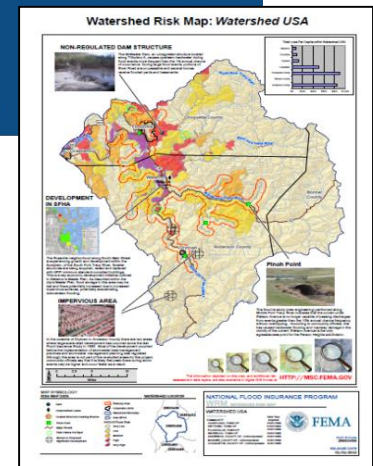
■ Flood Risk Report

■ Flood Risk Map



Flood Risk Database

Community_Panel_Info
L_Comm_Info
L_MTT_LCMC
L_Pan_Revis
L_Pol_PHEM
L_Riv_Model
L_Shr_Start
L_Vtr_Nen
S_Bfe
S_PDO_Index
S_Prim_Pan
S_Gen_Struct
S_Label_Id
S_Label_Pt
S_LCMR
S_Perm_Bnk
S_Qual
S_Riv_Msk
S_Transport_Ar



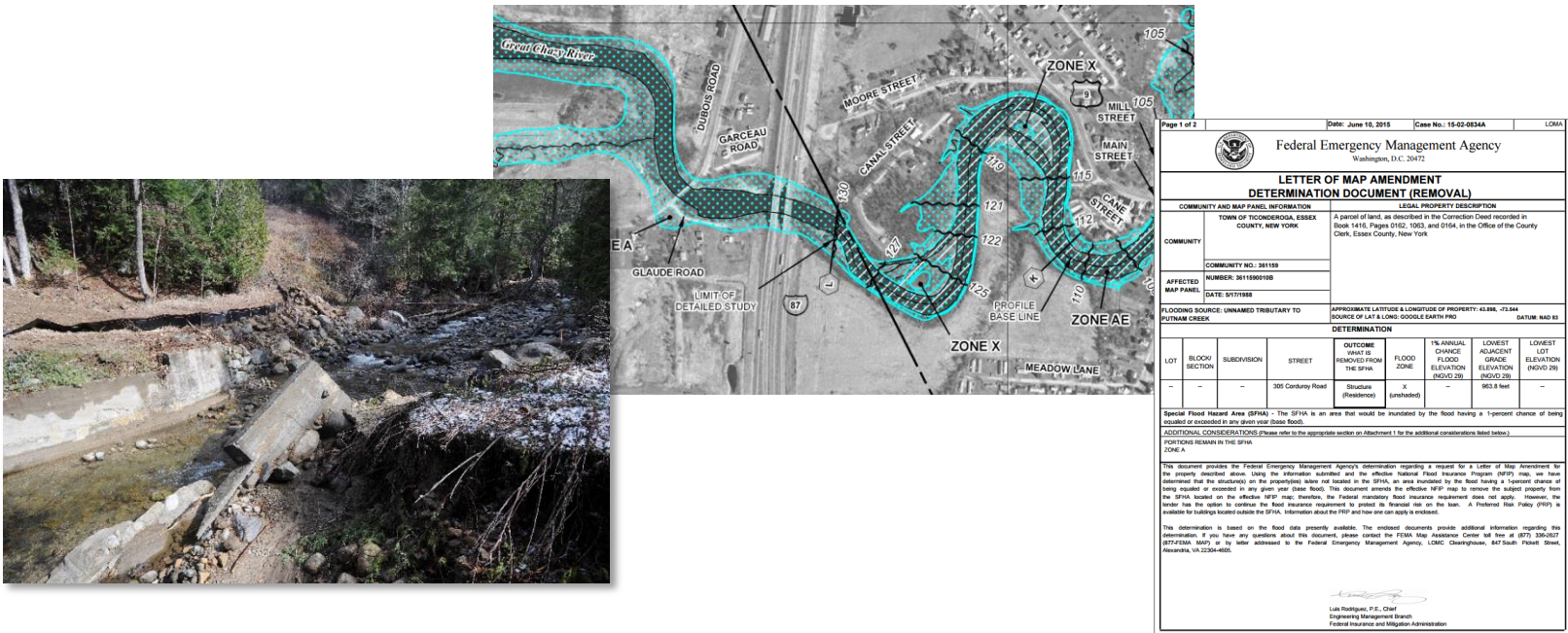
Oneida Lake Watershed Discovery Project Area



- **5 counties**
 - Lewis
 - Madison
 - Oneida
 - Onondaga
 - Oswego
- **63 communities, including towns, cities, and villages**

Why the Oneida Lake Watershed?

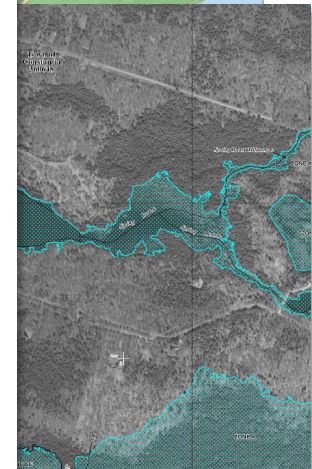
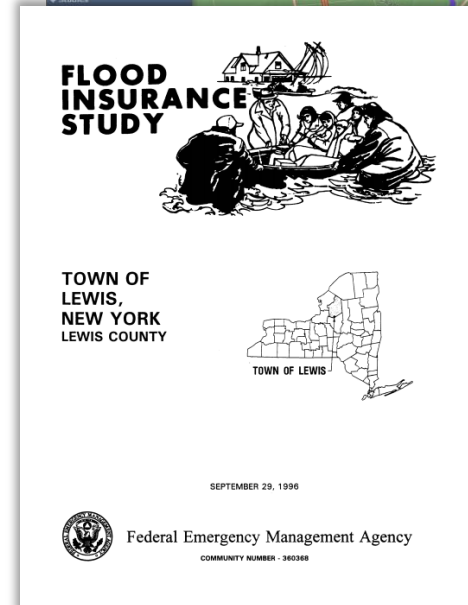
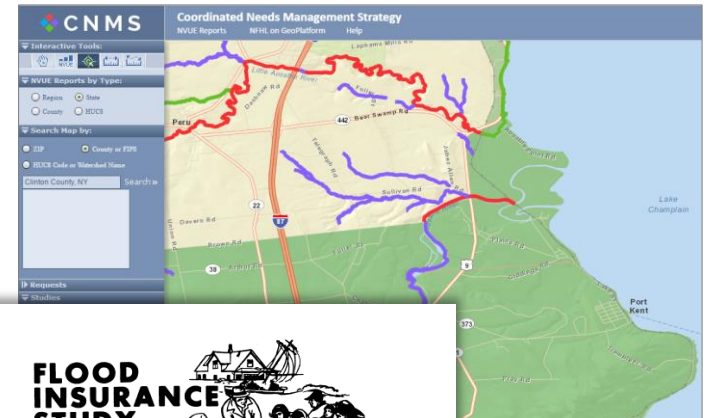
- Size of population
- Recent flash flooding episodes
- Many flooding sources on FIRMs have not been recently restudied.



Data Collection: Background Data

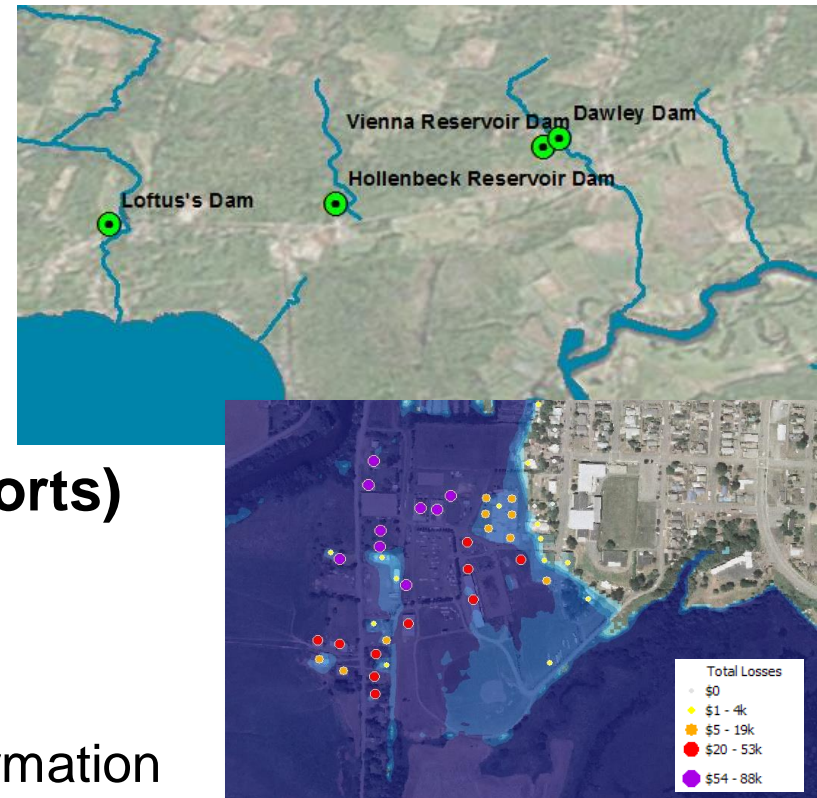
■ Flood Data

- FIRMs/DFIRMs and Flood Insurance Study reports
- Community Rating System class
- Stream/lake locations
- Repetitive loss data
- Flood insurance policies and claim information
- Letters of Map Amendment and Letters of Map Revision
- Clusters of Letters of Map Change
- Coordinated Needs Management Strategy information



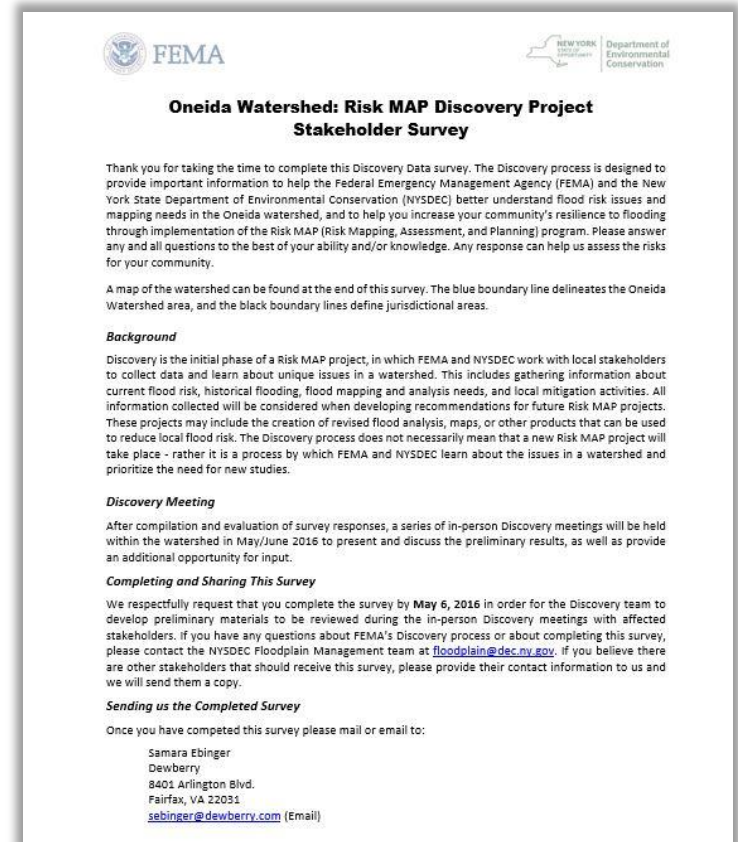
Data Collection: Background Data

- **Census information**
- **Transportation features**
- **State & Federal lands**
- **Stream Gages**
- **Topography & Bathymetry**
- **Dams (GIS and Dam Specific Reports)**
- **Federal and State Disasters**
- **Additional Studies:**
 - Average Annualized Loss (AAL) information
 - FEMA-approved Hazard Mitigation Plans
 - Community Ordinances



What information do we need from you?

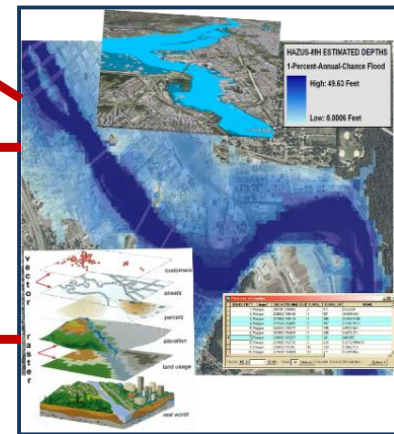
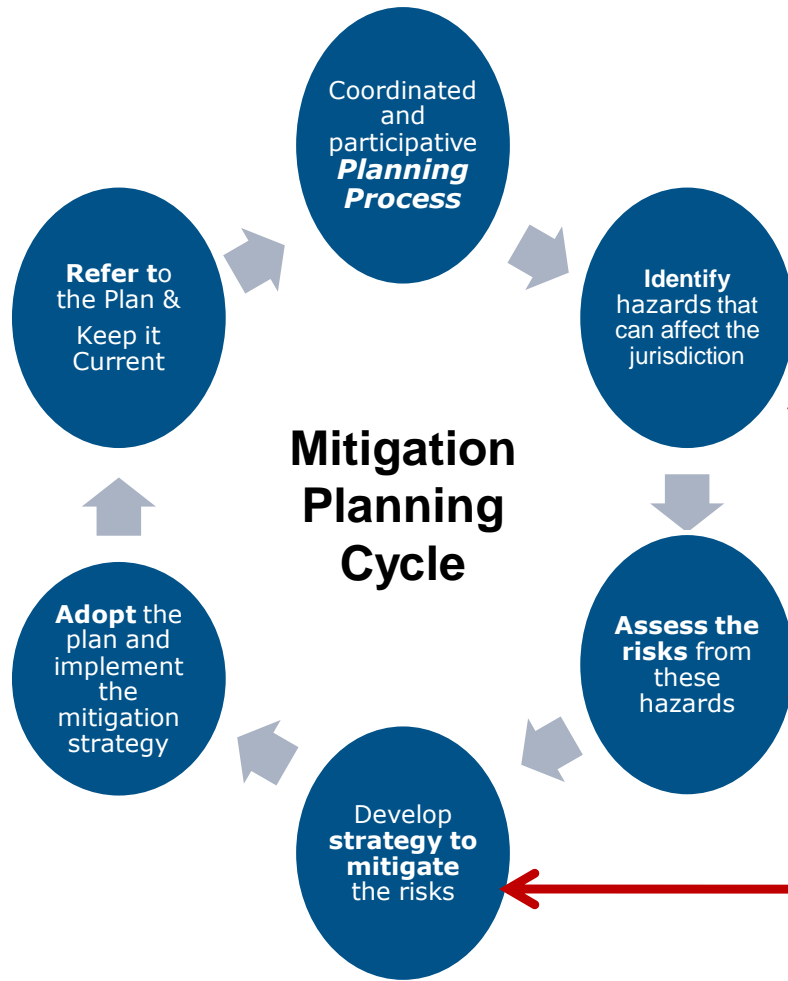
- Historical flooding problems
- FIRM inaccuracies
- Recent/ongoing mitigation projects/activities
- Recent or planned development activities
- Availability of GIS and other data
- Training needs



Hazard Mitigation Planning

■ Risk MAP and Mitigation Planning

- Local hazard mitigation plans must be updated every five (5) years.
- Use new Risk MAP information to update local HMP.
 - Flood Hazard Profile
 - Risk Assessment
 - Mitigation Strategy



Categories of Flood Mitigation Activities



Property Protection Measures

- Buy outs
- Flood proofing
- Relocation
- Structure elevation



Education and Outreach Measures

- Brochures
- Booths at fairs and festival
- Annual meetings



Prevention Measures

- Flood ordinance,
- Stormwater programs
- Building codes



Natural Resource Protection Measures

- Wetland and stream restoration
- Riparian buffer ordinances



Structural Project Measures

- Levees,
- Dikes,
- Floodwall
- Culvert replacement
- Bridge Replacement
- Stream maintenance



Emergency Services Measures

- Reverse 911
- Swift water rescue equipment



Possible Mitigation Activities

Mitigation should be part of overall hazard mitigation plan

- 2 foot of freeboard for new structures.
- Cumulative substantial improvement clause.
- List of publicly owned buildings that have flood risk.
- Acquisition of flood prone structures.
- County GIS system.
- Update weather tracking equipment.
- Stream bank stabilization projects.
- Identify sanitary sewer mains vulnerable to erosion from flood.

- Adopt a wellhead protection ordinance.
- Vulnerability assessment of water and wastewater infrastructure.
- Elevate, move and acquire flood damaged structures.
- Identify vulnerable critical facilities.
- Implement mitigation measures for repetitive loss properties.
- Require elevation of new structures and substantially improved structures.
- Natural stream restoration.

Mitigation Grant Programs (FEMA)

- **Hazard Mitigation Grant Program (HMGP)**

Available after a major disaster declaration - the amount of funding is 15% of the total federal assistance provided by FEMA for disaster recovery under the major disaster declaration.

- **Pre-Disaster Mitigation (PDM)**

Nationally competitive grant program that funds cost effective, comprehensive mitigation activities that reduce injuries, loss of life, and damage to property.

- **Flood Mitigation Assistance (FMA)**

Provides funding to assist States and communities in implementing measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insured under the NFIP.

Mitigation Grant and Loan Programs

- NYS OEM Manages FEMA Mitigation Grant Programs
- NYS DEC: Stream Restoration and Water Quality Improvement Grants
- NYS Office of Community Renewal
- NYS Department of State
- NYS Environmental Facilities Corporation
- NYS Energy Research and Development Authority
- NYS Department of State Office of Communities and Waterfronts
- Corps of Engineers
- HUD
- NRCS

National Flood Insurance Program

- Allows property owners to purchase flood insurance at below market rates
- State and local governments agree to adopt and enforce floodplain management ordinances
- Over 20,300 communities participate in the NFIP
 - 1,490 in New York



Community Rating System (CRS)

- **Flood insurance premiums discounted to reward community actions that reduce flood losses and promote the awareness of flood insurance**
- **Class rating system from 1 to 10**
- **Each Class improvement (500 point increments) results in additional 5% discount**
- **Credits awarded for activities implemented at the state level**
- **19 creditable activities, organized under four categories:**
 - Public Information
 - Mapping and Regulations
 - Flood Damage Reduction
 - Warning and Response



Recommended Higher Standards

- Go beyond 2 feet of freeboard
- Restrictions on hazardous material storage
- Regulated high risk land uses (e.g. manufactured homes/critical infrastructure)
- Setbacks/Buffers
- Conservation/open space area
- Cumulative Substantial Damage/Substantial Improvement
- Lower threshold for Substantial Damage
- Subdivision design triggering flood study
- Prohibitions
 - SFHA development
 - Manufactured homes
 - Fill

Next Steps

- Local communities / organizations provide their input
- NYS DEC will:
 - finalize Discovery Maps and Discovery Report and distribute to local communities and other stakeholders
 - update FEMA systems (CNMS, National Digital Elevation/Orthophotography Programs, etc.)
 - prepare recommended scope of work for a future Risk MAP project based on prioritized needs

Contacts

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Break Out Discussion Sessions

We want to hear from you about:

- Historical flooding problems
- FIRM inaccuracies/needed updates
- Recent/ongoing mitigation projects/activities
- Recent or planned development activities
- Availability of GIS and other data
- Training needs
- Other flood-related concerns or issues